PRODUCT CATALOGUE EDITION 3



Bullivants

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Bullivants acknowledges the Traditional Custodians of lands, seas and waterways in all regions and communities in which we operate.

As Australia's First Peoples, we recognise their deep connection to Country that exists, and pay respect to Elders past and present and embrace the continued custodianship of the places we live and work.

Bullivants

Featured Indigenous artwork by Bianca Gardiner-Dodd at The Culcha Collective



Follow Us @Bullivants





Sovereign A2 – Silk is proudly made FSC[®] certified by Hansol who also carry the ISO 14001 EMS accreditation. Manufactured with elemental chlorine free pulps. Full 'cradle to grave' LCA completed according to international standards.

WHY CHOOSE BULLIVANTS

Bullivants is the oldest, largest and most progressive Australian owned specialist provider of lifting, rigging, testing and related services to the industrial sector.

For over 130 years, Bullivants has provided our customers with expert lifting solutions.

Being part of the Wesfarmers Industrial and Safety sector supports us to grow our offerings to customers.

Since 1891, Bullivants has played a part in pioneering lifting and rigging applications safely and efficiently for our customer's businesses. Safety has always been and will continue to be our number one priority.

As market leaders backed by Wesfarmers, and with ISO and Australian Standard accreditation, we are continually improving our core services. Our focus on innovation helps us provide you with more of what you need.

Our experience, capabilities, industry and product knowledge, sets us apart. By utilising Bullivants, you gain access to the most technically capable and skilled supply partner in lifting, rigging and height safety.

PARTNERSHIPS

With over 26,000 products in our range of lifting and rigging equipment, we are able to provide the right product for the right application. Over many years, Bullivants has built strong relationships with critical key suppliers, ensuring our products are of the highest quality and comply with Australian Standards.

OUR PEOPLE

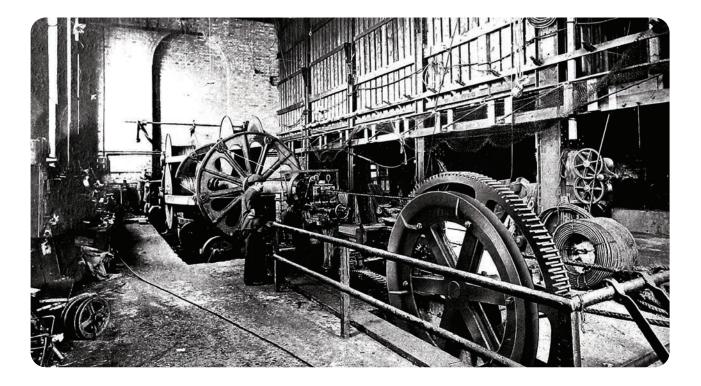
At Bullivants, we know that continuous learning is key in developing and empowering our people to be the best they can be. We are committed to providing ongoing training opportunities for every employee to support them in their pathway of lifelong learning. We are equally committed to building a diverse workplace that better represents modern Australia.

With 18 branches and over 280 employees nationally, no matter which branch you visit, you can feel confident in receiving high quality support and service.

OUR HISTORY

Commencing operation in 1891, Bullivants has played a major part in pioneering the Lifting and Rigging industry. Thanks to the legacy left by William Bullivant and all the hard work that started over 130 years ago, our customers can be assured that safety in lifting and rigging has been and always will be a priority.

We will continue to safely provide quality products and services for the lifting and rigging industrial sector in Australia supporting safety and efficiency for our customers' businesses.





OUR PURPOSE, VALUES & PILLARS



At the very core is **OUR PURPOSE**. In everything we do, this is WHY we exist.



HOW we deliver is just as important as the reason why we exist. Demonstrating **OUR VALUES** forms our culture and helps to reinforce who we are.

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WHAT guides us are **OUR PILLARS.** These ensure we remain aligned in delivering **OUR PURPOSE** and doing so from a Customer lens.

OUR SUPPORT SERVICES

Bullivants offers a complete inspection, repair and testing solution to ensure your safety. Our key services cover your inspection, rigging, lifting, restraint, recovery, height safety and testing requirements.

Lifting

Bullivants only supplies the highest quality lifting equipment from internationally recognised manufacturers and suppliers to provide the best and safest solutions.

Inspections

With our NATA ISO 17020 inspections you can use your equipment knowing that it complies with Australian Standards and site requirements.

Rigging

Our strengths in engineering and knowledge across diverse industries provides you with the confidence of getting expert advice for any rigging requirement or situation.

Recovery

We recommend Dyneema® fibre for the safest vehicle and equipment recoveries. The range includes our Panther® and AmSteel® recovery strops – ultra safe and lightweight to use.

Load Restraints

Industry best practice drives the design of the Bullivants range of load restraints. Whether webbing, chain or rope, our products always meet or exceed the relevant Australian Standards.

Height Safety Installs

Bullivants can work with you to design, supply and install systems which suits your needs to achieve the safest working environment.

Testing

Bullivants is NATA accredited and has been for 60 years. NATA is the recognised accreditation body of the Australian Federal Government. NATA performs compliance audits on Bullivants to the International Standards for Inspection ISO17020 and Mechanical Testing ISO17025. Bullivants is accredited to provide lifting sets to service the offshore market, manufactured and tested to DNV (2.7.1) and AS/EN 12079. Bullivants also conducts its own internal annual audits of our inspection and testing staff, which NATA recognises.

Bullivants is long established and experienced in providing engineered lifting solutions for you. While our standard range is broad, there are often occasions when a specialised lifting application is required. To provide a first class service to you, we engage design engineers to enable us to meet your demands. Having this resource enables Bullivants to respond quickly and efficiently to enquiries and provide a complete solution.

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BULLIVANTS ELECTRONIC ASSET MANAGEMENT SYSTEM - BEAM 2.0

Using our online lifting and rigging asset management system to manage and access your equipment's status and history, keeps you informed and reduces risk. To know whether an item is in or out of service 24 hours a day is just a few clicks away.

The BEAM 2.0 upgrade continues to provide maximum operational efficiency to our customers' visual inspections and lifting gear registers. BEAM 2.0 improves the traceability of valuable assets, 24 hours a day, 7 days a week via a secure web portal. Supporting RFID and QR Code electronic tags, it removes the potential of errors that can occur with handwritten registers. It also offers a handy feature, allowing registers to upload images, which makes identification of assets that much quicker and easier.



PRODUCT, SAFETY, QUALITY & TECHNICAL LEADERSHIP

From our foundation in 1891, Bullivants has provided innovative and safe lifting, rigging and height safety products to the Australian construction, mining, defence, oil and gas industries.

More than one hundred and thirty years later, we strive to improve everything that we do in safety, quality, innovation, sustainability, and compliance. Accordingly, we are very proud to build and supply our rigging and lifting products compliant to the stringent requirements of these Australian and International quality standards:

CLICK TO FIND

OUT MORE

- ISO45001: Occupational Health & Safety Management Systems
- ISO9001: Quality Management Systems
- ISO14001: Environmental Management Systems
- · ISO17025: Competence of Testing & Calibration of Laboratories
- · ISO17020: General Criteria for Operation of Various Bodies Performing Inspection

Bullivants works very closely with local and overseas suppliers to ensure compliance with our quality systems, supply chain security, and our ethical sourcing and social compliance programs.

Bullivants is a leading member of Standards Australia and with corporate citizenship in other Australian committees; we continually provide support to our world class lifting and rigging industry.



SPECIALISED LABORATORY

As part of our ongoing commitment to ensuring that the products we sell are of the highest quality and performance, Bullivants owns and operates a NATA accredited laboratory in Shanghai.

Established in 2016, the Shanghai laboratory is accredited to ISO/IEC 17025, general requirements for the competence of testing and calibration laboratories. The laboratory conducts proof and break load testing to 1,000kN, for the release of products that will be used in Australia, in accordance with Australian and International Standards.

SAFETY & WELLBEING

With high risk activities present in providing products and services to the lifting and rigging industry, it's vital that all operational procedures are clear and safe, so our people go home healthy everyday.

Responsible behaviours and acting with integrity are fundamental to how Bullivants operates as a business. To ensure the safety of our team members and business, we have developed seven Lifesaving Rules to keep our people safe from harm while at work.

INCLUSION & DIVERSITY

We strive to create an inclusive work environment with particular attention to gender balance and the inclusion of Indigenous people. We provide opportunities for our team members to enhance their job performance and develop their careers.

Bullivants provides job specific and development training in a wide range of areas including product knowledge, technical skills, customer service, teamwork, and leadership.

SUSTAINABILITY

As part of our business strategy and consistent with the Wesfarmers Climate Policy, we are committed to reducing the environmental impact of our business activities where practicable by:

- Reducing waste, reusing and recycling. As an example, Bullivants has swapped the use of plastic buckets with a cardboard alternative that is 100% recyclable
- Proactively managing and reducing Scope
 1 and 2 greenhouse gas emissions by adopting energy
 efficiency opportunities such as swapping halogen
 and fluorescent lighting in our warehouses and offices
 for energy efficient LED lighting
- Working closely with our key suppliers and customers to identify sustainability improvements. As an example, Bullivants has replaced single-use reels with reusable steel reels in its operations

ETHICAL SOURCING & HUMAN RIGHTS

We are committed to working with our supply chain partners to ensure ethical business practices and sustainable solutions while providing the highest quality products.

Our ethical sourcing policy and business practices aim to reduce the risk of Modern Slavery in our operations and our global supply chain. We aim to build strong relationships to make a positive global and local impact.

We proactively source our products responsibly, working with our suppliers to improve their social and environmental practices. Ensuring the behaviour in our supply chain protects the brands, the wellbeing of workers and the communities of all the factories we work with.

CLICK TO LEARN MORE

Bullivants

1300 LIFTING

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SPECTION RIGGING UFTING RESTRAINT RECOVERY TESTING

INDIGENOUS ENGAGEMENT

Increasing Indigenous engagement and participation is a priority underpinning our commitment towards corporate social responsibility. Wesfarmers first developed a Reconciliation Action Plan (RAP) in 2009. Since then, it continued setting out what Wesfarmers, and in turn Bullivants, intends to do to drive towards our goal of a welcoming and inclusive workplace which reflects the diverse communities in which we operate.

Wesfarmers was recognised by Reconciliation Australia as embedding and expanding reconciliation, and in 2022 achieved the highest level Elevate RAP status. Achieving Elevate signifies that Wesfarmers is a leading advocate for reconciliation and is dedicated to making progress across the key pillars of the RAP program – respect, relationships, opportunities, and governance. Bullivants champions the same commitment to building respectful relationships with our people, customers, suppliers, and communities.

We are committed and focused on making a positive impact and contribution to improve equity in accessing opportunities for Aboriginal and Torres Strait Islander people and the broader community. Some of the ways in which we are making a positive impact on local communities includes:

- The Bullivants Scholarship Program which supports University students in achieving their academic aspirations
- Our support of the Clontarf Foundation to provide school-based traineeships for Aboriginal and Torres Strait Islander secondary students



THE CLONTARF FOUNDATION

The Clontarf Foundation exists to improve the education, discipline, life skills, self esteem, and employment prospects of Aboriginal and Torres Strait Islander young men.

For over 20 years this charitable not for profit foundation has proven to be very successful, not only in attracting young men to school and keeping them there, but also in having them embrace more disciplined, purposeful, and healthy lifestyles.

Our first Clontarf trainee, Max West, completed his 2-year traineeship in 2022 and continues to work Part Time at our Newcastle branch as a Production Technician.

The latest Clontarf Trainee, Dakota May graduated High School and his Bullivants Traineeship at the end of 2023. He is now completing an electrical apprenticeship.

"My traineeship at Bullivants was fun. I learnt a lot, working with tools and machinery and the processes in place", says Dakota. "I would recommend doing this traineeship as it will prepare you for work after school. I've enjoyed the last 2 years – it has been a great experience, and the environment is phenomenal. Everyone looks after each other and I've enjoyed interacting with my teammates."

The Clontarf Foundation arrange many activities for the trainee and Bullivants to be part of. Dakota, along with fellow Bullivants team members Mark and Daniel, entered the Clontarf Regional Basketball Carnival. Out of 8 team they played a shootout competition against other schools, finishing in 3rd place.

In 2022, Dakota won a Clontarf Employment award from Cairns State High School. The award recognised his efforts in finding employment in his senior years and how well his work is going.

During his traineeship, Dakota showed a willingness to learn new tasks. "He enjoyed being hands on with the product and was interested in the technical side of our business", says Cairns Branch Supervisor, Daniel Maggs. "He is a fantastic young man and has fitted into our team here seamlessly. We have really enjoyed the banter and learning more about him. Our team wishes Dakota the best in the future and hope that his time at Bullivants helps him with his career."



THE BULLIVANTS INDIGENOUS SCHOLARSHIP PROGRAM

Every year the Bullivants Indigenous Scholarship Program supports 2 Indigenous university students studying Engineering.

A portion of the proceeds from the sale of every Bullivants Grade 100 standard chain sling assembly supports the Bullivants Indigenous Scholarship Program.

BULLIVANTS INDIGENOUS SCHOLARSHIP PROGRAM

With the introduction of the Bullivants Indigenous Scholarship Program in 2018, Bullivants encourages and supports Indigenous tertiary students studying Engineering. This program grants up to 3 students a one year \$10,000 scholarship each.

One of our current Scholarship Recipients is proud Noongar man, Flynn Bailey. Flynn is studying a double degree in Engineering and Science at the University of Western Australia.

"I chose to study Engineering because it is a challenging, interesting, and forever-growing field that incorporates my favourite aspects of learning – Maths and Science. My degree provides access to different fields and worksites, anywhere from a mine site to the middle of the ocean."

On top of his studies, Flynn works as a Trainee at South32 giving him the opportunity for experience working in mining as a Civil Engineer and Major Projects Coordinator.



"The scholarship has taken away a huge amount of stress from my study load. I have been able to pay off some of my HECS-HELP loan and put more of my time into study."

"I would recommend applying to the scholarship if you meet the criteria as it isn't just about the monetary support. It is a special opportunity for you and is a recognition of your skills from an awesome company like Bullivants. It will take away so many financial stresses of university and you can use this to do your best. You also get the opportunity to meet the local team and start networking with professionals from the lifting and rigging industries."

"For the future, I would love to work in my field as a Civil Engineer for a few years and specialise in something. After a few years' experience, my aim is to start a business offering my expertise."

The Bullivants Indigenous Scholarship is funded through sales of Bullivants Alloy Chain Slings. A portion of all sales of this product go towards the scholarship program. We are grateful and thank all our customers for purchasing quality equipment while directly contributing to the Bullivants Indigenous Scholarship.

CLICK TO LEARN MORE



9

INNOVATIONS

Bullivants is committed to continued research and developing innovative products and services. By increasing our focus on innovation, we have improved our core services to provide you with more of what you need.

To give an example, Bullivants' ADAPTA® Adjustable HMPE Lifting Sling has recently received the 2023 Crane Industry Council of Australia Innovation Award.

With easily adjustable legs, this sling provides significant improvements in safety, productivity and reduces the risk of manual handling injuries. Developed and custom made by Bullivants, the ADAPTA® sling has less components, no metal parts and is lightweight in comparison to other sling types, significantly reducing the time to assemble your load to lift.

The ADAPTA $^{\otimes}$ is supplied with NATA certificates and complies with AS 18264.





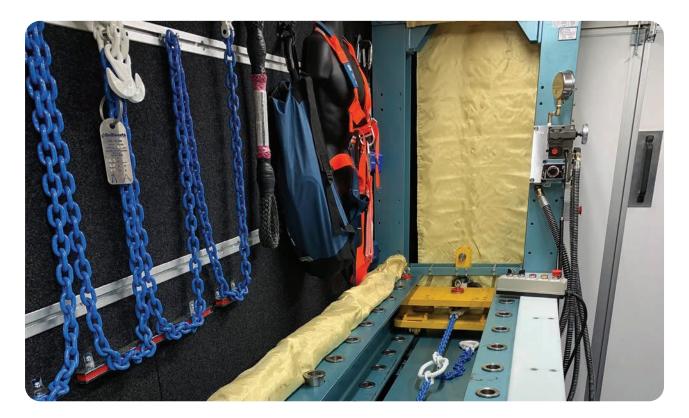


MOBILE SALES & SERVICE TRUCKS

With the introduction of our Mobile Sales and Service Trucks, we have been able to increase specific service and testing capabilities on-site. This industry first, leading innovation minimises work interruptions, eliminates transport costs and keeps customers operational.

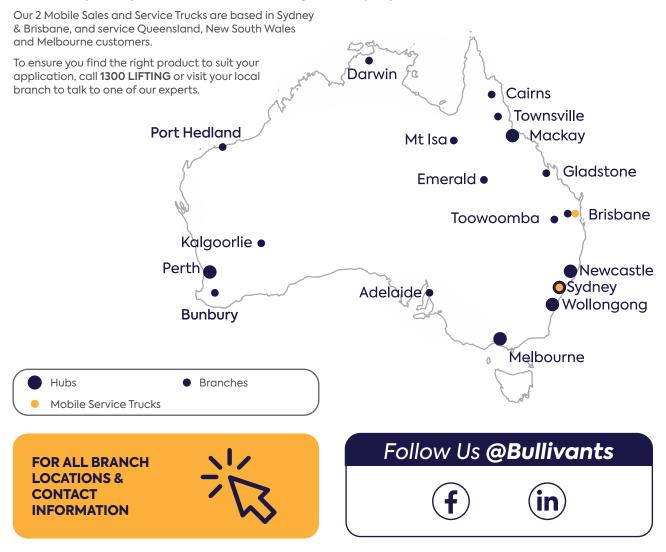
Capabilities:

- · Inspections, repairs, and testing services including wire rope end terminations
- · Horizontal and vertical, patented in-built test bed for load testing
- · On the spot manufacturing of lifting and rigging equipment to suit your requirements
- Full range of lifting and rigging equipment available for direct purchase



LOCAL SUPPORT NATIONWIDE

With specialised teams to assist you in 18 locations, we've got Australia covered. No matter which branch you visit, you can feel confident in receiving the same quality service.



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SERVICES

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Bullivants

1300 LIFTING

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SERVICES

ON SITE FIELD SERVICES

Bullivants enhances its supply of lifting and rigging gear with a unique range of specialist services. Our team of Field Service Technicians travel throughout the country to inspect, maintain, install and test products and equipment onsite. Our laboratories are NATA approved and our systems are quality assured to ISO9001. We have industry leading test equipment to comply with Australian Standards and ensure the safety of your equipment and people.

Our aim is to help our customers operate in a safe and efficient manner. The range of our services includes system or product selection based on the particular application.

Our people are highly qualified and trained to be problem solvers. Our specialisation in lifting and rigging enables us to stay up to date with safety standards and best practices in the management of heavy loads. Through our global supply network we have access to the best available products.

We further support our customers by having the most extensive distribution network. Our branches are strategically located around the country, which allows us to provide a quick turnaround of customer orders and services.

ON-SITE INSPECTION SERVICES & CAPABILITIES

Bullivants offers the convenience of on-site inspection of lifting, rigging and height safety equipment in accordance with Australian Standards. With innovative FST vehicles and Mobile Sales and Service Trucks we have the capability to perform services on site with enhanced technology equipment.

Our experienced and highly trained Field Service Technicians have the capabilities to access, inspect and repair on-site. This minimises work disruptions, eliminates transport costs and keeps you operational. They also carry a range of lifting and rigging spare parts and replacement stock which can be purchased directly, saving you delivery time and money.

Field Service	In-house	On-site FST Vehicle	On-site Mobile Truck^
NDT (Non-Destructive Testing) inc. MPI, Eddy Current	•	•	•
Dye penetrant inspection	•	•	•
Horizontal test bed	•	•	•
Crane rope inspection		٠	•
Load testing*	•	•	•
Container management services		٠	•
Test and repair of lifting and rigging equipment	•	•	•
Asset management	•	•	•
Mobile test trailer		•	•
Wire rope splicing, lubrication and repairs	•	٠	•
Wire rope end terminations	•		•
Alloy chain sling manufacturing	•		•
Equipment repairs	•	•	•
Lifting solutions	٠		
Height safety installation		•	•
Fabricated lifting product	•		
Modular spreader systems	٠		
AmSteel®-Blue – Big lift slings	٠		
Verope – High performance wire rope	•		
Training	•	•	•
Proof loading of anchor points		•	•
Reverse engineering	•		
Socketing	•	•	•
Product sales	•	•	•
* Various size test weights and load cells available			

* Various size test weights and load cells available

^ Not available in all areas

There's ZERO HARM in thinking about SAFETY





ON-SITE REPAIRS & TESTING SERVICES

Bullivants has been providing NATA accredited lifting and rigging equipment testing services nationally and offshore since 1961.

Our on-site repairs and testing service team will come to you to minimise work disruptions, eliminate transport costs and keep you operational.

Our testing and installation services are provided according to the following relevant Australian Standard certifications and accreditations:

- NATA ISO17020 for Visual Inspection
- NATA ISO17025 for Mechanical Testing
- ISO9001 Quality Management
- ISO45001 OH & S Management Systems
- ISO14001 Environment Management
- DNV Accredited Lifting Sets for Offshore Containers
- Our Field Service Technicians are NATA accredited and experienced in all aspects of on-site testing and repairs

Non-Destructive Testing (NDT) - Wire Rope



- 70 On-site Technical Service Personnel nationally
- 14 On-site Mobile Testing Units
- 18 In-house testing laboratories
- NATA accredited laboratories
- Up to 100t tensile load testing on our mobile units
- Up to 300t proof load capacity in house

Bullivants is fully equipped and qualified to complete Non-Destructive Testing (NDT) electromagnetic inspections on wire ropes. Our technicians' equipment inspects the external and internal integrity of wire rope, determining the loss of metallic area that could indicate corrosion or operational damage.

For over 35 years, Bullivants has provided wire rope Non-Destructive Testing (NDT) across Australia in accordance with wire rope Non-Destructive Testing (NDT) AS 4812.

Several statutory requirements call for NDT as part of proactive maintenance programs. Many of these are key industries where the cost of downtime can be enormous. This can be preventable with timely and accurate Non-Destructive Testing (NDT)/reporting.

We have over 130 years of wire rope experience to not just test, but also provide expert advice on the spot, to troubleshoot problems.

Magnetic Particle Inspection (MPI) and Eddy Current Testing

Magnetic Particle Inspection (MPI), also known as Magnetic Test (MT), is a Non-Destructive Test for the detection of surface and sub-surface cracks in ferrous materials. It is the economical and faster non-destructive test method used widely in mining, aerospace, locomotive, automotive, utilities and oil & gas markets.

This method involves application of a magnetic field externally or applying electric current through the material, which in turn produces a magnetic flux in the material. Simultaneously, visible ferrous particles are sprinkled or sprayed on the test surface. The presence of surface or near surface cracks in the material causes distortions in the magnetic flux and leakage of the magnetic fields at the cracks.

Magnetic Particle Inspection cannot be used for non-ferrous materials and non-magnetic ferrous materials such as austenitic stainless steels.

Eddy Current* testing is another Non-Destructive Test (NDT) method for detection of cracks and flaws on steel and conductive material. Eddy Current can detect flaws and cracks through paint or other surface coatings and doesn't require these surface coatings to be removed prior to inspection.

*Eddy Current only available in certain locations. Contact your nearest branch for more information on 1300 LIFTING.



INSTALLATION OF CRANE, WINCH, MINING AND SAFETY ROPES & FITTINGS

We are the experts in providing on-site installation, splicing, maintenance and repair of wire and fibre rope used in industrial applications. We have dedicated, qualified and experienced riggers and trades people based across Australia.

We provide the following wire rope installation services to suit a variety of applications:

- Mine shaft friction winder hoist and balance rope installations
- · Mine shaft double drum rope installations
- Mine shaft guide rope installations
- · Aerial ropeways for bulk material haulage
- Cable belt conveyors
- Accumulator towers
- Mooring lines
- Safety lines

Bullivants has the required in-house equipment such as mobile winch packages (to 20t winch pull capacity), diversion sheave blocks, take up winches and associated rigging equipment required for this type of work.

We also service mine winder rope fittings, Tested and Certified to AS 3637. Hot metal socketing (white metal and zinc) and resin socketing available upon request on or off site in accordance with AS 2759.

Bullivants has the proven capability to supply and install height safety systems, ladders, rails and walkways.

ON-SITE MEASUREMENT/REVERSE ENGINEERING

Do you have existing lifting equipment on-site without any documents or certifications, which state what the equipment is capable of?

Bullivants has a team of experts that can visit your site to perform visual inspections of your equipment and on-site measurements. Our Engineers specialise in design, reverse engineering and design verification of Fabricated Lifting items.

Bullivants can provide drawings, documentation, certification and assist in the registration of your plant or equipment with Workcover or Worksafe.



TECHNICAL SUPPORT

Bullivants has been providing technical expertise in lifting, rigging and height safety for over 130 years. Our customer service representatives, field service technicians and site facilitators have extensive knowledge, understanding and training in customer operations, procedures, and safety standards. Dealing with everyone from local businesses to major multinationals our Customer First Philosophy ensures we provide the best possible customer experience.

We are your most technically capable and skilled partner in the areas of wire rope, lifting, rigging and height safety equipment to ensure that our customers receive the highest quality products and service at all times.

For more information on Bullivants' services please contact your nearest branch on 1300 LIFTING.

BULLIVANTS FIELD SERVICE TECHNICIAN ACCREDITATION CARD

To ensure the highest quality service is applied, our Field Service Technicians receive training in customer operations, procedures, and safety standards. Each of our Technical team carries an official accreditation card showing their level of competency.

There are four levels and we will always match our person to the type of work required. This guarantees you have the right person for your job and provides ease of mind, knowing that everything they do complies with Australian Standards and best practice requirements.

How do you know the person ensuring the safety of lifting equipment is competent?

How do you know your inspector understands the Australian Standards requirements?

How can you be sure the person inspecting your equipment is providing a safe workplace?

Simply ask to see their FST Accreditation Card!

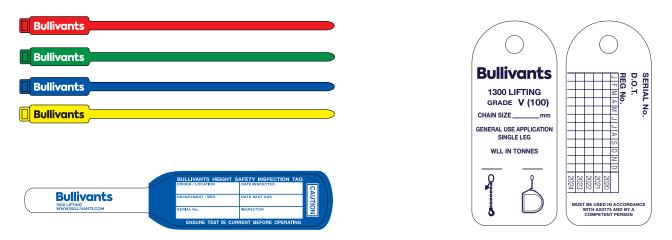


SERVICES

INSPECTION PROCESS

Each inspection interval by a Bullivants FST will include:

- A completed site Service Agreement in conjunction with your company representative to agree on the scope of work to be completed. A site Job Step Analysis (JSA) form must also be completed before our FST's can commence work.
- Tag inspections to ensure all items are colour coded with the agreed colour inspection tag for a nominated period and at the end of this period, the colour code will be replaced with an alternative colour. Items that are tagged out of service or need repair are listed and agreed how they will be managed with the customer.
- Replacement or repaired equipment is supplied with the current code tag and test certificates and are pre-loaded to BEAM 2.0 (Bullivants Electronic Asset Management system)



• Colour coded ID signs are provided and positioned in an agreed visible area on the customer's site and are updated during each inspection

	NEXT INSPECTION DUE	Bullivants SITE APPROVAL COLOUR Round Slingsto Height Safetyto Lifting Gearto	is:
	se your supervisor immediately. www.bullivants.com	All Lifting Gear must have the curre If not, tag out and advise yo 1300 LIFTING BLUE	nt colour tag visible for use on site.
MARCH	JUNE	SEPTEMBER	DECEMBER

On the completion of each inspection, Bullivants provides a comprehensive listing of all assets registered, both electronically via BEAM and in hard copy format which include the following:

- Location
- Unique serial/ID number for all equipment
- Description of item
- Working Load Limit (WLL)
- Condition of item
- Record of items not found

- Record of items damaged
- Record of items required to be taken out of service per location
- Previous inspection dates
- Withdrawal date (if applicable)
- Action taken (if any)



CLICK TO ACCESS YOUR REGISTER

BULLIVANTS ELECTRONIC ASSET MANAGEMENT – BEAM 2.0

Bullivants' BEAM 2.0 system is designed to provide maximum operational efficiency and access to data when dealing with your on-site inspections and lifting gear registers.

With new features delivered in the BEAM 2.0 upgrade, you can be sure your equipment will comply with the strict standards and site requirements.

It brings asset management into your hands and offers many benefits:

- Support for RFID & QR Code electronic tags, providing improved traceability & identification of your valuable assets
- 24 hour/7 day access to your registers via a secure web portal
- Asset templates are now available to provide control over how assets are created in the system. Templates will standardise the wording used in descriptions and ensure all appropriate attributes are filled
- Removal of potential errors which can occur with handwritten registers
- Ability to attach multiple attachment files to an asset. Various File formats supported. Excel, word, pdf & jpeg.
- · Export asset details including any attachments
- Comprehensive asset search filter options
- Removal of condemned assets is quicker, resulting in a faster replacement response ensuring compliance is maintained at all times
- Improved reporting options, export search results to pdf, excel. formal inspection reports

This technology allows for your register to be updated live prior to our Field Service Technician leaving the site with the electronic database current and accessible. This also allows items to be identified as passed, failed or unable to be found so that decisions may be made instantly rather than after the fact.

Using the BEAM 2.0 system we can provide a complete VISUAL INSPECTION service to the relevant Australian Standards requirements for the following:

- Safety Harnesses
- Lanyards
- Lifting Beams
- Load Restraint Equipment
- Flat Web Slings
- Concrete Panel Fittings
- Wire Rope Slings
- Crane Ropes

- Alloy Chain Slings
- Man-boxes
- Endless/Round Slings
- Height Safety Systems
- Shackles
- Rescue Equipment
- Ladders
- Rigging Blocks and Fibre Rope and Hoisting Equipment (Chain Blocks and Lever Blocks)

HEIGHT SAFETY & INSTALLED SYSTEMS

YOUR RESPONSIBILITIES

The law in Australia states that the person in control of premises is responsible for:

• all hazards

01

• assessing and eliminating or controlling risks.

The various individual state regulations specify that the controller(s) of a premises must ensure that safe access is provided to all parts of a place of work to which a person may require access and from which a person may fall. This responsibility covers employees, visitors and contractors.

If an area or task is identified as being a risk, Bullivants can work with you and your people to design, supply and install a system which suits your needs to achieve the safest working environment.

OUR TEAM

Bullivants' National Height Safety Team has many years of experience in installing, designing and inspecting Working at Heights and Safety Solutions that comply with current state regulations and Australian Standards.

Our team consists of engineers, consultants and certified installers who specialise in providing our clients with safe working at heights solutions.

Our national coverage allows us to offer installation and inspection services nationwide.

We have a wide cross-section of specialised installation equipment to ensure all installations are completed strictly to manufacturer's specification and technical requirements.

Our team is dedicated to helping our clients achieve a safe work environment and ensure compliance to regulations, codes of practice and Australian Standards.

OUR WORKING AT HEIGHTS & SAFETY SOLUTION CAPABILITY INVOLVES PROVIDING:

1. Risk Assessment

Before the installation a complete audit and risk assessment is carried out to determine the risks and associated hazards and the best control measures to implement.

When assessing each building structure or access issue, hazard identification should be carried out to determine the potential risk of injury with solutions being selected or prioritised within the 'Hierarchy of Control'.

2. System Design

Each system is designed in accordance with applicable Australian Standards, state regulations, compliance codes and specific manufacturer's guidelines. A major part of the solution involves engineering design to ensure the system and what it is attached to, meet the load requirements.

3. Installation

We have a national installation team of approved installers and a wide cross-section of specialised installation equipment to ensure all installations are completed in accordance to manufacturer's specification and technical requirements.

These include horizontal safety lines and rails, anchor points, vertical ladder systems, roof walkway systems and guard rails.

4. Certification

Bullivants personnel are dedicated to helping you ensure compliance to regulations, codes of practice and Australian Standards.

5. Training

As part of the Bullivants capabilities, we offer training on safe use of our systems. This is training on the safe care, use and maintenance of the system installed.

6. Inspection

Anchor points, static lines, rails and PPE used for fall protection are required to be inspected on a regular scheduled periodic basis.

Bullivants provides an inspection and testing service to ensure your system is in accordance with manufacturer's specifications and Australian Standards. This information is entered into the BEAM 2.0 system which can be easily accessed directly by yourself.

All inspection and testing must be carried out by an approved competent person. Please refer to AS/NZS 1891.4 (Section 9. Table 9.1) for further details.

7. Rescue Equipment

Bullivants has a wide range of products to suit confined space, rescue and recovery applications. These include tripods, davit systems, retractable lifelines, pulley systems, rescue kits and bosun's chairs.

8. Personal Fall Protection

Bullivants' Fall Protection range consists of fall arrestors, temporary lifelines, height safety kits, harnesses & lanyards and roofers kits to suit any industry or safety requirement for your application. Contact your nearest Bullivants branch for expert advice and recommendations on 1300 LIFTING.

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HEIGHT SAFETY INSPECTIONS

Anchor points, static lines, rails and Personal Protective Equipment (PPE) used for fall protection are required to be inspected on a regular scheduled periodic basis. This inspection and testing must be carried out by a recognised competent person. Please refer to AS/NZS 1891.4 (Section 9. Table 9.1) for further details.

Bullivants provides an inspection and testing service to ensure your system is in accordance with manufacturer's specifications and Australian Standards. This information is entered into the Bullivants Electronic Asset Management system and can be accessed by our clients via the secure web portal.

Height Safety Systems are generally required to be inspected/tested annually with re-certification required 10 years after the installation date.

INSPECTION FREQUENCY

- · Equipment should be inspected by the user before and after each use
- Detailed inspections should be performed by a competent person every six months for webbing products and Self Retracting Lifelines (SRL's)
- If there is ever any sign of an unsafe condition or if the equipment has been used to arrest a fall it should be immediately withdrawn from service and destroyed, or sent to an authorised service centre for recertification. Inspections should be recorded in a centralised logbook that includes the serial number, date of purchase, dates of inspection, servicing performed and authorised signatures

WHEN SHOULD EQUIPMENT BE REMOVED FROM SERVICE?

- When exceeding the six monthly service and/or periodical inspection is due
- It has been involved in a fall
- Labels have been removed, are missing or illegible
- Excessive abrasive wear (furry or frayed surfaces) has occurred
- Broken fibres, tears, cuts, snags and splinters are present
- · Weld burns are present
- Deterioration or stretching has occurred

INSPECTION GUIDELINES

Hardware

- Inspect hardware (including snap hooks, D-rings and buckles) for damage
- Check for distortion, corrosion, burns, cracks and worn parts
- Inspect mechanical devices for correct assembly and operation - Such as SRL's should retract and lock up

Webbing

- Inspect webbing for frays, cuts or broken fibres
- Check for tears, abrasion, mould, burns, heavy soiling or discolouration
- Inspect stitching for damage
- Inspect impact indicators (if present)

Wire and Synthetic Ropes

- Inspect for cuts, kinks, broken wires and fibres, corrosion, chemical contact and severely abraded areas
- Inspect impact indicators (if present)

- Loss of resilience, discolouration or visible damage is experienced
- Parts and mechanisms are not moving freely or are corroded
- When there is reduction in cross-section of rope area or webbina
- There is excessive contamination not removed by approved cleaning methods
- It is more than 10 years old for AS/NZS certified products from date of manufacture

Labelling

- All labels must be present and fully legible
- If inspection or operation reveals a defective condition, remove the product from service and destroy it or contact an authorised service centre for repair

Maintenance and Storage

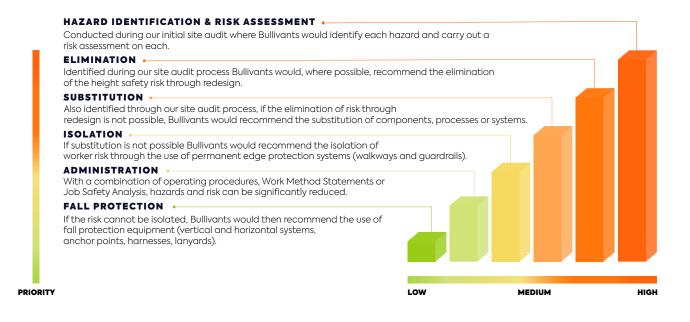
- Most webbing and hardware items can be washed with mild soap and detergent, water and a rag
- Excess grease, dirt and grime should be removed
- Equipment should be left to drip dry out of direct sunlight
- Some hardware, if stiff or sticking can be lubricated - However, any hardware that comes in contact with webbing should be free from grease or solvent
- Additional servicing and maintenance should be performed only by factory authorised service centres
- Equipment should be stored in a cool, dry and clean environment that is out of direct sunlight

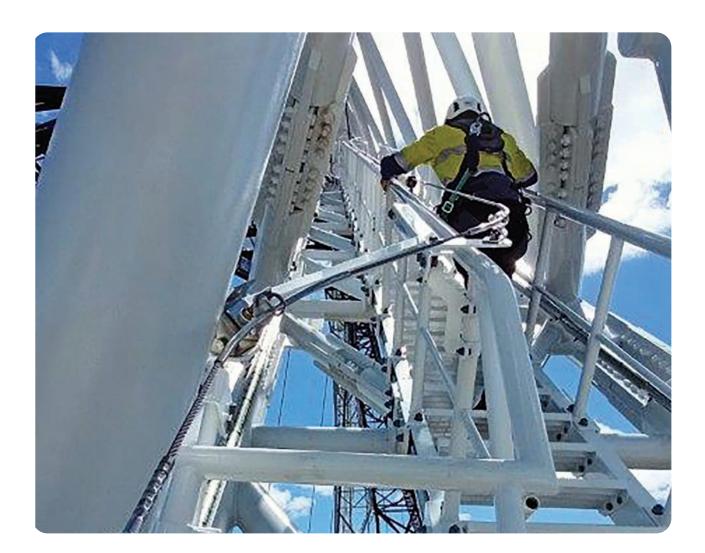
Refer to manufacturer's instructions for complete details on inspection, storage and maintenance.

SERVICES

TRAINING

As part of the Bullivants Working at Heights and Safety Solutions, we offer non-accredited training on safe use of our systems. This is basic training on the safe care, use and maintenance of the system installed. Through affiliation with a registered training organisation, we are able to facilitate accredited training for work at heights.





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BULLIVANTS TRAINING COURSES

Bullivants offers a range of accredited and non-accredited training courses to gain knowledge and understanding of product characteristics, including their capabilities and limitations.

Our training can support your business and team by providing a range of nationally accredited courses relating to lifting, rigging and height safety.

These courses not only provide theory but practical knowledge of the highest levels. Our training courses are held at dedicated Bullivants training locations across Australia as well as customers' premises eliminating the need for your team to be away from site for extended periods.

Accredited Training courses:

- RIIHAN203E Conduct Lifting Operations Designed for students required to undertake lifting tasks in all surface environments
- RIIUND207E Conduct Underground Lifting Operations

 Designed for students required to undertake lifting tasks in underground environments
- RIIHAN305D Operate a Gantry or Overhead Crane

 Designed for students required to operate bridge
 and gantry cranes
- RIIWHS204E Working Safely at Height Designed for students required to undertake working at heights tasks in a variety of situations, on and around various structures and in differing work environments including working near unprotected edges or slopes
- RIIHAN208E Perform Dogging Designed for students required to perform dogging, including planning for dogging, preparing dogging equipment and moving loads

Non-Accredited Training courses:

- Slinging Awareness
- Recovery of Mobile Equipment
- Wire Rope Use and CareLoad Restraint

WIRE ROPE, STRAND & FITTINGS

HIGH PERFORMANCE WIRE ROPE	34	SUPERFLEX ROPE	46
	39	STEEL FLAT WOVEN SLINGS	47
GENERAL PURPOSE ROPE	42	WIRE ROPE – SLINGS	48
SMALL GENERAL PURPOSE WIRE ROPES	44	WIRE ROPE FITTINGS	48
STAINLESS STEEL WIRE ROPE	45	WIRE ROPE – FERRULES	50





The man

CHOOSING THE RIGHT WIRE ROPE, STRAND & FITTINGS

Our range includes high performance wire ropes with plastic impregnated core suited for the tough Australian conditions.

A wire rope is a combination of wires and strands in a helical formation around a central core. The main components of wire rope are the core and the outside strands.

The direction and the arrangement of the strands and how they are laid relative to the direction of the rope imparts special characteristics to the performance of the wire rope for various applications.

MAIN COMPONENTS OF WIRE ROPE

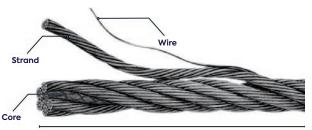
The main components of wire rope are the wire, strand and core.

Core: A rope core serves as a foundation for the strands, it keeps the rope round and the strands properly positioned during operation. The choice of core will have an effect upon the rope's performance.

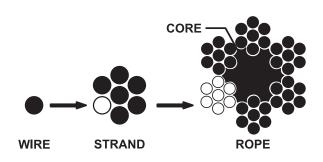
Wires: The wires are the building blocks of wire ropes and are made up of high carbon steel.

Strand: Each individual wire is arranged around a central wire to form a wire strand.

Wire Rope: Formed with multiple strands around a central core to make a wire rope.

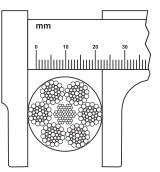


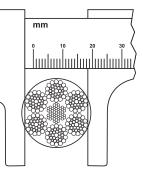
Wire Rope



SIZE

Ropes are referred to by the diameter. The correct way to measure wire rope is shown below:





CORRECT METHOD

INCORRECT METHOD

In this example, each individual wire is arranged around a central wire to form a 7-wire strand. Six of these strands are formed around a central core to make a wire rope. The rope is specified at 6X7 (6/1) i.e. six strands of seven wires.



KEY WIRE ROPE TYPES

Depending on the wire and strand arrangement, wire ropes have been classified into two main groups:

Standard Wire Ropes

Common Constructions: 7X7, 6X19, 7X19, 6X19s, 6X25, 6X36, 6X41, 8X19, 8X25, 8X26, 8X36

Rotation Resistant Wire Ropes (Also known as Non Rotating Ropes)

Common Constructions: 18X7, 19X7, 32X7, 35X7, 35X7C

TENSILE STRENGTH

The Minimum Breaking Force (MBF) of a wire rope is primarily determined by the tensile grade of the component wires. Additionally, as a general rule for the same diameter, the higher the tensile strength the less flexible the wire rope.

Bullivants stock a wide range of different grades of wire rope between the tensile ranges of 1570N/mm² to 2250N/mm².

CONSTRUCTION

The actual range of wire rope constructions is wide and varied due to many different applications.

In general, a large number of small size wires and strands produce a flexible rope with good resistance to bending fatigue. These ropes are ideal for 'running' or moving ropes such as winches and hoist type applications when the wire ropes run through sheaves. Examples of this type would be 6X41 or 8X36.

A fewer number of thicker wires and strands produce a less flexible rope with good resistance to abrasion (wear) and corrosion. These are ideal for scraper, stays and static type applications. The rope construction is also important for tensile load (static, live or shock) abrasive wear, crushing, corrosion and rotation. Examples of this type would be 6X19s (9/9/1) or 6X7.

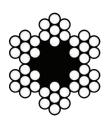
CORE

A number of core types are available and each gives specified properties to the rope.

THE FOUR MAIN TYPES OF CORE ARE:

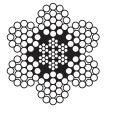
Fibre Core (FC)

Made of natural fibre (Sisal) or synthetic fibre (Polypropylene)





A wire rope typically of 7X7 construction



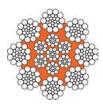
Wire Strand Core (WSC)

The core and the outer strands have the same construction



Plastic Impregnated Wire Rope Core

A layer of plastic exists between the steel core and outer strands



The benefits of using a Plastic Impregnated wire rope include:

- Plastic Impregnated Wire Rope Core improves the working life of your wire rope
- The plastic layer acts as a protective sheath for the core providing form stability and reduces metal to metal contact between the core and outer strands

STRANDS

02

The individual component wires are laid helically to form strands in various configurations.

Standard Strand

These have crossovers between component wire layers and while they have greater flexibility, they also lead to internal friction between individual wires which will ultimately result in more wear and shorter lifespan.

Parallel Lay Strand

These are known as Seale, Warrington Seale and Filler constructions and avoid crossovers between various layers. Parallel Lay Strands can be compacted during manufacture. The round strands are deformed heavily during compacting to end up with a higher metallic cross section when compared with a regular wire rope.

Lay Direction for Strands

This refers to the way that the wires are laid out in the strands and in the wire rope. This term is used in two main types:

- Regular lay rope offers better structural stability and easier identification of broken wires.
- Langs lay rope have better contact in the groove of the sheave and superior resistance to wear. This provides higher lifetime in case of high dead loads.

For best performance the following is recommended:

- Single Layer Drum Regular Lay Rope
- Multi Layer Drum Langs Lay Rope

Direction of the strands relative to the rope

- Regular Lay Strand lay and rope lay in opposite direction
- Langs Lay Strand lay and rope lay in same direction

Direction of the rope

- Right Hand lay (Z Lay)
- Left Hand lay (S Lay)





Figure 1 Regular Lay left hand (zS)

Figure 2 Regular Lay l right hand (sZ)

Figure 3 F Langs Lay La left hand rig (sS)

Figure 4 Langs Lay right hand (zZ)

LUBRICATION

Lubrication is a very important part of the wire rope performance. A properly and regularly lubricated wire rope can increase the operating life of a wire rope by up to 50%.

Benefits

- To reduce the internal friction between the wire rope components
- Corrosion protection

Types

Petroleum Based

These penetrate into the core and lubricate the individual strands. Offer excellent water and corrosion resistance. Easy to inspect as these are translucent. Their fluid property helps best to remove the external contaminants. However can drip off at higher temperatures.

Wax Based (Grease)

These seal the outside of the rope and reduce surface corrosion and fretting. Offer good surface protection but do not saturate the core. These lubes have to be applied under pressure to reach the core.

Bitumenous

Very hard and dark and makes rope inspection difficult. Adhere well for extended storage but crack and become brittle at lower temperatures.

IMPORTANT FACTORS TO CONSIDER

With a wide variety of applications from a single lifting sling to wire ropes that support oil rigs, wire ropes come in different shapes and sizes. No single wire rope can perform all jobs perfectly so each application is a compromise between the various factors. The basic factors to consider while choosing the right rope are:

Strength

All wire ropes supplied by Bullivants come with the appropriate manufacturer's certificates confirming the Minimum Breaking Force (MBF). The following factors should be considered:

- The Working Load Limit (WLL) required for the job with the appropriate design factors as per the Australian Standards AS 2759, AS 1418, AS 1735 or AS 1666.1
- Efficiency of terminal rope attachments: In most applications wire ropes are used with appropriate attachments. The strength of the ropes should be factored

Bending Fatigue Resistance

Metal fatigue sets in as wire rope is subject to frequent bending. Factors to consider are:

- Bending fatigue sets in as the Wire Rope is subjected to frequent bending and other external factors.
- Wire Rope performance and longevity can be improved by improving the Bending Fatigue Resistance

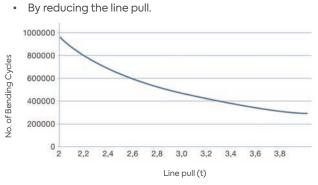
WHAT IS D/d RATIO?

The D/d ratio is the ratio of the diameter around which a wire rope is bent divided by the diameter of the wire rope.

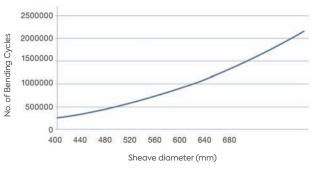
Example:

If a 20mm diameter wire rope is bent around a 400mm diameter sheave then the D/d ratio is 20:1 (20mm x 20 = 400mm).

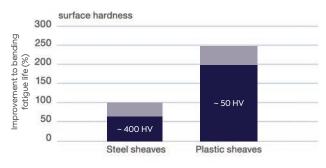
How to improve the bending fatigue of a rope?



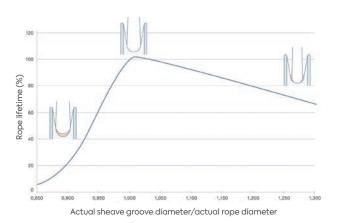
• By increasing the contact area between the steel wire rope and the sheave. i.e. increasing the sheave diameter.



• Plastic sheaves increase the Bending Fatigue significantly in comparison to steel sheaves.



• The groove diameter of the sheave should not be too big or too small. The relation between the bending fatigue and the groove diameter is as below:



Recommended D/d Value for Optimal Performance

	D/d RATIO					
CONSTRUCTION	RECOMMENDED SHEAVE DIAMETER	MINIMUM SHEAVE DIAMETER				
(6X7)/(7X7)	64	42				
6X19s (9/9/1)	48	32				
6X25F	39	26				
6X36	33	22				
6X41	30	20				
6X52	27	18				
8X19s (9/9/1)	39	26				
18X7	52	34				
19X7	52	34				
Verotop P	23	20				
Verotop	23	20				
Verotop E	23	20				
Verotop S	23	20				
Veropro 8	21	20				
Veropower 8	21	20				

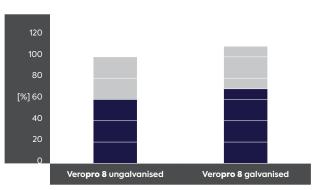
Example: For a 20mm Veropro 8 recommended sheave diameter = 420mm (21 x 20mm)

Fill Factor of Various Wire Ropes

ROPE CONSTRUCTION	FILL FACTOR
18X7	0.598
19X7	0.615
6X36 + IWRC	0.609
6X25 (6X19F) + IWRC	0.580
Powerform 6 (6X36 Compacted)	0.675
Powerform 8 (8X26 Compacted)	0.655
Hyflex 8 (8X26)	0.598
Hyflex 35 (35X7)	0.635
Verotop	0.738
Verotop E	0.700
Verotop P	0.730
Verotop S	0.742
Veropro 8	0.666
Veropower 8	0.747
Verotech 10	0.732
Verostar 8	0.610

WIRE ROPE, STRAND & FITTINGS

Galvanised ropes have a slightly better bending fatigue when compared to ungalvanised ropes.

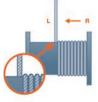


Rope can be wound on the drum from:

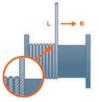
- Above (Overwind).
- Below (Underwind).
- In general Right Hand Lay Ropes require a Left Lay Drum and Left Hand Ropes require a Right Lay Drum.

Case A: Unwinding direction is from right to left.

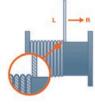
Left hand lay drums require right hand lay ropes.



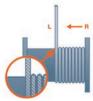
Case B: Overwind: winding direction is from left to right. Left hand lay drums require right hand lay ropes.



Case C: Unwinding direction is from left to right. Right hand lay drums require left hand lay ropes.



Case D: Overwind: winding direction is from right to left. Right hand lay drums require left hand lay ropes.



CRUSHING RESISTANCE

This is the ability of a rope to withstand external pressures.

- Steel Core Ropes are more crush resistant than fibre core ropes
- Regular Lay Ropes are more crush resistant than Langs
 Lay ropes

ABRASION RESISTANCE

This is the wearing of the external wires in the wire rope due to external friction.

- Abrasion resistance can be improved by increasing the contact area between the outer wires and the sheave
- Compacted ropes have a better abrasion resistance than round strand ropes

ROTATION RESISTANCE

Torque is naturally induced in a wire rope as the wires try to straighten out, especially when the load is suspended from heights. Rotation resistant ropes are used in such applications.

CARE & USE

Breaking in

A single wire rope can be compared to a machine composed of a large number of moving parts. As such it should be broken in as soon as it is installed. This can be done by loading it very lightly for a number of cycles and then gradually increasing the load, to enable both wires and strands to 'bed down' into the working positions with the load distributed as uniformly as possible.

The use of swivels should be avoided whenever possible. All ropes should be reeled onto winch drums as tightly and uniformly as possible during the initial installation.

Lubrication

Lubricant is impregnated into the rope during manufacture, however this is generally not sufficient to last the life of the rope. Additional lubrication should be done during service. The frequency of lubrication in the field is determined by the operating conditions of the rope e.g. high speed heavy duty operation calls for more frequent lubrication, as do wet and/or corrosive conditions.

Refer to the manufacturer for guidance on what lubricant to use depending on the application and environment.

WHY INSPECTION IS IMPORTANT

Rope deterioration becomes noticeable through the presence of broken wires, surface wear, corrosion and wire or strand distortion in diameter and increasing the lay length. Deterioration can be detected by the use of non-destructive testing techniques. Wire ropes should be periodically inspected for signs of deterioration. At Bullivants our team of Field Service Technicians are qualified to carry out inspections of your wire rope and lifting equipment to ensure compliance to standards, allowing you the comfort of knowing that you are working safely.

02

WIRE ROPE TERMS

Minimum Breaking Force (MBF)

The minimum breaking force (minimum breaking load), in kilonewtons is the lowest breaking strain of the rope when tested to destruction.

Diameter

The measurement across the centre line of the circle circumscribing the outer wires of a strand or the outer strands of rope.

Design Factor

Term applied to the required ratios of rope breaking force to total rope force due to load. Normally set by statutory bodies, e.g. mining departments, navigation departments, lifts and scaffolding departments.

Working Load Limit (WLL)

The WLL is the MAXIMUM safe load that a rope can carry in a particular application. When calculating a Working Load Limit always base any calculation from the minimum breaking force, not the actual breaking force. This can vary depending on the type of rope, construction and size. The recommended minimum design factors for steel wire ropes under general conditions are as per AS 2759.

Ropes that are used on appliances complying with any of the parts of the AS 1418 or AS 1735 series of standards shall be subject to design factors specified by those standards. AS 1666 series of standard specifies the design factors for wire rope used in wire rope slings.

Design factors less than the above may be used in particular applications where specified by the manufacturer or an engineering team during an engineered lift.

Regulatory authorities or other Standards may require other design factors.



SPECIALISED WIRE ROPE SERVICES

As one of the largest distributors of Wire Rope, Bullivants understands our customers' unique requirements for wire rope and wire rope fittings, for their equipment. Bullivants is the exclusive distributor of Verope® in Australia. Verope® are approved OEM suppliers to major Crane, Foundation Equipment and Drill Rig manufacturers. With Drill Rigs, Piling Rigs, and Pick & Carry Cranes in operation across our cities, suburbs, and commercial areas nationally, Bullivants provides a complete solution for the Lifting and Rigging industry.

Specialised Wire Rope Services:

- Customer specific solutions
- Technical expertise and advice
- Wire rope inspections and service
- Supply, cutting, re-roping and installation

- Wire rope replacement
- National availability
- NATA certification

FOUNDATION EQUIPMENT

- Bullivants works closely with OEM's and large fleet owners of foundation equipment
- Verope[®] work globally with the major OEM of Foundation drilling equipment
- Bullivants has access to the design parameters of major OEM equipment
- Bullivants stocks the main hoist, auxiliary hoist and crowd winch assemblies for major Foundation equipment

DRILLING RIGS

- Bullivants is a large supplier of major OEM's and Drilling Contractors across Australia
- Pull Down, Pull Back and Hoist Rope Assemblies of major OEM models are readily available
- Our unique advantage of a national footprint offers efficient and reliable services with access to critical ropes in your required time frame

PICK & CARRY CRANES

- This market sector constitutes 50% of the number of cranes in the Australian Mobile Crane market
- Bullivants proudly works with the leading OEM's in this market
- Bullivants has developed 100% compatible replacement hoist ropes for the most popular Pick and Carry Cranes
- Stock is readily available in Bullivants hub locations nationally







With 18 branches nationally, Bullivants is proud to work with the leading OEM's to provide our customers with fast turnaround and quality workmanship.

Contact your nearest branch to speak with our Wire Rope experts.



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METHOD OF		DIRECT CHOKE HITCH		КЕНІТСН	BASKET HITCH			DIRECT LOADED		CHOKE HITCH ROUND LOAD			
LOADINGS	SLING	LOADI	D Round Loaded	Rectangle Loaded		Round	Load		DIRECTLOADED			Single Wrap	Double Wrap
Included A	Angle	-	-	-	0°	60°	90°	120°	0° to 60°	90°	120°	0° to 45°	0° to 60°
Nom. Dia. (mm)	MBF (kN)	<u></u> לא											
						wo	RKING LC		TS (TONNES)			
8	28.2	0.55	0.41	0.27	1.11	0.96	0.78	0.55	0.96	0.78	0.55	0	72
9	35.6	0.70	0.52	0.35	1.40	1.21	0.99	0.70	1.21	0.99	0.70	0	.91
10	44.0	0.86	0.65	0.43	1.73	1.50	1.22	0.86	1.50	1.22	1.86	1.	13
11	53.2	1.05	0.78	0.52	2.10	1.81	1.48	1.05	1.81	1.48	1.05	1.	36
12	63.3	9 1.23	0.92	0.61	2.47	2.14	1.74	1.23	2.14	1.74	1.23	1.	61
13	74.3	9 0 1.23 1.47 1.70	1.10	0.73	2.94	2.54	2.07	1.47	2.54	2.07	1.47	1.	91
14	86.2		1.27	0.85	3.40	2.94	2.40	1.70	2.94	2.40	1.70	2	21
16	113	9 2.22 9 2.80 0 2.80 3.48	1.67	1.11	4.45	3.85	3.14	2.22	3.85	3.14	2.22	2.	89
18	143	ຍັ 2.80	2.10	1.40	5.61	4.85	3.95	2.80	4.85	3.95	2.80	3.	65
20	176	<u>3.48</u>	2.61	1.74	6.97	6.03	4.91	3.48	6.03	4.91	3.48	4.	53
22	213	4.20	3.15	2.10	8.40	7.27	5.92	4.20	7.27	5.92	4.20	5.	46
24	253	5.01	3.76	2.50	10.03	8.67	7.07	5.01	8.67	7.07	5.01	6.	52
26	297	5.88	4.41	2.94	11.77	10.18	8.30	5.88	10.18	8.30	5.88	7.	65
28	345	6.81	5.11	3.40	13.63	11.79	9.61	6.81	11.79	9.61	6.81	8.	86
32	450	8.90	6.68	4.45	17.81	15.41	12.56	8.90	15.41	12.56	8.90	11	58

Wire Rope Slings - Single, Two, Three & Four Leg with Ferrule Secured Eyes,
using Galvanised or Black Wire Rope in accordance with AS 1666.1

METHOD OF LOADING SLING				сно		BASKET HITCH		DIRECT LOADED		CHOKE HITCH ROUND LOAD				
				Round Loaded	Rectangle Loaded		Round	Load					Single Wrap	Double Wrap
Included A	Angle		-	-	-	0°	60°	90°	120°	0° to 60°	90°	120°	0° to 45°	0° to 60°
Nom. Dia. (mm)	MBF (kN)							à			y y			
							WORK	ING LOA	D LIMITS	(TONNES)				
8	40.2		0.78	0.58	0.39	1.56	1.35	1.10	0.78	1.35	1.10	0.78	1.	01
9	51.1		0.99	0.74	0.49	1.98	1.71	1.40	0.99	1.71	1.40	0.99	1.:	29
10	63.1		1.22	0.92	0.61	2.40	2.10	1.72	1.22	2.10	1.72	1.22	1.	59
11	76.3		1.48	1.11	0.74	3.00	2.60	2.10	1.48	2.60	2.10	1.48	1.9	92
12	90.8		1.76	1.32	0.88	3.50	3.00	2.50	1.76	3.00	2.50	1.76	2.	30
13	107		2.10	1.55	1.04	4.10	3.60	2.90	2.10	3.60	2.90	2.10	2.	70
14	124		2.40	1.80	1.20	4.80	4.20	3.40	2.40	4.20	3.40	2.40	3.	10
16	161	ē	3.10	2.30	1.56	6.20	5.40	4.40	3.10	5.40	4.40	3.10	4.	10
18	204	ပိ	4.00	3.00	1.98	7.90	6.80	5.60	4.00	6.80	5.60	4.00	5.	10
20	252	ð	4.90	3.70	2.40	9.80	8.40	6.90	4.90	8.40	6.90	4.90	6.	30
22	305	ire F	5.90	4.40	3.00	11.80	10.20	8.30	5.90	10.20	8.30	5.90	7.	70
24	363	٩	7.00	5.30	3.50	14.10	12.20	9.90	7.00	12.20	9.90	7.00	9.	10
26	426	rad	8.30	6.20	4.10	16.50	14.30	11.60	8.30	14.30	11.60	8.30	10	.70
28	494	00	9.60	7.20	4.80	19.10	16.60	13.50	9.60	16.60	13.50	9.60	12.	40
32	646	1	12.50	9.40	6.30	25.00	22.00	17.60	12.50	22.00	17.60	12.50	16	.30
36	817		15.80	11.90	7.90	32.00	27.00	22.00	15.80	27.00	22.00	15.80	21.	00
40	1010		19.60	14.70	9.80	39.00	34.00	28.00	19.60	34.00	28.00	19.60	25	.00
44	1220		24.00	17.70	11.80	47.00	41.00	33.00	24.00	41.00	33.00	24.00	31.	00
48	1450		28.00	21.00	14.00	56.00	49.00	40.00	28.00	49.00	40.00	28.00	37.	00
52	1710		33.00	25.00	16.60	66.00	57.00	47.00	33.00	57.00	47.00	33.00	43	.00
56	1980		38.00	29.00	19.20	77.00	66.00	54.00	38.00	66.00	54.00	38.00	50	.00
60	2270		44.00	33.00	22.00	88.00	76.00	62.00	44.00	76.00	62.00	44.00	57.	00

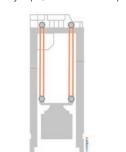
WIRE ROPE, STRAND & FITTINGS

HIGH PERFORMANCE WIRE ROPE

Veropro 8

- 8-Stranded compact rope with plastic impregnated core
- Non rotational resistant rope
- Stable rope with excellent bending fatigue
- Excellent resistance to crushing and abrasion
- Excellent spooling behaviour on multi layer drum
- Cannot be used with a swivel
- Ideal for hoist rope, luffing rope, trolley rope, crowd winch rope, crowd rope and grab rope
- Complies with AS 3569





Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
14	176.7	RHOL	1960	W0140NADA
16	230.7	RHOL	1960	W0160NA3A
18	292	RHOL	1960	W0180NA3A
18	292	LHOL	1960	W0180NA3C
19	325.4	RHOL	1960	W0190NA3A
20	360.5	RHOL	1960	W0200NA3A
22	436.2	RHOL	1960	W0220NA3A
22	436.2	LHOL	1960	W0220NA3C
24	519.1	RHOL	1960	W0240NA3A
24	519.1	LHOL	1960	W0240NADC
25.4 (1")	581.5	RHOL	1960	W0254NADA
28	706.6	RHOL	1960	W0280NA3A
28	706.6	LHOL	1960	W0280NA3C
32	922.9	RHLL	1960	W0320NA3B
32	922.9	LHLL	1960	W0320NA3D
34	1042	RHOL	1960	W0340NA3A

Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
34	1042	LHOL	1960	W0340NA3C
36	1168	RHOL	1960	W0360NA3A
48	2077	RHOL	1960	W0480NADA
48	2077	LHOL	1960	W0480NADC
8	60.6	RHOL	2160	W0080NB3A
8	60.6	LHOL	2160	W0080NB3C
9	76.69	RHOL	2160	W0090NB3A
9	76.69	LHOL	2160	W0090NBDC
11	114.6	RHOL	2160	W0110NB3A
11	114.6	LHOL	2160	W0110NBDC
13	160	RHOL	2160	W0130NBDA
13	160	LHOL	2160	W0130NBDC
14	185.6	LHOL	2160	W0140NBDC
15	213	RHOL	2160	W0150NB3A
15	213	LHOL	2160	W0150NB3C
26	640	RHOL	2160	W0260NBDA

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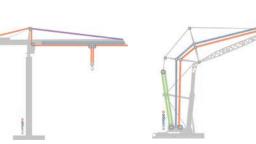
Hoist Rope

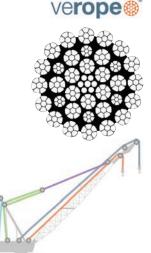
Luffing Rope Trolley Rope/Auxilary Hoist Rope

Verotop

- 35X7 Compacted non rotating rope
- Good bending fatigue
- Excellent spooling behaviour on multi layer drum
- Excellent resistance to crushing
- Ideal for hoist ropes and auxiliary hoist ropes on mobile, crawler, tower cranes and kelly ropes on foundation equipment
- Complies with AS 3569







Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number	Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
10	95.43	RHLL	1960	W0100QR4B	16	251.0	RHLL	2160	W0160QS4B
11	115.50	RHLL	1960	W0110QREB	17	283.3	RHLL	2160	W0170QSEB
12	137.40	RHLL	1960	W0120QREB	19	353.90	RHLL	2160	W0190QS4B
13	161.30	RHLL	1960	W0130QREB	21	432.4	RHLL	2160	W0210QSEB
22	461.90	RHLL	1960	W0220QR4B	22	474.5	RHLL	2160	W0220QSEB
32	977.20	RHLL	1960	W0320QR4B	23	518.6	RHLL	2160	W0230QSEB
8	62.7	RHLL	2160	W0080QSEB	24	564.7	RHLL	2160	W0240QSEB
15	220.6	RHLL	2160	W0150QSEB	25	612.8	RHLL	2160	W0250QSEB

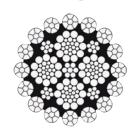
📕 Hoist Rope/Kelly Rope 📲 Luffing Rope/Crowd Winch Rope 📕 Trolley Rope/Auxilary Hoist Rope 📕 Pendant Rope 📕 Boom Hoist Rope



02

Verotop E

- Compacted non rotating rope
- Good bending fatigue
- Excellent spooling behaviour on multi layer drum
- Excellent resistance to crushing
- Ideal for hoist ropes and auxiliary hoist ropes on tower, luffing and truck cranes
- Complies with AS 3569



verope



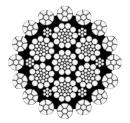
Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
9	69.83	RHLL	1960	W0090QY4B
16	241.00	RHLL	2160	W0160QZEB
18	305.00	RHLL	2160	W0180QZEB
19	339.80	RHLL	2160	W0190QZEB
20	376.50	RHLL	2160	W0200QZEB

📕 Hoist Rope 📲 Luffing Rope 📕 Trolley Rope/Auxilary Hoist Rope 📕 Pendant Rope

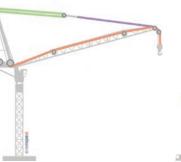
Verotop S Non Rotating Rope

- Strong and compacted non rotating rope
- Excellent bending fatigue
- Works perfectly on multi layer drum
- Excellent resistance to crushing
- Ideal for hoist and auxiliary
- hoist ropes
- Complies with AS 3569

verope









Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
20	409.00	RHLL	2160	W0200RJ3B
22	494.90	RHLL	2160	W0220RJ3B
24	589.00	RHLL	2160	W0240RJ3B
25.4 (1")	659.70	RHLL	2160	W0254RJ3B
26	691.30	RHLL	2160	W0260RJ3B
28	801.70	RHLL	2160	W0280RJ3B

📕 Hoist Rope 🛛 📕 Luffing Rope 📄 Trolley Rope/Auxilary Hoist Rope 📕 Pendant Rope 📃 Boom Hoist Rope

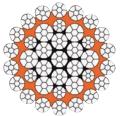
WIRE ROPE, STRAND & FITTINGS

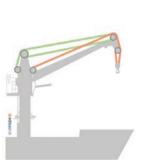
verope

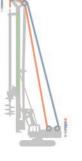
02

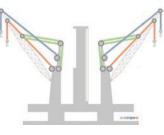
- Compacted non rotating rope with plastic covered core
- Excellent bending fatigue • Works perfectly on multi layer drum
- Excellent resistance to crushing
- · Ideal for hoist on offshore cranes, deck cranes and kelly ropes for piling and drill rigs
- Complies with AS 3569

Verotop P









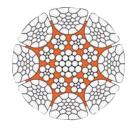
Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
20	377.60	RHLL	1960	W0200QTEB
22	456.90	RHLL	1960	W0220QTEB
24	543.70	LHLL	1960	W0240QTED
26	638.10	RHLL	1960	W0260QTEB
28	740.10	RHLL	1960	W0280QTEB
32	966.60	RHLL	1960	W0320QT4B
42	1665.00	RHLL	1960	W0420QT4B

Hoist Rope/Kelly Rope

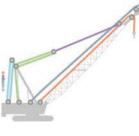
Luffing Rope/Crowd Winch Rope Auxilary Hoist Rope

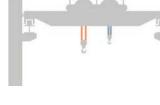
Veropower 8 1960 Tensile Grade

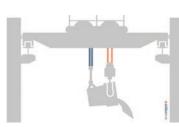
- 8-Stranded compact rope rotary swaging and plastic impregnated core
- Stable rope with superior bending fatigue
- Excellent resistance to crushing and abrasion
- Excellent spooling behaviour on multi layer drum
- Cannot be used with a swivel
- Ideal for hoist rope, luffing rope, trolley rope, crowd winch rope, crowd rope and grab rope
- Complies with AS 3569

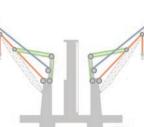


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Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
12	147.40	RHOL	1960	W0120NRDA
12	147.40	LHOL	1960	W0120NRDC
14	200.60	RHOL	1960	W0140NRDA
16	262.00	RHOL	1960	W0160NR3A
18	331.60	RHOL	1960	W0180NRDA
22	495.30	RHOL	1960	W0220NRDA
22	495.30	RHOL	1960	W022

📕 Hoist Rope 📕 Luffing Rope 📕 Auxilary Hoist Rope 📕 Pendant Rope 📕 Boom Hoist Rope

SPECIAL WIRE ROPES FOR CONSTRUCTION, PILING AND PORT INDUSTRY

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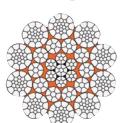
www.verope.com

WIRE ROPE, STRAND & FITTINGS

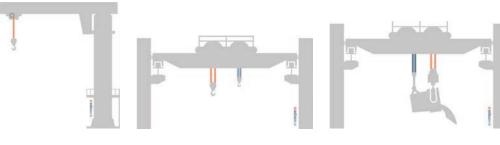
Verotech 10

02

- Very flexible 10 stranded rope in parallel lay construction with compacted strands and a plastic covered core
- Excellent breaking strength
- Very stable rope structure and unmatched bending fatigue resistance
- Perfect spooling behaviour on multi-layer drum
- Excellent resistance to crushing and abrasion
- Cannot be used with a swivel
- Ideal for overhead and jib crane



verope



Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
7	51.7	RHOL	2160	W0070NI3A
8	67.6	RHOL	2160	W0080NI3A
10	96.9	RHOL	2160	W0100NJ3A
11	127.7	RHOL	2160	W0110NI3A
13	178.4	RHOL	2160	W0130NI3A
16	270.2	RHOL	2160	W0160NI3A
20	422.2	RHOL	2160	W0200NI3A

Hoist Rope Auxilary Hoist Rope

End Stop Assemblies

- VESS Verope End Stop Socketing System
- Based on specifications of crane manufacturers
- Broad product portfolio for many kinds of reeving systems



Capacity (t)	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
50	161.3	RHLL	1960	W0130QREB-145M
40	251.0	RHLL	2160	W0160QS4B-ESP0E-150M
50	283.3	RHLL	2160	W0170QSEB-ESP0E-180M
50	220.6	RHLL	2160	W0150QSEB-ESP0E-185M
55	220.6	RHLL	2160	W0150QSEB-ESP0E-220M
60	283.3	RHLL	2160	W0170QSEB-ESP0E-210M
70	283.3	RHLL	2160	W0170QSEB-ESP0E-200M
80	283.3	RHLL	2160	W0170QSEB-ESP0E-245M
90	432.4	RHLL	2160	W0210QSEB-ESP0E-250M



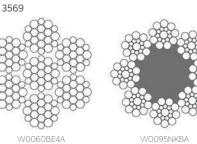
verope

38

ELEVATOR WIRE ROPE

Governor Rope

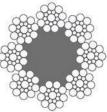
- Preformed
- Prestretched
- Ideal for elevators
- Complies with AS 3569



Nominal Dia. mm	Min. Breaking Force kN	Lay	Part Number
6.0	29.00	RHOL	W0060BE4A
6.5	21.40	RHOL	W0060CEBA
9.5	42.80	RHOL	W0095NKBA

Hoist Rope Fibre Core - DRAKO 8X19S

- Preformed
- Prestretched
- Fibre core
- Ideal for elevator hoist rope
- Complies with AS 3569



PFEIFER

DRAKO

Nominal Dia. mm	Min. Breaking Force kN	Lay	Part Number
13	80.20	RHOL	W0130NFBA
15	107.00	LHOL	W0150NHBC
16	121.00	RHOL	W0160NFBA
18	154.00	RHOL	W0180NKBA

Hoist Rope Steel Core - DRAKO 250T

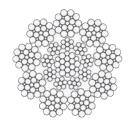
- Preformed
- Prestretched
- Ideal for low rise and mid rise elevators and indirect hydraulic elevators according to EN 81
- Approved for very low D/d ratio Complies with AS 3569

Nominal Dia. mm	Min. Breaking Force kN	Lay	Part Number
6*	26.8	RHOL	W0060UTDA
6.5*	31.5	RHOL	W0065UTDA
8	43.3	RHOL	W0080UYDA
10	67.7	RHOL	W0100UYDA
11	81.9	RHOL	W0110UYDA
12*	97.4	RHOL	W0120UYDA
13*	114.0	RHOL	W0130UYDA
16*	173.0	RHOL	W0160UYDA

*Available on request

Hoist Rope Steel Core - DRAKO 300T

- Preformed
- Prestretched • Ideal for high rise and super
- high rise elevators
- Complies with AS 3569



PFEIFER

DRAKO

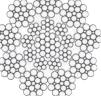
Nominal Dia. mm	Min. Breaking Force kN	Lay	Part Number
10	66.0	RHOL	W0100UUDA
11	79.9	RHOL	W0110UUDA
13	111.6	RHOL	W0130UUDA
16 19	174.0	RHOL	W0160UVDA
19	245.0	RHOL	W0190UVDA

Other sizes available on request.

Hoist Rope Steel Core - DRAKO 375T

- Preformed
- Prestretched
- Higher E-modulus leads to a better elongation behaviour
- Ideal for high rise and super
- high rise elevators
- Complies with AS 3569





Nominal Dia. mm	Min. Breaking Force kN	Lay	Part Number
10*	66.0	RHOL	W0100U0DA
11*	79.9	RHOL	W0110U0DA
13*	111.6	RHOL	W0130U0DA
15*	153.0	RHOL	W0150U0DA
16*	174.0	RHOL	W0160U0DA
19*	245.0	RHOL	W0190U0DA

* Available on request

DRAKO Lube & Fluid

- Enables dosed re-lubrication of the suspension ropes
- Protects the ropes from rust
- Increases the service life of the ropes
- DRAKO Fluid SF is solvent-free

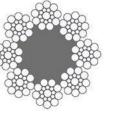


PFEIFER

DRAKO

DRAKO Lube

Description	Part Number
DRAKO lube – 5L	WLUBE-PFE-DRAK0-5L
DRAKO fluid SF – 5L	WLUBE-PFE-DRAKO-SF-5LTR



FEIFER DRAKO

PFE		
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DRAKO

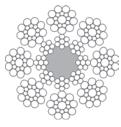
WIRE ROPE, STRAND & FITTINGS

Governor Rope

Preformed

02

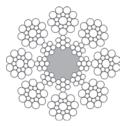
- PAWO F1 Governor rope
- Ideal for elevators
- Complies with AS 3569



Nominal Dia. mm	Min. Breaking Force kN	Lay	Part Number
6.5	25.80	RHOL	W0065NMDA

Hoist Rope F3 – Steel Reinforced Fibre Core

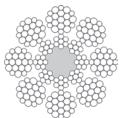
- Preformed
- PAWO F3 hoist rope in
- seale construction
- Ideal for mid rise elevators
- Complies with AS 3569



Nominal Dia. mm	Min. Breaking Force kN	Lay	Part Number
8	38.00	RHOL	W0080NMDA
10	60.50	RHOL	W0100NMDA
11	73.40	RHOL	W0110NMDA
13	103.10	RHOL	W0130NMDA
14	119.30	RHOL	W0140NMDA
16	154.80	RHOL	W0160NMDA

Hoist Rope F7 – Steel Reinforced Fibre Core

- Preformed
- PAWO F7 hoist rope in
- warrington construction
- Ideal for mid rise elevators
 Complies with AS 3569



Min. Breaking Force kN	Lay	Part Number
40.60	RHOL	W0080NDDA
63.40	RHOL	W0100NDDA
76.80	RHOL	W0110NDDA
105.00	RHOL	W0130NDDA
160.40	RHOL	W0160NDDA
	40.60 63.40 76.80 105.00	63.40 RHOL 76.80 RHOL 105.00 RHOL

Hoist Rope F10 – Steel Core

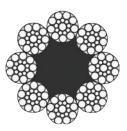
- Preformed
- PAWO F10 Hoist Rope 9 stranded with full steel construction
- Increased resistance to bending
- Ideal for the most demanding high rise elevator installations
- Complies with AS 3569



Nominal Dia. mm	Min. Breaking Force kN	Lay	Part Number
10	67.20	RHOL	W0100NHDA
11	80.20	RHOL	W0110NHDA
13	113.40	RHOL	W0130NHDA
16	174.00	RHOL	W0160NHDA

Governor Rope

- Elevator wire rope
- Fibre core
- Ideal for low or mid rise elevatorsComplies with AS 3569



JSHA

MARTIN

Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
9.5	41.50	RHOL	1570	W0095UKFA

Hoist Rope Fibre Core

- Elevator wire rope
- Fibre core
- Ideal for low or mid rise elevators
 Complies with AS 3569



Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
12.7	74.20	RHOL	1370/1770	W0127UIFA
13.0	77.70	RHOL	1370/1770	W0130UIFA
16.0	118.00	RHOL	1370/1770	W0160UIFA

T86 Lubricant

Low viscosity for easy application

- Creeping capability to penetrate
- into the rope
- Prolonged service life
- Reduces wear caused by mechanical load and corrosion inhibitors



5L

Description	Part Number
1L Bottle with spray cap	WLUBE-GUS-T86-1LT
5L Container	WLUBE-GUS-T86-5LT
T86 contains solvent	

Flash point is 60°C and after evaporation of the solvent it is 235°C

PRODUCT INSIGHT

Elevator ropes are carefully lubricated during production. During operation and over time the factory provided lubricant is reduced as the lubricant is used up. A timely and regular relubrication of the elevator ropes is therefore necessary and particularly extends the service life of a rope in demanding installations.

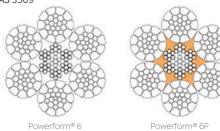


USHA MARTIN

02

Powerform 6/6P

- Excellent shock resistance
- Enhanced resistance to fleet angle if plastic impregnated
- · Ideal for straddlers, stacker and ship to shore cranes
- Complies with AS 3569



Min. Breaking Force kN Nominal Dia. mm Lay **Tensile Grade** Part Number W0160UG3A 16' 218.00 RHOL 1960 400.00 RHOL 1960 W0220UG3A 28 657.00 RHOL 1960 W0280UG3A 30 W0300UG3A RHOL 1960 757.00

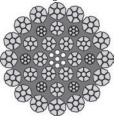
*Available on request

Non Rotating Powerform 35/35P



USHA MARTIN

- Greatest resistance to rotation
- Strongest of all ropes in the powerform rotation resistant range
- Longer bending fatigue when compared to normal rotation
- resistant ropes
- Optional plastic coating of IWRC





Powerform 35

		- PO

Nominal Dia. mm*	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
13	155.00	RHLL	1960	W0130QIEB
14	180.00	RHLL	1960	W0140QIEB
16	238.00	RHLL	1960	W0160QIEB
18	301.00	RHLL	1960	W0180QIEB
19	336.00	RHLL	1960	W0190QIEB
20	372.00	RHLL	1960	W0200QIEB
22	450.00	RHLL	1960	W0220QIEB
24	536.00	RHLL	1960	W0240QIEB
14	202.00	RHLL	2160	W0140QLEB
16	256.00	RHLL	2160	W0160QL3B
19	361.00	RHLL	2160	W0190QL4B
20	400.00	RHLL	2160	W0200QL4B

*Available on request ^MBF corresponds to Non Plasticated variety ** Contact your Sales Representative for Powerform 35P Plastic Im-

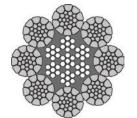
Dock-side / Deck Cranes / Off shore Pedestal

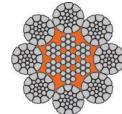
pregnated parts



Powerform 8/8P

- Flexible 8 stranded construction with compacted strands
- Longer bend fatigue life when compared
- to normal 8 stranded rope
- Excellent resistant to crushing and abrasion





Powerform 8

Powerform 8P**

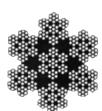
Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
13*	148.00	RHOL	1960	W0130MKJA
14*	172.00	RHOL	1960	W0140MKJA
16*	225.00	RHOL	1960	W0160MKJA
18*	284.00	RHOL	1960	W0180MKJA
22*	425.00	RHOL	1960	W0220MKJA
24	506.00	RHOL	1960	W0240MKJA
1"	567.00	RHOL	1960	W0254MKJA
28*	688.00	RHOL	1960	W0280MPDA
11/8"	717.00	RHOL	1960	W0285MPDA
13*	159.00	RHOL	2160	W0130MUDA
14*	184.00	RHOL	2160	W0140MUDA
16*	241.00	RHOL	2160	W0160MUDA
18*	304.00	RHOL	2160	W0180MUDA
20*	376.00	RHOL	2160	W0200MUDA
22*	455.00	RHOL	2160	W0220MUDA
24*	541.00	RHOL	2160	W0240MUDA
1"*	606.00	RHOL	2160	W0254MUDA
28*	737.00	RHOL	2160	W0280MUDA
11/8"*	767.00	RHOL	2160	W0285MUDA

*Available on request

Tower Cranes

^MBF corresponds to Non Plasticated variety Contact your Sales Representative for Powerform 8P Plastic Im

Cable Laid Ropes





W0120LF3A

W0160LL3A & W0200LL3A

Ladle Cranes

Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
12	75.00	RHOL	1960	W0120LF3A
16	130.00	RHOL	1960	W0160LL3A
20	207.00	RHOL	1960	W0200LL3A

Piling

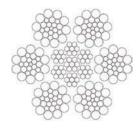
GENERAL PURPOSE ROPE

Hyflex 6X36 Steel Core

• Flexible steel wire rope

02

- Excellent fatigue life
- Suitable for varied general engineering applications
- Ideal for crane rope in hoists, port cranes, tow ropes
- and winch ropes
- Complies with AS 3569



USHA MARTIN

Nominal Dia.	Min. Breaking Force kN	Lav	Tensile Grade	Part Number
mm		Lay		
8	44.70	RHOL	1960	W0080IT3A
9	56.50	RHOL	1960	W0090IR3A
10	69.80	RHOL	1960	W0100IT3A
12	101.00	RHOL	1960	W0120IT3A
13	118.00	RHOL	1960	W0130IT3A
14	137.00	RHOL	1960	W0140IT3A
16	179.00	RHOL	1960	W0160IT3A
18	226.00	RHOL	1960	W0180IT3A
20	279.00	RHOL	1960	W0200IT3A
22	338.00	RHOL	1960	W0220IT3A
24	402.00	RHOL	1960	W0240IT3A
26	472.00	RHOL	1960	W0260IT3A
28	547.00	RHOL	1960	W0280IT3A
30	631.00	RHOL	1960	W0300IT3A
32	715.00	RHOL	1960	W0320IT3A
16	183.00	RHOL	FIPS	W0160IY3A
18	226.00	RHOL	EIPS	W0180IY3A
19	262.00	RHOL	FIPS	W0190IY3A
20	287.00	RHOL	FIPS	W0200IY3A
22	354.00	RHOL	FIPS	W0220IY3A
24	411.00	RHOL	EIPS	W0240IY3A
26	478.00	RHOL	FIPS	W0260IY3A
28	554.00	RHOL	FIPS	W0280IY3A
32	715.00	BHOL	FIPS	W0320IY3A
36	902.00	BHOL	FIPS	W0360IY3A
38	1005.00	RHOL	FIPS	W0380IY3A
44	1466.00	RHOL	FFIPS	W0440IX3A
44	1723.00	BHOL	FFIPS	W0440IX3A
52	2003.00	BHOL	FFIPS	W04801X3A
64	2950.00	RHOL	EEIPS	W05201X3A
71	3530.00	RHOL	FFIPS	W00401X3A
			+	
76	4160.00	RHOL	EEIPS	W0760IX3A
83	4830.00	RHOL	EEIPS	W0830IX3A

6X41 Steel Core

- Flexible steel wire rope
- Excellent fatigue life
- Ideal for situations with requirements of multiple and reverse bendings
- Ideal for crane rope in hoists, port cranes, tow ropes, winch ropes and slings

Min. Breaking

Lay

RHOL

RHOL

RHOI

Force kN

494.00

645.00

1010.00

• Complies with AS 3569

Nominal Dia.

mm 28 32

40

40



Tensile Grade

1770

USHA MARTIN	

Part Number

W0280JE3A

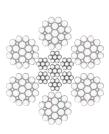
W0320JE3A

W0400JEDA W0400JEDC

6X25 Steel Core

Bullivants

- Highly flexible and versatile steel wire rope • Ideal for winch ropes and slings
- Complies with AS 3569



Min. Breaking Force kN	Lay	Tensile Grade	Part Number
73.72	RHOL	2070	W0100FN3K
89.20	RHOL	2070	W0110F03K
189.00	RHOL	2070	W0160F03K
	Force kN 73.72 89.20	Force kN Lay 73.72 RHOL 89.20 RHOL	Force kN Lay Tensile Grade 73.72 RHOL 2070 89.20 RHOL 2070

1X7 Galvanised Strand

- Class A galvanised
- Ideal for guying and support for communication cable towers



Nominal Dia. Min. Breaking

mm	Force kN	Lay	Tensile Grade	Part Number
7/2.00	26.20	RHL	1320	WZ07200Q
7/2.75	50.00	RHL	1320	WZ07275Q
7/3.25	69.00	RHL	1320	WZ07325Q
7/3.75	92.00	RHL	1320	WZ07375Q

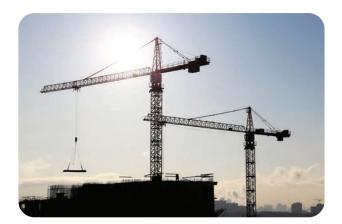
1X19 Galvanised Strand

- Class A galvanised
- Ideal for guying and support for communication cable towers





Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
19/2.00	71.00	RHL	1320	WZ19200Q
19/2.75	134.00	RHL	1320	WZ19275Q
19/3.25	187.00	RHL	1320	WZ19325Q







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PORTS



ELEVATORS



OIL EXPLORATION



MINES

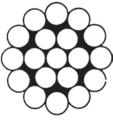
WIRE ROPE, STRAND & FITTINGS



1X19 Galvanised

• Ideal for guying and support for communication cable towers



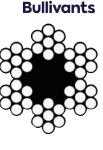


Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
10	82.63	RHL	1570	W0100SC9A
12	119.00	RHL	1570	W0120SC9A
13	139.65	RHL	1570	W0130SC9A
16	211.00	RHL	1570	W0160SC9A
20	295.00	RHL	1570	W0200SC9A

SMALL GENERAL PURPOSE WIRE ROPES

6X7 Construction Fibre Core

- Galvanised 6X7 fibre core
- Flexible
- Ideal for catenary rope, stay wire, garage doors, fencing, small slings, hanging signs and lashing
- Complies with AS 3569



Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
2	2.10	RHOL	1570	W0020WA1A
2.5	3.40	RHOL	1570	W0025WA1K
3	4.70	RHOL	1570	W0030WA1A

7X7 Construction Steel Core

- Galvanised 7X7
- Steel core rope
- Flexible
- Ideal for catenary rope, stay wire, garage doors, fencing, small slings, hanging signs and lashing
- Complies with AS 3569

Bullivants



Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
1.6	1.48	RHOL	1570	W0016LA4K
2	2.30	RHOL	1570	W0020LA4K
2.5	3.60	RHOL	1570	W0025LA4K
3	5.10	RHOL	1570	W0030LA4K
4	9.05	RHOL	1570	W0040LA4K
12	81.20	RHOL	1570	W0120LA4A
16	145.0	RHOL	1570	W0160LA4A
5	18.59	RHOL	2070	W0050LC4K
6	26.78	RHOL	2070	W0060LC4A
7	36.44	RHOL	2070	W0070LC4A
8	47.53	RHOL	2070	W0080LC4A
9	60.20	RHOL	2070	W0090LC4A
10	74.40	RHOL	2070	W0100LC4A

6X19 Construction – Fibre Core

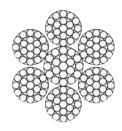
- Galvanised 6X19 (12/6/1)
- Ideal for wire rope slings, control cables, garage door cables and general engineering cables
- Complies with AS 3569



Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
3.5	5.80	RHOL	1570	W0035WC1A
4	7.72	RHOL	1570	W0040WC1A
5	12.06	RHOL	1570	W0050WC1A
6	17.60	RHOL	1570	W0060WC1A
8	30.90	RHOL	1570	W0080BB1A

7X19 Construction – Wire Strand Core

- Galvanised 7X19 steel core
- · Ideal for catenary rope, fencing rope, garage doors, stay wires, hanging signs and control cables
- Complies with AS 3569



Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade
3	6.20	RHOL	2070
3.2	7.06	RHOL	2070
4	11.21	RHOL	2070
5	17.40	RHOL	2070
6	25.45	DHUI	2070

RHOL

RHOL

BHOI

2070

6X24 Construction – Fibre Core

• Galvanised 6X24 fibre core

8

• Ideal for slings and fencing rope

43.97

68 40

• Complies with AS 3569

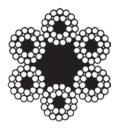


Part Number W0030LJ4K W0032LJ4K W0040L.I4K W0050LJ4K W0060LJ4K

W0070LJ4K

W0080LJ4K

W0100L.I4K



Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
6	16.20	RHOL	1570	W0060EA1A
8	28.70	RHOL	1570	W0080EA1A
9	36.40	RHOL	1570	W0090EA1A
10	44.90	RHOL	1570	W0100EA1A
12	64.00	RHOL	1570	W0120EA1A
13	75.90	RHOL	1570	W0130EA1A
16	115.00	RHOL	1570	W0160EA1A
20	180.00	RHOL	1570	W0200EA1A

Spiral Strand

Class A galvanised

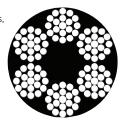
WS032-3R

WS032-3W WS048-4R 02

PVC Coated Galvanised Rope

- Galvanised wire rope with PVC coating
- Ideal for lashing, gymnasium wire cables, lock cable systems and security cables
- Complies with AS 3569





Nominal Dia. mm	Min. Breaking Force kN	Lay	Tensile Grade	Part Number
2 – 3* (Blue)	2.10	RHOL	1570	WV020WA1B
3 – 4* (Blue)	4.70	RHOL	1570	WV030WA1B
3 – 4* (Red)	4.70	RHOL	1570	WV030WA1R
3.5 – 5 (Blue)	5.80	RHOL	1570	WV035WC1B
4 - 6 (Blue)	7.70	RHOL	1570	WV040WC1B
4-6 (Red)	7.70	RHOL	1570	WV040WC1R
4-6 (Yellow)	7.70	RHOL	1570	WV040WC1Y
5 – 7 (Blue)	12.00	RHOL	1570	WV050WC1B
5 – 7 (Red)	12.00	RHOL	1570	WV050BB1R
6 - 8 (Blue)	17.60	RHOL	1570	WV060WC1B
8 - 10 (Blue)	30.90	RHOL	1570	WV080BB1B
10 – 12 (Blue)	48.20	RHOL	1570	WV100BB1B

Colour denotes PVC coating colour

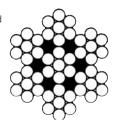
*6X7 Construction. All other parts are 6X19 Construction.

STAINLESS STEEL WIRE ROPE

7X7 Construction

- Stainless steel rope
- Suitable for fixed rigging applications including balustrading, safety barriers and cable nets
- Complies with AS 3569

Bullivants



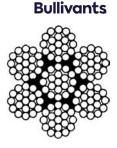
Nominal Dia. mm	Min. Breaking Force kN	Lay	Grade	Part Number
1.2	0.8	RHOL	304	WS012-34
1.6	1.5	RHOL	304	WS016-34
2.0	2.5	RHOL	304	WS020-34
2.4	3.4	RHOL	304	WS024-34
3.2	6.5	RHOL	304	WS032-34
4.0	10.1	RHOL	304	WS040-34
8.0	40.6	RHOL	304	WS080-34
1.6	1.5	RHOL	316	WS016-36
2.0	2.5	RHOL	316	WS020-36
2.4	3.4	RHOL	316	WS024-36
3.2	6.5	RHOL	316	WS032-36
4.0	10.1	RHOL	316	WS040-36
8.0	36.1	RHOL	316	WS080-36

PVC Coated – Stainless Steel Rope

- PVC coated stainless steel rope
- Suitable for balustrading, architectural and mining applications Complies with AS 3569

7X19 Construction

- Highly flexible stainless steel wire rope • Suitable for balustrading, yacht rigging,
- steering cables, cable nets,
- offshore oil and gas
- Ideal for thimble eye terminations
- Complies with AS 3569



Nominal Dia. mm	Min. Breaking Force kN	Lay	Grade	Part Number
1.6	1.5	RHOL	304	WS016-44
2.0	2.3	RHOL	304	WS020-44
2.4	3.4	RHOL	304	WS024-44
3.2	6	RHOL	304	WS032-44
4.0	9.4	RHOL	304	WS040-44
4.8	13.2	RHOL	304	WS048-44
6.4	28.2	RHOL	304	WS064-44
8.0	37.6	RHOL	304	WS080-44
9.6	55	RHOL	304	WS096-44
12.7	100	RHOL	304	WS127-44
2.0	2.3	RHOL	316	WS020-46
2.4	3.7	RHOL	316	WS024-46
3.2	6	RHOL	316	WS032-46
4.0	9.4	RHOL	316	WS040-46
4.8	13.2	RHOL	316	WS048-46
5.0	14.6	RHOL	316	WS050-46
6.4	24	RHOL	316	WS064-46
8.0	33.3	RHOL	316	WS080-46
8.0*	33.3	RHOL	316	WS080-46-1000M
9.6	48	RHOL	316	WS096-46
10.0	52.1	RHOL	316	WS100-46
12.7	84	RHOL	316	WS127-46
16.0	133	RHOL	316	WS160-46

*1000m Length

1X19 Construction

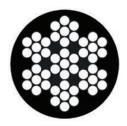
- Stainless steel wire strands
- Suitable for marine applications
- Ideal for rigid rigging, masts and
- guy ropes Complies with AS 3569



Bullivants

Nominal Dia. mm	Min. Breaking Force kN	Lay	Grade	Part Number
2.4	5.31	RHL	304	WS024-24
3.2	9.44	RHL	304	WS032-24
4	13.10	RHL	304	WS040-24
4.8	21.38	RHL	304	WS048-24
2	3.30	RHL	316	WS020-26
3.2	8.40	RHL	316	WS032-26
4	13.10	RHL	316	WS040-26
8	52.80	RHL	316	WS080-26

Bullivants



Nominal Dia. mm Min. Breaking Force kN Part Number 2.40 - 3.38 (Blue) WS024-3B1 4.30 3.20 - 4.18 (Red) 6.00 3.20 - 4.18 (White) 6.00 4.80 - 6.35 (Red) 14.60

Nominal Dia. mm refers to wire rope diameter and finished diameter including PVC coating Colour denotes PVC coating colour

ANDROMEDA

INDUSTRIES

SUPERFLEX ROPE

Superflex Plaited Steel Cable

- Steel cable of plaited configuration
- Inter-plaiting of the strands creates tough and set resistant cables
- Higher flexibility of the cables compared to normal wire rope
- Suitable for use around tight corners



Nominal Dia. mm	Min. Breaking Force kN	Part Number
10	50	WSFR-025
12	75	WSFR-030
14	95	WSFR-035
16	125	WSFR-040
18	157	WSFR-045
20	210	WSFR-050
22	270	WSFR-055
26	345	WSFR-065
32	530	WSFR-080
40	790	WSFR-100

Superflex Slings

- General lifting purposes where a flexible steel sling is needed
- Suitable for use in cradle lift, choked on round and rectangular load



ANDROMEDA

Nominal Dia. mm	Single Fall WLL kN (Safety Factor 5:1)	Part Number
10	10	WSSFX-025-010
12	15	WSSFX-030-010
14	18	WSSFX-035-020
16	24	WSSFX-040-020
18	30	WSSFX-045-020
20	40	WSSFX-050-020
22	51	WSSFX-055-030
26	66	WSSFX-065-020
32	101	WSSFX-080-020
40	150	WSSFX-100-030
48	212	WSSFX-120-030
56	278	WSSFX-140-030
68	413	WSSFX-170-040
80	574	WSSFX-180-040
96	827	WSSFX-240-050

Supplied with standard aluminium alloy ferrules or steel ferrules up to 32mm

Superflex Strops

- Superflex strops are slings made especially as chokers
- Designed to choke onto and safely lift loads including poles, piles, steel bars, drill rods and bundles of tube
- Great gripping power with various versions available



ANDROMEDA

Nominal Dia. mm	Single Fall WLL kN (Safety Factor 5:1)	Part Number
10	14	WSFS-025-020
12	22	WSFS-030-030
14	26	WSFS-035-030
16	35	WSFS-040-030
18	44	WSFS-045-030
20	59	WSFS-050-030
22	76	WSFS-055-060
32	151	WSFS-080-060
40	225	WSFS-100-050
48	317	WSFS-120-060
56	416	WSFS-140-400
68	618	WSFS-170-400
80	861	WSFS-200-600
96	1240	WSFS-240-600
	1240	W

Supplied with standard aluminium alloy ferrules or steel ferrules up to 32mm Superflex Double Ended Strops also available

with a WLL up to 1653kN in single fall (SF 5:1)

Dean-0 Sling

- Purposely designed short to provide a single lifting point under Ramshorn Hooks on large cranes
- Enables a single point load to be attached maintaining centreline loading on a crane's lower hoisting block assembly
- Offered in seven different capacities with the WLL of: 11 tonnes, 20 tonnes, 40 tonnes, 60 tonnes, 80 tonnes, 110 tonnes and 165 tonnes. Suitable Master Links can be fitted into and removed from this sling as required.

Caution: Unbalanced loads can cause hooks to skew on the rig centreline, potentially damaging the block assembly and wire rope.



Bullivants

ANDROMEDA

STEEL FLAT WOVEN SLINGS

Cradle Lift

Come in two types:

- Machine made woven flat cable (1A, 1B and 1C)
- Hand made (1E and 1G)
- **1A**
- U Termination on both ends
- Slimmest woven steel sling
- Slides easily under loads
- 1B
- U termination on one end and lapped eye with Ferrules on other end
- End with Ferrules remains on Crane Hook during rigging
- 1C
- Lapped Eye with Ferrules on both ends
- Lowest cost sling where clearances under loads are adequate 1E
- U Termination one end and hand formed soft eye on other end
- Very thin sling useful where clearance between bundles is limited 1G
- Lapped eye with ferrules one end and hand formed soft eye on other end

Nominal Width mm	Length m	Single Fall WLL kN (Safety Factor 5:1)	Part Number
50	1	10.2	WFWS-T1A-050-0100
64	6	16.0	WFWS-T1A-064-0600
76	4	23.8	WFWS-T1A-076-0400
88	5	31.6	WFWS-T1A-088-0500
100	4	42.5	WFWS-T1A-100-0400
64	4	16.0	WFWS-T1B-064-0400
76	4	23.8	WFWS-T1B-076-0400
88	4	31.6	WFWS-T1B-088-0400
100	4	42.5	WFWS-T1B-100-0400
64	2	16.0	WFWS-T1C-064-0200
76	2	23.8	WFWS-T1C-076-0200
100	3	42.5	WFWS-T1C-100-0300
160	8	114	WFWS-T1C-160-0800
50	2.5	9.0	WFWS-T1E-050-0250
64	2.5	14.1	WFWS-T1E-064-0250
76	3	21.0	WFWS-T1E-076-0300
64	2	14.1	WFWS-T1G-064-0200
88	2	28.5	WFWS-T1G-088-0200
100	4	37.5	WFWS-T1G-100-0400
160	6	100.0	WFWS-T1G-160-0600

Other sizes available up to 250mm nominal width Protective covering available on request

Choker Lift

2R

• U termination on reeving end, semi trapezoidal

link on other end

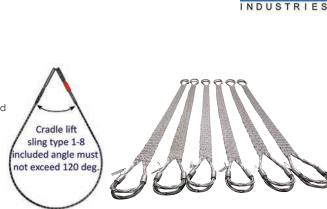
- Provides a thin working end for sliding easily under loads 2S
- Lapped Eye with Ferrules one end and semi trapezoidal link in other end
- Additional clearance required under loads



Nominal Width mm	Length m	Single Fall WLL kN (Safety Factor 5:1)	Part Number
50	2	10.2	WFWS-T2R-050-0200
64	2.5	16.0	WFWS-T2R-064-0250
76	2	23.8	WFWS-T2R-076-0200
88	2	31.6	WFWS-T2R-088-0200
100	3	42.5	WFWS-T2R-100-0300
76	3	23.8	WFWS-T2S-076-0300
88	2	31.6	WFWS-T2S-088-0200
100	4	42.5	WFWS-T2S-100-0400
112	7	53.4	WFWS-T2S-112-0700
160	8	114.0	WFWS-T2S-160-0800
200	9	170.0	WFWS-T2S-200-0900

2T, 2U and 2W (handmade) also available Other sizes available up to 250mm nominal width

Protective covering available on request



ANDROMEDA

47

WIRE ROPE – SLINGS

6X24 Construction Galvanised

Machine spliced

- Aluminium ferrules
- Suitable for general lifting applications, towing, tie downs and
- winching

02

• Complies with AS 1666.1



Bullivants

				Dia. mm			
Length m	6	8	10	12	14	16	20
0.5	WSG-06EA0050-1515M		WSG-10EA0050-1515M				
1	WSG-06EA0100-2525M	WSG-08EA0100-2525M	WSG-10EA0100-2424M	WSG-12EA0100-3030M	WSG-14EA0100-3030M	WSG-16EA0100-2525M	
1.5	WSG-06EA0150-2525M	WSG-08EA0150-2525M	WSG-10EA0150-2424M	WSG-12EA0150-3030M	WSG-14EA0150-3030M	WSG-16EA0150-3030M	
2	WSG-06EA0200-2525M	WSG-08EA0200-2525M	WSG-10EA0200-2424M	WSG-12EA0200-3030M	WSG-14EA0200-3030M	WSG-16EA0200-3030M	
2.5							WSG-20EA0250-3535M
3		WSG-08EA0300-2525M	WSG-10EA0300-2424M	WSG-12EA0300-3030M		WSG-16EA0300-3030M	
4		WSG-08EA0400-2525M		WSG-12EA0400-3030M			
4.5							WSG-20EA0450-3535M
6		WSG-08EA0600-2525M		WSG-12EA0600-3030M			
6		WSG-08EA0600-2525M		WSG-12EA0600-3030M			

WIRE ROPE FITTINGS

Wire Rope Grips – Heavy Duty - Galvanised

- Simple mechanical means for temporarily securing wire rope
- Termination with a wire rope grip needs to be inspected regularly
- Not to be used for lifting
- Not to be used in live running ropes
- · Ideal for a guying, catenary systems and temporary wire rope adjustment
- Complies with AS 2076



WRG-T-400-G

Bullivants

Suits Rope Dia. mm	No. Grips*	Part Number
6	3	WRG-T-060-G
8	3	WRG-T-080-G
10	3	WRG-T-100-G
12	3	WRG-T-120-G
14	4	WRG-T-140-G
16	4	WRG-T-160-G
18	4	WRG-T-180-G
20	4	WRG-T-200-G
22 26	4	WRG-T-220-G
26	5	WRG-T-260-G
28	5	WRG-T-280-G
32	5	WRG-T-320-G

* No. Grips identifies the number of grips required per termination Supplied individually

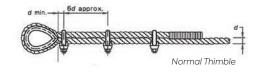
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SAFETY TIP

40

Wire rope grips are designed for temporary applications only as recommended as per AS 2076:

- Wire rope grips 'are not intended for the permanent fastening of a rope that is subject to high dynamic loading' (clause 10.2)
- Shall not be used where the rope is required to 'support persons or suspended loads' (clause 10.3)



Wire Rope Grips - Commercial - Galvanised

Bullivants

- Simple mechanical means for temporarily securing wire rope
- Termination with a wire rope grip needs to be inspected regularly • Not to be used in lifting
- Not to be used in live running ropes
- · Ideal for a temporary wire rope adjustment, guying and catenary systems



Suits Rope Dia. mm	Part Number
3	WRG-U-030-G
5	WRG-U-050-G
6	WRG-U-060-G
8	WRG-U-080-G
10	WRG-U-100-G
12	WRG-U-120-G
14	WRG-U-140-G
16	WRG-U-160-G
20	WRG-U-200-G

Supplied individually

- A termination made with wire rope grips shall be inspected at regular intervals. The preferred frequency of inspection is after each loading. In most applications, it will be found that the nuts require further adjustment (clause 10.1)
- Wire rope grips shall not be used for lifting purposes (clause 10.2)

Refer to AS 2076 for the correct installation of wire rope grips and how many wire rope grips are required for each wire rope diameter.

6d approx. Rounded Thimble NOTE: d = diameter of rope

Bullivants

Thimbles – Heavy Duty – Galvanised

- Used to reinforce the eye and protect the wire rope from damage from any lifting tackle or any other connection
- Hot dip galvanised with blue paint at the tips
- Ideal to secure loop for wire rope where needed
- Ideal for steel and fibre core wire rope
 Complies with AS 1138

Suits Rope Dia. mm	Suits Rope Dia. in.	Part Number
8	5/16	WTH-T-080-G-AS1138
10	3/8	WTH-T-100-G-AS1138
12	1/2	WTH-T-120-G-AS1138
16	5/8	WTH-T-160-G-AS1138
20	3/4	WTH-T-200-G-AS1138
22	7/8	WTH-T-220-G-AS1138
24	1	WTH-T-240-G-AS1138
26	1	WTH-T-260-G-AS1138
28	11/8	WTH-T-280-G-AS1138

Thimbles – Open – Galvanised

• Used to reinforce the eye and protect the wire rope from damage from any lifting tackle

- wire rope from damage from any lifting tackle or any other connectionHot dip galvanised with blue paint at the tips
- Hot dip galvanised with blue paint at the tips
 Ideal to secure loop for wire rope where needed and expected
- Ideal for steel and fibre core wire rope
- Complies with AS 1138

Suits Rope Dia. mm	Suits Rope Dia. in.	Part Number
16	5/8	WTH-T-0P-160-G-25MM
20	3/4	WTH-T-0P-200-G-25MM

Terminator Wedge Sockets – S-421T

- Efficiency rating of 80% of catalogue strength of wire rope
- MPI tested cast steel basket
- Wedge and socket can be used in conjunction with closed swage and spelter sockets
- Incorporates Crosby's patented QUIC-CHECK 'Go' and 'No-Go' features cast into the wedge
- Ideal for cranes and piling equipment where the ropes need frequent changing due to wear

Suits Rope Dia. mm	Suits Rope Dia. in.	Part Number
9-10	3/8	WS0C-WE-0-096-B-421T
11 – 13	1/2	WS0C-WE-0-127-B-421T
14 - 16	5/8	WS0C-WE-0-158-B-421T
18 – 19	3/4	WS0C-WE-0-190-B-421T
20 - 22	7/8	WS0C-WE-0-222-B-421T
24 - 26	1	WS0C-WE-0-254-B-421T
28	11/8	WS0C-WE-0-285-B-421T
30 - 32	11/4	WS0C-WE-0-320-B-421T

DID YOU KNOW?

Load testing and Wire Rope sling manufacturing in various configurations is available at all branches as well as on-site in selected locations.



Contact your nearest branch for more information on 1300 LIFTING

Open Wedge Socket

- Efficiency rating of 80% of catalogue strength of wire rope
- MPI tested cast steel basket
- Ideal for cranes and piling equipment where the ropes need frequent changing due to wear



02

Quite Dana Dia mm	Cuite Davis Dia in	David November
Suits Rope Dia. mm	Suits Rope Dia. in.	Part Number
11 – 13	1/2	WS0C-WE-0-127-G-NR1
14 – 16	5/8	WSOC-WE-0-158-G-NR2
18 – 19	3/4	WSOC-WE-0-190-G-NR3
20 – 22	7/8	WSOC-WE-0-222-G-NR4
23 – 26	1	WSOC-WE-0-254-G-NR5
27 – 29	11/8	WSOC-WE-0-285-G-NR6
30 - 32	11/4	WSOC-WE-0-317-G-NR7

Spelter Sockets – Open

• Efficiency rating of 100% based on catalogue strength of wire rope



Size mm	Size inch	Part Number
11 – 13	7/16 - 1/2	WSOC-ME-0-127-G-NR198
14 - 16	⁹ /16 - ⁵ /8	WS0C-ME-0-158-G-G416
20 - 22	7/8	WS0C-ME-0-222-G-NR104
23 – 26	1	WS0C-ME-0-254-G-NR108
27 – 30	11/8	WSOC-ME-0-285-G-NR111

Spelter Socket – Open – G-416

- 100% Efficiency rating based on the catalogue
- strength of Wire Rope
- Ideal for cranes and drill rigs



Size mm	Size inch	Part Number
14 – 16	⁹ /16 - ⁵ /8	WS0C-ME-0-158-G-G416
18 – 19	3/4	WSOC-ME-0-190-G-G416
24 - 26	1	WS0C-ME-0-254-G-G416
28 - 30	11/8	WSOC-ME-0-285-G-G416
32 - 35	11/4 - 17/8	WSOC-ME-0-349-G-G416

Spelter Sockets – Closed – G-417

- Efficiency rating of 100% based on catalogue
- strength of wire rope
- Ideal for cranes and other fittings



Crosbu

Size mm	Size inch	Part Number
14 – 16	9/16 — ⁵ /8	WS0C-ME-C-158-G-G417
18	3/4	WSOC-ME-C-190-G-G417
20 - 22	7/8	WS0C-ME-C-222-G-G417
24 - 26	1	WS0C-ME-C-254-G-G417
28 - 30	11/8	WS0C-ME-C-285-G-G417





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WIRE ROPE, STRAND & FITTINGS

02

Swage Sockets – Open

- Efficiency rating of 100% based on catalogue strength of wire rope
 Not recommended for use with fibre core and Langs Lay ropes
- Ideal for use with 6X19 Class and 6X37
 Class wire rope and galvanised bridge rope



Size mm	Size inch	Part Number
11 – 13	1/2	WS0C-SW-0-130-B
24 - 26	1	WS0C-SW-0-254-G
24 – 26	1	WS0C-SW-0-254-B
28	11/8	WS0C-SW-0-285-B

Swage Sockets - Open

- Efficiency rating of 100% based on catalogue strength of wire rope
- Ideal for use with 6X19 Class
 and 6X37 Class wire rope
- and galvanised bridge rope • Not recommended for use with fibre core and Langs Lay ropes



Bullivants

Crosby

Size mm	Size inch	Part Number
9-10	3/8	WS0C-SW-0-095-B-S501
16	5/8	WS0C-SW-0-158-B-S501
18 – 20	3/4	WS0C-SW-0-190-B-S501
24 - 26	1	WS0C-SW-0-254-B-S501
28	11/8	WS0C-SW-0-285-B-S501

WIRE ROPE – FERRULES

Aluminium – DIN Grade 3093

- Used with both steel and fibre core wire rope
- Made of seamless aluminium
- Ideal for machine splicing
- Complies with DIN 3093

rrule Size mm	Part Number	Ferrule Size mm	Part Number
5	WFEA-015-D-S	30	WFEA-300-D-S
	WFEA-020-D-S	32	WFEA-320-D-S
5	WFEA-025-D-S	34	WFEA-340-D-S
	WFEA-030-D-S	36	WFEA-360-D-S
5	WFEA-035-D-S	38	WFEA-380-D-S
	WFEA-040-D-S	40	WFEA-400-D-S
5	WFEA-045-D-S	42	WFEA-420-D-S
	WFEA-050-D-S	44	WFEA-440-D-S
	WFEA-060-D-S	46	WFEA-460-D-S
5	WFEA-065-D-S	48	WFEA-480-D-S
	WFEA-070-D-S	50	WFEA-500-D-S
	WFEA-080-D-S	52	WFEA-520-D-S
	WFEA-090-D-S	54	WFEA-540-D-S
)	WFEA-100-D-S	56	WFEA-560-D-S
	WFEA-110-D-S	58	WFEA-580-D-S
-	WFEA-120-D-S	60	WFEA-600-D-S
	WFEA-130-D-S	66	WFEA-660-D-S
	WFEA-140-D-S	68	WFEA-680-D-S
;	WFEA-160-D-S	70	WFEA-700-D-S
	WFEA-180-D-S	74	WFEA-740-D-S
	WFEA-200-D-S	78	WFEA-780-D-S
-	WFEA-220-D-S	84	WFEA-840-D-S
	WFEA-240-D-S	90	WFEA-900-D-S
	WFEA-260-D-S	96	WFEA-960-D-S
	WFEA-280-D-S		

For other available sizes please contact your nearest Bullivants branch

Swage Sockets - Closed

- Efficiency rating of 100% based on catalogue strength of wire rope
- Ideal for use with 6X19 Class and 6X37 Class wire rope and galvanised bridge rope
- Not recommended for use with fibre core and Langs Lay ropes



Size mm	Size inch	Part Number
16	5/8	WSOC-SW-C-160-B
18	3/4	WSOC-SW-C-180-B
22	7/8	WSOC-SW-C-220-B
24	1	WSOC-SW-C-240-B
28.5	11/8	WSOC-SW-C-285-B
32	11/4	WSOC-SW-C-320-B

Swage Sockets - Closed

- Efficiency rating of 100% based on catalogue strength of wire rope
- Ideal for use with 6X19 Class and 6X37 Class wire rope and galvanised bridge rope
- Not recommended for use with fibre core and Langs Lay ropes



Size mm	Size inch	Part Number
9.5	3/8	WS0C-SW-C-095-B-S502
15.8	5/8	WS0C-SW-C-158-B-S502
12.7	1/2	WS0C-SW-C-127-B-S502
19.0	3/4	WS0C-SW-C-190-B-S502
22.2	7/8	WS0C-SW-C-222-B-S502
25.4	1	WS0C-SW-C-254-B-S502
32.0	11/4	WS0C-SW-C-320-B-S502

Copper – DIN Grade 3093

- Made with seamless copper
- Ideal for machine splicing
- stainless steel wire rope
- Complies with DIN 3093

Ferrule Size mm	Part Number	Ferrule Size mm	Part Number
1.5	WFEC-015-D-S	9	WFEC-090-D-S
2.0	WFEC-020-D-S	10	WFEC-100-D-S
3	WFEC-030-D-S	11	WFEC-110-D-S
3.5	WFEC-035-D-S	12	WFEC-120-D-S
4	WFEC-040-D-S	13	WFEC-130-D-S
4.5	WFEC-045-D-S	14	WFEC-140-D-S
5	WFEC-050-D-S	16	WFEC-160-D-S
6	WFEC-060-D-S	18	WFEC-180-D-S
6.5	WFEC-065-D-S	20	WFEC-200-D-S
7	WFEC-070-D-S	22	WFEC-220-D-S
8	WFEC-080-D-S		

For other available sizes please contact your nearest Bullivants branch

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HIGH PERFORMANCE SYNTHETIC ROPE	60
GENERAL PURPOSE SYNTHETIC ROPE	62
NATURAL FIBRE ROPE	63





CHOOSING THE RIGHT FIBRE ROPE

Fibre ropes can be identified as two main types: Synthetic Fibre & Natural Fibre

SYNTHETIC FIBRE TYPES

Synthetic ropes have seen exponential growth in recent years as they provide multiple benefits being lightweight, flexible and overall safe to use/handle.

Synthetic Fibre Ropes can be categorised into two types based on the Fibres used:

Class I - Polypropylene, Polyethylene, Nylon, Polyester

Tenacities of the Fibres <15g/Denier

Total Stretch at Break >6%

Class II - High Modulus Polyethylene (HMPE) (Dyneema®)

Tenacities of the Fibres >15g/Denier

Total Stretch at break <6%

Both **Class I and Class II** can be produced with 3 Strand, 8 Strand, 12 Strand, Single Braid, Double Braid and Core Dependant Braid varieties.

STRENGTH

Strength is one of the most important considerations when choosing the right Synthetic Rope and there is an enormous variation in fibres resulting in different strength capacities.

Most synthetic fibres have negligible water absorption however nylon fibres can lose up to 20% of their strength when wet. When a rope strength or minimum breaking load is referenced, it will always refer to the dry and unspliced condition.

The working capacity of a rope in conjunction with the safety factors determine the choice of an appropriate Synthetic Fibre Rope. In general working capacity = Minimum Breaking Load (MBL) divided by the Safety Factor (e.g. 10t MBL @ 5:1 Safety Factor = 2t working capacity).

Working capacity does not take into consideration shock loading or dynamic loading (e.g. sudden drops, snubs or long term sustained loads). A higher safety factor in such situations should be considered. If you are unsure, contact your nearest Bullivants branch for the appropriate advice.





ELONGATION

Ropes with higher elongation are typically used to provide some form of energy absorption in a system. Ropes with low elongation provide increased position control and less stored energy at a given load.

Note: Class I ropes (e.g. nylon, polypropylene, polyester) typically have higher elongation (more stretch) than Class II ropes (e.g. AmSteel[®]-Blue, Saturn-12).

FIRMNESS, CONSTRUCTION & ABRASION

The firmness of the rope is determined by the rope construction, manufacturing process and the number of strands. For applications that require durability, a firmer rope such as a 12 strand braided rope is often the most suitable construction. 12 strand ropes tend to flatten and distribute wear over a greater area.

DIAMETER

To ensure maximum service life particularly where the rope fit is critical, the diameter is a very important consideration. All rope diameters are Nominal values and a fibre rope decreases in diameter after initially placed in use. This is termed 'Bedding in' and the amount varies depending on the fibre type and rope construction.

DYNAMIC LOADING

Normal working loads are not applicable when a rope is or has been subjected to significant dynamic loading. Its dynamic nature allows the rope to absorb the energy faster than a static rope when a load is picked up, stopped or swung, making the breaking force of the rope higher than the actual load.

The more sudden or rapid these actions occur, the greater the dynamic loading will result in permanent stretch and can weaken the rope. This is an important factor when choosing a rope as the working loads do not apply when used in such applications as towing lines, lifelines, safety lines and climbing ropes.

SYNTHETIC ROPE COMPARISON CHART

GENERIC FIBRE TYPE	HIGH MODULUS POLYETHYLENE (HMPE)	NYLON	POLYPROPYLENE	POLYETHYLENE
Tenacity (g/den)	40	7.5 - 10.5	6.5	-
Elongation	3.6%	15 - 28%	18 - 22%	23 - 26%
Coefficient of Friction (resistance to slipping)	0.05 - 0.07 (Very low)	0.12 - 0.15 (Medium)	0.15 - 0.22 (Medium)	-
Melting Point	149°C	218 - 254°C	166°C	135°C
Critical Temperature (Degradation caused by temperature)	65.5°C	163°C	121°C	80°C
Specific Gravity	Floats	Sinks	Floats	Floats
Application	Yachting, towing, winches, marine, rigging and specific lifting applications	Towing strops, anchor lines for small boats	General purpose tying, fishing, water ski ropes	General industrial, marine
Advantages	High strength to weight ratio, UV stable, high abrasion resistance, low stretch	Good UV and abrasion resistance, rot and mildew resistant	Floats, inert when exposed to chemicals, resists rot and mildew and UV resistance	Excellent handling properties, superior splicing efficiency in medium and soft lay
Disadvantages	Low melting point, low coefficient of friction – Results in less gripping	Sinks, loses strength when wet, not suitable for uses which require dimensional stability like rigging, degrades in high heat	Lower strength, sensitive to UV degradation, slippery (knots can come undone). Not recommended where rope is subjected to high stresses	Low melting point, higher stretch

FIBRE ROPE

CLASS I SYNTHETIC ROPES

These are traditional fibres and result in ropes with lower unit weight and higher stretch.

Typical usage:

Polypropylene Rope (PP rope):

- Rope of choice when used in water primarily owing to its rot proof and floating properties
- Very high fatigue resistance
- Wide range of colours available

Polyethylene Rope (PE rope):

- Rope of choice when splicing efficiency is of paramount importance, for example fishing industry and truck tarps
- · Better handling and abrasion properties
- Better fungal resistance properties
- · Generally available in white colour
- Commonly referred to as Silver Rope because of its shiny appearance

Polyamid Rope (Nylon):

- Rope of choice especially where shock or dynamic loading is involved
- Good UV resistance
- Good abrasion resistance
- Not suitable for rigging application or where dimensional stability is important.
- Absorbs water when wet and sinks
- Very high melting point

CLASS II SYNTHETIC ROPES (DYNEEMA®)

These are new technology ropes with very low stretch and very high strength to weight ratio. Also, being lightweight, they have proven to be excellent replacements for steel wire ropes. Synthetic ropes provide better characteristics in terms of construction, due to their zero twist features.

AmSteel®-Blue is a benchmark worldwide for 12-Stranded Class II Single Braided Ropes.

AmSteel®-Blue is manufactured by Samson Rope Technologies Inc, USA with a 140 year history of manufacturing ropes. Samson pioneered the manufacture of Double Braided ropes in 1957.

WHAT IS A BRAIDED ROPE?

A braided rope construction has an equal number of left handed and right handed strands intertwined together (e.g. 8-Strand and 12-Strand construction). This is different from a laid rope which twists in a specific direction (either left or right hand).



WHAT IS THE ADVANTAGE OF A BRAIDED ROPE OVER A LAID ROPE?



A braided rope is 'Torque Free' which means that the rope will not twist under load. A laid rope can be torque balanced in a certain load range but it has a natural tendency to twist until it reaches a torque balanced state, making a braided rope safer to use.



03

BRAIDED ROPE TYPES

Bullivants' range consists of Single Braided Class II AmSteel®-Blue, Saturn-12 and Fusion-X braided ropes. Classes of Double Braided Class II Fibre Ropes are also available on request.

AMSTEEL®-BLUE – 12-STRANDED CLASS II SINGLE BRAIDED ROPE (HMPE):

- Made from Dyneema® Fibre Rope (HMPE)
- Torque Free
- One Seventh of the weight of a Steel Wire Rope with similar breaking strength
- High flex-fatigue resistance
- Special Samthane coating provides a higher abrasion resistance and firmness, and improves service life. This coating enhances the abrasion and cut resistance

Standard colour: Blue.

Also available in Red, Black and Orange on request.

Available diameters: 2.5 to 88mm.

Larger sizes available on request.

Splice type: 12-Strand Class II.

Applications: Rigging accessories, winch lines, slings and pulling lines.

SATURN-12 – 12-STRANDED CLASS II SINGLE BRAIDED (HMPE)

- Made from Dyneema® Fibre Rope (HMPE)
- Same qualities as AmSteel®-Blue but has a special Samthane coating which increases the residual strength by 15 - 20%
- Ropes have excellent UV resistance and improved service life in applications where long term static loads results in creep

Standard colour: Orange.

Splice type: Modified Tuck Bury Class II.

Applications: Marine usage and static loads.

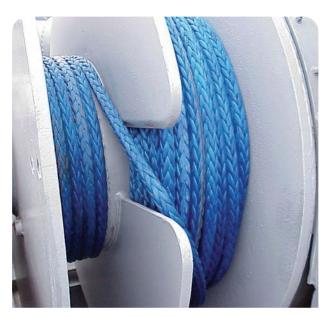
FUSION-X – 12-STRANDED CLASS II SINGLE BRAIDED BLEND OF HMPE & POLYESTER

- Best of both worlds Blend of HMPE and polyester
- Best suited for winches
- Can be downsized to store longer lengths on winches than 100% polyester lines
- Increased abrasion resistance
- Reduced elongation
- Does not float
- Lower cost per tow than 100% polyester line

Standard colour: Green/Blue.

Splice Type: 12-Strand Class II.

Applications: Excellent performance for Tug Pendant/ Stretcher, main tug line and general working lines.







FIBRE ROPE

CHOOSING THE RIGHT TUG ROPE SYSTEM

Each component needs to be perfectly suited to its duty in order for the full system to provide greater efficiencies, easier handling, and longer service life. The tow line needs to evolve to take full advantage of the tugs capabilities and capacities.

GAPOR

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Bullivants' tug rope range are made from high performance Dyneema® HMPE fibres which are lightweight, strong and dependable.

The Pendant

The Pendant, also known as the Pennant, is the business end of the line and is designed to be sacrificial and able to withstand tension as long as possible. It is designed to take the brunt of the abrasion to help lessen the possibility of damage to this critical section of the tow line.

Saturn-12, with its proprietary coating that reduces internal and external abrasion, is UV stabilised and a good match for the rigors of duty as a towing pendant. Combining this with DC Gard for additional chafe protection provides a durable and strong pendant in load areas.

Backer Line

The tow line system starts with the backer (also known as backing) line. This secures the main line to the winch drum if the main line has a low coefficient of friction. Backer lines make end-for-end procedures significantly easier. Simply un-splice the eye and re-splice it at the other end of the mainline removing the need to use a clamp.

Main Line

This is the main strength member of the system and its longest component. It needs to be strong and dependable, yet lightweight and easy to handle by deck crew. Saturn-12 has proven to be the superior rope in this application.

For modern tugs working with conventional or render/recover winches, high performance Fusion-X is a new technology and the best choice as it is a lightweight, easy to inspect and splice, flexible, longer lasting crew-friendly alternative.



Mooring Lines

Mooring lines need to be dependable in order to safely secure the vessel to bollards. Chafe protection in the eyes should be fitted wherever there is the opportunity for friction to take place. Considerations are tensile strength, chafe resistance and UV resistance.

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NATURAL FIBRE TYPES

SISAL ROPE

- Individual fibres are shorter than Manila and prone to splintering
- Excellent resistance to sunlight
- 'Hairy finish' makes them excellent for use where grip is important

Applications: Tag lines for riggers and general purpose non-lifting.

- Little or no stretch
- Must be stored in dry conditions to prevent mildew
- Available in 4 to 24mm diameter sizes
- Not to be used for lifting



MANILA ROPE

- Individual fibres are longer than Sisal
- Has good strength to size ratio
- Very good knot tying ability
- Can be spliced easily and can withstand repeated wetting and drying cycles
- Measured under tension during production so it might
 appear oversized prior to use
- Highly resistant to saltwater
- Available in 6 to 24mm diameter sizes
- Will shrink in length and expand in diameter when wet, and lengthen as it dries
- A wet knot will become tighter and less likely to slip, give way or untie
- Not to be used for lifting

Applications: Tag Lines, sailing and marine use (due to resistance to saltwater), children's playgrounds, gym ropes and barrier fencing ropes.



FIBRE ROPE

HIGH PERFORMANCE SYNTHETIC ROPE

AmSteel®-Blue

- Fibre: Dyneema® SK78
- Specific Gravity: 0.98 (floats)
- Splice: 12-Strand Class II
- Torque free construction
- 12-strand single braid that yields the maximum in strength to weight
- ratio and, size for size, is the same strength as steel wire rope
- Excellent wire rope replacement
- Extremely low stretch
- Excellent abrasion resistance
- Highly flex fatigue resistant
- Samthane coated
- Similar elastic elongation to wire rope
- Ideal for Recovery slings, tug pendant, mainlines, winch lines,
- longwall shield haulers, stringing line & lifting slings
- Approved by ABS, BV, DNV, LLYODS

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Dia. mm	ISO 2307 Strength MT	Weight kg/100m	Part Number
2.5*	0.73	0.45	WU1-0025-RB
4*	1.8	1.1	WU1-004-RB
6	3.9	2.4	WU1-006-RB
8	6.2	4.0	WU1-008-RB
9	8.9	5.1	WU1-009-RB
12	15.4	8.8	WU1-012-RB
14	18.4	11.8	WU1-014-RB
16	24.0	15.2	WU1-016-RB
18	29.2	19.8	WU1-018-RB
22	41.2	29.2	WU1-022-RB
26	60.8	40.9	WU1-026-RB
30	74.8	53.9	WU1-030-RB
36	103.0	76.9	WU1-036-RB
42	139.0	106.0	WU1-042-RB
56	244.0	173.0	WU1-056-RB
64	300.0	248.0	WU1-064-RB
88	662.0	506.0	WU1-088-RB

Other colours available on request *Sizes available on request

Fusion-X

- Fibre : Dyneema SK78 and Polyester
- Stronger and lighter than lines made
- of 100% polyester
- Easy to inspect
- Easy twist identification
- Improved abrasion resistance
- Lower cost per tow
- Reduced elongation compared to polyester • Size for size, pulls heavier loads than traditional polyester lines



Saturn-12

- Fibre: Dyneema® SK78
- Specific Gravity: 0.98 (floats)
- Floats
- Splice: 12-Strand Class II





• Torque free construction, 12 strand single braid that yields the maximum in strength to weight ratio and size for size, is the same strength as steel

- Light weight, high strength and low stretch
- Excellent wire rope replacement
- Samthane coated
- Easy to handle, inspect and splice in the field • Ideal for recovery slings tug pendant, mainlines and winch lines

Dia. mm	ISO 2307 Strength MT	Weight kg/100m	Part Number
24	26.4	37.8	WUD-FUSX-024-RG
72	208.0	298.0	WUD-FUSX-072-RG
80 88	236.0	338.0	WUD-FUSX-080-RG
88	305.0	436.0	WUD-FUSX-088-RG

Dia. mm	ISO 2307 Strength MT	Weight kg/100m	Part Number
12	15.4	8.8	WU9-012-R0
18	29.2	19.8	WU9-018-R0
36	103.0	76.9	WU9-036-R0
44	152.0	117.0	WU9-044-R0

DC GARD[™] ROPE CHAFE PROTECTION

DC Gard $^{\scriptscriptstyle \mathbb{M}}$ is a braided Dyneema $^{\scriptscriptstyle (\! 0\!)}$ cover that is spliced onto the main rope to protect it from wear and abrasion in specific areas. DC Gard[™] provides maximum protection for working ropes.



Code	Suitable for Rope diameters
WUP-706C	Suits 24-30mm Dia. Rope
WUP-706D	Suits 32-44mm Dia. Rope
WUP-706E	Suits 45-60mm Dia. Rope
WUP-706F	Suits 64-76mm Dia. Rope
WUP-706G	Suits 80-104mm Dia. Rope

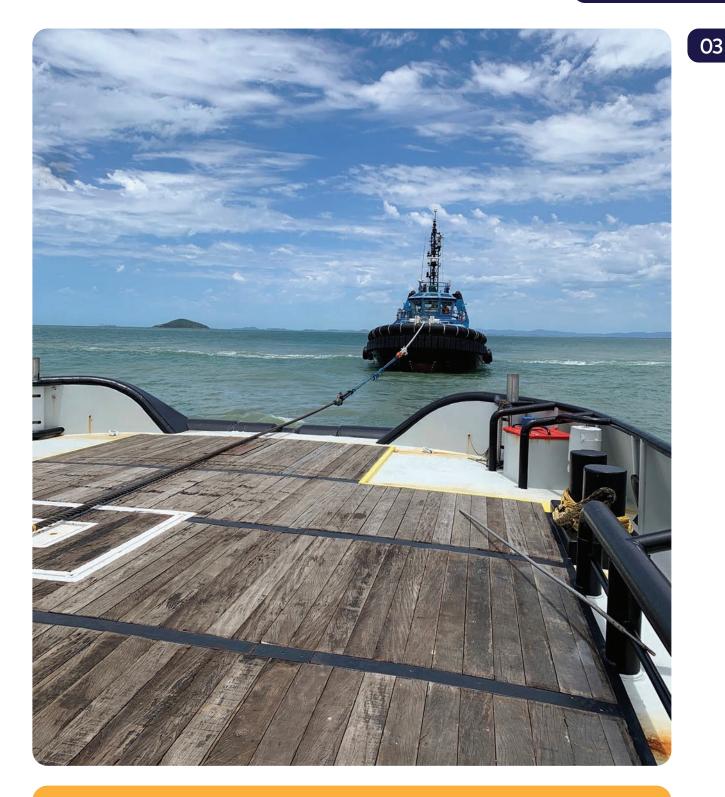
Contact your nearest Bullivants branch for more information on 1300 LIFTING.







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DC MOOR-GARD S

- A braided tubular sleeve made of 100% HMPE fibre that offers excellent chafe protection for high performance ropes.
- Reverse twisted construction aligns the internal fibres with the axis of the rope to reduce friction between the rope and the chafe guard.
- Finished off with a durable back-splice which provides ease of handling for positioning the sleeve onto the line at known wear areas.
- The Pull Straps are easily removable for rope inspection.



Description	Part Number
1"-1-3/4" Dia, Size E, 10Ft	WUP-705E
24-44mm Dia, Size E, 3Ft	WUP-705EBS3FT
45-56mm Dia, Size F, 10Ft	WUP-705F
Available on request	

FIBRE ROPE

GENERAL PURPOSE SYNTHETIC ROPE

Polypropylene Green Rope

- Tough, extremely strong
- and easy to work and knot • UV stabilised with excellent
- weathering properties • Suitable for a range of industrial areas, particularly marine,
- construction, mining, rural, commercial fishing and petroleum



Bullivants

Dia. mm	Min. Breaking Force kN	Length m	Туре	Part Number
6	5.9	250	Coil	WF-060-CG-250M
8	9.9	250	Coil	WF-080-CG-250M
10	15	250	Coil	WF-100-CG-250M
12	21	250	Coil	WF-120-CG-250M
16	36	250	Coil	WF-160-CG-250M
20	50	250	Coil	WF-200-CG-250M
24	78.4	250	Coil	WF-240-CG-250M

Available in coils and on reels on request For more information contact your Sales Representative or Customer Service Centre

Polypropylene Blue Rope

- Tough, extremely strong and easy to work and knot
- UV stabilised with excellent weathering properties
- Suitable for a range of industrial areas, particularly marine, construction, mining, rural, commercial fishing and petroleum



Bullivants

Dia. mm	Min. Breaking Force kN	Length m	Туре	Part Number
4	2	300	Reel	WF-040-FB-300M
6	5.9	250	Reel	WF-060-FB-250M
8	9.9	250	Reel	WF-080-FB-250M

Polypropylene Blue/Yellow **Cable Hauling Rope**

- Cable haul rope Telstra
- approved for duct work • Will roll out without
- tangling or snagging
- Suitable for use in communication
- industry For pulling cable underground



Dia. mm	Min. Breaking Force kN	Length m	Part Number
6	5.9	400	WF-060-CB-400M-TEL

Polypropylene **Marinetech Rope**

• High strength, low abrasion fibre rope

- to reliably meet rigours of diverse applications • Fibre is a blend of compatible polyethylene
- and polypropylene fibres, specially processed combining the key features
- of each individual fibre • Colour: Green with gold flecks
- Suitable for mining, marine, fishing and general purpose applications



Bullivants

Dia. mm	Min. Breaking Force kN	Length m	Туре	Part Number
6	6.38	250	Coil	WFP-060-CG-250M
8	11.77	250	Coil	WFP-080-CG-250M
10	16.68	250	Coil	WFP-100-CG-250M
12	21.58	250	Coil	WFP-120-GY-250M
14	30.41	250	Coil	WFP-140-GY-250M
16	42.97	250	Coil	WFP-160-GY-250M
20	49	250	Coil	WFP-200-CG-250M

Other sizes available on request

Blueline Maxima Rope

- High strength, low abrasion fibre rope to reliably meet rigours of
- diverse applications · Low stretch and good knot retention
- Floats on water, zero absorption
- Colour: White with blue flecks • Suitable for a range of industrial
- areas, particularly marine, construction, mining, rural and commercial fishing





Dia. mm	Min. Breaking Force kN	Length m	Туре	Part Number
4	3.92	250	Coil	WJM-040-CW-250M
6	6.38	250	Coil	WJM-060-CW-250M
6	6.38	250	Reel	WJM-060-RW-250M
8	11.77	250	Coil	WJM-080-CW-250M
8	11.77	125	Reel	WJM-080-RW-125M
10	16.68	250	Coil	WJM-100-CW-250M
10	16.68	125	Reel	WJM-100-RW-125M
12	21.58	250	Coil	WJS-120-CW-250M
12	21.58	125	Reel	WJS-120-RW-125M
12	21.58	250	Reel	WJS-120-RW-250M
14	30.41	250	Coil	WJS-140-CW-250M
16	42.97	125	Coil	WJS-160-CW-125M
16	42.97	250	Coil	WJS-160-CW-250M
18	45.13	125	Coil	WJS-180-CW-125M
20	50.03	125	Coil	WJS-200-CW-125M
24	73.58	125	Coil	WJS-240-CW-125M
24	73.58	250	Coil	WJS-240-CW-250M



Bullivants

03

Bullivants

Polyethylene Silver Rope

- Strong and versatile with excellent handling properties due to its surface characteristics
- Suitable for general and industrial applications, particularly in marine industries where high resistance to abrasion is required



Dia. mm	Min. Breaking Force kN	Length m	Туре	Part Number
6	3.6	250	Coil	WE-060-CW-250M
6	3.6	300	Reel	WE-060-RW-300M
8	6	250	Coil	WE-080-CW-250M
8	6	200	Reel	WE-080-RW-200M
10	9	250	Coil	WE-100-CW-250M
10	9	125	Reel	WE-100-RW-125M
12	12.2	250	Coil	WE-120-CW-250M
16	20	125	Coil	WE-160-CW-125M
20	30	250	Coil	WE-200-CW-250M
24	43	250	Coil	WE-240-CW-250M

Rope available in coils and on reels on request

NATURAL FIBRE ROPE

Sisal Rope

- Tough, versatile fibre; strong and economical
- Suitable for mining, truck tarping, tag lines and general industrial applications

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Dia. mm	Min. Breaking Force kN	Coil Length m	Part Number
4	1.08	300	WL-040-F-300M
6	1.47	250	WL-060-C-250M
8	3.24	250	WL-080-C-250M
10	4.12	250	WL-100-C-250M
12	7.11	250	WL-120-C-250M
14	8.83	250	WL-140-C-250M
16	12.18	250	WL-160-C-250M
18	13.21	250	WL-180-C-250M
20	14.49	250	WL-200-C-250M
24	16.67	250	WL-240-C-250M
36	63.74	125	WL-360-C-125M

Not to be used for lifting

Nylon Rope

- Exceptional strength, extension and recovery characteristics
- Easy to handle and knot
- Suitable for general and industrial applications, particularly marine and shipping where performance, high strength and good elasticity are required



Dia. mm	Min. Breaking Force kN	Length m	Туре	Part Number
6	6.38	250	Coil	WN-060-C-250M
6	6.38	100	Reel	WN-060-F-100M
8	8.83	100	Reel	WN-080-F-100M
10	18.64	250	Coil	WN-100-C-250M
10	18.64	100	Reel	WN-100-F-100M
12	24.53	250	Coil	WN-120-C-250M
12	24.53	100	Reel	WN-120-F-100M
16	39.24	250	Coil	WN-160-C-250M

Rope available in coils and on reels on request For more information contact your Sales Representative or Customer Service Centre

Manila Rope

- Hard wearing, low stretch, general purpose rope; manila
- is the strongest of natural fibres • Superior to sisal rope in resistance to weathering, fungal attack and moisture
- Suitable for marine, shipping, mining, tag lines and general industrial applications





250 250 250	WM-060-C-250M WM-080-C-250M WM-100-C-250M
250	WM-100-C-250M
	TTTT 100-0-20010
250	WM-120-C-250M
250	WM-160-C-250M
250	WM-180-C-250M
250	WM-200-C-250M
250	WM-240-C-250M
	250 250

Not to be used for lifting





LIFTING & RIGGING COMPONENTS

SHACKLES	72	COLLARED EYEBOLTS/EYENUTS	84
	77		86
RIGGING SCREWS	80	LIFTING POINTS	86
LIFTING CLUTCH	81	BALUSTRADING ACCESSORIES – STAINLESS STEEL	94
SHEAVE BLOCKS	82	HOOKS – STAINLESS STEEL	94
SNATCH BLOCKS	82	EYEBOLTS/SCREWS/NUTS – STAINLESS STEEL	95





CHOOSING THE RIGHT LIFTING & RIGGING COMPONENTS

With our wide range & variety of shackles, eyebolts, turnbuckles, rigging screws, lifting points, concrete lifting clutches & stainless steel fittings to safely connect your equipment.

SHACKLES

A shackle is used for interconnecting components in lifting, tensioning and staying systems. A shackle consists of a body, a removable pin and a locking device (where applicable).

These are available in rated and non-rated types.

Rated shackles are suitable for lifting and conform to AS 2741 or relevant international standards.

Non-rated shackles are not approved for lifting and may include commercial, stainless steel, DIN Grade or shackles that are designed for use for marine or mooring applications.



SHACKLES CONSIST OF TWO MAIN PARTS:

Shackle Body

The body can be Bow type (also known as Anchor type) or Dee type (also known as Chain type). The diameter of the material used to manufacture the body determines the nominal shackle size.

Shackle Pin

The most common types are Screw Pin or Safety (Bolt type) Pin shackles.

The different combinations of bodies and pins results in four main types of shackles and your choice for the application will depend on the type of lifting or pulling operation being undertaken.

- 1. **Screw Pin Bow Shackles:** Used in temporary, multiple (max 60° angle) and single attachment point applications
- 2. Screw Pin Dee Shackles: Used in temporary, single attachment point applications
- 3. **Safety Pin Bow Shackles:** Used in semi-permanent, multiple (max 60° angle) and single attachment point applications
- 4. **Safety Pin Dee Shackles:** Used in semi-permanent, single attachment point applications













Safety Pin Bow Shackle – Grade S Screw Pin Bow Shackle – Grade S Screw Pin Dee Shackle – Grade S Screw Pin Dee Shackle – Commercial

Screw Pin Dee Shackle – Grade M

Grade M Rated Shackle: Commonly only available in the Dee type and often used in the marine industry. Complies with AS 2741.

Grade T Rated Shackle: Higher Working Load Limit (WLL) than Grade S. Used for applications where a smaller shackle is required to reduce size and weight, or for attachment to a specific sized connection point where a Grade S shackle will not fit. Complies with RR.C.271.

Grade S Rated Shackle: Twice the Working Load Limit (WLL) than Grade M. These largely supersede the Grade M Shackles in most applications. Complies with AS 2741.

Commercial and Stainless Steel Shackles: Not to be used for lifting or rated applications. There are no Working Load Limit (WLL) markings on commercial or stainless steel shackles.

LIFTING SHACKLES CAN ALSO BE CLASSIFIED ACCORDING TO THE GRADE

- Made from Alloy Grade Steel and can be used in lifting applications
- Each shackle is marked with its manufacturer identification Working Load Limit mark, grade and batch number
- Grade S shackles are available in hot dip galvanised finish
- Grade M shackles are available in both hot dip galvanised and black finish

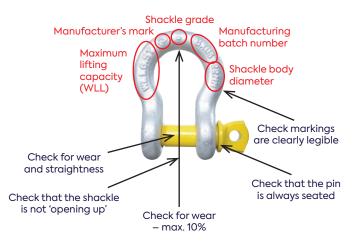
CARE & USE

Shackles are a vital link in complex lifting systems and it is important that correct care be taken.

The most important parameters to look for in a rated shackle are:

- · Ensure that all markings are clearly legible
- Ensure pin is the correct type. Never replace the pin of a shackle with a bolt
- Ensure the threads of the pin and body are undamaged and the pin screws freely into position and tightens securely
- Ensure the body and pin are not unduly worn (more than 10%) and free from distortion, nicks, gouges, cracks, excessive wear and corrosion
- Ensure the pin is screwed tightly with the collar and the pin is bedded evenly on the surface of the shackle eye (hand tight then back ¼ turn)
- Ensure the correct type of shackle is used for the application
- Ensure a bolt type shackle has a split/cotter (safety pin) attached correctly
- Shackles should not be heat treated as this may affect their Working Load Limit (WLL)

 Never modify, repair or reshape a shackle by welding, heating or bending as this will affect the Working Load Limit (WLL). If a shackle has been heated or bent it must be removed from service and discarded.



LIFTING POINTS

04

Lifting points are available in either bolt-on or weld-on types and can be used for lifting, load restraint or towing/ recovery operations. Unlike standard eyebolts, many lifting points swivel so they can align with the load direction. Most lifting points do not have the same de-ratings when loaded at an angle compared to a standard Grade-4 eyebolt.

Bolt-on or Weld-on lifting points are typically available in Grade 80, Grade 100 and Grade 120 material specification and are offered in several different configurations for use in various applications.

Bolt-on types are typically available in Metric or UNC Imperial thread patterns and can offer standard bolt length or long bolt options.

Caution: Welded lifting points are only as strong as the welding that is used to attach them. All weld-on lifting points are provided with welding instructions and these must be followed as outlined by the manufacturer. (Must always be attached/ installed by a certified welder.)

CARE & USE

Care should be taken to ensure that lifting points are not screwed into threaded holes of a different size or type of thread. Be aware of mismatched threads.

Lifting points should be screwed down flush to the face of the lifted load. However excessive tightening of points should be avoided.

Lifting points are designed to accept lifting devices directly as such they do not need to be attached via a shackle first.

Connect lifting point and apply a light load to ensure free orientation of the swivel eye.





G120

G80

G100

EYEBOLTS

Eyebolts are used to create attachment points commonly in steel structures for lifting, load restraint and towing/ recovery applications. They have a male thread designed to screw into a threaded hole.

- Commonly used with a shackle to connect a lifting device to a structure
- Eyebolts are measured according to their thread size and are commonly available in Metric or Imperial thread types
- Eyebolts should be fastened flush to the surface of the item that the eyebolt is attached to



UNC Thread

CARE & USE

- Threads of the Eyebolt and Hole must match both in size, thread and pitch type
- Ensure the Working Load Limit (WLL) of the eyebolt is within the capacity of the load being lifted
- Do not tighten the Eyebolt excessively but leave a gap of less than 0.04mm between the collar and the face of the load
- Eyebolt should be aligned with the line of the load to minimise any chance of transverse (side) loading
- Never shock load eyebolts
- Eyebolts should be periodically inspected by a competent person according to Australian Standard AS 2317.1

TYPES

Rated Forged Collared Eyebolts:

- Grade-4 Suitable for lifting
- In accordance with AS 2317.1
- Safety factors of 6:1
- Marked with manufacturer's identification, thread type, nominal size and Working Load Limit (WLL) force indicators

DIN Standard 580 Eyebolts:

- Not approved for lifting purposes
- Do not conform to AS 2317.1
- Normally supplied with Metric Coarse thread

Commercial and Stainless Steel Eyebolts:

• Should not be used for lifting or supporting loads

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RIGGING SCREWS & TURNBUCKLES

Rigging Screws (also known as Bottle Screws) and Turnbuckles are components to provide means of length adjustment and tensioning in longitudinal structures, masts, guy wires and other similar structures and engineering applications.

Rigging Screws and Turnbuckles can tension assemblies without introducing twisting due to the end fittings consisting of left hand and right hand threads respectively which prevents torque build up.

Rigging Screws

- Have an enclosed body concealing the threaded section
- Manufactured according to Australian Standard AS 2319 (Safety factor of 6:1)
- Typically longer threads for length adjustment
- Enclosed tubular sections can help prevent lubricant wash off, but harder to inspect threads

Applications: Marine rigging, outdoor balustrading, permanent outdoor guy wires and lifting slings.

Turnbuckles

- Turnbuckles have an open body exposing the threaded section
- Manufactured according to Australian Standard AS 2319 (Safety factor of 6:1)
- Generally smaller size range and shorter adjustment
- Can be tightened under load and better scope for locking while in service
- More easily inspected in-situ when compared to rigging screws

Applications: Indoor tensioning systems, general rigging tensioning.



TYPES

Rated Turnbuckles and Rigging Screws to AS 2319: Available in Grades L, P and S and can be used for lifting applications.

Commercial/Stainless Steel Turnbuckles and Rigging Screws: Are not manufactured to any standards and are designed for tensioning in non-rated and non-critical applications.

END TERMINATIONS

Turnbuckles and Rigging Screws: come with several options of end terminations such as Eye & Eye, Jaw & Jaw, Jaw & Eye, Hook & Eye, Hook & Hook etc. depending on the application.



RIGGING SCREW/TURNBUCKLE

The following factors are to be considered when choosing the right Rigging Screw/Turnbuckle for the application:

Capacity

Larger thread diameters have a greater load bearing capacity than lower thread diameters (note: different grades also have different capacities size for size).

Take Up Length

This refers to the total length that the end fittings can screw in and out of the turnbuckle body to create the appropriate tension. To increase the total take up length required, two or more turnbuckles in line may be considered.

Temporary or Permanent Loads

Rigging Screws are more suitable for permanent loads than turnbuckles and both can be specified with locking nuts.

Sizing Rigging Screws to other Rigging Components

Turnbuckles should be up-sized to a capacity that matches or exceeds the Working Load Limit (WLL) of the rest of the assembly.

Locking and Application Considerations

If the application subjects the turnbuckle to vibration, the end fittings can be locked by locking wire or locking nuts. This is not a recommended practice for critical applications.



CONCRETE LIFTING CLUTCH

These are devices used for connecting precast concrete elements with a compatible lifting insert cast into the substrate. Using a compatible concrete face clutch or edge lifter (aka 'Donuts') allows for safe lifting of concrete elements such as:

- Drainage pits and sewerage manholes
- Slabs

04

Panels

- Road barriers
- Bridge and tunnel elements
- Piles, poles, and pipes

The design and manufacture of lifting clutches should be as per AS 3850.1 and when correctly attached eliminates the possibility of inadvertent clutch release while under load during operations.

Each lifting clutch is proof tested, certified, and uniquely identified with a serial number prior to being placed into service. Various sizes and types are available to suit load ratings ranging from 1.3t up to 40t.



CARE & USE

Concrete clutches can be connected in several ways depending on the concrete element's shape, weight, and machinery used to conduct the lift. Lifting arrangements should be as per the erection documentation.

- Loaded from a central point using slings with a maximum internal angle between the legs limited to 60°
- Distributed across a spreader beam, or equalising triangles ('Monkey Faces') as a means of equalising forces within the chain legs
- Using sheave blocks with slings (wire rope or HMPE) in equalised loading, and mid-air rotation lifts
- Care should be taken to ensure that concrete lifting clutches are compatible to the WLL of the lifting insert
- Concrete lifting clutches should be securely connected to the face of the lifted load, with the tabs correctly orientated as per rigging plan
- Face-lifted prefabricated concrete elements are designed to hang not more than 10° from the vertical. If this is not possible, an alternative method of lifting using edge-lifting, or a combination of face and edge-lifting is required

Care should be taken to ensure the appropriate sling angle factor is incorporated into the WLL calculation when selecting equipment as per the erection documentation.

WHY INSPECTION IS IMPORTANT

To conform with AS 3580.1, Concrete Lifting Clutches shall be inspected and proof load tested every 12 months, by a competent person.

Inspection records should be maintained for every lifting clutch and the records should include the following:

- Identification number (serial) of each clutch assembly
- Inspection organisation carrying out the 12-monthly inspection
- Name of the competent person carrying out the inspection
- Inspection method used (including NDT method, if used)
- Results of the inspection e.g. pass or fail

Prior to each use of a concrete clutch, you have a duty of care to check for the following:

- Identification information is clear and legible, this includes – A unique identifier (traceable to the proof tests), the manufacturer's symbol or name, its WLL or compatible anchor identifier.
- Visual inspection of the concrete clutch to check for wear and deformation to the supplier's specification.
- Check records to ensure the concrete clutch has undergone a proof load test within the previous 12 months, commencing from the date of first use.

There's ZERO HARM in thinking about SAFETY





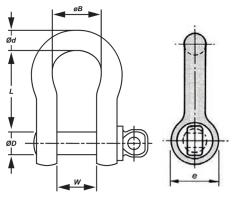
SHACKLES – LOAD RATED

Screw Bow Shackles – Alloy Grade S – Galvanised

Bullivants

• Complies with AS 2741

04



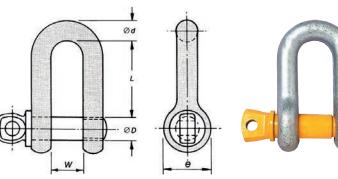


WLL t	Ød mm	ØD mm	W mm	ØB mm	L mm	e mm	Part Number
0.33	5	6	10	15	22	14	WSS-0003-SC-B
0.50	6	8	12	20	29	17	WSS-0005-SC-B
0.75	8	10	13	21	31	21	WSS-0007-SC-B
1.00	10	11	17	26	37	25	WSS-0010-SC-B
1.50	11	13	18	29	43	27	WSS-0015-SC-B
2.00	13	16	21	33	48	33	WSS-0020-SC-B
3.20	16	19	27	43	61	40	WSS-0032-SC-B
4.70	19	22	32	51	72	48	WSS-0047-SC-B
6.50	22	25	37	58	84	54	WSS-0065-SC-B
8.50	25	29	43	68	95	60	WSS-0085-SC-B
9.50	29	32	46	74	108	67	WSS-0095-SC-B
12.00	32	35	52	83	119	76	WSS-0120-SC-B
13.50	35	38	57	92	133	84	WSS-0135-SC-B
17.00	38	41	60	98	146	92	WSS-0170-SC-B
25.00	44	51	73	127	178	110	WSS-0250-SC-B
35.00	51	57	83	146	197	127	WSS-0350-SC-B
55.00	64	70	105	184	267	152	WSS-0550-SC-B

Screw Dee Shackles – Alloy Grade S – Galvanised

• Complies with AS 2741

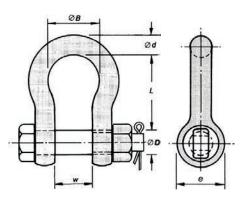




WLL t	Ød mm	ØD mm	W mm	L mm	e mm	Part Number
0.50	6	8	12	22	17	WSS-0005-SC-D
0.75	8	10	13	26	21	WSS-0007-SC-D
1.00	10	11	17	32	25	WSS-0010-SC-D
1.50	11	13	18	37	27	WSS-0015-SC-D
2.00	13	16	21	41	33	WSS-0020-SC-D
3.20	16	19	27	51	40	WSS-0032-SC-D
4.70	19	22	32	60	48	WSS-0047-SC-D
6.50	22	25	37	71	54	WSS-0065-SC-D
8.50	25	29	43	81	60	WSS-0085-SC-D
9.50	29	32	46	90	67	WSS-0095-SC-D
12.00	32	35	52	100	76	WSS-0120-SC-D
13.50	35	38	57	113	84	WSS-0135-SC-D
17.00	38	41	60	124	92	WSS-0170-SC-D
25.00	44	51	73	146	110	WSS-0250-SC-D
35.0	51	57	83	171	127	WSS-0350-SC-D
55.0	63	70	105	203	153	WSS-0550-SC-D

Safety Bow Shackles – Alloy Grade S – Galvanised

• Complies with AS 2741



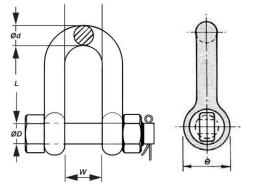


Bullivants

WLL t	Ød mm	ØD mm	W mm	ØB mm	L mm	e mm	Part Number
2.00	13	16	21	33	48	33	WSS-0020-SA-B
3.20	16	19	27	43	61	40	WSS-0032-SA-B
4.70	19	22	32	51	72	48	WSS-0047-SA-B
6.50	22	25	37	58	84	54	WSS-0065-SA-B
8.50	25	29	43	68	95	60	WSS-0085-SA-B
9.50	29	32	46	74	108	67	WSS-0095-SA-B
12.00	32	35	52	83	119	76	WSS-0120-SA-B
13.50	35	38	57	92	133	84	WSS-0135-SA-B
17.00	38	41	60	98	146	92	WSS-0170-SA-B
25.00	44	51	73	127	178	110	WSS-0250-SA-B
35.00	51	57	83	146	197	127	WSS-0350-SA-B
42.50	57	63	95	160	222	143	WSS-0425-SA-B
55.00	63	70	105	184	267	152	WSS-0550-SA-B
85.00	76	83	127	200	330	165	WSS-0850-SA-B
120.00	89	95	146	241	381	203	WSS-1200-SA-B

Safety Dee Shackles – Alloy Grade S – Galvanised

• Complies with AS 2741





WLL t	Ød mm	ØD mm	W mm	L mm	e mm	Part Number
2.00	13	16	21	41	33	WSS-0020-SA-D
3.20	16	19	27	51	40	WSS-0032-SA-D
4.70	19	22	32	60	48	WSS-0047-SA-D
6.50	22	25	37	71	54	WSS-0065-SA-D
8.50	25	29	43	81	60	WSS-0085-SA-D
9.50	29	32	46	90	67	WSS-0095-SA-D
12.00	32	35	52	100	76	WSS-0120-SA-D
13.50	35	38	57	113	84	WSS-0135-SA-D
17.00	38	41	60	124	92	WSS-0170-SA-D
25.00	44	51	73	146	110	WSS-0250-SA-D

HANDY HINT

SHACKLES

If a shackle is to be left in a loaded position for a period of time, or has the potential for the pin to become dislodged, mouse the pin of the shackle into place or use a safety type shackle.

Never replace a shackle pin with a bolt or mismatch shackle components.

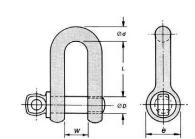
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Bullivants

LIFTING & RIGGING COMPONENTS

Screw Dee Shackles – Grade M

Complies with AS 2741



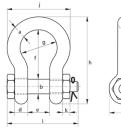


Bullivants

WLL t	Ød mm	ØD mm	W mm	L mm	e mm	Black	Galvanised
0.25	6	10	13	25	19	WSM-0002-LD-B	WSM-0002-LD-G
0.50	10	13	19	38	25	WSM-0005-LD-B	WSM-0005-LD-G
0.75	13	16	28	54	32	WSM-0007-LD-B	WSM-0007-LD-G
1.50	16	19	32	63	38	WSM-0015-LD-B	WSM-0015-LD-G
2.00	19	22	38	73	44	WSM-0020-LD-B	WSM-0020-LD-G
3.00	22	25	44	83	51	WSM-0030-LD-B	WSM-0030-LD-G
3.80	25	29	51	95	57	WSM-0038-LD-B	WSM-0038-LD-G
5.00	29	32	54	105	63	WSM-0050-LD-B	WSM-0050-LD-G
6.00	32	35	60	114	70	WSM-0060-LD-B	WSM-0060-LD-G
7.00	35	38	67	127	76	WSM-0070-LD-B	WSM-0070-LD-G
9.50	38	44	70	137	89	WSM-0095-LD-B	WSM-0095-LD-G

Green Pin – Safety Bow Shackles – Alloy Grade S – Galvanised

- Double safety (cotter pin and safety bolt)
- Galvanisation assures long term durability
- Conforms to a wide range of certifications (e.g. DNV GL)

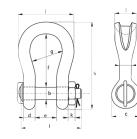




WLL t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	Weight kg	Part Number
1	10	11	22.5	10	17	36.5	26	63.5	60	46	8	0.16	WSS-0010-SA-B-GP
1.5	11	13	26.5	11	19	43	29	74	67	51	11	0.22	WSS-0015-SA-B-GP
2	13.5	16	34	13	22	51	32	89	82	58	13	0.42	WSS-0020-SA-B-GP
3.25	16	19	40	16	27	64	43	110	98	75	17	0.74	WSS-0032-SA-B-GP
4.75	19	22	46	19	31	76	51	129	114	89	19	1.18	WSS-0047-SA-B-GP
6.5	22	25	52	22	36	83	58	144	130	102	22	1.77	WSS-0065-SA-B-GP
8.5	25	28	59	25	43	95	68	164	150	118	25	2.58	WSS-0085-SA-B-GP
9.5	28	32	66	28	47	108	75	185	166	131	27	3.66	WSS-0095-SA-B-GP
12	32	35	72	32	51	115	83	201	178	147	30	4.91	WSS-0120-SA-B-GP
13.5	35	38	80	35	57	133	92	227	197	162	33	6.54	WSS-0135-SA-B-GP
17	38	42	88	38	60	146	99	249	202	175	19	8.19	WSS-0170-SA-B-GP
25	45	50	103	45	74	178	126	300	249	216	23	14.0	WSS-0250-SA-B-GP
35	50	57	111	50	83	197	138	331	269	238	26	18.8	WSS-0350-SA-B-GP
42.5	57	65	130	57	95	222	160	377	301	274	29	28.3	WSS-0425-SA-B-GP
55	65	70	145	65	105	260	180	433	330	310	32	39.6	WSS-0550-SA-B-GP
85	75	83	163	73	127	329	190	527	380	340	39	62.0	WSS-0850-SA-B-GP

Green Pin – Safety Bow Sling Saver – Grade 8 – Galvanised

- Saves on cost of wire/synthetic slings due to less wear
- Excellent choice for heavy lifting projects
- Double safety (cotter pin and safety bolt)
- Conforms to wide range of certifications (e.g. DNV GL)





VAN BEEST

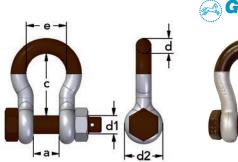
WLL t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	l mm	Weight kg	Part Number
40	55	51	109	45	84	199	140	331	252	235	38	97	20.3	WSS-0400-SS-B-GP
55	60	57	115	55	90	240	160	389	299	270	45	100	30.4	WSS-0550-SS-B-GP
75	68	70	125	54	110	290	185	473	327	317	54	120	45	WSS-0750-SS-B-GP
125	85	80	154	85	137	366	220	583	426	390	64	150	92	WSS-1250-SS-B-GP
150	94	95	179	89	147	391	253	645	435	434	50	170	140	WSS-1500-SS-B-GP
200	110	105	199	100	158	481	280	759	470	482	50	205	205	WSS-2000-SS-B-GP
300	135	134	245	122	195	601	350	947	575	620	70	265	360	WSS-3000-SS-B-GP

Other sizes available on request

04

Safety Bow Shackles – Super Grade – Galvanised

- Made from Grade 80 high tensile steel
 Suitable for temperatures ranging from -20° to 200°C
- Complies with U.S Fed Spec RR.C.271





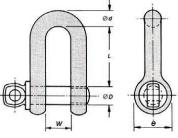
WLL t	d mm	d2 mm	d1 mm	a mm	c mm	e mm	Part Number
3.3	13	33	16	21	51	33	WSS-0003-SA-B-858
5.0	16	40	19	27	60	42	WSS-0005-SA-B-858
7.0	19	48	22	31	71	49	WSS-0007-SA-B-858
9.5	22	52	25	37	84	60	WSS-0095-SA-B-858
12.5	25	60	28	43	95	68	WSS-0125-SA-B-858
15	28	64	32	46	108	74	WSS-0150-SA-B-858
18	32	72	35	52	119	83	WSS-0180-SA-B-858
21	35	76	38	57	132	89	WSS-0210-SA-B-858
30	38	84	42	60	146	98	WSS-0300-SA-B-858
40	45	105	50	74	178	127	WSS-0400-SA-B-858

SHACKLES - COMMERCIAL

Screw Dee Shackles - Commercial - Galvanised

Hot dipped galvanised

• Not suitable for lifting applications







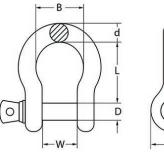
D mm	d mm	W mm	L mm	E mm	Weight kg	Part Number
5	5	10	19	11	0.019	WSU-050-D-G
6	6	13	25	14	0.034	WSU-060-D-G
8	8	16	32	18	0.07	WSU-080-D-G
10	10	19	38	20	0.13	WSU-100-D-G
12	12	25	51	26	0.24	WSU-120-D-G
16	16	32	64	33	0.5	WSU-160-D-G
20	20	38	76	40	0.8	WSU-200-D-G
22	22	44	89	50	1.3	WSU-220-D-G
25	25	51	100	57	2.0	WSU-250-D-G

Not suitable for lifting

Screw Bow Shackles – Commercial – Galvanised

Hot dipped galvanised

• Not suitable for lifting applications



Bullivants



D mm	d mm	W mm	L mm	B mm	E mm	Part Number
5	5	10	19	8	11	WSU-050-B-G
6	6	13	25	10	14	WSU-060-B-G
8	8	16	32	12	18	WSU-080-B-G
10	10	19	38	16	20	WSU-100-B-G
12	12	25	51	19	26	WSU-120-B-G
20	20	38	76	33	40	WSU-200-B-G
25	25	50	100	150	50	WSU-250-B-G

Not suitable for lifting

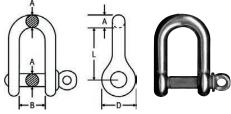
LIFTING & RIGGING COMPONENTS

SHACKLES – STAINLESS STEEL

Screw Dee Shackles – Grade 316 – Stainless Steel

• Surface finish polished

Individual inspection for appearance and assembly



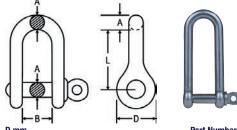
A mm	B mm	D mm	L mm	Part Number
4	8	8	16	WSSS-040-D-HSH16DSM04
5	10	10	20	WSSS-050-D-HSH16DSM05
6	12	12	24	WSSS-060-D
8	16	16	32	WSSS-080-D-36008
10	20	20	40	WSSS-100-D-36010
12	24	26	48	WSSS-120-D-36012
16	32	32	64	WSSS-160-D-36016

Not suitable for lifting

Screw Long Dee Shackles – Grade 316 – Stainless Steel

Surface finish polished

• Individual inspection for appearance and assembly



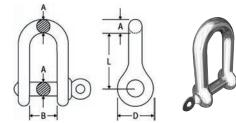
A mm	L mm	B mm	D mm	Part Number
4	32.0	8.0	8.0	WSSS-040-L-HSH16LGM04
5	40.0	10.0	10.0	WSSS-050-L-HSH16LGM05
6	48.0	12.0	12.0	WSSS-060-L-HSH16LGM06
8	64.0	16.0	16.0	WSSS-080-L-HSH16LGM08
10	80.0	20.0	20.0	WSSS-100-L-HSH16LGM10
12	96.0	24.0	24.0	WSSS-120-L-HSH16LGM12

Not suitable for lifting

Screw Dee Shackles with Captive Pin – Grade 316 – Stainless Steel

Surface finish polished

• Individual inspection for appearance and assembly

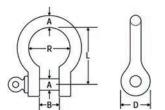


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A mm	L mm	B mm	D mm	Part Number
5	20	10	10	WSSS-050-D-HSH16CPM05
6	24	12	12	WSSS-060-D-HSH16CPM06
8	32	16	16	WSSS-080-D-HSH16CPM08
10	40	20	20	WSSS-100-D-HSH16CPM10
12	48	24	24	WSSS-120-D-HSH16CPM12

Screw Bow Shackles – Grade 316 – Stainless Steel

Surface finish polished

• Individual inspection for appearance and assembly





				· · ·	
A mm	L mm	B mm	R mm	D mm	Part Number
5	20	8	17	10	WSSS-050-B-HSH16BWM05
6	24	12	21	12	WSSS-060-B-HSH16BWM06
8	32	16	28	16	WSSS-080-B-HSH16BWM08
10	40	20	34	20	WSSS-100-B-HSH16BWM10
12	48	24	42	24	WSSS-120-B-HSH16BWM12
16	64	32	56	32	WSSS-160-B-HSH16BWM16

TOWNLEY

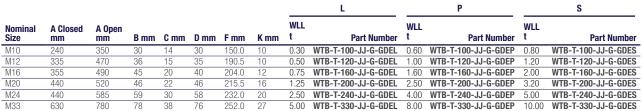
04

TURNBUCKLES

Clevis & Clevis Turnbuckles – Grades L, P & S

• Supplied with certification

- Ideal for lifting, staying and tensioning
- Complies with AS 2319



Clevis & Eye Turnbuckles – Grades L, P & S

• Supplied with certification

Complies with AS 2319



Р

Nominal Size	A Closed mm	A Open mm	B mm	C mm	D mm	F mm	G mm	H mm	J mm	K mm	WLL t	Part Number	WLL t	Part Number	WLL t	Part Number
M10	235	340	30	14	30	150.0	11	21	7	10	0.30	WTB-T-100-JE-G-GDEL	0.60	WTB-T-100-JE-G-GDEP	0.80	WTB-T-100-JE-G-GDES
M12	330	470	36	15	35	190.5	15	30	9	10	0.50	WTB-T-120-JE-G-GDEL	1.00	WTB-T-120-JE-G-GDEP	1.20	WTB-T-120-JE-G-GDES
M16	355	490	45	20	40	204.0	17	36	12	12	0.75	WTB-T-160-JE-G-GDEL	1.60	WTB-T-160-JE-G-GDEP	2.00	WTB-T-160-JE-G-GDES
M20	390	520	55	22	46	216.0	21	42	14	16	1.25	WTB-T-200-JE-G-GDEL	2.50	WTB-T-200-JE-G-GDEP	3.20	WTB-T-200-JE-G-GDES
M24	445	580	59	30	58	232.0	25	51	17	20	2.50	WTB-T-240-JE-G-GDEL	4.00	WTB-T-240-JE-G-GDEP	5.00	WTB-T-240-JE-G-GDES
M33	643	793	78	38	76	252.0	33	70	24	27	5.00	WTB-T-330-JE-G-GDEL	8.00	WTB-T-330-JE-G-GDEP	10.00	WTB-T-330-JE-G-GDES

L

Eye & Eye Turnbuckles – Grades L, P & S

• Supplied with certification

Complies with AS 2319



								L		Р		S	
Nominal Size	A Closed mm	A Open mm	Fmm	G mm	H mm	J mm	WLL	Part Number	WLL t	Part Number	WLL t	Part Number	
M10	230	335	150	11	21	7	0.3	WTB-T-100-EE-G-GDEL	0.6	WTB-T-100-EE-G-GDEP	0.8	WTB-T-100-EE-G-GDES	
M12	330	470	190.5	15	30	9	0.5	WTB-T-120-EE-G-GDEL	1.0	WTB-T-120-EE-G-GDEP	1.2	WTB-T-120-EE-G-GDES	
M16	350	485	204	17	36	12	0.75	WTB-T-160-EE-G-GDEL	1.6	WTB-T-160-EE-G-GDEP	2.0	WTB-T-160-EE-G-GDES	
M20	385	515	216.5	21	42	14	1.25	WTB-T-200-EE-G-GDEL	2.5	WTB-T-200-EE-G-GDEP	3.2	WTB-T-200-EE-G-GDES	
M24	440	570	232	25	51	17	2.5	WTB-T-240-EE-G-GDEL	4.0	WTB-T-240-EE-G-GDEP	5.0	WTB-T-240-EE-G-GDES	
M33	656	806	252	33	70	24	5.0	WTB-T-330-EE-G-GDEL	8.0	WTB-T-330-EE-G-GDEP	10.0	WTB-T-330-EE-G-GDES	

Jaw & Jaw Superbuckles – US Fed Specifications FF-T-791B

• Hot dip galvanised steel

- End fittings are guenched and tempered, bodies heat treated by normalising
- Turnbuckles recommended for straight on in-line pull only
- Proof load is 2.5 times the WLL
- Ultimate load is 5 times the WLL
- Meets the performance requirements of Federal Specifications FF-T-791B, Type 1, Form 1 - Class 7

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Size inches	WLL t	A mm	B mm	E mm	G mm	J mm	K mm	M Open mm	N Closed mm	BB mm	Part Number
½ x 12	1.0	12.7	16.51	69.85	26.92	774.7	444.50	812.80	482.60	304.80	WTB-T-127-JJ-G-12INT
5∕s x 12	1.6	16.00	20.07	88.90	33.27	814.07	477.52	866.90	630.35	304.80	WTB-T-158-JJ-G-12INT
¾ x 12	2.36	19.05	23.88	106.17	38.10	850.90	508.00	916.94	574.04	304.80	WTB-T-190-JJ-G-12INT
7∕8 x 12	3.26	22.35	28.70	123.19	44.45	891.79	542.54	966.98	617.73	304.80	WTB-T-222-JJ-G-12INT
1 x 12	4.54	25.40	30.04	140.46	52.32	932.69	577.09	1017.52	661.92	304.80	WTB-T-254-JJ-G-12INT

TOWNLEY

TOWNLEY

S





Bullivants

Stub End Turnbuckles – Heavy Duty – Galvanised

• Working load limit stamped

• \emptyset = 0.8 Capacity factor applied in accordance with Table 3.4 of AS 1554.1



TOWNLEY

Nominal Size	WLL t	Stub UTS* kN	Body UTS kN	A Closed mm	A Open mm	B mm	Fmm	Part Number
M10	0.30	21	47	265	375	55	150	WTBS-010-TBSS10
M12	0.50	30	71	335	475	70	191	WTBS-012-TBSS12
M16	0.75	55	118	365	495	72	204	WTBS-016-TBSS16
M20	1.25	86	189	365	500	79	217	WTBS-020-TBSS20
M24	2.50	124	295	400	535	89	232	WTBS-024-TBSS24
M33	5.00	197	471	400	554	74	252	WTB-U-330-SS-G-B
M36	6.00	287	530	550	740	160	275	WTB-U-360-SS-G-B

Other sizes available on request

*Ultimate Tensile Strength

Stub End Turnbuckles - Commercial - Black Stub Ends

• Galvanised body, plain uncoated studs, partially threaded

• Ideal for bracing and welding to metal frames



Size mm	A mm	B mm	H mm	l mm	G mm	Weight kg	Part Number
12	200	160	150	100	10.50	0.45	WTB-U-120-SS-G-B
16	230	180	180	120	14.50	0.89	WTB-U-160-SS-G-B
20	300	235	220	140	18.00	1.60	WTB-U-200-SS-G-B
22	320	250	250	165	20.00	2.20	WTB-U-220-SS-G-B
25	340	265	265	160	21.50	2.60	WTB-U-250-SS-G-B

Not suitable for lifting

Eye & Eye Turnbuckles

– Commercial

Zinc plated finish



Bullivants

Size mm	Part Number
6	WTB-U-060-EE-G
8	WTB-U-080-EE-G
10 12	WTB-U-100-EE-G
12	WTB-U-120-EE-G
16 20	WTB-U-160-EE-G
20	WTB-U-200-EE-G
25	WTB-U-250-EE-G

Not suitable for lifting

Hook & Eye Turnbuckles – Commercial

Zinc plated finish



Bullivants

Size mm	Part Number
6	WTB-U-060-HE-G
8	WTB-U-080-HE-G
10	WTB-U-100-HE-G
13	WTB-U-120-HE-G
16	WTB-U-160-HE-G
20	WTB-U-200-HE-G

Not suitable for lifting

RELATED PRODUCT

Commercial turnbuckles are ideal for use with wire rope and wire rope grips.

Best used for low duty applications such as straining, lashing and catenary systems.

SEE 6X24 CONSTRUCTION - FIBRE CORE - 1570 GRADE ON PAGE 44 OF WIRE ROPE CHAPTER



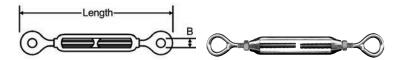
TURNBUCKLES – STAINLESS STEEL

Open Body Eye & Eye Turnbuckles with Lock Nuts – Grade 316 – Stainless Steel

Variety of commercial tensioning uses

Metric threads for fast and easy adjustment

• Open bodies for easy checking of thread engagement



Size mm	Length Min. mm	B mm	Part Number
4	98	8	WSTB-040-HTB16EEM04
5	120	8	WSTB-050-EE-311E05
6	150	10	WSTB-060-EE-311E06
8	200	12	WSTB-080-EE-311E08
9	245	15	WSTB-090-EE-311E09
10	240	16	WSTB-100-HTB16EEM10
12	300	20	WSTB-120-HTB16EEM12
16	390	26	WSTB-160-HTB16EEM16
20	510	29	WSTB-200-HTB16EEM20

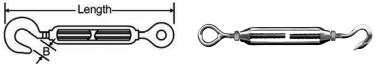
Not suitable for lifting

Open Body Hook & Eye Turnbuckles with Lock Nuts – Grade 316 – Stainless Steel

Variety of commercial tensioning uses

• Metric threads for fast and easy adjustment

Open bodies for easy checking of thread engagement



Size mm	Length Min. mm	B mm	Part Number
4	98	9	WSTB-040-HTB16HEM04
5	130	9	WSTB-050-HE-311HE05
6	160	10	WSTB-060-HE-311HE06
8	200	11	WSTB-080-HE-311HE08
9	245	12	WSTB-090-HE-311HE09
12	300	14	WSTB-120-HTB16HEM12
16	390	16	WSTB-160-HTB16HEM16
20	510	20	WSTB-200-HTB16HEM20

Not suitable for lifting

Open Body Hook & Hook Turnbuckles with Lock Nuts – Grade 316 – Stainless Steel

• Variety of commercial tensioning uses

• Metric threads for fast and easy adjustment

• Open bodies for easy checking of thread engagement



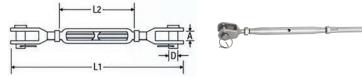
Size mm	Lmm	L1 mm	L2 mm	S mm	Part Number
4	55	47	98	9	WSTB-040-HTB16HHM04
5	70	52	120	9	WSTB-050-HTB16HHM05
6	90	66	160	10	WSTB-060-HTB16HHM06
8	120	94	200	11	WSTB-080-HTB16HHM08
10	150	120	240	13	WSTB-100-HTB16HHM10
12	200	168	300	15	WSTB-120-HTB16HHM12
16	250	210	390	16	WSTB-160-HTB16HHM16
20	300	260	510	20	WSTB-200-HTB16HHM20

Open Body Jaw & Jaw Turnbuckles with Lock Nuts - Grade 316 - Stainless Steel

Variety of commercial tensioning uses

• Metric threads for fast and easy adjustment

Open bodies for easy checking of thread engagement



Size mm	Length Min. mm	A mm	D mm	Part Number
5	125	8.2	6	WSTB-050-HTB16JJM05
6	145	9.2	6	WSTB-060-HTB16JJM06
8	180	11	8	WSTB-080-HTB16JJM08
10	220	15	12	WSTB-100-HTB16JJM10
12	320	15	14	WSTB-120-HTB16JJM12

RIGGING SCREWS

Jaw & Jaw Rigging Screws – Grades L, P & S – Galvanised

• Supplied with certification

- Ideal for lifting, staying and tensioning
- Complies with AS 2319



										L		Р		S	
Nominal Size	A Closed mm	A Open mm	B mm	C mm	D mm	E mm	F mm	K mm	WLL t	Part Number	WLL t	Part Number	WLL t	Part Number	
M10	265	395	30	14	30	8.5	180	10	0.3	WRSC-100-JJ-L-G-T					
M12	340	510	30	19	37	9	229	10					1.2	WRSC-120-JJ-S-G-A	
M16	360	535	45	20	45	9	230	12	0.75	WRSC-160-JJ-L-G-T					
M16	380	515	44.7	22	40	11	229	12.7			1.6	WRSC-160-JJ-P-G-A	2	WRSC-160-M-JJ-S-G	
M20	390	520	40	22	44	11	229	16			2.5	WRSC-200-JJ-P-G-A	3.2	WRSC-200-JJ-S-G-A	
M20	390	555	55	22	46	10.5	230	16	1.25	WRSC-200-JJ-L-G-T					
M24	545	795	52	32	60	13	356	22			4.0	WRSC-240-JJ-P-G-A	5	WRSC-240-JJ-S-G-A	
M27	590	805	65	32	60	13	365	22			6.3	WRSC-270-M-JJ-P-G	5	WRSC-270-JJ-S-G-A	
M33	640	870	76	38	76	14	381	24			10	WRSC-330-M-JJ-P-G	8	WRSC-330-JJ-S-G-A	
M39	700	960	90	47	87	16	407	32			12	WRSC-390-JJ-P-G-A	10	WRSC-390-JJ-S-G-A	
M45	755	975	111	51	101	17	407	36			16	WRSC-450-JJ-P-G-A	12	WRSC-450-JJ-S-G-A	
M48	790	975	121	51	101	19	407	42			20	WRSC-480-JJ-P-G-A	16	WRSC-480-JJ-S-G-A	

Jaw & Eye Rigging Screws – Grades L, P & S – Galvanised

- Supplied with certification
- Ideal for lifting, staying and tensioning
- Complies with AS 2319

		0
L	Р	S

Nominal Size	A Closed mm	A Open mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	WLL t	Part Number	WLL t	Part Number	WLL t	Part Number
M10	260	385	30	14	30	8.5	180	11	21	7	10	0.30	WRSC-100-JE-L-G-T	0.60	WRSC-100-JE-P-G-T	0.80	WRSC-100-JE-S-G-T
M12	335	525	36	15	35	8.5	230	14	30	9	10	0.50	WRSC-120-JE-L-G-T	1.00	WRSC-120-JE-P-G-T	1.20	WRSC-120-JE-S-G-A
M16	355	535	45	20	40	9.0	230	17	36	12	12	0.75	WRSC-160-JE-L-G-T	1.60	WRSC-160-JE-P-G-T	2.00	WRSC-160-JE-S-G-A
M20	385	550	55	22	46	10.5	230	21	42	14	16	1.25	WRSC-200-JE-L-G-T	2.50	WRSC-200-JE-P-G-T	3.20	WRSC-200-JE-S-G-A
M24	555	735	59	30	58	13	360	25	51	17	20			4.00	WRSC-240-JE-P-G-T	5.00	WRSC-240-JE-S-G-A

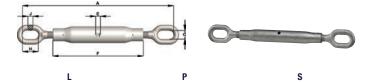
Other sizes available on request

Eye & Eye Rigging Screws – Grades L, P & S – Galvanised

• Supplied with certification

• Ideal for lifting, staying and tensioning

Complies with AS 2319



Nominal Size	A Closed mm	A Open mm	Emm	Fmm	G mm	H mm	J mm	WLL t	Part Number	WLL t	Part Number	WLL t	Part Number
M10	260	380	8.5	180	12	21	7	0.3	WRSC-100-EE-L-G-T	0.6	WRSC-100-EE-P-G-T	0.8	WRSC-100-EE-S-G-T
M12	340	520	8.5	230	15	30	9			1	WRSC-120-EE-P-G-T	1.2	WRSC-120-EE-S-G-A
M16	350	525	9.0	230	17	36	12	0.75	WRSC-160-M-EE-L-G	1.6	WRSC-160-EE-P-G-T	2	WRSC-160-EE-S-G-A
M20	380	545	10.5	230	21	42	12	1.25	WRSC-200-M-EE-L-G	2.5	WRSC-200-EE-P-G-T	3.2	WRSC-200-EE-S-G-A
M24	540	725	13.0	360	25	51	17			4	WRSC-240-EE-P-G-T	5	WRSC-240-EE-S-G-A
Othor size	s availab		uost										

Other sizes available on request

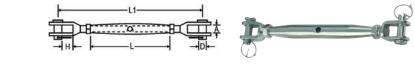
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RIGGING SCREWS – STAINLESS STEEL

Jaw & Jaw Rigging Screws with Lock Nuts – Grade 316 – Stainless Steel

Surface finish polished

• Individual inspection for appearance and assembly



Diameter mm	L1	L mm	A mm	D mm	H mm	Weight kg	Part Number
M5	130	80	8.2	6	10	0.05	WSRS-050-JJ-HRS16JJM05
M6	150	95	9.2	6	10	0.01	WSRS-060-JJ-HRS16JJM06
M8	180	105	11	8	11	0.16	WSRS-080-JJ-HRS16JJM08
M10	220	125	15	12	14	0.21	WSRS-100-JJ-HRS16JJM10
M12	270	150	15	14	21	0.5	WSRS-120-JJ-HRS16JJM12
M16	300	190	22	14	26	0.97	WSRS-160-JJ-HRS16JJM16

Not suitable for lifting

Jaw & Swage Rigging Screws with Lock Nuts – Grade 316 – Stainless Steel

• Surface finish polished

Individual inspection for appearance and assembly

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Diameter D mm	Rope Ø mm	L1 mm	L mm	B mm	Weight kg	Part Number
5	2.5	80	155	7.0	0.05	WSRS-050-JT-HRS16JSM0502.5
5	3.2	80	155	8.2	0.05	WSRS-050-JT-HRS16JSM0503.2
5	3.2	45	105	8.5	0.04	WSRS-050-JT-HRS16JSM0503.2M
6	3.2	95	175	8.2	0.08	WSRS-060-JS-HRS16JSM06032
6	4.0	95	175	9.2	0.01	WSRS-060-JS-HRS16JSM0604
6	5.0	105	205	11.0	0.15	WSRS-060-JS-HRS16JSM0805
6	6.0	125	230	15.0	0.27	WSRS-060-JS-HRS16JSM1006

LIFTING CLUTCH

Concrete Lifting Clutches

- Supplied with individual load test certificate
- Alloy steel
- Marked with WLL and serial number
- Blue powder coated surface finish
- Complies with AS 3850.1



Part Number
Fait Nulliber
WCLE-013-STD-RIG
WCLE-025-STD-RIG
WCLE-050-STD-RIG
WCLE-100-STD-RIG
WCLE-200-STD-RIG

PRODUCT INSIGHT • Designed to not Working Load Limit (WLL) spontaneously disengage Batch code and unique • Proof load tested in Brand serial number accordance with AS 3850 • Designed and manufactured with a 5:1 safety factor • Traceable unique identifying permanent marks Working Load Limit (WLL)

Bullivants



LIFTING & RIGGING COMPONENTS

SHEAVE BLOCKS

Single Sheave Blocks – Manilla Rope



Sheave Dia mm	WLL t	Manilla Rope Dia mm	Hook Fitting	Eye Fitting
63	0.25	10	WSHB-063-SH-FR	WSHB-063-SE-FR
75	0.25	12	WSHB-075-SH-FR	WSHB-075-SE-FR
100	0.5	16	WSHB-100-SH-FR	WSHB-100-SE-FR
125	1	20	WSHB-125-SH-FR	WSHB-125-SE-FR
150	1	24	WSHB-150-SH-FR	WSHB-150-SE-FR
200	2	32	WSHB-200-SH-FR	WSHB-200-SE-FR

Single Sheave Blocks – Wire Rope



Sheave Dia mm	WLL t	Wire Rope Dia mm	Hook Fitting	Eye Fitting
63	0.25	5	WSHB-063-SH-WR	WSHB-063-SE-WR
75	0.25	6	WSHB-075-SH-WR	WSHB-075-SE-WR
100	0.5	8	WSHB-100-SH-WR	WSHB-100-SE-WR
125	1	10	WSHB-125-SH-WR	WSHB-125-SE-WR
150	1	12	WSHB-150-SH-WR	WSHB-150-SE-WR
200	2	16	WSHB-200-SH-WR	

Double Sheave Blocks – Manilla Rope



Sheave Dia		Manilla Rope		
mm	WLL t	Dia mm	Hook Fitting	Eye Fitting
63	0.25	10	WSHB-063-DH-FR	WSHB-063-DE-FR
75	0.25	12	WSHB-075-DH-FR	WSHB-075-DE-FR
100	0.75	16	WSHB-100-DH-FR	WSHB-100-DE-FR
125	1.00	20	WSHB-125-DH-FR	WSHB-125-DE-FR
150	1.50	24	WSHB-150-DH-FR	WSHB-150-DE-FR
200	3.00	32		WSHB-200-DE-FR

Double Sheave Blocks – Wire Rope



Sheave Dia mm	WLL t	Wire Rope Dia mm	Hook Fitting	Eye Fitting
63	0.25	5	WSHB-063-DH-WR	WSHB-063-DE-WR
75	0.25	6	WSHB-075-DH-WR	WSHB-075-DE-WR
100	0.75	8	WSHB-100-DH-WR	WSHB-100-DE-WR
125	1	10	WSHB-125-DH-WR	WSHB-125-DE-WR
150	1.5	12	WSHB-150-DH-WR	WSHB-150-DE-WR
200	3	16	WSHB-200-DH-WR	WSHB-200-DE-WR

Treble Sheave Blocks – Manilla Rope



Sheave Dia mm	WLL t	Manilla Rope Dia mm	Hook Fitting	Eye Fitting
63	0.25	10	WSHB-063-TH-FR	
75	0.25	12	WSHB-075-TH-FR	WSHB-075-TE-FR
100	0.75	16	WSHB-100-TH-FR	WSHB-100-TE-FR
125	1	20	WSHB-125-TH-FR	WSHB-125-TE-FR
150	1.5	24	WSHB-150-TH-FR	WSHB-150-TE-FR

Treble Sheave Blocks

- Wire Rope



Sheave Dia mm	WLL t	Wire Rope Dia mm	Hook Fitting	Eye Fitting
63	0.25	5	WSHB-063-TH-WR	
75	0.25	6	WSHB-075-TH-WR	WSHB-075-TE-WR
100	0.75	8	WSHB-100-TH-WR	WSHB-100-TE-WR
125	1	10	WSHB-125-TH-WR	WSHB-125-TE-WR
150	1.5	12	WSHB-150-TH-WR	WSHB-150-TE-WR
200	3	16	WSHB-200-TH-WR	

SNATCH BLOCKS

Single Snatch Blocks – Manilla Rope



Sheave Dia mm	WLL t	Manilla Rope Dia mm	Hook Fitting	Eye Fitting
63	0.25	10	WSNB-063H-FR-P	WSNB-063E-FR-P
75	0.25	12	WSNB-075H-FR-P	WSNB-075E-FR-P
100	0.5	16	WSNB-100H-FR-P	WSNB-100E-FR-P
125	1	20	WSNB-125H-FR-P	WSNB-125E-FR-P
150	1.5	24	WSNB-150H-FR-P	WSNB-150E-FR-P
200	3	32	WSNB-200H-FR-P	WSNB-200E-FR-P

Single Snatch Blocks – Wire Rope



Sheave Dia mm	WLL t	Wire Rope Dia mm	Hook Fitting	Eye Fitting
63	0.25	5	WSNB-063H-WR-P	WSNB-063E-WR-P
75	0.25	6	WSNB-075H-WR-P	WSNB-075E-WR-P
100	0.5	8	WSNB-100H-WR-P	WSNB-100E-WR-P
125	1	10	WSNB-125H-WR-P	WSNB-125E-WR-P
150	1.5	12	WSNB-150H-WR-P	WSNB-150E-WR-P
200	2	16	WSNB-200H-WR-P	WSNB-200E-WR-P

Hand Operated Sheave – Manilla & Wire



Wire Rope

Fibre Rope

A mm	B mm	C mm	D mm	E mm	R mm	Part Number	E mm	R mm	Part Number
12.5	20.5	19.5	63	4.8	5	WSHV-063-WR	3.2	10	WSHV-063-FR
12.5	20.5	19.5	75	6.4	6	WSHV-075-WR	4.8	12	WSHV-075-FR
19	24.5	23	100	8	8	WSHV-100-WR	6.4	16	WSHV-100-FR
22	29.5	27	125	11	10	WSHV-125-WR	7.1	20	WSHV-125-FR
25	32	30	150	12.7	12	WSHV-150-WR	8	24	WSHV-150-FR
35	46	44	200	16	16	WSHV-200-WR	11	32	WSHV-200-FR

McKissick 419 Light Champion Snatch Blocks

- Opening feature permits easy insertion of rope without reeving, or while the block is suspended
- All sizes come with bronze bush bearings
- Design factor of 5:1
- Complies with AS 2089



Crosby

Snatch Block with Shackle Head

- Removable shackle head fitting for direct connection of rigging
- Side hinges open for easy access
- to pulley 'sheave' • Ideal for manually operated
- wire rope applications
- Complies with AS 2089



Bullivants



WLL t Factor 4:1	WLL t Factor 5:1	Sheave Dia. mm	Wire Rope Size mm	Weight kg	Part Number
2	1.6	76	8 – 10	1.8	WSNB-0160-076-WR-SB-C
4	3.2	114	10 - 13	5.4	WSNB-0320-114-WR-SB-C
8	6.4	152	16 – 19	12.7	WSNB-0640-152-WR-SB-C
8	6.4	203	16 – 19	14.9	WSNB-0640-203-WR-SB-C
15	12	406	19	61	WSNB-1200-406-WR-SB-C

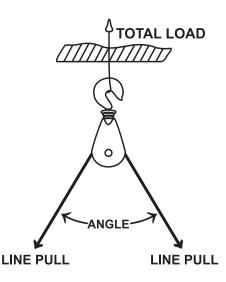
WLL t	Sheave Dia. mm	Wire Rope Size mm	Weight kg	Part Number
2	115	7 – 9	5.5	WSNB-02T-115-S-BS-BV
4	210	10-14	12.3	WSNB-04T-210-S-BS-BV
6	275	13 – 16	27.5	WSNB-06T-275-S-BS-BV
8	275	16 - 18	28.5	WSNB-08T-275-S-BS-BV
10	250	18 - 20	36.5	WSNB-10T-250-S-BS-BV
12	395	20 - 26	75	WSNB-12T-395-S-BS-BV

CALCULATING LOAD ON THE BLOCK

The following chart indicates the factor to be multiplied by the line pull to obtain the total load on the block.

Angle	Factor
0°	2.00
10°	1.99
20°	1.97
30°	1.93
40°	1.87
45°	1.84
50°	1.81
60°	1.73
70°	1.64
80°	1.53
90°	1.41

Angle	Factor			
100°	1.29			
110°	1.15			
120°	1.00			
130°	0.84			
135°	0.76			
140°	0.68			
150°	0.52			
160°	0.35			
170°	0.17			
180°	0.00			



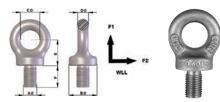
e.g. 2.0t Line Pull @ 45° Angle (1.84) = 3.68t Total Load

COLLARED EYEBOLTS

Eyebolts – Metric – Grade-4

Ideal for lifting

• Complies with AS 2317



								Coarse Thread		Fi	ine Thread
ØA mm	WLL F1 t	WLL F2 t	B mm	C mm	D mm	E mm	Fmm	Thread Pitch mm	Part Number	Thread Pitch mm	Part Number
M10	0.25	0.06	21	14	9	19	17	1.50	WEB-100-M-150P-S-WLL	1.25	WEB-100-M-125P-B-WLL
M12	0.40	0.10	28	18	11	24	21	1.75	WEB-120-M-175P-S-WLL	1.50	WEB-120-M-150P-B-WLL
M14	0.40	0.10	35	23	14	31	27	2.00	WEB-140-M-200P-S-WLL		
M16	0.80	0.20	35	23	14	31	27	2.00	WEB-160-M-200P-S-WLL	1.50	WEB-160-M-150P-B-WLL
M18	0.80	0.20	42	30	16	35	38	2.50	WEB-180-M-250P-S-WLL		
M20	1.60	0.40	42	30	16	35	38	2.50	WEB-200-M-250P-S-WLL	2.50	WEB-200-M-250P-B
M22	2.00	0.50	50	32	20	41	41	2.50	WEB-220-M-250P-S-WLL	1.50	WEB-220-M-150P-B-WLL
M24	2.50	0.62	57	38	22	48	42	3.00	WEB-240-M-300P-S-WLL	2.00	WEB-240-M-200P-B-WLL
M30	4.00	1.00	71	49	27	65	52	3.50	WEB-300-M-350P-S-WLL	2.00	WEB-300-M-200P-B-WLL
M33	5.00	1.02	71	49	27	65	52	3.50	WEB-330-M-350P-S-WLL	2.00	WEB-330-M-200P-B-WLL
M36	6.30	1.57	87	53	35	73	64	4.00	WEB-360-M-400P-S-WLL	2.00	WEB-360-M-200P-B-WLL
M39	7.00	1.75	87	53	35	73	64	4.00	WEB-390-M-400P-S-WLL	2.00	WEB-390-M-200P-B-WLL
M42	8.00	2.00	102	66	40	90	76	4.50	WEB-420-M-450P-S-WLL	2.00	WEB-420-M-200P-B-WLL
M48	10.00	2.50	115	75	49	99	89	5.00	WEB-480-M-500P-S-WLL	3.00	WEB-480-M-300P-B-WLL
M56	15.00	3.70	143	97	56	124	116	5.50	WEB-560-M-550P-S-WLL	4.00	WEB-560-M-400P-B-WLL
M64	20.00	5.00	143	97	56	124	116	6.00	WEB-640-M-600P-S-WLL	4.00	WEB-640-M-400P-B-WLL
M72	25.00	6.25	163	106	66	140	125	6.00	WEB-720-M-600P-S-WLL		
M76	30.00	7.50	163	106	66	140	125	6.00	WEB-760-M-600P-S-WLL	4.00	WEB-760-M-400P-B-WLL
Stampor	A with \A/L	E2									

Stamped with WLL F2 Other thread lengths and forms available on request Testing and certification available on request

Eyebolts - Imperial - Grade-4

• Ideal for lifting

• Complies with AS 2317

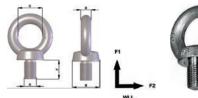


									BSW		UNC
A in.	WLL F1 t	WLL F2 t	B mm	C mm	D mm	E mm	Fmm	Threads per in.	Part Number	Threads per in.	Part Number
3/8	0.25	0.06	21	14	9	19	17	16	WEB-095-B-S-WLL	16	WEB-095-U-S-WLL
1/2	0.40	0.10	28	18	11	24	21	12	WEB-127-B-S-WLL	13	WEB-127-U-S-WLL
5/8	0.80	0.20	35	23	14	31	27	11	WEB-158-B-S-WLL	11	WEB-158-U-S-WLL
3/4	1.60	0.40	42	30	16	35	38	10	WEB-190-B-S-WLL	10	WEB-190-U-S-WLL
7/8	2.00	0.50	50	32	20	41	41	9	WEB-222-B-S-WLL	9	WEB-222-U-S-WLL
1	2.50	0.62	57	38	22	48	42	8	WEB-254-B-S-WLL	8	WEB-254-U-S-WLL
11/8	4.00	1.00	71	49	27	65	52	7	WEB-285-B-S-WLL	7	WEB-285-U-S-WLL
11/4	5.00	1.02	71	49	27	65	52	7	WEB-317-B-S-WLL	7	WEB-317-U-S-WLL
11/2	7.00	1.75	87	53	35	73	64	6	WEB-381-B-S-WLL	6	WEB-381-U-S-WLL
13/4	8.00	2.00	102	66	40	90	76	5	WEB-444-B-S-WLL	5	WEB-444-U-S-WLL
2	10.00	2.50	115	75	49	99	89	4.5	WEB-508-B-S-WLL	4.5	WEB-508-U-S-WLL
21/2	20.00	5.00	143	97	56	124	116	4	WEB-635-U-S-WLL		
3	30.00	7.50	163	106	66	140	125	4	WEB-762-U-S-WLL		

Stamped with WLL F2 Other thread lengths and forms available on request Testing and certification available on request

Eyebolts - DIN 580 - Commercial

- Manufactured from carbon steel, heat treated
- Surface finish: Galvanised
- Metric coarse thread



					WLL
A mm	B mm	C mm	D mm	F mm	Part Number
M8	20	20	8	13.0	J80-M-125P-Z-GP
M10	25	25	10	17.0	WEB-100-M-150P-Z-GP
M12	30	30	12	20.5	WEB-120-M-175P-Z-GP
M16	35	35	16	27.0	WEB-160-M-200P-Z-GP
M20	40	40	20	30.0	WEB-200-M-250P-Z-GP
M24	50	50	24	36.0	WEB-240-M-300P-Z-GP
M30	65	60	24	45.0	WEB-300-M-350P-Z-GP
M36	75	70	28	54.0	WEB-360-M-400P-Z-GP
M42	85	80	32	63.0	WEB-420-M-450P-Z-GP

Not recommended for lifting

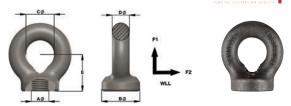
TOWNLEY

FORGED EYENUTS

Eyenuts - Metric - Grade-4

• Ideal for lifting with bolts and all thread with a minimum of Class 4.6 tensile

- Ideal for axial and angular loads
- Complies with AS 2317



AØ mm	WLL F1 t	WLL F2 t	Thread Pitch mm	BØ mm	CØ mm	DØ mm	E mm	Part Number
M10	0.25	0.06	1.50	28	24	14	29	WEN-100-M-150P-S
M12	0.40	0.10	1.75	28	24	14	29	WEN-120-M-175P-S
M16	0.80	0.20	2.00	35	28	16	38	WEN-160-M-200P-S
M20	1.60	0.40	2.50	44	32	20	44	WEN-200-M-250P-S
M24	2.50	0.62	3.00	57	38	22	51	WEN-240-M-300P-S
M30	4.00	1.00	3.50	71	48	27	65	WEN-300-M-350P-S
M33	5.00	1.25	3.50	71	48	27	65	WEN-330-M-350P-S
M36	6.30	1.57	4.00	87	53	35	73	WEN-360-M-400P-S
M42	8.00	2.00	4.50	102	66	40	90	WEN-420-M-450P-S
M48	10.00	2.50	5.00	115	72	49	99	WEN-480-M-500P-S
M56	15.00	3.75	5.50	143	95	56	124	WEN-560-M-550P-S
M64	20.00	5.00	6.00	143	95	56	124	WEN-640-M-600P-S
M76	30.00	7.50	6.00	163	106	66	140	WEN-760-M-600P-S

Stamped with WLL F2 Other sizes available on request

Testing and certification available on request

Eyenuts - Imperial - Grade-4

- Ideal for lifting with bolts and all thread with a minimum of Class 4.6 tensile
- Ideal for axial and angular loads

Complies with AS 2317







BSW Imperial

 ur I	Imperial

A in.	WLL F1 t	WLL F2 t	B mm	C mm	D mm	Emm	Threads per in.	Part Number	Threads per in.	Part Number
3/8	0.25	0.06	28	24	14	29	16	WEN-095-B-S	16	WEN-095-U-S
1/2	0.40	0.10	28	24	14	25	12	WEN-127-B-S	13	WEN-127-U-S
5/8	0.80	0.20	35	28	16	38	11	WEN-158-B-S	11	WEN-158-U-S
3/4	1.60	0.40	44	32	20	44	10	WEN-190-B-S	10	WEN-190-U-S
7/8	2.00	0.50	50	33	20	44	9	WEN-222-B-S	9	WEN-220-U-S
1	2.50	0.62	57	38	22	51	8	WEN-254-B-S	8	WEN-254-U-S

Eyenuts – Lifting Loops Bullivants • Manufactured from carbon steel, heat treated. • Surface finish: Self coloured Metric coarse thread 3.00mm pitch Ÿ D D3 mm WLL t D mm D2 mm H mm H1 mm W mm W1 mm Weight kg Part Number Size mm M24 46 WLFL-24 4.5 24 21 125 75 98 1.0

DID YOU KNOW

Eyebolts and Eyenuts are rated at both Vertical (Axial – F1), and Side (Transverse – F2) loads. F2 loads reduce the Working Load Limit to 25% of the F1 capacity. All Grade-4 Collared Eyebolts & Eyenuts are stamped with their F2 capacity as per AS 2317.

Please refer to the Working Load Limit (WLL) tables for the correct product to suit the application.



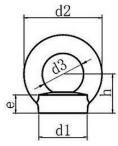
04

COLLARED EYENUTS

Eyenuts – DIN 582 – Commercial

- Manufactured from carbon steel, heat treated
- Surface finish: Galvanised
- Metric coarse thread

04





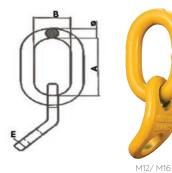
Size mm	Height mm	Thread Pitch mm	D1 mm	D2 mm	D3 mm	Part Number
M8	36	1.25	20	36	20	WEN-080-M-125P-Z-GP
M10	45	1.5	25	45	25	WEN-100-M-150P-Z-GP
M12	53	1.75	30	54	30	WEN-120-M-175P-Z-GP
M16	62	2.0	35	63	35	WEN-160-M-200P-Z-GP
M20	71	2.5	40	70	40	WEN-200-M-250P-Z-GP

Not suitable for lifting

LINK BRACKETS

Link Brackets – Grade 80

- Manufactured from alloy steel, heat treated
- 100% Magnaflux crack detection and individually proof tested at 2x WLL
- Min. breaking load 4x WLL, batch tested
- Surface finish: Zinc plated then powder coated
- Complies with AS 4991



Nominal Size mm	WLL t	A mm	B mm	Emm	Ø mm	Part Number
M12	1	43	27	7.5	11	WLIB-120-R-LT081301
M16	1.8	43	27	8.5	11	WLIB-160-R-LT081302
M24	4	43	26.5	16	13	WLIB-240-R-LT081303

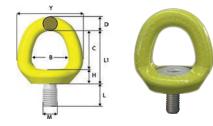
LIFTING POINTS

Rotating Eye Lifting Points - RELP - Metric Thread - Grade 100

• RELP hexagon socket makes it easy to disassemble/assemble using a standard allen key • Automatically adjusts to the loading direction which decreases the risk to load it incorrectly

and endangering the lifting operation

- · Ideal for top mounting and when a quick and easy on-hooking is important
- 4:1 Safety factor



Size	Directions	Straight Lift	B mm	C mm	D mm	H mm	Lmm	L1 mm	M mm	Y mm	Part Number
M8	0.3	0.7	28	28	11	14	15	42	8	50	WEB-080-M-Z102408
M10	0.5	1.2	28	28	11	14	15	42	10	50	WEB-100-M-Z102410
M12	0.8	2.0	32	33	13	13	20	47	12	58	WEB-120-M-Z102412
M16	1.5	3.5	39	41	15	16	24	57	16	70	WEB-160-M-Z102416
M20	2.4	6.1	42	43	16	18	30	60	20	78	WEB-200-M-Z102420
M24	3.3	8.1	50	51	19	20	36	71	24	88	WEB-240-M-Z102424
M30	4.6	12.1	60	62	26	28	45	90	30	112	WEB-300-M-Z102430
M36	7.1	16.1	72	72	32	32	54	104	36	136	WEB-360-M-Z102436
M42	9.1	24.0	82	82	38	37	63	119	42	158	WEB-420-M-Z102442
M48	12.1	32.0	94	96	43	39	72	135	48	180	WEB-480-M-Z102448

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Rotating Eye Lifting Points – RELP – Imperial Thread – Grade 100

- RELP hexagon socket makes it easy to disassemble/assemble using a standard allen key
- Automatically adjusts to the loading direction which decreases the risk to load it incorrectly and endangering the lifting operation
- Ideal for top-mounting and when a quick and easy on-hooking is important
- 4:1 Safety factor

Part Numbe	Y mm	M mm	L1 mm	L mm	H mm	D mm	C mm	B mm	WLL t Straight Lift	WLL t All Directions	Size in.
WEB-0070-U079-G-RELF	50	7.9	42	15	14	11	28	28	0.7	0.3	5/16
WEB-0120-U095-G-RELF	50	9.5	42	15	14	11	28	28	1.2	0.5	3/8
WEB-0200-U0127-G-RELF	58	12.7	47	20	13	13	33	32	2.0	0.8	1/2
WEB-0350-U158-G-RELF	70	15.9	57	24	16	15	41	39	3.5	1.5	5/8
WEB-0500-U190-G-RELF	78	19.0	60	30	18	16	43	42	5.0	2.3	3/4
WEB-0610-U220-G-RELF	78	22.2	60	30	18	16	43	42	6.1	2.9	7/8
WEB-0810-U254-G-RELF	88	25.4	71	36	20	19	51	50	8.1	3.3	1
WEB-1210-U317-G-RELF	112	31.75	90	45	28	26	62	60	12.1	4.6	11/4
WEB-1610-U380-G-RELF	136	38.1	104	54	32	32	72	72	16.1	7.1	11/2
WEB-2400-U444-G-RELF	158	44.45	119	63	37	38	82	82	24.0	9.1	13/4
WEB-3200-U508-G-RELF	180	50.8	135	72	39	43	96	94	32.0	12.1	2

De-centered Lifting Points – DLP – Metric Thread – Short Bolt – Grade 100

• 'Stay-up' function for easy on-hooking when there is limited space

- Ideal for narrow spaces, such as corners or edge position, angular lifts,
- tilting under load, and multiple part lift

4:1 Safety factor

Part Number	Z mm	Y mm	X mm	M mm	L1 mm	L mm	D mm	C mm	B mm	WLL t All Directions	Size
WRB-0035-M08-ST-DLP	26	55	30	8	78	13	10	48	35	0.35	M8
WRB-0065-M10-ST-DLP	26	55	30	10	78	13	10	48	35	0.65	M10
WRB-0100-M12-ST-DLP	32	59	44	12	91	23	12	48	35	1.00	M12
WRB-0180-M16-ST-DLP	32	59	44	16	91	23	12	48	35	1.80	M16
WRB-0260-M20-ST-DLP	48	90	58	20	145	34	18	88	54	2.60	M20
WRB-0410-M24-ST-DLP	48	90	58	24	145	34	18	88	54	4.10	M24
WRB-0500-M30-ST-DLP	75	122	88	30	182	53	26	94	82	5.00	M30
WRB-0700-M36-ST-DLP	75	122	88	36	182	53	26	94	82	7.00	M36
WRB-1500-M42-ST-DLP	110	156	113	42	216	73	36	103	100	15	M42
WRB-2000-M48-ST-DLP	110	156	113	48	216	73	36	103	100	20	M48

De-centered Lifting Points – DLP – Metric Thread – Long Bolt – Grade 100

• 'Stay-up' function for easy on-hooking when there is limited space

 Ideal for narrow spaces, such as corners or edge position, angular lifts, tilting under load and multiple part lift

• Bolt, nut and washer according to: ISO 898-1 Class 10.9

• 4:1 Safety factor

WII + AII

Size	Directions	B mm	C mm	D mm	L1 mm	L2 mm	M mm	X mm	Y mm	Z mm	Part Number
M8	0.35	35	48	10	78	98	8	30	55	26	WRB-0035-M08-LB-DLP
M10	0.65	35	48	10	78	98	10	30	55	26	WRB-0065-M10-LB-DLP
M12	1.00	35	48	12	91	118	12	44	59	32	WRB-0100-M12-LB-DLP
M16	1.8	35	48	12	91	158	16	44	59	32	WRB-0180-M16-LB-DLP
M20	2.60	54	88	18	145	198	20	58	90	48	WRB-0260-M20-LB-DLP
M24	4.10	54	88	18	145	238	24	58	90	48	WRB-0410-M24-LB-DLP
M30	5.00	82	94	26	182	295	30	88	122	75	WRB-0500-M30-LB-DLP
M36	7.00	82	94	26	182	295	36	88	122	75	WRB-0700-M36-LB-DLP
M42	15	100	103	36	216	293	42	113	156	110	WRB-1500-M42-LB-DLP
M48	20	100	103	36	216	293	48	113	156	110	WRB-2000-M48-LB-DLP

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LIFTING & RIGGING COMPONENTS

De-centered Lifting Points – DLP – Imperial Thread – Short Bolt – Grade 100

• 'Stay-up' function for easy on-hooking when there is limited space

- Ideal for narrow spaces, such as corners or edge position, angular lifts, tilting under load and multiple part lift
- 4:1 Safety factor



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Size in.	WLL t All Directions	B mm	C mm	D mm	L mm	L1 mm	X mm	Y mm	Z mm	Part Number
5/16	0.35	35	48	10	13	78	30	55	26	WRB-0035-079-CP-Z102308
3/8	0.6	35	48	10	13	78	30	55	26	WRB-0060-095-CP-Z102310
1/2	1.0	35	48	12	23	91	44	59	32	WRB-0100-127-CP-Z102312
5/8	1.6	35	48	12	23	91	44	59	32	WRB-0160-158-CP-Z102316
3/4	2.2	54	88	18	34	145	58	90	48	WRB-0220-190-CP-Z102320
7/8	2.6	54	88	18	34	145	58	90	48	WRB-0260-222-CP-Z102321
1	4.1	54	88	18	34	145	58	90	48	WRB-0410-254-CP-Z102324
11/4	5.0	82	94	26	53	182	88	122	75	WRB-0500-317-CP-Z102330
11/2	7.0	82	94	26	53	182	88	122	75	WRB-0700-381-CP-Z102336
13/4	15.0	100	103	36	73	216	113	156	110	WRB-1500-444-CP-Z102342
2	20.0	100	103	36	73	216	113	156	110	WRB-2000-508-CP-Z102348

De-centered Lifting Points - DLP - Imperial Thread - Long Bolt - Grade 100

• 'Stay-up' function for easy on-hooking when there is limited space

Ideal for narrow spaces, such as corners or edge position, angular lifts, tilting under load and multiple part lift
 4:1 Safety factor



	WLL t All									
Size in.	Directions	B mm	C mm	D mm	L1 mm	L2 mm	X mm	Y mm	Z mm	Part Number
5/16	0.35	35	48	10	78	98	30	55	26	WRB-0035-079-CP-Z102308L
3/8	0.60	35	48	10	78	98	30	55	26	WRB-0060-095-CP-Z102310L
1/2	1.00	35	48	12	91	118	44	59	32	WRB-0100-127-CP-Z102312L
5/8	1.60	35	48	12	91	158	44	59	32	WRB-0160-158-CP-Z102316L
3/4	2.20	54	88	18	145	198	58	90	48	WRB-0220-190-CP-Z102320L
7/8	2.60	54	88	18	145	238	58	90	48	WRB-0260-222-CP-Z102321L
1	4.10	54	88	18	145	238	58	90	48	WRB-0410-254-CP-Z102324L
11/4	5.00	82	94	26	182	295	88	122	75	WRB-0500-317-CP-Z102330L
11/2	7.00	82	94	26	182	295	88	122	75	WRB-0700-381-CP-Z102336L
13/4	15	100	103	36	216	293	113	156	110	WRB-1500-444-CP-Z102342L
2	20	100	103	36	216	293	113	156	110	WRB-2000-508-CP-Z102348L



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Rotating Lifting Points - RLP - Grade 100

- Dismountable open D-ring allows direct connection of a round sling, master link or hook on to the RLP
 Full 360° rotation and 180° articulation
- Additional WLL provided only for axial loading
- 4:1 Safety factor

Size mm	WLL t All Directions	WLL t Straight Lift	Thread Length mm	B mm	C mm	D mm	Lmm	L1 mm	M mm	X mm	Y mm	Z mm	Part Number
M8	0.4	0.8	15	42	35	12	16	62	8	27	64	40	WRB-0030-M08-CP-RLP
M10	0.7	1.2	20	42	35	12	16	62	10	27	64	40	WRB-0050-M10-CP-RLP
M12	1.2	2.0	19	57	46	19	25	88	12	42	91	54	WRB-0075-M12-CP-RLP
M16	2.0	3.2	24	57	46	19	25	88	16	42	91	54	WRB-0150-M16-CP-RLP
M20	2.8	5.6	32	83	55	28	36	110	20	55	133	80	WRB-0250-M20-CP-RLP
M24	4.6	8	37	83	55	28	36	110	24	55	133	80	WRB-0350-M24-CP-RLP
M30	6.0	12	49	114	70	34	58	148	30	78	182	111	WRB-0600-M30-CP-RLP
M36	8.0	14	61	114	70	34	58	148	36	78	182	111	WRB-0800-M36-CP-RLP
M42	14	16	65	149	91	40.4	81	190	42	99	229	142	WRB-1400-M42-CP-RLP
M48	16	20	75	149	91	40.4	81	190	48	99	229	142	WRB-1600-M48-CP-RLP

Longer length bolts available on request

Ball Bearing Lifting Points – BLP – Grade 100

- Versatile ball bearing lifting point
- Easy rotation of load during lift
- Suitable for angular lifts, tight spaces and sensitive load surface
- 4:1 Safety factor



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Industries

Size mm	WLL t All Directions	WLL t Straight Lift	B mm	C mm	D mm	L mm	L1 mm	M mm	X mm	Y mm	Z mm	Part Number
M8	0.3	0.6	35	55	13	16	112	8	57	61	Ø42	WRSL-006-M08-ST-BLP
M10	0.5	1.0	35	55	13	20	112	10	57	61	Ø42	WRSL-010-M10-ST-BLP
M12	0.75	1.5	35	55	13	24	112	12	57	61	Ø42	WRSL-015-M12-ST-BLP
M16	1.5	3.0	35	55	13	30	112	16	57	61	Ø42	WRSL-030-M16-ST-BLP
M20	2.5	5.0	34	57	17	30	126	20	75	67	Ø59	WRSL-050-M20-ST-BLP
M24	4.0	7.0	50	70	17	36	145	24	75	84	Ø59	WRSL-070-M24-ST-BLP

Weld-on Load Rings – Grade 80

- Grade 80 alloy forged D ring
- Fatigue tested to >20,000 cycles at 1.5x WLL
- Ideal for lifting and lashing applications
- Each unit is packaged with welding instructions
- Welding must always be carried out by a qualified welder under AS/NZS 1554.1



WLL t	ØA mm	B mm	C mm	D mm	E mm	Fmm	Part Number
1	41	84	38	63	30	13	WRL-0100-NS-H-BV8
2	42	96	40	68	33	14	WRL-0200-NS-H-BV8
3	45	101	43	76.5	37	17	WRL-0300-NS-H-BV8
5	55	127	51	95	47.5	22	WRL-0500-NS-H-BV8
8	70	150.5	66	118	57	26	WRL-0800-NS-H-BV8
10	85	175	77	133	62	28	WRL-1000-NS-H-BV8



GUNNEBO

Industries

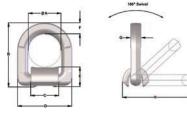
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LIFTING & RIGGING COMPONENTS

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Weld-on Load Rings – Grade 100

- Multi-directional loading
- Forged from fully tested and certified steel
- Ideal for lifting and lashing
- Welding must always be carried out by a qualified welder
- under AS/NZS 1554.1
- Complies with AS 3776





14	14	92	5000	WRL-0250-NS-T-BUL
18	18	116	8000	WRL-0400-NS-T-BUL
23	23	155	13400	WRL-0670-NS-T-BUL
	14 18 23		14 14 92 18 18 116 23 23 155	18 18 116 8000

Larger sizes available upon request

PRODUCT INSIGHT

BULLIVANTS WELD-ON LOAD RINGS - GRADE 100

- Manufactured using Australian steel
- White powder coat for high visibility
- Supplied with full welding instructions
- Weld-on lifting points must be positioned to avoid side loading
- Materials the weld-on lifting point will be attached to, must be of adequate strength



VLBG-PLUS Ring Bolt – Metric Coarse Thread – Standard & Long Bolt – Grade 120

- Up to 45% higher WLL capacity
- 360° Lifting point rotation
- ICE® Bolt made out of patented material
- Grade 120 for higher wear resistance
- Quick and easy installation
- Complies with EN 1677-1 and AS 3776
- Long Bolt
- RUD[®] crack tested ICE/Class 10.9
- Can be cut to suit specific applications
- DIN crack tested collared nut



						Standard		Long
Size	WLL t	Grade	M mm	C mm	Hmm	Part Number	Hmm	Part Number
M8	0.63	120	8	34	11	WRB-0063-M08-CP-VLBGP	76	WRB-0063-M08-CP-VLBG1P
M10	0.90	120	10	34	15	WRB-0090-M10-CP-VLBGP	96	WRB-0090-M10-CP-VLBG1P
M12	1.35	120	12	34	18	WRB-0135-M12-CP-VLBGP	116	WRB-0135-M12-CP-VLBG1P
M16	2.0	120	16	36	22	WRB-0200-M16-CP-VLBGP	149	WRB-0200-M16-CP-VLBG1P
M20	3.50	120	20	54	32	WRB-0350-M20-CP-VLBGP	187	WRB-0350-M20-CP-VLBG1P
M24	4.50	120	24	54	37	WRB-0450-M24-CP-VLBGP	222	WRB-0450-M24-CP-VLBG1P
M30	6.70	120	30	65	49	WRB-0670-M30-CP-VLBGP	279	WRB-0670-M30-CP-VLBG1P
M36	8.0	120	36	82	63	WRB-0800-M36-CP-VLBG10	223	WRB-0800-M36-CP-VLBG1P
M42	10.0	120	42	82	73	WRB-1000-M42-CP-VLBGP	273	WRB-1000-M42-CP-VLBG10
M42	15.0	120	42	100	63	WRB-1500-M42-CP-VLBG10	263	WRB-1500-M42-CP-VLBG20
M48	20.0	120	48	100	73	WRB-2000-M48-CP-VLBG20	303	WRB-2000-M48-CP-VLBG10

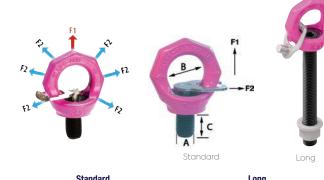


Bullivants

VRS-F Starpoint Eye Bolt – Metric Coarse Thread - Standard & Long Bolt - Grade 100

04

- Multi-directional threaded design
- Load ratings up to six times the capacity of collared eye bolts
- Adjusts to direction of pull
- Unique key design for easy fitting
- Ideal for both axial and angular loading
- Complies with EN 1677-1 and AS 3776
- Stamped with WLL F2



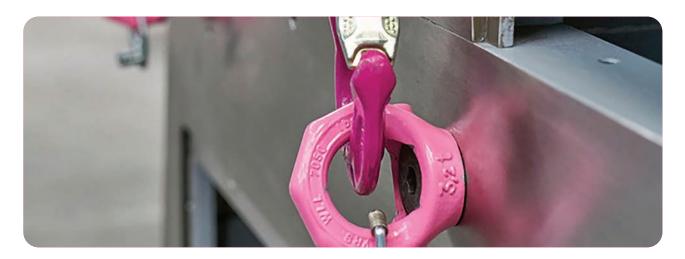
					Standard			Long
Size	WLL F1 t	WLL F2 t	A mm	B mm	C mm	Part Number	C mm	Part Number
M6	0.50	0.10	6	20	9	WEB-0010-M06-R-VRSF		
M8	1.00	0.30	8	25	12	WEB-0030-M08-R-VRSF		
M10	1.00	0.40	10	25	15	WEB-0040-M10-R-VRSF	70	WEB-0040-M10-R-VRSFV
M12	2.00	0.75	12	30	18	WEB-0075-M12-R-VRSF	150	WEB-0075-M12-R-VRSFV
M16	4.00	1.50	16	35	24	WEB-0150-M16-R-VRSF	120	WEB-0150-M16-R-VRSFV
M20	6.00	2.30	20	40	30	WEB-0230-M20-R-VRSF	160	WEB-0230-M20-R-VRSFV
M24	8.00	3.20	24	48	36	WEB-0320-M24-R-VRSF	140	WEB-0320-M24-R-VRSFV
M30	12.00	4.50	30	60	45	WEB-0450-M30-R-VRSF	190	WEB-0450-M30-R-VRSFV
M36	16.00	7.00	36	72	54	WEB-0700-M36-R-VRSF		
M42	24.00	9.00	42	82	63	WEB-0900-M42-R-VRSF		
M48	32.00	12.00	48	94	72	WEB-1200-M48-R-VRSF		

VWBG-V Swivel Lifting Ring – Grade 100

- Designed for loads that need to be turned or rotated Will rotate 360° under load
- Oversized load rings
- Variable bolt length available on VWBG-V (0.3 5t)
- Thread size: M8 M30
- Complies with EN 1677-1, EN 1677-4 and AS 3776



Size	WLL t	Style	B mm	C mm	Part Number
M8	0.30	Standard	29	13	WRSL-003-M08-WBGV-12
M10	0.45	Standard	29	17	WRSL-004-M10-WBGV-45
M12	0.60	Standard	35	21	WRSL-006-M12-WBGV-21
M16	1.30	Standard	38	25	WRSL-013-M16-WBGV-30
M20	2.00	Standard	35	33	WRSL-020-M20-WBGV-33
M24	3.50	Standard	40	40	WRSL-035-M24-WBGV-40
M30	5.00	Standard	50	50	WRSL-050-M30-WBGV-50



LIFTING & RIGGING COMPONENTS

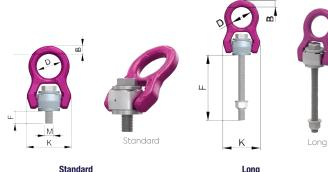
ACP-TURNADO Lifting Point – Metric Coarse Thread – Standard & Long Bolt – Grade 120

– Standard & Long Bolt – Grade

- Full WLL in all directions
 Unique spring mechanism
- Unique spring mechanism
 RUD[®] ICE[®] bolt
- Long bolt comes with DIN collared nut
- Wear indicators

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• Complies with EN 1677-1 and AS 3776

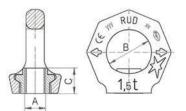


					Stalluaru			LUIIg
Size	WLL t	B mm	D mm	K mm	Fmm	Part Number	Fmm	Part Number
M12*	1.35	11	38	58	19	WRB-0135-M12-CP-7909314	117	WRB-0135-M12-LB-8600632
M16*	2.5	14	50	76	22	WRB-0250-M16-CP-7909316	149	WRB-0250-M16-LB-8600634
M20*	4	17	50	89	26.5	WRB-0400-M20-CP-7909317	186.5	WRB-0400-M20-LB-8600636
M24*	6.3	23	66	120.5	34	WRB-0630-M24-CP-7909318	210	WRB-0630-M24-LB-8600638
M30	8	29	75	148	41.5	WRB-0800-M30-CP-7909319	271.5	WRB-0800-M30-LB-TURNADO
M36	12.5	32	82	168	45	WRB-1250-M36-CP-7911052		
M42	16	32	82	168	53	WBB-1600-M42-CP-7911053		

*ICE® patented material

VRM Starpoint Eye Nuts - Metric Coarse Thread - Grade 100

- Multi-directional threaded design
- Load ratings up to six times the capacity
- of collared eye nuts
- Adjusts to direction of pull
- Ideal for both axial and angular loading
- Complies with EN 1677-1 and AS 3776
- Stamped with WLL F2







Part Number	C mm	B mm	A mm	WLL F2 t	WLL F1 t	Size
WEN-0010-M6-VRM	11	20	6	0.10	0.5	M6
WEN-0030-M8-VRM	14	25	8	0.30	1.0	M8
WEN-0040-M10-VRM	14	25	10	0.40	1.0	M10
WEN-0075-M12-VRM	17	30	12	0.75	2.0	M12
WEN-0150-M16-VRM	21	35	16	1.50	4.0	M16
WEN-0230-M20-VRM	23	40	20	2.30	6.0	M20
WEN-0320-M24-VRM	29	48	24	3.20	8.0	M24
WEN-0450-M30-VRM	34	60	30	4.50	12.0	M30

VLBS Weld-on Load Rings – Grade 100

- Multi-directional loading
- Weld-on design
- Forged alloy steel load ring
- Rated capacity can be increased 100% in specific lashing applications
- Available with and without internal position holding springs
- Designed in accordance with EN 1677-1 and AS 3776



WLL t	D mm	T mm	F mm	With Spring Without Spring
1.5	38	65	14	WRL-0150-SP-R-VLBS WRL-0150-NS-R-VLBS
2.5	45	75	16	WRL-0250-SP-R-VLBS WRL-0250-NS-R-VLBS
4.0	51	83	18	WRL-0400-SP-R-VLBS WRL-0400-NS-R-VLBS
6.7	67	117	24	WRL-0670-SP-R-VLBS WRL-0670-NS-R-VLBS
10.0	67	126	27	WRL-1000-SP-R-VLBS WRL-1000-NS-R-VLBS
16.0	100	176	40	WRL-1600-SP-R-VLBS WRL-1600-NS-R-VLBS

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VRBS Weld-on Eye Plates – Grade 100

- Multi-directional loading
- Weld-on design
- Ring folds flat
- Forged alloy steel load ring
- Rated capacity can be increased 100% in specific lashing applications
- Complies with EN 1677-1 and AS 3776



WLL t	E mm	D mm	B mm	Part Number
4.0	135	48	14	WEP-0400-R-VRBS
6.7	170	60	20	WEP-0670-R-VRBS
10.0	195	65	22	WEP-1000-R-VRBS
16.0	263	90	30	WEP-1600-R-VRBS
31.5	373	130	42	WEP-3000-R-VRBS

W-ABA Weld-on Load Ring

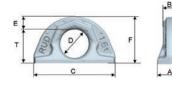
- Patented wear markings provide clear replacement indicators
- Each ABA point is electro-magnetic tested to guarantee integrity
- Weld-on lifting point
- Safer alternative to current pad eye lifting devices
- Complies with standard RUD® 4:1 Safety factor on WLL
- Complies with EN 1677-1 and AS 3777

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Use permitted: Wear indicators visible. Use prohibited: Material has worn to the wear indicators.





WLL t	A mm	B mm	C mm	D mm	E mm	F mm	T mm	Part Number
0.8	22	12	70	32	12	50	38	WRL-0080-NS-R-ABA
1.6	30	16	100	35	16	57	42	WRL-0160-NS-R-ABA
3.2	41	23	137	50	21	80	59	WRL-0320-NS-R-ABA
5.0	51	27	172	60	28	99	72	WRL-0500-NS-R-ABA
10.0	70	38	228	80	35	130	95	WRL-1000-NS-R-ABA
20.0	90	52	272	115	40	175	135	WRL-2000-NS-R-ABA
31.5	108	64	320	130	50	204	154	WRL-3150-NS-R-ABA

Weld-on Pad Eyes - DPLP - Grade 100

- Full Working Load Limit (WLL) in all directions
- Forged from G300 Mild Steel AS 3679.1 Grade 300PLUS
- If used as a lashing point, the stated WLL can be doubled
- Welding must be carried out by a qualified welder under AS 1554.1

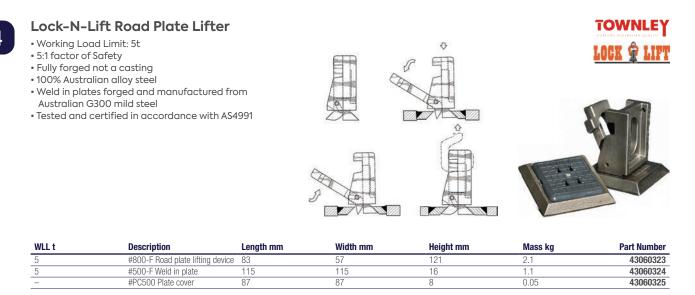


WLL t	A mm	B mm	C mm	D mm	E mm	Part Number
1.6	100	24	30	42	18	WRL-0160-FW-T-DPLP
2.5	130	28	35	48	20	WRL-0250-FW-T-DPLP
4.0	160	38	45	62	22	WRL-0400-FW-T-DPLP
6.7	180	46	60	76	28	WRL-0670-NS-T-DPLP
10	240	70	80	100	36	WRL-1000-FW-T-DPLP



WEP-1600-R-VRBS WEP-3000-R-VRBS

LIFTING & RIGGING COMPON



BALUSTRADING ACCESSORIES – STAINLESS STEEL

Saddle Strap Eye - Grade 304 - Stainless Steel

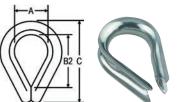
Wire Rope Grips – Grade 316 - Stainless Steel



D mm	L mm	W mm	Hmm	Part Number
5	54	20	13	WSDS-05-40-32205
6	62	21	15	WSDS-06-46-32206
8	65	21	16	WSDS-08-49-32208
Not suitak	ole for lifting			

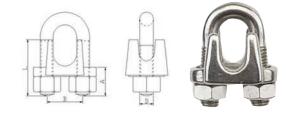
Not suitable for lifting

Wire Rope Thimbles - Grade 304 - Stainless Steel



Suits Rope mm	A mm	B2 mm	C mm	Part Number
2.0	7	12	21	WST-020-23402
3.2	9	14	23	WST-030-23403
4.0	11	16	27	WST-040-23404
5.0	14	21	33	WST-050-23405
6.0	16	26	39	WST-060-23406
8.0	22	35	50	WST-080-23408
10.0	25	40	56	WST-100-23410
12.0	31	47	66	WST-120-23412

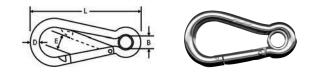
Not suitable for lifting



Size mm	A mm	B mm	D mm	L mm	Part Number
2	10	7	M2	18	WSWG-02-26002
3	12	8	M3	23.5	WSWG-03-26003
4	15	10	M4	24	WSWG-04-26004
5	18	12	M5	32	WSWG-05-26005
6	20	14	M6	36	WSWG-06-26006
8	20	18	M8	40	WSWG-08-26008
10	28	22	M10	50	WSWG-10-26010

HOOKS – STAINLESS STEEL

Spring Hooks with Eve - Grade 316 - Stainless Steel



Dmm Lmm Bmm Emm	Part Number
6 60 7 9	WSRH-0060-245006
8 80 10 9	WSRH-0080-245008

Not suitable for lifting

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SWIVEL – STAINLESS STEEL

Swivel Eye Bolt Snaps – Grade 316 - Stainless Steel

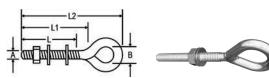


d mm	H mm	L mm	S mm	t mm	W mm	Part Number
12	11	76	7.5	5	21	WSEBS-120-HSW16EP12
19	18	90	8.5	8	24	WSEBS-190-HSW16EP19
25	23	97	10.0	10	24	WSEBS-250-HSW16EP25
ALL N		1.01.				

Not suitable for lifting

EYEBOLTS/SCREWS – STAINLESS STEEL

Eyebolt Kits – Grade 304 – Stainless Steel • Includes: Nut and 2 x flat washers



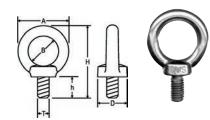
A mm	L mm	B mm	L1 mm	L2 mm	Part Number
6	35	13	40	64	WSEB-060-040-319164
6	55	13	60	104	WSEB-060-HEB04PM060060
6	75	13	80	104	WSEB-060-080-319168
6	95	13	100	124	WSEB-060-HEB04PM060100
8	55	17	60	92	WSEB-080-HEB04PM080060
8	75	17	80	112	WSEB-080-HEB04PM080080
8	95	17	100	132	WSEB-080-100-3191810
8	125	17	130	162	WSEB-080-HEB04PM080130
10	75	21	80	119	WSEB-100-HEB04PM100080
10	95	21	100	139	WSEB-100-HEB04PM100100
10	115	21	120	159	WSEB-100-120-3191112
10	145	21	150	189	WSEB-100-HEB04PM100150
12	95	25	100	146	WSEB-120-HEB04PM120100
12	145	25	150	196	WSEB-120-HEB04PM120150

12 145 25 Not suitable for lifting

EYEBOLTS/NUTS – STAINLESS STEEL

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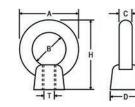
Eyebolts with Collar – Grade 316 - Stainless Steel



A mm	B mm	D mm	H mm	h mm	Part Number
26	16	13	41	11	WSEB-060-041-M6
32	20	16	50	15	WSEB-060-050-M8
40	25	20	63	21	WSEB-100-063-M10
49	30	25	75	23	WSEB-120-074-M12
60	35	30	87	25	WSEB-160-087-M16
70	40	35	103	32	WSEB-200-030-M20
89	50	50	130	40	WSEB-240-130-M24
	26 32 40 49 60 70	26 16 32 20 40 25 49 30 60 35 70 40	26 16 13 32 20 16 40 25 20 49 30 25 60 35 30 70 40 35	26 16 13 41 32 20 16 50 40 25 20 63 49 30 25 75 60 35 30 87 70 40 35 103	26 16 13 41 11 32 20 16 50 15 40 25 20 63 21 49 30 25 75 23 60 35 30 87 25 70 40 35 103 32

Not suitable for lifting

Eyenuts – Grade 316 - Stainless Steel





T mm	H mm	B mm	A mm	D mm	C mm	Part Number
6	31.0	16	26.0	13	5.0	WSEN-06-HEN16PM06
8	38.5	20	32.6	16	6.3	WSEN-08-HEN16PM08
10	49.0	25	41.0	20	8.0	WSEN-10-HEN16PM10
12	60.0	30	50.0	25	10.0	WSEN-12-HEN16PM12
16	70.5	35	60.0	30	12.5	WSEN-16-HEN16PM16
20	85.5	40	72.0	35	16.0	WSEN-20-HEN16PM20
24	90.0	50	90.0	45	20.0	WSEN-24-HEN16PM24

Not suitable for lifting



ALLOY CHAIN SLINGS & FITTINGS

CHAIN SLINGS – GRADE 100	102	FITTINGS – ALLOY GRADE 80	114
CHAIN & FITTINGS - ALLOY GRADE 100	104	FITTINGS – GRADE T(8)	116
CHAIN & FITTINGS – GRADE 120	112	CHAIN & FITTINGS – GRADE 60	116





CHOOSING THE RIGHT ALLOY CHAIN SLING

Bullivants standard chain slings are manufactured using Grade 100 chain & fittings

Bullivants stocks a large range of 1, 2 or 4-leg slings to AS 3775.1 and all are supplied standard with shortening hooks for versatility (e.g. if you require a 2.5m sling length then a 3m chain sling with shortening hooks can be used).

Alloy Chain Slings can be made in many configurations and are manufactured using short link lifting chain in accordance with Australian Standards AS 2321. Variations can include the number of legs, the length of legs and the fittings attached to the chain. All alloy chain slings must be proof tested and supplied with a WLL tag in accordance with AS 3775.1 (section 8.1).

BENEFITS

- · Adjustable in length with fitted shortening hooks
- Quick to assemble and test
- Very high chemical resistance (refer to chain sling safe use guide for compatibility)
- Long lasting compared to wire rope and synthetic slings
- Large variety of configurations stocked for immediate supply
- Able to work in higher temperature environments than wire rope & synthetic slings (refer to chain sling safe use guide)
- Easy to use and inspect
- Many types of fittings available to suit specific applications

All Bullivants Grade 100 Alloy Chain Slings are assembled locally using quality Grade 100 materials.

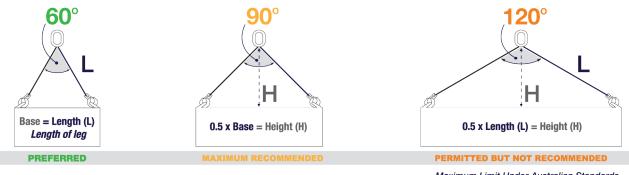
CARE & USE

- Ensure that the chain is free from twists and is protected from any sharp corners
- Avoid crushing chain
- Never heat or heat treat chain
- Lightly oil chain prior to prolonged storage and store in a clean and dry place
- Always visually inspect chain and ensure that they are free from damage or wear before use
- Every chain link should be individually checked for evidence of wear, twisting, cracks, breaks, gouges, corroded or stretched links in accordance with manufacturer's specifications
- Chain links or fittings found to have defects should be clearly marked to indicate rejection and withdrawn from service
- Results of each inspection and repair should be entered on the chain assembly inspection record
- Review any potential exposure to acid or other corrosive environment

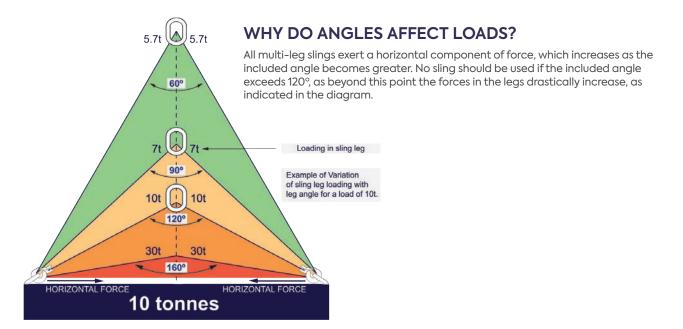
STEPS TO PEFORMING A SAFE LIFT

- 1. Know the WEIGHT of the load, if not, ask your supervisor
- 2. Know the APPLICATION requirements (single or multi leg, basket or choke hitch)
- 3. Ensure the CORRECT gear is selected for the lift
- 4. INSPECT all gear before use
- 5. FLOAT the load and check for BALANCE
- 6. LIFT the load slowly and in a controlled manner
- 7. Establish a LANDING PAD with packers to prevent crushing or jamming of the lifting gear
- 8. Always RE-INSPECT the gear after use
- 9. STORE gear off the ground in a clean dry area

LIFTING LIMITATIONS - HOW TO CALCULATE A SAFE ANGLE FOR LIFTING



Maximum Limit Under Australian Standards



WHY INSPECTION IS IMPORTANT

Chain Slings have an extremely important job and regular inspections are imperative. With damage/ deterioration present in the sling there is the potential for the sling to fail when lifting a load. At that point, any persons or objects nearby, are at risk of danger or harm.

When inspecting chain slings the following points must be assessed:

- Working Load Limit (WLL) tag is present, legible and correctly fitted
- Wear, chips, cuts, breaks or gouges
- Corroded, cracked, stretched or twisted links
- Bent or deformed chain links or components
- Any wear or damage on the coupling and master links at their load bearing points, such as widening of hook throat opening

Check the identification tag to ensure the manufacturer's name, serial number, working load limit, grade, size and length all correspond to the certification. If the sling is deemed defective, it must be marked and removed from service until properly repaired and retested prior to returning to service. All slings shall be inspected by a competent person, in accordance with AS 3775.2.

INITIAL INSPECTION

An inspection of all new or repaired slings must be performed to ensure that no damage has occurred during transit before being placed into service by the competent operator. This is to also ensure that the correct sling is being used as well as determining that the sling meets the applicable requirements.

FREQUENT INSPECTION

This inspection should be conducted by the competent operator handling the sling or designated person each time the sling is used and before each lift. Always take the time to inspect the sling before and after each lift. Never assume that slings have been inspected by others.

PERIODIC INSPECTION

All slings must be inspected 'periodically' by designated personnel at regular intervals. Intervals for Periodic inspection are as per AS 3775.2 Appendix C. and is based on the frequency of use, severity of service conditions and the nature of the work being performed. The Periodic Inspection should be conducted by someone other than the individual(s) who perform the Frequent Inspection.

GRADE 100 ALLOY CHAIN SLINGS FOR SINGLE & MULTI LEG ASSEMBLIES

CHAIN SIZE MM		STRAIGHT SLING OR ADJUSTABLE SLING WITH NO	ADJUSTABLE SLING WITH DERATION	REEVED SLING	BASKET SLING	STR	AIGHT SL (NOTE 2)		REEVED SLING (NOTES 2 & 3)	BASKET SLING (NOTES 2 & 3)
SIZE MM		DERATION	(NOTE 1)	JLING	MAX 60°	60°	90°	120°	Max Angle 60°	Max Angle 60°
			Q	Ď	Ô		Å		And	Å
				١	WORKING LO	AD LIMIT	S (TONNI	ES)		
5		1	0.8	0.8	1.3	1.7	1.4	1	1.3	2.3
6		1.4	1.1	1.1	1.8	2.4	2.0	1.4	1.8	3.2
7		1.9	1.4	1.4	2.5	3.3	2.7	1.9	2.5	4.3
8		2.5	1.9	1.9	3.3	4.3	3.5	2.5	3.3	5.6
10		4	3.0	3.0	5.2	6.9	5.6	4	5.2	9.0
13	(100)	6.7	5.0	5.0	8.7	11.6	9.4	6.7	8.7	15.1
16	۲ ۲	10	7.5	7.5	13.0	17.3	14.1	10	13.0	22.5
18	Grade	12.5	9.4	9.4	16.3	21.6	17.6	12.5	16.3	28.1
19	Gro	14	10.5	10.5	18.2	24.2	19.7	14	18.2	31.5
20		16	12.0	12.0	20.8	27.7	22.6	16	20.8	36.0
22		19	14.3	14.3	24.7	32.9	26.8	19	24.7	42.8
23		21	15.8	15.8	27.3	36.3	29.6	21	27.3	47.3
26		26.5	19.9	19.9	34.5	45.8	37.4	26.5	34.5	59.6
28		31.5	23.6	23.6	41.0	54.5	44.4	31.5	41.0	70.9
32		40	30.0	30.0	52.0	69.2	56.4	40	52.0	90.0

Notes:

- 1. Some shortening devices, such as grab hooks may derate the WLL
- Advice regarding the appropriate deration should be sought by the manufacturer
- 2. The determination of the angle of the multi-leg sling is the largest included angle at the apex of the configuration
- 3. Reeved slings and basket slings, in a two leg configuration have a maximum angle for use of 60°
- 4. Bullivants Grade 100 alloy chain cannot be used in applications or environments exceeding a temperature of 200°C

THE BULLIVANTS INDIGENOUS SCHOLARSHIP PROGRAM

The Bullivants Indigenous Scholarship Program is guaranteed to support 2x Indigenous university students studying Engineering.

Purchase selected Bullivants Grade 100 Chain Sling Assemblies and a percentage of the proceeds from each sale will be donated by Bullivants towards the scholarship program.

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Bullivants Indigenous Scholarship Program

Visit **bullivants.com** for more information about the program or contact your nearest branch to make a purchase.

CHAIN SLINGS – GRADE 100

Grade 100 Assembled Slings – Self Locking Hooks – Single Leg

• All assemblies supplied with 100% rated grab hooks, self locking hooks and Gunnebo chain

- All chain sling assemblies are supplied with
- NATA load test certificates
- Complies with AS 3775.1

	Leg Length	Chain Size	
WLL t	m Č	mm	Part Number
1.4	1	6	WCS-06-1-010-BVE
1.4	2	6	WCS-06-1-020-BVE
1.4	3	6	WCS-06-1-030-BVE
1.4	4	6	WCS-06-1-040-BVE
2.5	1	8	WCS-08-1-010-BVE
2.5	2	8	WCS-08-1-020-BVE
2.5	3	8	WCS-08-1-030-BVE
2.5	4	8	WCS-08-1-040-BVE
2.5	5	8	WCS-08-1-050-BVE
2.5	6	8	WCS-08-1-060-BVE
4.0	1	10	WCS-10-1-010-BVE
4.0	2	10	WCS-10-1-020-BVE
4.0	3	10	WCS-10-1-030-BVE
4.0	4	10	WCS-10-1-040-BVE
4.0	5	10	WCS-10-1-050-BVE
4.0	6	10	WCS-10-1-060-BVE
6.7	1	13	WCS-13-1-010-BVE
6.7	2	13	WCS-13-1-020-BVE
6.7	3	13	WCS-13-1-030-BVE
6.7	4	13	WCS-13-1-040-BVE
6.7	5	13	WCS-13-1-050-BVE
6.7	6	13	WCS-13-1-060-BVE
10.0	2	16	WCS-16-1-020-BVE
10.0	3	16	WCS-16-1-030-BVE
10.0	4	16	WCS-16-1-040-BVE

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Grade 100 Assembled Slings – Self Locking Hooks – 2 Leg

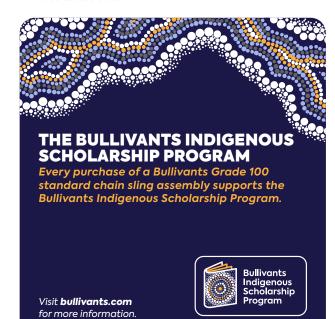
• All assemblies supplied with 100% rated grab hooks, self locking hooks and Gunnebo chain

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- Reeved slings and basket slings in a two leg configuration have a maximum angle of 60°
- Determination of the angle of the multi-leg sling is the largest included angle at the apex of the configuration
- All chain sling assemblies are supplied with NATA load test certificates
- Complies with AS 3775.1

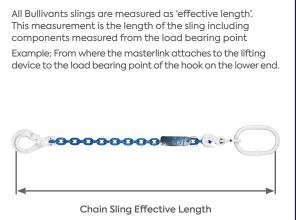
	Part Number	Chain Size mm	Leg Length	WLL t
-	WCS-06-2-010-BVE	6	1	2.4
-	WCS-06-2-020-BVE	0	2	2.4
	WCS-06-2-030-BVE	6	3	2.4
-	WCS-06-2-040-BVE	6	4	2.4
-	WCS-06-2-060-BVE	6	6	2.4
	WCS-08-2-010-BVE	8	1	4.3
-	WCS-08-2-015-BVE	8	1.5	4.3
	WCS-08-2-020-BVE	8	2	4.3
-	WCS-08-2-030-BVE	8	3	4.3
	WCS-08-2-040-BVE	8	4	4.3
	WCS-08-2-050-BVE	8	5	4.3
	WCS-08-2-060-BVE	8	6	4.3
	WCS-08-2-080-BVE	8	8	4.3
	WCS-10-2-010-BVE	10	1	6.9
	WCS-10-2-020-BVE	10	2	6.9
	WCS-10-2-030-BVE	10	3	6.9
	WCS-10-2-040-BVE	10	4	6.9
	WCS-10-2-050-BVE	10	5	6.9
	WCS-10-2-060-BVE	10	6	6.9
	WCS-10-2-080-BVE	10	8	6.9
	WCS-10-2-100-BVE	10	10	6.9
	WCS-13-2-010-BVE	13	1	11.6
	WCS-13-2-020-BVE	13	2	11.6
	WCS-13-2-030-BVE	13	3	11.6
•	WCS-13-2-040-BVE	13	4	11.6
	WCS-13-2-050-BVE	13	5	11.6
•	WCS-13-2-060-BVE	13	6	11.6
•	WCS-13-2-080-BVE	13	8	11.6
	WCS-16-2-020-BVE	16	2	17.3
•	WCS-16-2-030-BVE	16	3	17.3
	WCS-16-2-040-BVE	16	4	17.3
	WCS-16-2-050-BVE	16	5	17.3
	WCS-16-2-060-BVE	16	6	17.3
	WCS-16-2-080-BVE	16	8	17.3

WLL is calculated at 60°



PRODUCT INSIGHT

EFFECTIVE LENGTH



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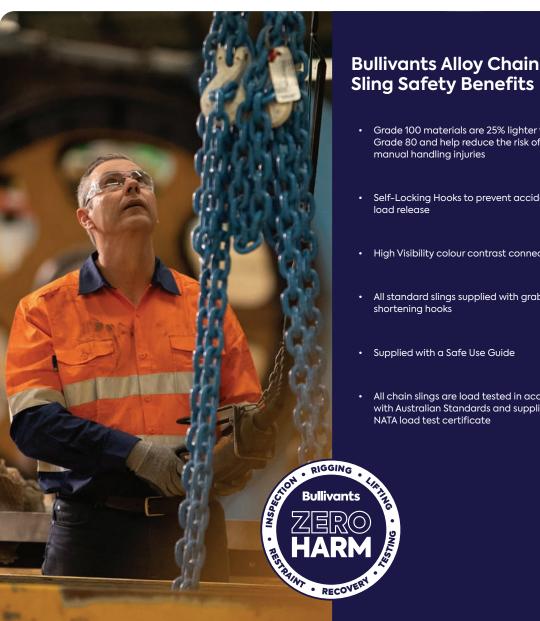
Grade 100 Assembled Slings – Self Locking Hooks – 4 Leg

- All assemblies supplied with 100% rated grab hooks, self locking hooks and Gunnebo chain
- Reeved slings and basket slings in a two, three or four leg configuration have a maximum angle of 60°
- Determination of the angle of the multi-leg sling is the largest included angle at the apex of the configuration
- All chain sling assemblies are supplied with NATA load test certificates
- Complies with AS 3775.1

WLL t	Leg Length m	Chain Size mm	Part Number	W
2.4	2	6	WCS-06-4-020-BVE	6
2.4	3	6	WCS-06-4-030-BVE	6
2.4	6	6	WCS-06-4-060-BVE	
4.3	1	8	WCS-08-4-010-BVE	1
4.3	2	8	WCS-08-4-020-BVE	1
4.3	3	8	WCS-08-4-030-BVE	1
4.3	4	8	WCS-08-4-040-BVE	1
4.3	6	8	WCS-08-4-060-BVE	1
6.9	1	10	WCS-10-4-010-BVE	1
6.9	2	10	WCS-10-4-020-BVE	1
6.9	3	10	WCS-10-4-030-BVE	1
6.9	4	10	WCS-10-4-040-BVE	

WLL t	Leg Length m	Chain Siz mm	e Part Number
6.9	5	10	WCS-10-4-050-BVE
6.9	6	10	WCS-10-4-060-BVE
11.6	2	13	WCS-13-4-020-BVE
11.6	3	13	WCS-13-4-030-BVE
11.6	4	13	WCS-13-4-040-BVE
11.6	5	13	WCS-13-4-050-BVE
11.6	6	13	WCS-13-4-060-BVE
11.6	8	13	WCS-13-4-080-BVE
17.3	4	16	WCS-16-4-040-BVE
17.3	5	16	WCS-16-4-050-BVE
17.3	6	16	WCS-16-4-060-BVE
		WI	L is calculated at 60°





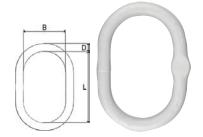
- **Sling Safety Benefits**
 - Grade 100 materials are 25% lighter than Grade 80 and help reduce the risk of potential manual handling injuries
 - Self-Locking Hooks to prevent accidental load release
- High Visibility colour contrast connecting points
- All standard slings supplied with grab type shortening hooks
- Supplied with a Safe Use Guide
- All chain slings are load tested in accordance with Australian Standards and supplied with a NATA load test certificate



CHAIN & FITTINGS – ALLOY GRADE 100

Master Link – Grade 100

- Suitable for single leg or 2 leg slings
- 25% Stronger than Grade 80 equivalent
- Individually tested to 2 x WLL
- Surface finish: White powder coat
- Complies with AS 3776



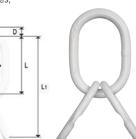
Size mm 1 Leg	Size mm 2 Leg	WLL t	B mm	D mm	L mm	Mass kg	Part Number
8	6	2.5	70	13	120	0.4	WMAL-08/06-R-MF+W
10	8	4.0	80	17	140	0.8	WMAL-10/08-G-MF+W
13	10	6.7	95	22	160	1.5	WMAL-13/10-G-MF+W
16	13	10	110	25	190	2.8	WMAL-16/13-G-MF+W

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Multilink – Grade 100

- Suit two, three or four leg assemblies and are available ranging from 5.0 – 35t
- Load ratings quoted, in some cases, exceed the WLL on chain slings
- When used in chain sling assemblies use the WLL for the relevant chain size
- 100% Proof loaded with full traceability
- Ideal for two, three and four leg slings
- Complies with AS 3776

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Chain Size mm	WLL t at 60°	B mm	D mm	L mm	L1 mm	Mass kg	Part Number
6	2.4	90	19	160	270	1.8	WMAL-060-G-MT+W
8	4.3	95	22	160	300	3.0	WMAL-080-G-MT+W
10	6.9	120	30	200	360	6.4	WMAL-100-G-MT+W
13	11.6	150	40	250	440	14.2	WMAL-130-G-MT+W
16	17.3	200	50	300	500	23	WMAL-160-G-MT+W

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Chain Connecting Link - Grade 100

- Suitable for joining chain
- to components • 25% Stronger than Grade 80 equivalent
- Individually tested to 2 x WLL • Surface finish:
- White powdercoat • Complies with

WII A

AS 3776

Chain

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1	B	C I	D	E	Mass

Size mm	t	mm	mm	mm	mm	mm	kg	Part Number
6	1.4	7	7.3	17.5	16	44	0.09	WCUP-060-BVE-G100
8	2.5	8.5	10.5	21.3	23	56	0.176	WCUP-080-BVE-G100
10	4	11.3	14	25.8	29	68	0.33	WCUP-100-BVE-G100
13	6.7	15	17	32	34	82	0.65	WCUP-130-BVE-G100
16	10	17	21	40.4	41	104	1.23	WCUP-160-BVE-G100
All chain	slinas	must		ofloc	ad tos	to hat	tor ass	embly in

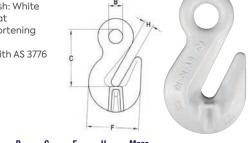
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load tested after assembly in accordance with AS 3775.1

Eye Type Grab Hook - Grade 100

• Eye type for use with connecting link

- No reduction in WLL due to supporting lugs
- 25% Stronger than Grade 80 equivalent
- Individually tested to 2 x WLL
- Surface finish: White powder coat
- Ideal for shortening
- chain slings • Complies with AS 3776



Chain Size mm	WLL t	B mm	C mm	F mm	H mm	Mass kg	Part Number
6	1.4	13.5	52.3	42.5	7.4	0.13	WGRH-060-BVE-G100
8	2.5	15	58	56.3	10	0.33	WGRH-080-BVE-G100
10	4.0	19.5	76	72.5	12	0.75	WGRH-100-BVE-G100
13	6.7	24	102	93	15	1.4	WGRH-130-BVE-G100
16	10	30	113	106.7	22	2.2	WGRH-160-BVE-G100

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Clevis Grab Hook - Grade 100

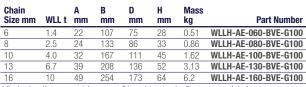
- Clevis pin for direct connection to chain without connecting link
- No reduction in WLL due to supporting lugs
- 25% Stronger than Grade 80 equivalent
- Individually tested to 2 x WLL
- Surface finish: White powder coat
- Ideal for shortenina chain slings
- Complies with AS 3776

Chain Size mm	WLL t	B mm	D mm	F mm	H mm	Mass kg	Part Number					
8	2.5	9.3	96.4	57.8	9.5	0.39	WGRH-C-080-BVE-G100					
10	4	12	128	80	12	0.9	WGRH-C-100-BVE-G100					
13	6.7	15	158	94	15	1.58	WGRH-C-130-BVE-G100					
16	10	19	188.4	114.9	19.5	2.4	WGRH-C-160-BVE-G100					
All chains	All chain slings must be proof load tested after assembly in											

accordance with AS 3775.1

Eye Type Self Locking Hook - Grade 100

- Eye type for use with connecting link
- Secure solution, unable to
- Low profile trigger to prevent
- 25% Stronger than
- Surface finish: White
- powder coat



load tested after assembly in accordance with AS 3775.1



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- - open whilst load is applied
 - snagging and damage
 - Grade 80 equivalent
 - Individually tested to 2 x WLL

 - Complies with AS 3776

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Eye Type Bearing Swivel Self Locking Hook – Grade 100

- Ball bearing allows smooth swivelling under load
- Self locking for
- maximum safety
- Fitted with spring loaded latch
- 25% Stronger than
- Grade 80 equivalent
- Individually tested to 2 x WLL
- Surface finish: White
- powder coated
- Ideal for loaded

Chain

- swivelling operations • Complies with AS 3776



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Size mm	WLL t	mm	mm	mm	mm	kg	Part Number				
6	1.4	37	27	32	163	0.6	WLSH-060-BV-G100				
8	2.5	41	35.5	39	202	1.1	WLSH-080-BV-G100				
10	4.0	48	45	48	244	2.0	WLSH-100-BV-G100				
13	6.7	55	52.5	57	292	4.0	WLSH-130-BV-G100				
16	10	62	62	62	346	6.8	WLSH-160-BV-G100				
Allohain	All obain clinas must be proof load tested after assembly in										

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Clevis Self Locking Hook - Grade 100

- Clevis pin for direct connection to chain without connecting link
- Secure solution, unable to open whilst load is applied
- Low profile trigger to prevent snagging and damage
- 25% Stronger than Grade 80 equivalent
- Individually tested to 2 x WLL
- Surface finish: White powder coat
- Complies with AS 3776

Chain A B C D Н Mass

Part Number	ĸg	mm	mm	mm	mm	mm	WLL t	Size mm
WLLH-C-060-BVE-G100	0.59	28	75	22	98	7	1.4	6
WLLH-C-080-BVE-G100	0.92	33	86	25	120	9	2.5	8
WLLH-C-100-BVE-G100	1.72	45	111	34	150	13	4.0	10
WLLH-C-130-BVE-G100	3.33	52	136	40	185	15	6.7	13
WLLH-C-160-BVE-G100	6.32	64	173	53	215	17	10	16

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Eye Type Sling Hook - Grade 100

• Eye type for use with connecting link

- Fitted with spring loaded latch
- 25% Stronger than
- Grade 80 equivalent Individually tested to
- 2 x WLL • Surface finish: White
- powder coat
- Complies with AS 3776



Chain Size mm	WLL t	A mm	B mm	C mm	E mm	Mass kg	Part Number
8	2.5	135	94	24.5	24	0.60	WSLH-AE-080-BVE-G100
10	4.0	175	122	33	29	1.08	WSLH-AE-100-BVE-G100
13	6.7	216	152	40	37	1.84	WSLH-AE-130-BVE-G100
16	10	274	203	50	48	4.16	WSLH-AE-160-BVE-G100

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Clevis Sling Hook – Grade 100

- Clevis pin for direct connection to chain without connecting link
- Fitted with spring
- loaded latch
- 25% Stronger than Grade 80 equivalent
- Individually tested to
- 2 x WLL • Surface finish: White
- powder coated
- Complies with AS 3776



Chain Size ı		B t mm	Fmm	H mm	l mm	Mass kg	Part Number					
8	2.5	85	10	87.8	24	0.61	WSLH-C-080-BVE-G100					
10	4.0	100	11.5	112.9	29	1.02	WSLH-C-100-BVE-G100					
13	6.7	126	15	132.1	37	1.78	WSLH-C-130-BVE-G100					
16	10	173	18.5	173.2	48	4.42	WSLH-C-160-BVE-G100					
Allch	All chain slings must be proof load tested after assembly in											

embly accordance with AS 3775.1

Grade 100 Alloy Chain – GrabiQ

- Short link lifting chain in Grade 100 giving 25% higher WLL than normal Grade 80 chain
- Available in sizes 6 32mm
- Blue powder coated finish
- Marked with traceability
- code and manufacturers ID Maximum in service temperature 200°C, higher
- temperature possible on request
- Reliable and cost efficient Suitable for
- lifting operations
- Complies with AS 2321



Chain Size mm	WLL t	d Nom. mm	P mm	w1 mm	Weight kg/m	Part Number
6	1.4	6	18	8.5	0.87	WCCA-060G
8	2.5	8	24	11	1.45	WCCA-080G
10	4.0	10	30	14	2.25	WCCA-100G
13	6.7	13	39	17.7	3.76	WCCA-130G
16	10	16	48	21.9	5.64	WCCA-160G
20	16	20	60	27	9.4	WCCA-200G
22	19	22	66	29	11.9	WCCA-220G
26	26.5	26	78	35	16.4	WCCA-260G
32	40	32	96	41.6	25.8	WCCA-320G







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ALLOY CHAIN SLINGS & FITTINGS



Chain Chain size mm 1 Leg WLL Size mm D В Mass 2 Leg Part Number t mm mm mm kg 2.5 120 0.36 WMAL-08/06-G-MF+ 4 80 140 0.8 WMAL-10/08-G-MF+ 6. WMAL-13/10-G-MF+ 13 95 160 28 190 2.8 WMAL-16/13-G-MF+ 140 34 240 5.2 WMAL-20/16-G-MF+ 19 20 150 40 250 7.3 WMAL-22/20-G-MF+ WMAL-26/22-G-M+ 26.5 26 42 8.7 40 26 50 300 14.8 WMAL-32/26-G-M+ 36 WMAL-36/32-G-M+

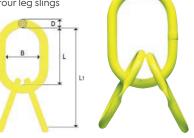
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Larger capacities available upon request All chains Sings must be proof load tested after assembly in accordance with AS 3775.1

Master Multi-links – Type MT **GUNNEBO** - Grade 100

- Suit two, three or four leg assemblies and are available ranging from 3.5 - 90.0t
- Load ratings quoted, in some cases, exceed the WLL on chain slings
- When used in chain sling assemblies use the WLL for the relevant chain size
- 100% Proof loaded with full traceability
- Ideal for two, three and four leg slings
- Complies with AS 3776



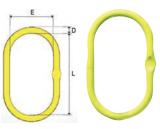
Chain Size mm	WLL t at 60°	B mm	D mm	Lmm	L1 mm	Mass kg	Part Number
6	2.4	90	19	160	270	1.8	WMAL-060-G-MT+
8	4.3	95	22	160	300	3.0	WMAL-080-G-MT+
10	6.9	120	30	200	360	6.4	WMAL-100-G-MT+
13	11.6	150	40	250	440	14.2	WMAL-130-G-MT+
16	17.3	200	50	300	500	23	WMAL-160-G-MT+
20	27.7	200	55	300	550	32	WMAL-200-G-MT+
22	32.9	200	60	350	610	46	WMAL-220-G-MT+
26	45.8	250	70	450	730	71	WMAL-260-G-MT+
32	69.2	260	80	450	730	91	WMAL-320-G-MT

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Master Links – MFX - Grade 100



- Oversized Master Link for 1 and 2 leg slings
- Designed for use with crane hooks • Complies with AS 3776



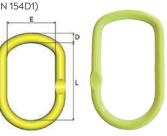
WLL t	Chain Size mm 1 Leg	Chain Size mm 2 Leg	D mm	E mm	L mm	Mass kg	Part Number				
4	10	8	25	180	340	3.6	WMAL-10/08-G-MFX				
6.7	13	10	28	180	340	4.6	WMAL-13/10-G-MFX				
10	16	13	34	180	340	7.0	WMAL-16/13-G-MFX				
16	20	16	40	180	340	9.6	WMAL-20/16-G-MFX				
All cha	All chain slinas must be proof load tested after assembly in										

accordance with AS 3775.1

Master Links – MFH - Grade 100

- Designed for Crane Hooks (DIN 154D1)
- Perfect balance for larger
- crane hooks, providing a longer service life
- Complies with AS 3776



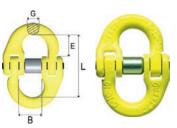


WLL t	Chain Size mm 1 Leg	Chain Size mm 2 Leg	D mm	E mm	L mm	Mass kg	Part Number
6.7	13	10	22	125	230	1.9	WMAL-13/10-G-MFH+
10	16	13	28	135	250	3.2	WMAL-16/13-G-MFH+
16	20	16	32	135	280	4.6	WMAL-20/16-G-MFH+
19	22	20	40	175	320	8.6	WMAL-22/20-G-MFH+
19	22	20	40	225	355	9.9	WMAL-22/20-G-MFHW+
All ch	ain clinas r	must be p	roofl	ad t	octod	after	resembly in

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Coupling Links – G - Grade 100

- Conventional style chain coupling link in Grade 100
- Fluorescent yellow
- GrablQ[®] painted • Full traceability
- Increased WLL compared to conventional Grade 80
- Suitable for joining chain to components
- Complies with AS 3776



Gunnebo

Chain Size mm	WLL t	B mm	Emm	G mm	Lmm	Mass kg	Part Number
6	1.4	15	16	7	45	0.1	WCUP-060-G+
8	2.5	18	22	9	56	0.2	WCUP-080-G+
10	4	25	26	12	68	0.3	WCUP-100-G+
13	6.7	29	33	15	89	0.7	WCUP-130-G+
16	10	36	40	19	106	1.4	WCUP-160-G+
20	16	43	44	23	125	2.2	WCUP-200-G+
22	19	50	59	26	152	2.5	WCUP-220-G+
26	26.5	58	61	32	161	5.7	WCUP-260-G+
32	40	70	77	38	200	9.5	WCUP-320-G+
		+	6		al after		· · -

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

GUNNEBO

Eye Type Grab Hook - Grade 100

- Eye type shortening grab hook with supporting lugs either side to prevent chain link deformation
- 100% Proof loaded with full traceability
- No reduction of Working Load Limit (WLL) for 8 -20mm chain size is required
- Suitable for shortening chain slings
- Complies with AS 3776

WLL t at 60°

2.5

6.

19

26.5

- GG - Grade 100

 Clevis type shortening grab hook with

supporting lugs either

chain link deformation

• 100% Proof loaded with

No reduction of Working

Load Limit (WLL) for

6 - 20mm chain size is

side to prevent

full traceability

40

Bmm Emm Fmm

10

19

17

41

46

50

All chain slings must be proof load tested after assembly ir accordance with AS 3775.1

20

26

26

40

Grab Hooks – Clevis Type

Chain

8

10

13

16

20

26

Size mm



Part Number

WGRH-080-G-0G+

WGRH-100-G-0G+

WGRH-130-G-0G+

WGRH-160-G-0G+

WGRH-200-G-0G+

WGRH-220-G-0G+ WGRH-260-G-0G+

WGRH-320-G-0G+

GUNNEBO

Gunnebo

Mass

0.3

0.7

1.6

2.8

6.1

8.6

14

20.7

L mm kg

65

85

104

187

- Clevis Type - BKG - Grade 100

Self Locking Hooks

- Grade 100 clevis self locking
- hook, also called safety hook Fluorescent yellow
- GrabiQ[®] painted
- Full traceability
- Stopper to prevent squeezing iniuries when opening
- Recessed trigger prevents damaging and snaggering of the trigger
- Self locking makes it
- impossible to open under load
- Complies with AS 3776

Chain Size mm	WLL t	B mm	G mm	H mm	L mm	Mass kg	Part Number
6	1.4	29	15	21	91	0.5	WLLH-C-060-G-BKG+
8	2.5	37	17	26	121	0.9	WLLH-C-080-G-BKG+
10	4.0	45	21	31	144	1.5	WLLH-C-100-G-BKG+
13	6.7	55	30	40	180	3	WLLH-C-130-G-BKG+
16	10	62	37	50	219	5.5	WLLH-C-160-G-BKG+
20	16	68	44	62	240	9.6	WLLH-C-200-G-BKG+

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Self Locking Hooks – Eye Type – BK

- Grade 100

- Retains load in the hook and will not easily snag during lifting
- Recessed trigger provides protection from
- potential damage Self locking when hook is under load
- 100% Proof loaded

Chain

Size mm 6 8

20 22

26

with f Comp



GUNNEBO

full tro plies v		bility S 377	6			G		
WLL t	B mm	E mm	F mm	G mm	H mm	L mm	Mass kg	Part Number
1.4	29	22	10	15	21	109	0.5	WLLH-060-G-BK+
2.5	37	28	11	17	26	138	0.9	WLLH-078-G-BK+
4	45	34	13	21	31	168	1.5	WLLH-100-G-BK+
6.7	55	44	16	30	40	207	3	WLLH-130-G-BK+
10	62	56	20	37	50	254	5.5	WLLH-160-G-BK+
16	68	60	22	44	64	289	9	WLLH-180-G-BK+
19	80	70	24	50	64	320	11.3	WLLH-220-G-BK+
26.5	100	80	25	54	68	342	16.5	WLLH-260-G-BK+

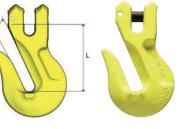
All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Self Locking Hooks

- Eye Type Grip Latch – OBK – Grade 100
- Type OBK retains load in the hook and will not easily snag during lifting
- Hook comes with safety grip latch to cater for abnormal side loading
- Grip latch design is unique
- to Gunnebo Complies with AS 3776
- Chain

Size mm	WLL t	B mm	E mm	F mm	G mm	H mm	L mm	Mass kg	Part Number
6	1.4	26	22	9	15	17	103	0.4	WLLH-060-G-0BK+
8	2.5	37	28	10	20	22	139	0.8	WLLH-078-G-0BK+
10	4	47	34	13	22	29	170	1.3	WLLH-100-G-0BK+
13	6.7	53	44	15	29	38	206	2.6	WLLH-130-G-0BK+
16	10	68	56	19	29	45	251	4.4	WLLH-160-G-0BK+
18	16	74	60	22	44	56	293	7.3	WLLH-180-G-0BK+

All chain slings must be proof load tested after assembly in accordance with AS 3775.1



- required Ideal for shortening chain slings
- Complies with AS 3776

Chain

Size mm	WLL t	B mm	L mm	Mass kg	Part Number
6	1.4	8	54	0.2	WGRH-C-060-G-GG+
8	2.5	10	57	0.4	WGRH-C-080-G-GG+
10	4	12	76	0.9	WGRH-C-100-G-GG+
13	6.7	16	97	1.8	WGRH-C-130-G-GG+
16	10	20	114	3.1	WGRH-C-160-G-GG+
20	16	26	147	7	WGRH-C-200-G-GG+
All chain	clinas mu	st he proof	Fload tests	d after ass	ambly in

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Grab Hook GG with Locking Pin - Grade 100

- Clevis shortening hook with locking pin for extra safety
- Supporting lugs either side to prevent chain link deformation
- 100% Proof loaded with full traceability
- No reduction of working load limit
- Ideal for shortening chain slings
- Complies with AS 3776



Chain Size mm	WLL t	B mm	L mm	Mass kg	Part Number
8	2.5	10	57	0.4	WGRH-C-080-G-GGLP
10	4.0	12	77	0.9	WGRH-C-100-G-GGLP
13	6.7	16	97	1.9	WGRH-C-130-G-GGLP
16	10	20	114	3.2	WGRH-C-160-G-GGLP

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

GUNNEBO

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ALLOY CHAIN SLINGS & FITTINGS

Self Locking Hooks - Clevis Type - Grip Latch

- GBK Grade 100 • Hook comes with safety grip latch to cater for abnormal
- side loading • Grip latch design is unique
- to Gunnebo • Complies with AS 3776



GUNNEBO

Chain Size						Mass	
mm	WLL t	B mm	G mm	H mm	L mm	kg	Part Number
6	1.4	26	15	17	87	0.4	WLLH-C-060-G-GBK+
8	2.5	36	20	22	119	0.8	WLLH-C-080-G-GBK+
10	4	47	22	29	150	1.4	WLLH-C-100-G-GBK+
13	6.7	53	29	38	172	2.7	WLLH-C-130-G-GBK+
16	10	68	30	45	208	4.4	WLLH-C-160-G-GBK+

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Swivel Self Locking Hooks - Ball Bearing - BKLK

- Grade 100
- Swivel allows load to be easily rotated
- 100% Proof loaded with full traceability
- Complies with AS 3776

Chain



Gunnebo

Gunnebo

Size mm	WLL t	B mm	C mm	E mm	G mm	H mm	L mm	Mass kg	Part Number
6	1.4	29	24	33	15	21	149	0.7	WLSH-060-G-BKLK+
8	2.5	37	27	38	17	26	183	1.2	WLSH-078-G-BKLK+
10	4	45	35	44	21	31	218	2	WLSH-100-G-BKLK+
13	6.7	55	45	48	30	40	280	4	WLSH-130-G-BKLK+
16	10	62	62	61	37	50	339	7.3	WLSH-160-G-BKLK+
20	16	68	60	72	44	62	368	11.5	WLSH-180-G-BKLK+
22	19	79	80	80	50	62	436	16.8	WLSH-220-G-BKLK+
26	26.5	100	110	102	54	68	486	26	WLSH-260-G-BKLK+

Plain bearing for 6 and 20mm available on request All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Sling Hooks With Latch - Type EGKN - Grade 100

- Protected latch to minimise the risk of damage
- 100% Proof loaded with
- full traceability • Complies with AS 3776



Chain Size mm	WLL t	B mm	G mm	H mm	L mm	Mass kg	Part Number				
6	1.4	25	17	20	86	0.4	WSLH-C-060-G-EGKN+				
7 – 8	2.5	28	17	23	95	0.5	WSLH-C-078-G-EGKN+				
10	4	35	23	31	121	1.1	WSLH-C-100-G-EGKN+				
13	6.7	42	28	38	145	2.2	WSLH-C-130-G-EGKN+				
16	10	53	36	46	170	4.0	WSLH-C-160-G-EGKN+				
20	16	65	42	60	209	7.6	WSLH-C-200-G-EGKN+				
Allohai	All obain clinas must be proof load tested after assembly in										

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Sling Hooks With Latch - Type EKN - Grade 100



- 100% Proof loaded with
- full traceability
- Complies with AS 3776



Gunnebo

Chain Size mm	WLL t	B mm	E mm	F mm	G mm	H mm	L mm	Mass kg	Part Number
6	1.4	25	23	10	17	20	93	0.4	WSLH-AE-060-G-EKN+
8	2.5	26	28	12	17	23	108	0.6	WSLH-AE-078-G-EKN+
10	4	35	34	14	23	30	134	1	WSLH-AE-100-G-EKN+
13	6.7	42	44	18	28	38	166	2.1	WSLH-AE-130-G-EKN+
16	10	53	56	22	36	47	203	4	WSLH-AE-160-G-EKN+
20	16	65	61	26	42	60	229	6.4	WSLH-AE-200-G-EKN+
22	19	73	64	31	43	67	267	8.9	WSLH-AE-220-G-EKN+
26	26.5	82	66	32	51	75	301	13	WSLH-AE-260-G-EKN+
32	40	96	90	38	61	98	353	25	WSLH-AE-320-G-EKN+

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Swivel Latch Hooks

- Ball Bearing LKNK - Grade 100

- Ball Bearing Swivel allows load to be easily rotated • 100% Proof loaded with
- full traceability
- Complies with AS 3776



Chain Size mm	WLL t	B mm	C mm	E mm	G mm	H mm	L mm	Mass kg	Part Number
8	2.5	28	28	38	18	24	154	0.9	WSAH-SW-080-G-LKNK+
10	4	35	35	44	23	31	191	1.6	WSAH-SW-100-G-LKNK+
13	6.7	40	45	48	28	38	236	3.3	WSAH-SW-130-G-LKNK+
16	10	53	62	61	34	43	293	5.6	WSAH-SW-160-G-LKNK+
22	19	74	80	80	43	67	400	15.1	WSAH-SW-220-G-LKNK+

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Foundry Hook – Grade 100 UNNEBO • Wide admittance gives hook a wider variety of uses including but not exclusively foundry work • Complies with AS 3776

8 2.5 63 28 12 21 26 124 0.8 WF0H-078-G-0KE+ 10 4 76 34 15 26 30 151 1.4 WF0H-100-G-0KE+ 13 6.7 90 44 19 33 39 184 2.8 WF0H-130-G-0KE+ 16 10 102 56 23 40 46 218 4.9 WF0H-200-G-0KE+ 20 16 114 60 27 46 60 247 7.2 WF0H-200-G-0KE+ 22 19 120 64 31 60 70 275 11.3 WF0H-220-G-0KE+ 26 26.5 113 70 35 64 77 300 16.0 WF0H-260-G-0KE+	Chain Size mm	WLL t	B mm	E mm	F mm	G mm	H mm	L mm	Mass kg	Part Number
13 6.7 90 44 19 33 39 184 2.8 WF0H-130-G-0KE+ 16 10 102 56 23 40 46 218 4.9 WF0H-160-G-0KE+ 20 16 114 60 27 46 60 247 7.2 WF0H-200-G-0KE+ 22 19 120 64 31 60 70 275 11.3 WF0H-220-G-0KE+	8	2.5	63	28	12	21	26	124	0.8	WFOH-078-G-OKE+
16 10 102 56 23 40 46 218 4.9 WF0H-160-G-0KE+ 20 16 114 60 27 46 60 247 7.2 WF0H-200-G-0KE+ 22 19 120 64 31 60 70 275 11.3 WF0H-220-G-0KE+	10	4	76	34	15	26	30	151	1.4	WFOH-100-G-OKE+
20 16 114 60 27 46 60 247 7.2 WF0H-200-G-0KE+ 22 19 120 64 31 60 70 275 11.3 WF0H-220-G-0KE+	13	6.7	90	44	19	33	39	184	2.8	WFOH-130-G-OKE+
22 19 120 64 31 60 70 275 11.3 WFOH-220-G-OKE+	16	10	102	56	23	40	46	218	4.9	WFOH-160-G-OKE+
	20	16	114	60	27	46	60	247	7.2	WFOH-200-G-OKE+
26 26.5 113 70 35 64 77 300 16.0 WFOH-260-G-OKE+	22	19	120	64	31	60	70	275	11.3	WFOH-220-G-OKE+
	26	26.5	113	70	35	64	77	300	16.0	WFOH-260-G-OKE+

All chain slings must be proof load tested after assembly in accordance with AS 3775.1



Midgrab Chain Shorteners – Grade 100



- Instant mounting and positioning on any part of the chain
- Suits any short link lifting chain

.

- Open/Close pin locking on the chain
- Can be retro fitted on any chain sling
- Suitable for shortening chain slings and load restraint assemblies
- Complies with AS 3776



WLL t	Chain Size mm	W x L mm	Mass kg	Part Number
2.5	8	60 x 95	0.7	WSHH-I-080-G-MIGCC
4.0	10	77 x 125	1.1	WSHH-I-100-G-MIGCC
6.7	13	80 x 150	2.6	WSHH-I-130-G-MIGCC

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Container Hooks – Grade 100



- Straight type for lifts using spreader beam and 45° right/left type for lifting with angle
- Suitable for lifting containers in their lower fittings
- Complies with AS 3776



er	Part Numb	Mass kg	Lmm	H mm	B mm	Туре	WLL t
1	WCOH-G-LH-Z10122	3.8	187	46	70	Turned 45° left	12.5
9	WCOH-G-RH-Z10121	3.8	187	46	70	Turned 45° right	12.5
0	WCOH-G-ST-Z10122	3.8	187	46	70	Straight	12.5

All chain slings must be proof load tested after assembly in accordance with AS 3775.1





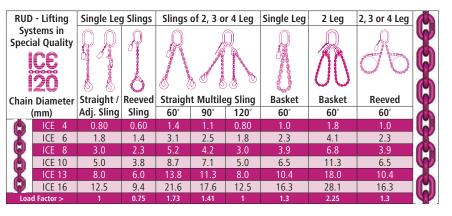
CHAIN & FITTINGS -ICE 120



TECHNICAL TIP

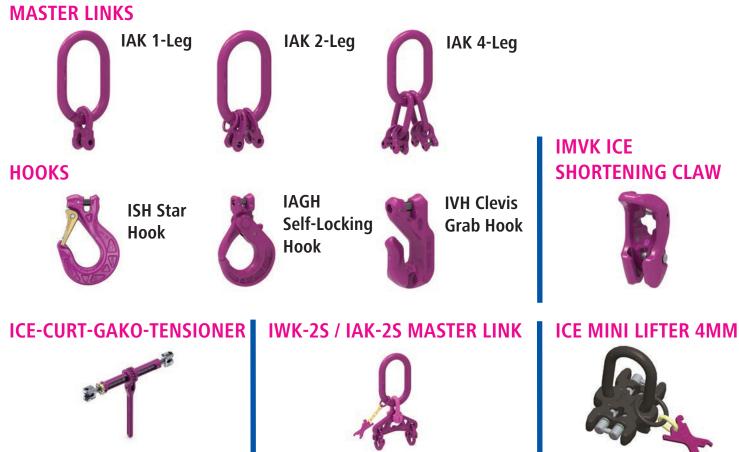
ICE GRADE 120 ADVANTAGES:

- Designed and manufactured in Germany.
- Patented and specially heat-treated material provides increased resistance to sharp edges.
- ICE >30% lighter for the same WLL.
- Chain dimensions range from 4mm (800kg) - 16mm (12.5t).



Tradition in Dynamic Innovation





RUD - Lifting 2 Leg - Straight 4 Leg - Balancer Systems in Special Quality d inclination angle Chain Diam 60° $\alpha = 30^{\circ} \beta = 15^{\circ} \alpha = 60^{\circ} \beta = 30^{\circ}$ 90 120 (mm) 3.1 2.5 ICE 6 1.8 6.9 6.2 ICE 8 5.2 4.2 3.0 11.6 10.4 8.7 7.0 19.3 ICE 10 5.0 17.3 13.8 11.3 8.0 30.9 27.6 **ICE 13** ICE 16 21.6 17.6 12.5 48.2 43.2

ATTENTION: When using two 2-leg slings with a symmetrical load distribution, one with a balancer, and both slings are attached into the same hook, 4 load bearing legs can be assumed. The inclination angle B must not exceed 45° (90° internal).

TECHNICAL TIP

ICE GRADE 120 BALANCER SLING - WORKING LOAD LIMITS (WLL) IN TONNES

RUD ICE Balancer Sling

RUD ICE 4-leg balancer assemblies consist of two separate sling sub assemblies, Sling A and Sling B each with its own master link and identification tag.

Sling A is a conventional RUD ICE (2-leg) chain sling and may be used as such in a general use application.

Sling B must only be used in addition with Sling A. In combination the 2 slings achieve a 4-leg sling assembly (specific use application) with 2 master links on a common hook for applications with a uniformly distributed load.

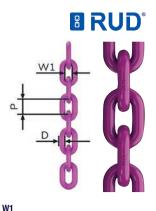
For conditions of use refer to User Instructions.



Scan for more information

CHAIN & FITTINGS – GRADE 120

Chain – ICE 120



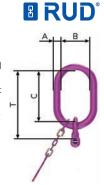
Chain Size mm	WLL t	D mm	P mm	mm	Weight kg/m	Part Number
4	0.8	4.0	12.0	5.2	0.44	WCIC-040R
6	1.8	6.0	18.0	7.8	0.98	WCIC-060R
8	3.0	8.0	24.0	10.4	1.66	WCIC-080R
10	5.0	10.0	30.0	13.0	2.62	WCIC-100R
13	8.0	13.0	39.0	17.0	4.25	WCIC-130R
16	12.5	16.0	48.0	21.0	6.72	WCIC-160R

MasterLink – IAK-RG-2 – ICE 120

- IAK 2 leg master link complete with IRG connectors
- Ensures only the correct chain diameter and number of strands can be connected
- Comes pre-assembled with connecting bolt and tensioning sleeve
- Manufactured in compliance with EN 1677-4
- Fitted with RUD-ID-TAG® (RFID chip) and marked with a clear identification number

MasterLink – IAK-RG-1 – ICE 120

- IAK 1 leg master link complete with IRG connector
- Ensures only the correct chain diameter and number of strands can be connected
- Comes pre-assembled with connecting bolt and tensioning sleeve
- Manufactured in compliance with EN 1677-4 • Fitted with RUD-ID-TAG® (RFID chip) and
- marked with a clear identification number



Chain Size mm	WLL t	Ø A mm	B mm	C mm	T mm	Weight kg	Part Number
6	1.8	13.0	60.0	110.0	144.0	0.57	WMAL-060-R-IAKRG1
8	3.0	16.0	75.0	135.0	178.0	1.04	WMAL-080-R-IAKRG1
10	5.0	22.0	90.0	160.0	213.0	2.19	WMAL-100-R-IAKRG1
13	8.0	26.0	100.0	180.0	247.0	3.58	WMAL-130-R-IAKRG1
16	12.5	32.0	140.0	260.0	343.0	7.20	WMAL-160-R-IAKRG1



Chain Size mm	WLL t	Ø A mm	B mm	C mm	T mm	Weight kg	Part Number
6	3.1/2.5	16.0	75.0	135.0	171.0	1.00	WMAL-060-R-IAKRG2
8	5.2/4.2	22.0	90.0	160.0	203.0	2.10	WMAL-080-R-IAKRG2
10	8.7/7.1	26.0	100.0	180.0	233.0	3.50	WMAL-100-R-IAKRG2
13	13.8/11.3	32.0	110.0	200.0	267.0	6.30	WMAL-130-R-IAKRG2
16	21.6/17.6	36.0	180.0	340.0	423.0	11.30	WMAL-160-R-IAKRG2

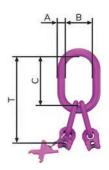
MasterLink – IAK-RG-4 – ICE 120

• IAK 4 leg master link complete with IRG connectors

- Ensures only the correct chain diameter and number of strands can be connected
- Comes pre-assembled with connecting bolt and tensioning sleeve

Manufactured in compliance with EN 1677-4

• Fitted with RUD-ID-TAG® (RFID chip) and marked with a clear identification number



Chain Size mm	WLL t	Ø A mm	B mm	C mm	Ø D mm	E mm	F mm	T mm	Weight kg	Part Number
6	3.1/2.5	18.0	90.0	160.0	13.0	34.0	70.0	265.0	2.04	WMAL-060-R-IAKRG4
8	5.2/4.2	26.0	100.0	180.0	18.0	40.0	85.0	309.0	4.59	WMAL-080-R-IAKRG4
10	8.7/7.1	32.0	110.0	200.0	22.0	50.0	115.0	369.0	8.37	WMAL-100-R-IAKRG4
13	13.8/11.3	36.0	140.0	260.0	26.0	65.0	140.0	467.0	14.44	WMAL-130-R-IAKRG4
16	21.6/17.6	46.0	190.0	350.0	32.0	75.0	170.0	603.0	28.87	WMAL-160-R-IAKRG4

05

Connecting Link – IVS – ICE 120

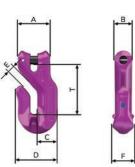
• ICE 120 Connecting links are suitable for temperatures of -60°C to 300°C.

- Connecting pin is held by a safety tensioning sleeve
- It does not move around and hence less vulnerable to being damaged
- Various connections such as lifting points, grabs and chains can be mounted on the link brackets

Chain Size mm	WLL t	A mm	B mm	C mm	D mm	E mm	T mm	Weight kg	Part Number
6	1.8	18.0	56.0	13.0	11.0	17.0	46.0	0.12	WCUP-060-R-IVS
8	3.0	24.0	70.0	17.5	14.0	23.0	61.0	0.29	WCUP-080-R-IVS
10	5.0	28.0	88.0	22.0	17.0	27.0	74.0	0.60	WCUP-100-R-IVS
13	8.0	34.0	111.0	28.0	23.0	33.0	93.0	1.20	WCUP-130-R-IVS
16	12.5	39.0	130.0	33.0	27.0	37.0	108.0	2.00	WCUP-160-R-IVS

Clevis Grab Hook – IVH – ICE 120

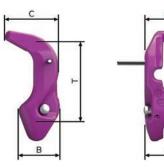
- ICE 120 chain and components are suitable for temperatures of -60°C to 300°C
- Curved insertion opening prevents the chain from falling out
- Complies with DIN 5692 for shortening components



Chain Size mm	WLL t	A mm	B mm	C mm	D mm	E mm	F mm	T mm	Weight kg	Part Number
6	1.8	34.0	18.0	20.0	44.0	7.5	22.0	53.0	0.27	WGRH-C-060-R-IVH-G120
8	3.0	43.0	24.0	26.0	55.0	9.5	29.0	67.0	0.56	WGRH-C-080-R-IVH-G120
10	5.0	55.0	30.0	34.0	71.0	12.0	38.0	86.0	1.20	WGRH-C-100-R-IVH-G120
13	8.0	70.0	38.0	43.0	90.0	15.0	48.0	105.0	2.50	WGRH-C-130-R-IVH-G120
16	12.5	86.0	47.0	53.0	110.0	18.5	66.0	128.0	4.60	WGRH-C-160-R-IVH-G120

Multi Shortening Claw – IMVK – ICE 120

- Additional chain and coupling components are not required
- Safety bolt with a spring prevents accidental loosening of the fitted chain when loaded or unloaded



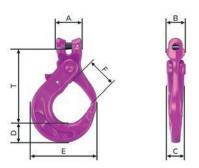


Chain Size mm	WLL t	A mm	B mm	C mm	D mm	T mm	Weight kg	Part Number
6	1.8	38.0	32.0	41.0	37.0	66.0	0.28	WVSC-060-IMVK
8	3.0	47.0	40.0	54.0	47.0	88.0	0.61	WVSC-080-IMVK
10	5.0	60.0	51.0	67.0	60.0	110.0	1.60	WVSC-100-IMVK
13	8.0	77.0	65.0	87.0	77.0	143.0	2.60	WVSC-130-IMVK
16	12.5	95.0	81.0	110.0	95.0	176.0	4.85	WVSC-160-IMVK

ALLOY CHAIN SLINGS & FITTINGS

Clevis Self Locking Hook – IAGH – ICE 120

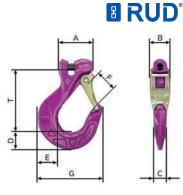
- ICE 120 chain hooks and components are suitable for temperatures of -60°C to 300°C
 Up to 25% lighter than Grade 80 hook of the same WLL due to its innovative skeletal design
- Wear ribs and a thick hook tip for safety



Chain Size mm	WLL t	A mm	B mm	C mm	D mm	E mm	F mm	T mm	Weight kg	Part Number
6	1.8	34.0	24.0	27.0	28.0	97.0	44.0	113.0	0.90	WLLH-C-060-R-IAGH
8	3.0	45.0	31.0	30.0	31.0	106.0	48.0	124.0	1.27	WLLH-C-080-R-IAGH
10	5.0	50.0	38.0	36.0	40.0	133.0	61.0	154.0	2.45	WLLH-C-100-R-IAGH
13	8.0	73.0	50.0	44.0	51.0	173.0	78.0	200.0	4.90	WLLH-C-130-R-IAGH
16	12.5	90.0	61.0	49.0	53.0	192.0	85.0	232.0	7.40	WLLH-C-160-R-IAGH

Clevis Sling Hook – ISH – ICE 120

- ICE 120 chain and components are suitable for temperatures of -60°C to 300°C
- Up to 25% lighter than Grade 80 hook of the same WLL due to its innovative skeletal design
- Fully forged safety catch
- Wear indicator



Chain Size mm	WLL t	A mm	B mm	C mm	D mm	E mm	Fmm	G mm	T mm	Weight kg	Part Number
6	1.8	48.0	28.0	18.0	27.0	30.0	30.0	97.0	97.0	0.69	WISH-060-ISH6
8	3.0	58.0	36.0	20.0	29.0	35.0	36.0	112.0	110.0	1.10	WISH-080-ISH8
10	5.0	71.0	43.0	26.0	37.0	42.0	41.0	135.0	127.0	1.90	WISH-100-ISH10
13	8.0	85.0	52.0	31.0	50.0	56.0	50.0	166.0	153.0	3.60	WISH-130-ISH13
16	12.5	94.0	58.0	41.0	61.0	74.0	58.0	202.0	184.0	6.00	WISH-160-ISH16

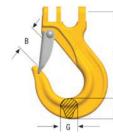
4mm MINI - ICE 120



FITTINGS – ALLOY GRADE 80

Sling Hook SKN – Grade 80

- Gunnebo Grade 80 SK system
- · Ideal for insulated hook assemblies
- Complies with AS 3776





Gunnebo

Indust

Chain Size mm	WLL t	B mm	G mm	H mm	L mm	Mass kg	Part Number
7 – 8	2	27	18	21	90	0.4	WSLH-CP-078-G-SKN
10	3.2	34	23	29	115	0.8	WSLH-CP-100-G-SKN
13	5.3	42	28	36	145	1.8	WSLH-CP-130-G-SKN
16	8	54	38	43	178	3.4	WSLH-CP-160-G-SKN
18 - 20	12.5	59	49	51	197	5.1	WSLH-CP-180-G-SKN



Description	WLL t	Weight kg	Part Number
ICE-Sling Hook	0.8	0.16	WSLH-C-040-R-IMH
ICE-Connector Type IH	0.8	0.04	WCON-A-04-12-R
ICE-MasterLink	1.4	0.35	WMAL-040-R-IML



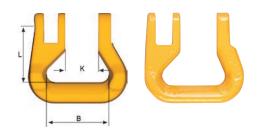


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GUNNEBO

Round Sling Connector SKR – Grade 80

- Industries
- Gunnebo Grade 80 SK system
- Ideal for round sling connections
- Complies with AS 3776



Chain Size mm	WLL t	B mm	K mm	L mm	Mass kg	Part Number
7 – 8	2	40	18	35	0.2	WCUP-RS-078-G-SKR
10	3.2	47	24	42	0.4	WCUP-RS-100-G-SKR
13	5.3	53	29	50	0.7	WCUP-RS-130-G-SKR
16	8	67	35	62	1.3	WCUP-RS-160-G-SKR
18 – 20	12.5	80	43	71	1.9	WCUP-RS-190-G-SKR
22	15	125	50	111	5.3	WCUP-RS-220-G-SKR
26	21.2	150	58	129	8.9	WCUP-RS-260-G-SKR

Half Link SKT – Grade 80

- em em
- Gunnebo Grade 80 SK systemIdeal for assembly of SK components

• Complies with AS 3776



Chain						Mass	
Size mm	WLL t	B mm	E mm	G mm	L mm	kg	Part Number
7 – 8	2	18	22	9	28	0.1	WHFL-078-G-SKT
10	3.2	25	26	11	34	0.2	WHFL-100-G-SKT
13	5.4	30	33	15	44	0.4	WHFL-130-G-SKT
16	8	36	40	19	52	0.6	WHFL-160-G-SKT
18 - 20	12.5	43	47	22	63	1.1	WHFL-190-G-SKT
22	15	50	59	24	76	1.7	WHFL-220-G-SKT
26	21.2	58	61	30	80	2.6	WHFL-260-G-SKT

Masterlink SKG – Closed – Grade 80

- Gunnebo Grade 80 SK system
- Ideal for single and two leg
- chain slings
- Complies with AS 3776



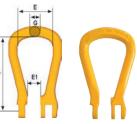
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Chain Size mm	WLL t	B mm	G mm	Lmm	Mass kg	Part Number
8	2	50	14	99	0.3	WMAL-078-G-SKG
10	3.2	66	18	127	0.6	WMAL-100-G-SKG
13	5.3	72	22	145	1.1	WMAL-130-G-SKG
16	8	82	25	175	1.5	WMAL-160-G-SKG
18 – 20	12.5	105	30	204	3.0	WMAL-180-G-SKG

All chain slings must be proof load tested after assembly in accordance with AS 3775.1

Masterlink SKO – Open – Grade 80

- Gunnebo Grade 80 SK systemIdeal for single and two leg
- chain slings
- Complies with AS 3776



Chain Size Mass WLL t Emm E1mm Gmm Lmm mm kg Part Number WMAL-078-G-SK0 7 -50 99 . 8 10 66 127 0.6 WMAL-100-G-SK0 13 145 WMAL-130-G-SKO 16 82 30 WMAL-160-G-SKO 18 -20 204 2.9 WMAL-18/20-G-SK0 36

Insulated Ball Bearings – Grade 80

- Gunnebo Grade 80 SK system
- Insulated ball bearing swivel
- Tested to resist 1,000V
- Ideal for protection of overhead cranes during welding operations
- Complies with AS 3776





Chain Size mm	WLL t	L mm	D mm	Mass kg	Part Number
7 – 8	2	75	48	0.7	WBBS-078-G-SKLI
10	3.2	97	59	1.3	WBBS-100-G-SKLI
13	5.3	120	75	2.8	WBBS-130-G-SKLI
16	8	137	90	4.6	WBBS-160-G-SKLI
18 - 20	12.5	159	104	7.3	WBBS-190-G-SKLI
22*	15	160	109	9.2	WBBS-220-G-SKLI
26*	21.2	207	135	18.3	WBBS-260-G-SKLI

*Non-insulated

Image for example purposes only and shows fittings that are sold separately

Swivel Assembly – Grade 80

- Insulated and able to resist up to 1000V
- Ball bearing allows swivelling under load
- Supplied as an assembly with SKN Hook and SKO/SKG Master Link



Chain Size mm	WLL t	Mass kg	Part Number
7 – 8	2	1.6	WBBS-078-G-SKLIASSY
10	3.2	3.1	WBBS-100-G-SKLIASSY
13	5.3	6.5	WBBS-130-G-SKLIASSY
16	8	10.7	WBBS-160-G-SKLIASSY
18 - 20	12.5	17.6	WBBS-190-G-SKLIASSY

ALLOY CHAIN SLINGS & FITTINGS

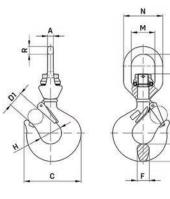
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FITTINGS – GRADE T(8)

Chain & Fittings GUNNEBO - Grade 80 • Gunnebo Grade 80 SK system • For assembly of SK components • Complies with AS 3776 Chain Size mm Part Number 6 WPSA-060-G-SKA 8 10 WPSA-078-G-SKA WPSA-100-G-SKA 13 16 WPSA-130-G-SKA WPSA-160-G-SKA 18 - 20 22 26 32 WPSA-180-G-SKA WPSA-220-G-SKA WPSA-260-G-SKA

Chain & Fittings – Eye Type Bearing Swivel Hooks with Latch

- Forged Hardened and tempered
- Fitted with bearings
- Load rated
- Meets requirements of ASME B30.10 and EN 1677





WPSA-320-G-SKA

TOWNLEY

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WLL t	Grade	A mm	B mm	C mm	D1 mm	E mm	Fmm	H mm	L mm	M mm	N mm	R mm	kg	Part Number
0.8	4	10	34	77	20	21	15	31	133	38	63	12.5	0.8	WHSS-0080T-T
1.6	8	10	31	82	22	23	18	34	140	38	63	12.5	1.8	WHSS-0160T-T
2.5	8	12.5	42	94	23	27	23	38	163	47	79	16	2.2	WHSS-0250T-T
3.2	8	12.5	40	106	27	31	23	42	172	47	79	16	2.8	WHSS-0320T-T
5.4	8	15	50	132	35	37	30	50	213	58	96	19	4.1	WHSS-0540T-T
8	8	17.5	65	165	43	49	37	62	266	72	120	24	5.9	WHSS-0800T-T
11.5	8	22	68	198	53	60	43	75	310	82	136	27	9.8	WHSS-1150T-T
16	8	24	84	222	58	67	52	84	352	92	154	31	15.3	WHSS-1600T-T
22	8	29	107	283	78	80	64	110	434	115	191	38	26.5	WHSS-2200T-T
31.5	8	34	117	339	87	94	80	120	512	132	222	45	50	WHSS-3150T-T

Not suitable for use in AS 3775 chain slings

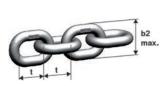
CHAIN & FITTINGS – GRADE 60

Chain – INOX Stainless Steel – Grade 60

• Manufactured from high quality stainless steel

- Tested with 100% of the weight capacity
- Chain has been welded electrically for a clean finish
- 25% Higher load capacity compared to G5 lifting chains

• Compared to standard G8, G10 and G12 chains, this chain has a higher resistance to acids and caustics





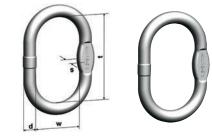
Chain Size mm	WLL t	t mm	b2 mm	Part Number
5	0.63	15.1	18.5	WG60-WOX-050
6	0.9	18	21.5	WG60-W0X-060
7	1.25	21	25.2	WG60-W0X-070
8	1.6	24	28.6	WG60-W0X-080
10	2.5	30	36	WG60-W0X-100
13	4.25	39	46.8	WG60-W0X-130
16	6.3	48	57.6	WG60-W0X-160
20	8.0	60	72	WG60-W0X-200
26	12.0	78	93.6	WG60-W0X-260

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pewag

Master Link - INOX Stainless Steel - Grade 60

- High grade stainless steel
- Electrically welded for a clean finish, stamped and suitable for both
- 1 and 2 leg assemblies and wire rope slings • Masterlink may also be used in VWI four leg assemblies and as an end link
- Tested at 100% of its load capacity
- Higher resistance to acids and caustics compared to the standard
- loading rings Grade 80, Grade 100 and Grade 120

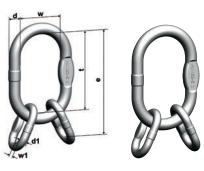


d mm	WLL t	For 1 Leg Slings mm	For 2 Leg Slings mm	t mm	w mm	s mm	Mass kg	Part Number
8	0.56	4	4	60	35	-	0.08	WG60-AWI-080
10	0.85	5	5	80	50	-	0.16	WG60-AWI-100
13	1.6	6/7/8	6	110	60	10	0.34	WG60-AWI-130
16	2.6	10	7/8	110	60	14	0.53	WG60-AWI-160
18	3.5	_	10	135	75	14	0.83	WG60-AWI-180
22	6.3	13/16	13	160	90	17	1.55	WG60-AWI-220
26	8.9	20	16	180	100	20	2.46	WG60-AWI-260

Multilink – INOX Stainless Steel – Grade 60

• High grade stainless steel

- Electrically welded for a clean finish, stamped and suitable for 3 and 4 leg assemblies
- Tested at 100% of its load capacity
- Resistant to sea water and ideally suited for use in water and wastewater applications and can also be used in connection with chemicals and food products



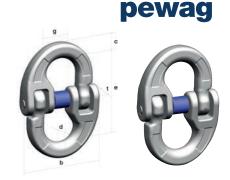
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Chain Size mm	WLL t at 60°	e mm	d mm	d1 mm	w mm	w1 mm	t mm	Mass kg	Part Number
5	1.3	154	13	60	10	44	20	0.52	WG60-VWI-050
6-7	2.6	164	16	60	13	54	25	0.91	WG60-VWI-067
8	3.3	205	18	75	16	70	34	1.64	WG60-VWI-080
10	5.2	245	23	90	20	85	40	3.02	WG60-VWI-100
13	8.9	295	27	100	23	115	50	4.78	WG60-VWI-130
16	13.2	340	32	110	27	140	65	7.98	WG60-VWI-160

Connecting Links – INOX Stainless Steel – Grade 60

- Constructed using high grade stainless steel
- Drop-forged and stamped and consists of two symmetrical halves • Suspension pin is locked by a stainless steel coil spring (mat. 1.4462)
- with a synthetic sleeve
- Connecting link can be used in straight pulling applications only • Resistant to sea water
- Ideal for use in water and waste water applications and can be used in connection with chemicals and food products

Chain Size mm	WLL t	e mm	c mm	t mm	d mm	b mm	g mm	Mass kg	Part Number
5	0.63	36	7	11	7	34	13	0.06	WG60-CWI-050
6	0.9	42	8	12	7	40	13	0.08	WG60-CWI-060
7	1.25	54	9	14	9	51	17	0.14	WG60-CWI-070
8	1.6	58	10	14	8.5	51	17	0.16	WG60-CWI-080
10	2.5	73	13	18	13	70	25	0.37	WG60-CWI-100
13	4.25	92	17	25	17	86	29	0.76	WG60-CWI-130
16	6.3	104	21	28	20	105	37	1.41	WG60-CWI-160



bullivants.com ¹¹⁷

ALLOY CHAIN SLINGS & FITTINGS

Chain Shortner - INOX Stainless Steel - Grade 60

- High grade stainless steel
- Drop-forged and stamped
- Easy to retrofit in assembled systems
- Chain cannot fall out even when it is shortened, as its proper weight will always lock it in place
- Resistant to see water and ideally suited for use in water and wastewater applications and can also be used in connection with chemicals and food products



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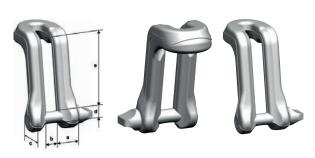
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Chain Size mm	WLL t	e mm	t mm	d mm	d1 mm	g mm	Mass kg	Part Number
5-6	0.90	114	80	16	26	8	0.22	WG60-VLWI-05/06
7 – 8	1.6	156	111	22	34	11	0.57	WG60-VLWI-07/08
10	2.5	186	133	27	40	12	1.06	WG60-VLWI-100
13	4.25	242	169	32	52	16	2.22	WG60-VLWI-130
16	6.3	284	204	38	64	20	4.16	WG60-VLWI-160

Loop Connector - INOX Stainless Steel - Grade 60

• Allows for easy, quick loops without the need for additional connecting links

- Loops will not tighten and due to the design, it is no longer necessary to reduce
- the the load capacity down to 80% when using a loop



Chain Size mm	WLL t	a mm	e mm	d mm	b mm	c mm	Mass kg	Part Number
5	0.63	10	31	6	6	12	0.068	WG60-LCWI-050

Eye Sling Hook - INOX Stainless Steel - Grade 60

- Constructed from high grade stainless steel
- Drop-forged and stamped
- Compact design of the hook ensures the highest possible load capacity while maintaining a minimum product weight
- Large hook mouth and an extra wide hook point
- prevents accidental hooking into the chainProvides excellent directional stability
- and perfect guidance of the safety trap
- Ideal for the assembly of welded and assembled rope lashings





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Chain Size mm	WLL t	e mm	h mm	d1 mm	d2 mm	g1 mm	b mm	Mass kg	Part Number
5-6	0.9	84	20	21	8	22	67	0.25	WG60-HSWI-05/06
7 – 8	1.6	112	29	27	13	32	98	0.70	WG60-HSWI-07/08
10	2.5	133	33	37	15	39	115	1.35	WG60-HSWI-100
13	4.25	172	43	37	18	51	147	2.60	WG60-HSWI-130
16	6.3	213	51	55	24	66	182	4.85	WG60-HSWI-160

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Safety Dee Shackles – INOX Stainless Steel – Grade 60

- High grade stainless steel
- Designed for use as an end fitting in chain and wire rope slings and in connection with pump chains for the lifting of submersible pumps and breathers, where maximum safety is key
- Safety mechanism to protect against unintentional release
 Cannot be mounted directly onto the chain and onto some
- Cannot be mound transition links
- Resistant to sea water
- Ideal for use in water and waste water applications and can also be used in connection with chemicals and food products



WLL t	e mm	a mm	b mm	d mm	d1 mm	c mm	Mass kg	Part Number
0.63	35	8	21.5	8	9	18	0.08	WG60-SSWI-0.63TSW
0.9	41	10	21.5	10	11	22	0.14	WG60-SSWI-0.9TS
1.6	41	12	26	12	13	25	0.22	WG60-SSWI-1.6TS
2.5	62	15	36	15	17	32	0.52	WG60-SSWI-2.5TS
4.25	78	18	42	18	21	46	1.00	WG60-SSWI-4.25TS
6.3	109	24	58	24	29	59	2.40	WG60-SSWI-6.3TS
13.0	152	34	76	34	38	75	5.80	WG60-SSWI-26C

Pump Chain Assemblies - INOX Stainless Steel - Grade 60

- Single leg fixed
- High grade stainless steel
- Masterlink each end, top and bottom fittings
- Welded design, solid construction and range of components makes them particularly suitable for submersible pumps and breathers in water and waste water applications
- SL = 1.5m segment length



Part Number	Mass kg	Leg Length m	Chain Size mm	WLL t
WCS-04-1FX-PUMP-MA-015	0.39	1.5	4	0.4
WCS-04-1FX-PUMP-WL-030	0.78	3.0	4	0.4
WCS-04-1FX-PUMP-MA-045	1.17	4.5	4	0.4
WCS-04-1FX-PUMP-WL-060	1.56	6.0	4	0.4
WCS-04-1FX-PUMP-WL-105	2.73	10.5	4	0.4
WCS-05-1FX-PUMP-MA-030	1.36	3.0	5	0.63
WCS-05-1FX-PUMP-WL-045	1.86	4.5	5	0.63
WCS-05-1FX-PUMP-WL-060	2.48	6.0	5	0.63
WCS-05-1FX-PUMP-MA-075	2.15	7.5	5	0.63
WCS-06-1FX-PUMP-MA-015	0.68	1.5	6	0.9
WCS-06-1FX-PUMP-MA-030	1.36	3.0	6	0.9
WCS-06-1FX-PUMP-WL-045	2.10	4.5	6	0.9
WCS-06-1FX-PUMP-MA-060	2.72	6.0	6	0.9
WCS-06-1FX-PUMP-MA-075	3.40	7.5	6	0.9
WCS-07-1FX-PUMP-WL-015	1.35	1.5	7	1.25
WCS-07-1FX-PUMP-WL-030	2.70	3.0	7	1.25
WCS-07-1FX-PUMP-MA-045	4.05	4.5	7	1.25
WCS-07-1FX-PUMP-WL-060	5.40	6.0	7	1.25
WCS-07-1FX-PUMP-MA-075	6.75	7.5	7	1.25
WCS-08-1FX-PUMP-MA-030	3.40	3.0	8	1.6
WCS-08-1FX-PUMP-MA-045	5.10	4.5	8	1.6
WCS-08-1FX-PUMP-MA-060	6.80	6.0	8	1.6
WCS-08-1FX-PUMP-MA-075	8.50	7.5	8	1.6
WCS-10-1FX-PUMP-MA-030	5.20	3.0	10	2.5
WCS-10-1FX-PUMP-MA-045	7.80	4.5	10	2.5
WCS-10-1FX-PUMP-MA-060	10.4	6.0	10	2.5
WCS-10-1FX-PUMP-MA-075	13	7.5	10	2.5
WCS-10-1FX-PUMP-WL-025	65	25.0	10	2.5



GENERAL PURPOSE CHAIN & FITTINGS

CHAIN – GENERAL PURPOSE	124
CHAIN – GRADE L	125
CHAIN – TRAILER SAFETY CHAIN	125
CHAIN – STAINLESS STEEL	125
FITTINGS – GENERAL PURPOSE	125

CHOOSING THE RIGHT GENERAL PURPOSE CHAIN

The range & variety of general purpose chain, used in transport, industrial & marine applications, is wider than ever before.

Chains come in various grades and strengths. This determines which will suit your application best. With the Bullivants range, we can assist with selecting the correct chain to meet your requirements.

MAIN TYPES

Proof Coil Chain

Made for use in industrial, marine and agricultural non-lifting purposes, such as fences, barriers, mooring applications and roof supports. Comes in two main link types, regular and long link.

- Regular link: Is a popular choice for mooring applications because the greater internal dimension facilitates the use of a wider range of fittings and reduces the need to use additional end links
- Long link: Has a lighter weight to ultimate breaking strength ratio, which can be an issue when choosing the correct chain for your application

Grade L Chain

Made for use in mooring and anchoring applications for marine, fishing, leisure craft and aquaculture industries.

- Highest quality lower tensile steel available for lifting purposes
- Manufactured from carbon steel which has a high resistance to impact and wear
- Suitable for lifting applications in accordance with AS 2321 where an alloy (Grade 80 or Grade 100) chain is not suitable for use
- For other than general conditions of use the WLL shall be adjusted to conform to the group classification of crane mechanisms as specified in AS 1418.1 for the conditions of use that apply

General purpose chain is not to be used for lifting applications.





STAINLESS STEEL CHAIN

Made for use in agricultural, building and heavy industrial sectors. Extremely resistant to corrosion where saltwater, acid or alkaline solutions are factors.

Not suitable for lifting or towing purposes.

• Electro polished for a superior finish and perfect for all outdoor and decorative applications

Stainless steel chain is available in:

- Grade 304 Where a lighter corrosion resistance is required, yet strength is also needed
- Grade 316 Where the highest level of corrosion resistance is required

CARE & USE

- Ensure that the chain is free from twists and is protected from any sharp corners
- Avoid crushing chain
- Never heat or heat treat chain
- · Lightly oil chain prior to prolonged storage
- Store in a clean and dry place
- Always visually inspect chain and ensure that they are free from damage or wear before use
- Every chain link should be individually checked for evidence of wear, twisting, cracks, breaks, gauges, stretch, bend, weld splatter and decolouration from excessive temperature

TRAILER SAFETY CHAIN

Trailer Safety Chain is the short length of chain fitted between the drawbar of the trailer and the towing point of the vehicle. It is designed to secure the trailer should the tow ball become disengaged. It is not suitable for lifting.

- Trailer Safety Chain, unlike Proof Coil Chain must go through extra processes and testing to ensure it complies with the requirements of AS 4177.4
- Designed in sizes according to the capacities required on the Aggregate Trailer Mass (ATM), which is the combined weight of the trailer and its full load when not coupled to a tow vehicle
- Any worn link should be measured to determine the degree of wear, which should not exceed that allowed for by the manufacturer
- Chain links or fittings found to have defects should be clearly marked to indicate rejection and withdrawn from service until properly repaired and proof tested
- Results of each inspection and repair should be entered
 on the chain inspection record
- Review any potential exposure to acid or other corrosive environment

CHAIN – GENERAL PURPOSE

Regular Link Proof Coil Chain – Bulk

- Manufactured from low grade carbon steel
- Proof tested to at least twice the maximum load
- recommended for normal use
- Suitable for various applications across manufacturing,
- marine and agricultural industries
- Not suitable for lifting applications



					Galvanised	per metre	Black per metre		
Chain Size mm	MWL t	S mm	F mm	R mm	Weight kg/m	Part Number	Weight kg/m	Part Number	
3	0.06	3.15	13.1	15.7	0.20	WCRL-030G	0.19	WCRL-030B	
4	0.11	4.0	16.0	18.6	0.33	WCRL-040G	0.31	WCRL-040B	
5	0.19	5.0	19.4	22.0	0.52	WCRL-050G	0.49	WCRL-050B	
6	0.32	6.3	23.5	26.1	0.83	WCRL-060G	0.78	WCRL-060B	
8	0.53	8.0	29.5	32.2	1.35	WCRL-080G	1.29	WCRL-080B	
10	0.83	10.0	36.2	39.1	2.12	WCRL-100G	2.06	WCRL-100B	
13	1.50	13.0	46.1	49.1	3.61	WCRL-130G	3.37	WCRL-130B	
16	2.31	16.0	56.5	59.6	5.49	WCRL-160G	4.95	WCRL-160B	
20	3.67	20.0	70.0	73.3	8.62	WCRL-200G	8.13	WCRL-200B	
24	5.31	24.0	83.6	87.0	12.44	WCRL-240G	11.76	WCRL-240B	

Dimensions and masses subject to commercial tolerances and design changes

Regular Link Proof Coil Chain – Pail Pack

- Manufactured from low grade carbon steel
- Proof tested to at least twice the maximum load
- recommended for normal use
- Suitable for various applications across manufacturing, marine and agricultural industries
- Not suitable for lifting applications



Chain Size mm	MWL t	S mm	Fmm	R mm	Metres per pack	Galvanised Pail Pack	Black Pail Pack
3	0.06	3.15	13.1	15.7	75	WCRL-030G-75M	
3	0.06	3.15	13.1	15.7	260	WCRL-030G-260M	WCRL-030B-260M
4	0.11	4.00	16.0	18.6	50	WCRL-040G-50M	
4	0.11	4.00	16.0	18.6	160	WCRL-040G-160M	WCRL-040B-160M
5	0.19	5.00	19.4	22.0	30	WCRL-050G-30M	
5	0.19	5.00	19.4	22.0	100	WCRL-050G-100M	WCRL-050B-100M
6	0.32	6.30	23.5	26.1	18	WCRL-060G-18M	
6	0.32	6.30	23.5	26.1	60	WCRL-060G-60M	WCRL-060B-60M

Dimensions and masses subject to commercial tolerances and design changes Pail packs weigh approximately 15kg and 50kg

Long Link Proof Coil Chain – Bulk

- Manufactured from low grade carbon steel
- Proof tested to at least twice the maximum load
- recommended for normal use
- · Suitable for agricultural and barrier applications
- Not suitable for lifting applications



					Galvanised	Galvanised per metre		Black per metre		
Chain Size mm	MWL t	S mm	F mm	R mm	Weight kg/m	Part Number	Weight kg/m	Part Number		
3	0.05	3.15	15.7	22.1	0.19	WCLL-030G				
4	0.09	4.00	18.6	25.4	0.31	WCLL-040G				
5	0.19	5.00	21.8	29.3	0.49	WCLL-050G	0.46	WCLL-050B		
6	0.32	6.30	26.1	34.5	0.78	WCLL-060G	0.74	WCLL-060B		
8	0.53	8.00	31.9	41.2	1.28	WCLL-080G	1.22	WCLL-080B		
10	0.83	10.00	38.7	49.0	1.99	WCLL-100G	1.90	WCLL-100B		

Dimensions and masses subject to commercial tolerances and design changes

Long Link Proof Coil Chain – Pail Pack

- Manufactured from low grade carbon steel
- Proof tested to at least twice the maximum load
- recommended for normal use
- Suitable for agricultural and barrier applications
- Not suitable for lifting applications

	er manig appr						0.0
Chain Size mm	MWL t	S mm	Fmm	R mm	Metres per pack	Galvanised Pail Pack	Black Pail Pack
3	0.05	3.15	15.7	22.1	270	WCLL-030G-270M	
4	0.09	4.00	18.6	25.4	170	WCLL-040G-170M	
5	0.19	5.00	21.8	29.3	100	WCLL-050G-100M	WCLL-050B-100M
6	0.32	6.30	26.1	34.5	60	WCLL-060G-60M	
8	0.53	8.00	31.9	41.2	40	WCLL-080G-40M	
10	0.83	10.00	38.7	49.0	25	WCLL-100G-25M	

Dimensions and masses subject to commercial tolerances and design changes Pail packs weigh approximately 15kg and 50kg

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CHAIN - GRADE L

Grade L

- Manufactured from the highest quality lower tensile steel
- Short link chain
- Suitable for fathom chains, mooring applications, pump chains and mining suspension
- Suitable for lifting applications in accordance with AS 2321

						Galva	Galvanised		Black	
Chain Size mm	MWL t – Factor 4:1 Mooring	WLL t – Factor 5:1 Lifting	S mm	Fmm	R mm	Weight kg/m	Part Number	Weight kg/m	Part Number	
6	0.50	0.40	6.3	21.6	18.8	0.91	WCGL-060G	0.86	WCGL-060B	
8	0.80	0.64	8.0	27.0	23.8	1.43	WCGL-080G	1.40	WCGL-080B	
10	1.26	1.00	10.0	34.3	29.8	2.28	WCGL-100G	2.23	WCGL-100B	
13	2.10	1.70	12.7	43.0	38.0	3.8	WCGL-130G	3.46	WCGL-130B	
16	3.20	2.58	16.0	47.8	54.9	5.71	WCGL-160G	5.62	WCGL-160B	
20	5.00	4.03	20.0	59.2	68.5	9	WCGL-200G	8.85	WCGL-200B	
22	6.30	5.06	22.0	64.9	77.0	10.87	WCGL-220G			

CHAIN – TRAILER SAFETY CHAIN

Trailer Safety Chain

Bullivants

- Australian Standard Certified Trailer Safety Chain
- · Ideal for use with trailers, caravans of up to
- 3,500kg aggregate trailer mass • Manufactured to AS 4177.4



Chain Size mm	MWL t	S mm	Fmm	R mm	Galvanised	Black
8	1.60	8.0	31.0	41.0	WCTR-080G	WCTR-080B
10	2.50	9.8	38.7	49.0	WCTR-100G	WCTR-100B
13	3.50	13.0	46.0	50.0	WCTR-130G	WCTR-130B

CHAIN – STAINLESS STEEL

Stainless Steel

- Stainless Steel Chain is extremely resistant to corrosion where saltwater, acid or alkaline solutions are factors
- Not suitable for lifting applications



Chain Size mm	R mm	F mm	Link Type	Grade 316	Grade 304
2	12.0	8.0	Regular	WCSR-0206	
4	19.0	15.0	Regular	WCSR-0406	
5	22.0	19.5	Regular	WCSR-0506	
6	18.5	20.0	Short	WCSS-0606	
6	27.0	22.5	Regular	WCSR-0606	WCSR-0604
8	24.0	27.5	Short	WCSS-0806	
8	32.2	29.5	Regular	WCSR-0806	WCSR-0804
10	30.0	34.2	Short	WCSS-1006	WCSS-1004
10	39.0	36.2	Regular	WCSR-1006	WCSR-1004
12	36.5	39.5	Short	WCSS-1206	
12	47.2	42.5	Regular	WCSR-1206	
16	59.0	56.5	Regular	WCSB-1606	

Dimensions and masses subject to commercial tolerances and design changes



- Split Links
- Mild steel fitting
- Electro galvanised • Suitable for joining





Chain Size mm	R mm	D mm	Hmm	Part Number
4	19.5	10.0	4.0	WCSP-040G
5	24.0	13.0	4.5	WCSP-050G
6	31.5	16.0	6.0	WCSP-060G
8	40.0	19.0	8.0	WCSP-080G
10	42.0	20.0	9.5	WCSP-100G
13	60.0	27.0	12.5	WCSP-130G

DID YOU KNOW

Bullivants Long Link and Regular Link chain is available by the meter, in pre-cut packs, or in bulk drums to suit your requirements.





SYNTHETIC SLINGS

SLINGS – SYNTHETIC – ROUND	133
SLINGS – SYNTHETIC – FLAT	135
SLINGS – SYNTHETIC – ADJUSTABLE	135





CHOOSING THE RIGHT SYNTHETIC SLING

Synthetic Slings are multi-purpose & ideal for situations where the item being lifted may be damaged when using traditional chain or wire rope slings.

All Synthetic Slings are colour coded to meet Australian and International lifting standards and provide easy Working Load Limit (WLL) identification. Slings are most commonly made from 100% polyester material and these can be identified by the colour of the Working Load Limit tag.

All synthetic slings are supplied with a label providing the following information:

- Manufacturer's identification
- Working Load Limit (WLL)
- Serial number or identification mark matching the relevant test certificate
- Month and year of manufacture

Bullivants synthetic slings are manufactured in accordance with Round Slings AS 4497 and Flat Webbing Slings AS 1353.

- Fibre the material has been made from and the applicable Australian Standard (either AS 4497 or AS 1353)
- Working Load Limit label fitting to all slings show a variety of configurations including direct, choke and basket hitch applications

POLYESTER ROUND SLINGS

Round slings are manufactured using a load bearing yarn wound around to form endless loops which are inside a protective cover.

Round slings are manufactured with a 7 to 1 safety factor.

FLAT WEBBING SLINGS

Webbing slings are flexible and lightweight, and manufactured with eyes at both ends. Their wide bearing surface minimises any damage to the item being lifted.

Flat webbing slings are manufactured with an 8 to 1 safety factor.





BENEFITS

- Approximately 5 x lighter than wire rope of the same capacity
- Easy to use and inspect
- Rust proof
- No reduction of WLL in water
- Flexibility in choke and reeving applications
- High chemical resistance (refer to safe use instructions for compatibility)

TYPES OF SYNTHETIC SLINGS

High Performance Round Slings

Bullivants High Performance Round Slings are manufactured using a Vectran[™] load bearing core with a polyester outer cover. Vectran[™] has an extremely high strength to weight ratio, very low elongation (stretch) and small D/d ratios. This allows shackles and connection points with small diameters to be attached to slings. Key benefits include easier handling, lower rigging weight and more compact connection points.

CARE & USE

- Avoid contact with hot surfaces (blow lamps or welding torches) and exposure to damaging conditions such as prolonged exposure to sunlight, dust or chemicals
- Wet slings should be hung and allowed to dry naturally
- Store off the ground on racks or A-frame in a dry, ventilated area that is clean, in shade and free from dirt and grit



SYNTHETIC SLINGS FLAT WEBBING SLING - AS 1353, ROUNDS SLINGS - AS 4497

			CHOKED			SKET HITCH			HITCH OR LEG SLINGS
MATERIAL MARKED COLOUR WLL	MARKED	LIFT	STRAIGHT LIFT	BASKET	α = 60°	α = 90°	α = 120°	Single Wrap α = max 45°	Double Wrap α = max 60°
	WLL	0	8	\bigcup	<u>/</u>	OR 6	<u>a</u>	€₽	đ č
			wo	RKING LOAD I	LIMITS (TONN	IES)			
VIOLET	1	1	0.8	2	1.7	1.4	1	1	.38
GREEN	2	2	1.6	4	3.4	2.8	2	2	2.76
YELLOW	3	3	2.4	6	5.1	4.2	3	4	4.14
GREY	4	4	3.2	8	6.9	5.6	4	5	5.52
RED	5	5	4.0	10	8.6	7.0	5	6	.90
BROWN	6	6	4.8	12	10.3	8.4	6	8	3.28
BLUE	8	8	6.4	16	13.8	11.2	8	1'	1.04
ORANGE	10	10	8.0	20	17.3	14.1	10	13	3.80

WLL's above 10 tonne - Contact Bullivants for support or refer to AS 4497 or AS 1353.

The colour of the Working Load Limit (WLL) tag shall identify the type of fibre used for round and flat type synthetic slings as follows:

NYLON - GREEN	POLYPROPYLENE - BROWN
POLYESTER - BLUE	ARAMID POLYAMIDE - YELLOW

SYNTHETIC SLINGS

WHY INSPECTION IS IMPORTANT

Like any lifting sling, Synthetic Slings have an extremely important job and regular inspections are imperative. When damage or deterioration is present in the sling, there is the potential for the sling to break when lifting a load. At that point, any persons or objects nearby, are at risk of danger or harm.

When inspecting Synthetic Slings, the following points must be assessed:

- Working Load Limit (WLL) tag is intact, legible and the sling is correct for application
- Acid, corrosive burns, melting or charring attack
- Holes, tears, cuts or snags
- Broken, worn or deterioration of stitching in load bearing splices
- Discolouration and brittle or stiff areas on any part of the sling



Defective slings to be removed from service

TYPES OF INSPECTIONS

Initial Inspection

Inspection of all new or repaired slings must be undertaken by a designated competent person upon receipt to ensure that no damage has occurred during transit before being placed into service. This is to also ensure that the correct sling is being used, as well as determining that the sling meets the applicable requirements.

Frequent Inspection

A thorough inspection should be conducted by the person handling the sling or designated person each time the sling is used. If you are unsure if the sling has been inspected, take the time to inspect the sling before it is used. Never assume that slings have been inspected by others.

Periodic Inspection

All slings must be inspected 'periodically' by designated personnel at regular intervals. These intervals are to be at least every 3 months as dictated by Australian Standards. The Periodic Inspection may be required more frequently depending on the use, severity of service conditions and the nature of the work being performed. The Periodic Inspection should be conducted by someone other than the individual(s) who perform the Frequent Inspection.

ADAPTA ADJUSTABLE HMPE LIFTING SLING

With easily adjustable legs, this sling provides significant improvements in safety, productivity and reduces the risk of manual handling injuries. Developed and custom made by Bullivants, the ADAPTA sling has less components, no metal parts and lightweight in comparison to other sling types, significantly reducing the time to assemble your load to lift.

BENEFITS

- 90% Lighter than Alloy Chain Slings
- 85% Lighter than Wire Rope Slings
- Increases productivity
- Torque free for reduced risk of recoil
- Faster change-outs

Available in 2 Leg configuration with WLL from 3.3t to 17t, @60°, this high strength to weight ratio sling is manufactured with AmSteel® Blue Dyneema Rope. Ensuring this innovative lifting sling is of the highest standard, all slings are supplied with NATA Test certificates and comply with AS 18264.

- Simple installation
- Easy ground level adjustment for uneven loads
- Easy to store and handle
- Reduced risk of manual handling injuries
- Lower cost of ownership

STRENGTH TO WEIGHT RATIO COMPARISON

Item	Weight kg	Lifting Capacity t
16MM X 6MTR 2LEG WIRE ROPE SLING	28	3.85
10MM X 6MTR 2LEG ALLOY CHAIN SLING	40	6.9
16MM X 6MTR 2LEG ADAPTA SLING	2.9	5

ADJUSTABLE HMPE LIFTING SLING







Introducing the Bullivants ADAPTA°, an innovative adjustable HMPE lifting sling revolutionising the way lifting is performed.

- 90% Lighter than Alloy Chain Slings
- 85% Lighter than Wire Rope Slings
- Increases
 Productivity

KEEP A RIGGERS REFERENCE IN YOUR POCKET

Bullivants

RIGGING

HANDBOOK



Bullivants

Bullivants

bullivants.com

Part Number WRS-200-100-E-BVPTX

WRS-200-150-E-BVPTX

WRS-300-020-E-BVPTX WRS-300-025-E-BVPTX

WRS-300-040-F-BVPTX

WRS-300-060-E-BVPTX

WRS-300-080-E-BVPTX

WRS-300-100-E-BVPTX

WRS-400-020-F-RVPTX

WRS-400-030-F-BVPTX

WRS-400-060-E-BVPTX

WBS-500-040-E-BVPTX

WRS-500-060-E-BVPTX

WRS-500-080-E-BVPTX

07

SLINGS – SYNTHETIC – ROUND

High Performance Multi Round Sling

- High strength and lightweight
- Small diameter
- High performance Vectran fibre
- Low Hygroscopicity to stop water absorption • Patented multi safety test function to assist
- in determining product integrity
- High abrasion, UV, water, acid and alkali resistance
- Lower D/d ratios for reduced rigging weight
- Complies with AS 4497

WLL t	Length m	Mass kg	Part Number
10	1	1.1	WRS-100-010-E-BVPTX
10	2	2.2	WRS-100-020-E-BVPTX
10	3	3.3	WRS-100-030-E-BVPTX
10	4	4.4	WRS-100-040-E-BVPTX
10	5	5.5	WRS-100-050-E-BVPTX
10	6	6.6	WRS-100-060-E-BVPTX
10	8	8.8	WRS-100-080-E-BVPTX
10	10	11	WRS-100-100-E-BVPTX
20	1	1.8	WRS-200-010-E-BVPTX
20	2	3.6	WRS-200-020-E-BVPTX
20	2.5	4.5	WRS-200-025-E-BVPTX
20	4	7.2	WRS-200-040-E-BVPTX
20	6	10.8	WRS-200-060-E-BVPTX
20	8	14.4	WRS-200-080-E-BVPTX

Additional sizes available on request up to 300t with 7:1 safety factor

PRODUCT INSIGHT

BULLIVANTS SLINGS

High Performance Multi Round Slings are unique in the Australian market and showcases Bullivants' Zero Harm philosophy.

High Performance Multi round slings include conductive fibres that allow for checking residual life using a multimeter which provides a means to determine the integrity of the sling over its lifetime.

Each sling is provided with a reference chart to determine whether the sling is in good condition, requires further examination or should be discarded.

Features:

WLL t

20

30

30

30

30

30

30

40

40

40

50

50

50

- High strength Vectran (Poly Arylate) fibre, low weight and small diameter high performance round slings
- · Low Hygroscopicity (does not absorb water)
- Manufactured and tested in accordance with AS 4497
- Patented Multi system for checking

Length m

10

4

4

6

8

Mass kg

18

65

10.4

20.8

26

7.0

16.8

25.2

33.6

of round sling residual life

Benefits:

- Lightweight for ease of handling
- and lower risk of injury or fatigue
- Patented 'Multi' checking system
- Smaller diameter than traditional round slings allowing smaller D/d ratios to be used
- _ower weight to reduce overall weight of rigging

High Performance Tray Slings

- Vectran fibre high performance round sling
- Liaht weight
- Multi-checking system
- 1:1 D/d Ratio
- Wear resistant outer cover
- Low elongation
- Suitable for mining and civil earthmoving industries

WLL t	Length m	Part Number
20	1.4	WRS-200-014-E-BVPTX-BS
20	1.5	WRS-200-015-E-BVPTX-BS
20	1.7	WRS-200-017-E-BVPTX-BS
20	1.9	WRS-200-019-E-BVPTX-BS
20	2.0	WRS-200-020-E-BVPTX-BS
20	2.1	WRS-200-021-E-BVPTX-BS
20	2.2	WRS-200-022-E-BVPTX-BS
20	2.3	WRS-200-023-E-BVPTX-BS
20	2.4	WRS-200-024-E-BVPTX-BS
20	2.5	WRS-200-025-E-BVPTX-BS
20	2.6	WRS-200-026-E-BVPTX-BS
20	3.3	WRS-200-033-E-BVPTX-BS

Shackles sold separately

Round Sling Accessories

High Performance



Multi Meter

Bullivants

Anti Cut Sleeve

	And Cot Siccic		
WLL t	Description	Width mm	Part Number
10 - 20	Dyneema anti cut sleeve with hook and loop fastener	110	WWSL-110-DCG-SU-CRM-1M
25 - 30	Dyneema anti cut sleeve with hook and loop fastener	130	WWSL-130-DCG-SU-CRM-1M
30 - 60	Dyneema anti cut sleeve with hook and loop fastener	200	WWSL-200-DCG-SU-CRM-1M
30 - 60	Dyneema anti cut sleeve with hook and loop fastener	200	WWSL-200-DCG-SU-CRM-2M
_	Multi meter for Bullivants high performance multi slings (general use only)	_	43050334



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Bullivants

SYNTHETIC SLINGS

Round Slings

• Complies with AS 4497

07

Heavy duty outer casing for extra resistance to damage
Each sling supplied with test certificate
Colour coded to meet international lifting standards
Suitable for use with cranes, hoists and blocks

Bullivants

WLL t	Colour	Length m	Part Number
1	Violet	onne Round Slings 0.5	WRS-010-005-E
1	Violet	0.7	WRS-010-003-E
1	Violet	1.0	WRS-010-007-E
1	Violet	1.5	WRS-010-015-E
1	Violet	2.0	WRS-010-020-E
1	Violet	2.5	WRS-010-025-E
1	Violet	3.0	WRS-010-030-E
1	Violet	4.0	WRS-010-040-E
1	Violet	5.0	WRS-010-050-E
1	Violet	6.0	WRS-010-060-E
1	Violet	7.0	WRS-010-070-E
		onne Round Slings	
2	Green	0.5	WRS-020-005-E
2	Green	0.7	WRS-020-007-E
2	Green	1.0	WRS-020-010-E
2	Green	1.5	WRS-020-015-E
2	Green	2.0	WRS-020-020-E
2	Green	2.5	WRS-020-025-E
2	Green	2.6	WRS-020-026-E
2	Green	3.0	WRS-020-030-E
2	Green	4.0	WRS-020-040-E
2	Green	5.0	WRS-020-050-E
2	Green	6.0 onne Round Slings	WRS-020-060-E
	Yellow		WRS-030-005-E
3	Yellow	0.5	WRS-030-005-E WRS-030-010-E
3	Yellow	1.5	WRS-030-015-E
3	Yellow	2.0	WRS-030-020-E
3	Yellow	2.5	WRS-030-025-E
3	Yellow	3.0	WRS-030-020-E
3	Yellow	4.0	WRS-030-040-E
3	Yellow	5.0	WRS-030-050-E
3	Yellow	6.0	WRS-030-060-E
3	Yellow	8.0	WRS-030-080-E
3	Yellow	10	WRS-030-100-E
	4 To	onne Round Slings	
4	Grey	1.0	WRS-040-010-E
4	Grey	1.5	WRS-040-015-E
4	Grey	2.0	WRS-040-020-E
4	Grey	3.0	WRS-040-030-E
4	Grey	4.0	WRS-040-040-E
4	Grey	5.0	WRS-040-050-E
4	Grey	6.0	WRS-040-060-E
4	Grey	8.0	WRS-040-080-E
4	Grey	10	WRS-040-100-E
		onne Round Slings	
5	Red	1.0	WRS-050-010-E
5	Red	1.5	WRS-050-015-E
5	Red	2.0	WRS-050-020-E
5	Red	3.0	WRS-050-030-E
5	Red	4.0	WRS-050-040-E
5	Red	5.0	WRS-050-050-E
5	Red	6.0	WRS-050-060-E
5	Red	8.0 Dana Pound Slings	WRS-050-080-E
6		onne Round Slings	WRS-060-010-E
6	Brown	1.0	WRS-060-010-E WRS-060-020-E
6	Brown Brown	2.5	WRS-060-020-E WRS-060-025-E
6	Brown	3.0	WRS-060-025-E WRS-060-030-E
6	Brown	4.0	WRS-060-030-E
6	Brown	5.0	WRS-060-040-E
6	Brown	6.0	WRS-060-050-E
5	DIOWII	0.0	1110-000-000-L

WLL t	Colour	Length m	Part Number
6	Brown	8.0	WRS-060-080-E
6	Brown	10.0	WRS-060-100-E
		nne Round Slings	
8	Blue	1.0	WRS-080-010-E
8	Blue	2.0	WRS-080-020-E
8	Blue	2.5	WRS-080-025-E
8	Blue	3.0	WRS-080-030-E
8	Blue	4.0	WRS-080-040-E WRS-080-050-E
8	Blue		WRS-080-050-E
8	Blue	6.0 8.0	WRS-080-080-E
0		- 50 Tonne Round Slings	Wh3-000-000-E
10	Orange	0.5	WRS-100-005-E
10	Orange	1.0	WRS-100-005-E
10	Orange	1.5	WRS-100-015-E
10	Orange	2.0	WRS-100-075-E
10	Orange	2.5	WRS-100-020-E
10	Orange	3.0	WRS-100-020-E
10	Orange	4.0	WRS-100-040-E
10	Orange	5.0	WRS-100-040-E
10	Orange	6.0	WRS-100-050-E
10	Orange	8.0	WRS-100-080-E
10	Orange	10	WRS-100-000-E
12	Orange	4.0	WRS-120-040-E
12		6.0	WRS-120-040-E
12	Orange	8.0	WRS-120-080-E
12	Orange	10	WRS-120-080-E
15	Orange	0.7	WRS-120-100-E
15	Orange		WRS-150-007-E
	Orange	1.0	
15	Orange	2.0 3.0	WRS-150-020-E WRS-150-030-E
	Orange		WRS-150-030-E
15	Orange	4.0	
15 15	Orange	6.0	WRS-150-060-E WRS-150-080-E
	Orange	8.0	WRS-200-010-E
20 20	Orange	<u> </u>	WRS-200-010-E
	Orange		
20 20	Orange	2.5	WRS-200-025-E WRS-200-030-E
20	Orange	4.0	WRS-200-030-E
20	Orange	6.0	WRS-200-040-E
20	Orange	8.0	WRS-200-080-E
20	Orange	10	WRS-200-000-E
20	Orange	12	WRS-200-100-E
20	Orange	2.0	WRS-200-120-E
	Orange		WRS-250-020-E
25	Orange	3.0	WRS-250-030-E WRS-250-040-E
25	Orange	4.0	
25	Orange	6.0	WRS-250-060-E
25	Orange	8.0	WRS-250-080-E
25	Orange	10	WRS-250-100-E
30	Orange	3.0	WRS-300-030-E
30	Orange	4.0	WRS-300-040-E
30	Orange	6.0	WRS-300-060-E
30	Orange	8.0	WRS-300-080-E
30	Orange	10	WRS-300-100-E
35	Orange	8.0	WRS-350-080-E
40	Orange	3.0	WRS-400-030-E
40	Orange	4.0	WRS-400-040-E
40	Orange	6.0	WRS-400-060-E
50	Orange	2.0	WRS-500-020-E
50	Orange	3.0	WRS-500-030-E
50	Orange	4.0	WRS-500-040-E
50	Orange	6.0	WRS-500-060-E
50	Orange	8.0	WRS-500-080-E

07

SLINGS – SYNTHETIC – FLAT

Flat Webbing Slings

- 2ply Polyester webbing with formed eyes at each end
- Each sling supplied with test certificate
- Colour coded to meet international

Colour

Violet

Violet

Violet

Violet

Violet

Violet

Violet

Violet

Violet

Green Green

Green Green

Green

Green

Green

Green

Yellow

Yellow Yellow

Yellow

Yellow

Length m

ebbing Slings

ing Slings

ing Slings

t We

0.5

4.0

5.0

6.0

4.0

6.0

at Web

2 Tonne Flat Webb

Part Number

WWS-010-005-2-050

WWS-010-010-2-050

WWS-010-015-2-050

WWS-010-020-2-050 WWS-010-025-2-050

WWS-010-030-2-050

WWS-010-040-2-050

WWS-010-050-2-050 WWS-010-060-2-050

WWS-010-080-2-050

WWS-020-010-2-075

WWS-020-015-2-075 WWS-020-020-2-075

WWS-020-025-2-075 WWS-020-030-2-075

WWS-020-040-2-075

WWS-020-050-2-075

WWS-020-060-2-075

WWS-030-010-2-100

WWS-030-015-2-090

WWS-030-020-2-090

WWS-030-025-2-090

WWS-030-030-2-090

WWS-030-035-2-100

10

- lifting standards • Ideal for use with cranes, hoists and blocks
- Complies with AS 1353.1

WLL t

2

2

3

3

WLL t	Colour Length m		Part Number
3	Yellow	4.0	WWS-030-040-2-090
	Yellow	5.0	WWS-030-050-2-100
3	Yellow	6.0	WWS-030-060-2-100
3	Yellow	8.0	WWS-030-080-2-100
3		ne Flat Webbing Slings	
4			WWS-040-020-2-140
	Grey	2.0	
4	Grey	2.5	WWS-040-025-2-140
4	Grey	3.0	WWS-040-030-2-120
4	Grey	3.5	WWS-040-035-2-120
4	Grey	4.0	WWS-040-040-2-125
4	Grey	6.0	WWS-040-060-2-140
	5 Ton	ne Flat Webbing Slings	•
5	Red	2.0	WWS-050-020-2-150
5	Red	3.0	WWS-050-030-2-120
5 5 5 5 5 5	Red	4.0	WWS-050-040-2-120
5	Red	5.0	WWS-050-050-2-120
5	Red	7.0	WWS-050-070-2-150
5	Red	8.0	WWS-050-080-2-150
	6 Ton	ne Flat Webbing Slings	;
6	Brown	3.0	WWS-060-030-2-180
6	Brown	4.0	WWS-060-040-2-180
6	Brown	5.0	WWS-060-050-2-150
6	Brown	6.0	WWS-060-060-2-180
	10 Tor	nne Flat Webbing Sling	S
10	Orange	3.0	WWS-100-030-2-300

6.0

Yellow 8t and other size slings available on request

SLINGS – SYNTHETIC – ADJUSTABLE

Adjustable HMPE Lifting Slings

- WLL from 3.3t 17t
- High Strength to weight ratio
- AmSteel® Blue Dyneema rope
- Torque free for reduced risk of recoil
- Faster change outs



Rope Dia mm	WLL t	Adjustable Length m	Weight kg	Part Number
12	3.3	4-6	1.7	WADAP-12-2-4060
16	5.0	4-6	2.9	WADAP-16-2-4060
18	6.6	4-6	3.8	WADAP-18-2-4060
22	11.5	4-6	5.8	WADAP-22-2-4060
26	15	4-6	8.3	WADAP-26-2-4060
30	17	6 - 8	11.2	WADAP-30-2-6080

Bullivants

WWS-100-060-2-300



Orange

HOISTING & WINCHING

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CHOOSING THE RIGHT HOIST

There are a variety of different hoisting products available, including manual chain & lever blocks, in addition to electric & air powered chain hoists.

TYPES

Manual hoists are available in two main types:

Chain Blocks and Lever Blocks allow easy operation and maintenance. Using manual power for operation, the lifting mechanism is designed to do most of the work for you.

Manual Hoists are ideal for tight spaces and light duty applications with a typical lifting capacity of up to 30 tonnes.

Bullivants has questionnaires available for custom lifting applications to capture all required data to ensure we can offer you the right hoist for the job.

CHAIN BLOCKS

Chain Blocks are primarily for vertical lifting applications however the Tiger range allows angled use up to 45 degrees from vertical. Manual Chain Blocks have the ability to operate the pulling chain from the ground even when the hoist is positioned up high. Chain Blocks also allow very fine adjustment for precision raising, lowering or positioning applications.

LEVER BLOCKS

Being compact and lightweight, Lever Blocks are ideal for horizontal, angled and low vertical loads. With only one hand required to operate, the lever handle is located next to the hoist suspension point so the lifting mechanism must be close to the operator and the connection to operate. Lever Blocks are commonly used for horizontal pulling and hoisting operations where the operator is located close to the load.







KEY FEATURES

Overload Protection (OLP)

Chain blocks and lever blocks can be optioned with an Overload Limiter mechanism to prevent further lifting of the load when the load limit is exceeded.

OLP is designed to prevent catastrophic failure due to excessive overloading, by using a clutch mechanism on the input stage of a hoist. When the clutch detects an overload condition, the lever block handle or chain block hand chain will slip, preventing any additional load being applied, and allowing you to lower the load safely to the ground.

OLP devices not only protect the machinery from physical damage, but it also safeguards against injury or death.

Bullivants BVOLP and Tiger (by Bullivants) OLP range allows safe lifting, positioning, and lowering, ensuring you never excessively overload your manual hoist. The Bullivants and Tiger manual hoisting ranges can both be optioned with Overload Protection.





Traditionally and predominantly used in the mining industry, manual hoists with overload protection are becoming more widely used across all major industries, as companies focus more and more on the safety of their workers.

The integration of OLP devices in manual hoists offers a vital safeguard against the potentially expensive and hazardous consequences of overloading. Investing in the right equipment now could save you time, money and stress in the long run.

Designed to prevent damage to the hoist and ensuring the safety of the operator - the clutch in the drive system will slip allowing the hand wheel (chain block) or handle (lever block) to rotate without engaging the gear box. This prevents further lifting of the load, whilst safe lowering is still possible.

Note: Not all overload systems are equal, some will completely lock the hoist requiring a larger hoist or crane to be used to take up the load and lower it safely to the ground.

Safety Brake

The brake system engages when the operating system senses the load being applied to the hoist and operates to suspend the load in place. This system allows the load to be raised, lowered and held in position.

Note: Bullivants and Tiger hoists require only 1-3% of load to engage the brake system whilst some require a higher load to operate, please check with the equipment manufacturer if this is a requirement for your application.

Benefits

- No electricity or power source required making them portable for sites that do not have access to air or electricity
- Cost efficient
- Portable
- Easy maintenance

AIR & ELECTRIC HOISTS

80

Where repetitive lifting and longer lifting heights are required powered hoists offer clear benefits in relation to productivity and risk of personal injury due to repetitive strain injury.

Electric hoists are available to suit single phase and three phase power supplies (depending on capacity) and are typically installed in permanent or semi-permanent positions.

Air powered hoists offer an unrivalled duty cycle meaning that they can be used repetitively without need for the hoist motor to rest and cool.

Both Air and Electric hoists can be optioned with radio controls for remote operation and are typically supplied with chain bags or buckets depending on configuration and height of lift. Air and Electric hoists can be supplied with either push, geared or motorised trolleys depending on the application.

Benefits

- High load carrying capacity
- Long heights of lift available for repetitive or custom operations
- Versatile
- Increased durability
- Radio controls available to remove personnel from lifting danger zone

Contact your sales representative for more information on Air and Electric powered hoist products.

HOISTING ANCILLARIES



PUSH TROLLEYS & GEARED TROLLEYS

Beam Trolleys (also known as Girder Trolleys) are commonly used with chain blocks to allow the load to be lifted and moved along a certified beam or monorail.

Beam Trolleys can be supplied in push type or hand chain driven geared type depending on the application. If you encounter a situation where headroom is crucial then Tiger Chain Blocks and trolleys can be close coupled to maximise the height of lift available.

In addition to the standard Push and Geared Trolleys Bullivants stocks a range of Beam Trolley Clamps that are designed for quick and versatile installation on a range of beam widths.

GIRDER CLAMPS

Girder Clamps (also known as Beam Clamps) are used for the suspension of hoisting equipment to an overhead beam or girder and can be supplied in the standard Bullivants range or the premium Tiger by Bullivants range. Unlike Beam Trolleys, Girder Clamps create a single fixed connection point and do not allow the load to be moved along a beam or monorail.

The Tiger range offers some unique capabilities in relation to side loading and off centre lifting and, depending on the model, can retain full working up to 90 degrees from vertical.

LIFTING CLAMPS

Bullivants supplies a wide range of Lifting Clamps that include Screw Cam, Universal & Horizontal types to cover almost all lifting and handling applications.

- Screw Cam Clamps Extremely versatile and can be used for lifting vertically and horizontally or as a suspension point for a Chain Block or Lever Block
- Universal Plate Clamps Designed for vertical lifting
 and turning of steel plate
- Horizontal Plate Clamps Designed for unloading
 and lifting plate that is laid flat

MAGNETIC LIFTERS

Bullivants supplies a range of Magnetic Lifters from 100kg up to 2000kg capacities for situations where lifting clamps may not be suitable, for example steel billets, thick steel and high hardness steels.

All Magnetic Lifters are easy to operate and are fitted with V-slots that allow them to be used on circular material (e.g. pipe or steel round bar). All Magnetic Lifters are supplied with comprehensive instruction manuals containing load charts and reduction factors to allow selection of the correct Magnetic Lifter for your application.



TIGER CLAMPS

Choosing the Right Clamp

You must always use the correct clamp for your application.

Our exclusive Tiger by Bullivants range, offers four clamping solutions, including BCF and BCU clamps. These are unique and can suspend loads up to 90° without reducing the Working Load Limit.

BCU Universal Clamps:

- To be used with steel girders and beams.
- Up to 90° side and cross loading.

BCF Beam Clamps:

- To be used with steel girders and beams.
- Up to 90° side loading.
- Up to 15° cross loading.

BCA Adjustable Angle Beam Clamp:

- To be used with steel angles.
- Up to 15° from vertical.

BCB Bulb Flat Bar Anchor Clamps:

- To be used with bulb steel sections.
- Up to 45° side loading.
- Up to 15° cross loading.
- For suspension use only Not to be used for lifting.
- Commonly used in the shipping and shipbuilding industries.

Tiger by Bullivants clamps are designed for material handling operations and must not be used for fall protection or suspension of people applications.



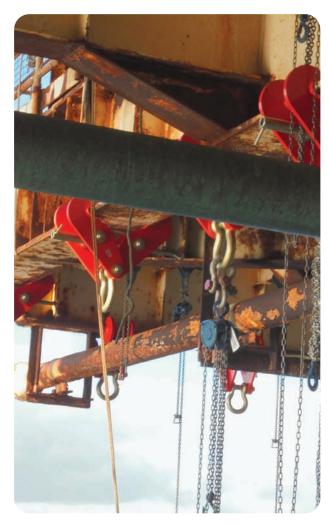
TIGER BRAKE WINCHES

The Tiger Brake Winch is a high quality multi-purpose winch used for a wide variety of lifting and pulling applications.

The automatic brake ensures the load remains suspended when the handle is released and avoids uncontrolled descent of the load.

All mechanical components are enclosed for protection against dust, dirt and rain contamination.

Tiger - The inventors of the original brake winch.



CARE & USE

- Store hoists on A-frames or wall racks in a clean dry place
- · Lightly oil chains before prolonged storage
- Never lift loads in excess of the WLL of the chain or lever block
- · Do not expose block to rain or excessive humidity
- Do not permit more than one operator to pull on a single hand chain at one time
- Do not allow dirt or grease to accumulate in the pockets of the hand or load chain wheels
- Listen for the 'clicking' of the ratchet pawl during use, the absence of the ratchet 'clicking' noise may indicate a malfunction in the chain block or lever block mechanism

- Lifting a load with two Chain Blocks is not recommended unless specified by the manufacturer
- Never run the load chain out too far
- Never leave a load suspended on the block
- If the lever block or chain block is fitted with an overload limiter the block will cease to operate if in excess of the Working Load Limit (WLL)
- The handle on a lever block is of sufficient design length to provide mechanical advantage to meet the Working Load Limit (WLL). Overloading can occur if the force applied is greater than 40kg.

WHY INSPECTION IS IMPORTANT

For safety, all hoists require periodic inspection and test loading by a competent inspection officer on a regular basis and prior to use. Full servicing (including proof load testing by an approved inspection and testing service provider) of Chain and Lever Blocks on a regular basis is recommended as they contain brake discs that cannot be accessed or inspected without removal of covers and side plates.

CHAIN BLOCKS

When inspecting Chain Blocks, the following points must be assessed:

- Identification plate is clearly legible and marked with type/model, serial/batch number, nominal size and grade of load chain, rated capacity and name/ identification of the manufacturer
- · Inspection is in date and the asset is registered
- Frame and covers for cracks, gouges, corrosion and other damage
- Load chain wear, gouges, nicks, arc burns, twisted & bent links and corrosion
- · Load wheel for foreign material, wear and corrosion
- Sheaves for wear, freedom of movement and corrosion
- Dead end pins for wear, tightness and corrosion
- Hooks for deformation, cracking, bending, arc burns and corrosion
- · Safety latches for condition and operation
- Measure hook throats for deformation
- Hand chain for wear, twisted or gouged links and corrosion
- Over capacity load lifting is hazardous and should not be undertaken

LEVER BLOCKS

When inspecting Lever Blocks, the following points must be assessed:

- Identification plate is clearly legible and marked with type/model, serial/batch number, nominal size and grade of load chain, rated capacity and name/identification of the manufacturer
- Inspection is in date and the asset is registered
- Ensure that the chain block certification is current
- Inspect frame, covers and handle for cracks, gouges, corrosion and other damage
- · Check for freewheeling function
- · Ensure raise and lower selections operate correctly
- · Check there is an end stop fitted to the chain
- Check if the chain gives the appearance of having a spiral as this will indicate that the block has been overloaded whilst the chain was twisted
- Lubricate if required. Do not over lubricate as contamination of the block clutch may result
- Check chain for wear, gouges, nicks, arc burns, twisted and bent links and corrosion
- Twists in chain at hook block
- Hooks for deformation, cracking, bending, arc burns and corrosion
- Safety latches for condition and operation
- Measure hook throats for deformation

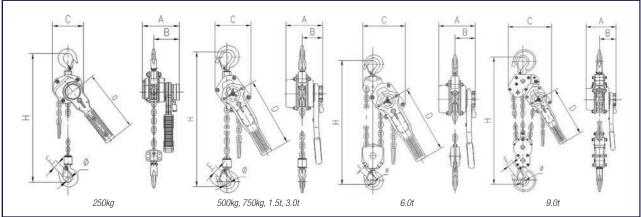
HOISTS - LEVER BLOCKS

Lever Blocks

- Brake engages at maximum 3% of Working Load Limit (WLL)
- Individually load tested in accordance with Australian Standards
- Stainless steel ID plates and rivets suitable for underground applications
- Key internal components are CNC machined for improved overall
- product reliability and longer life
- High visibility colour contrast connecting points
- Suitable for mining, underground, construction, rural and industrial applications
- Complies with AS 1418.2



Capacity t	Lift m	Load Chain Dia. mm	Mass kg	Chain Falls	Part Number
0.25	1.0	4.0	2.4	1	WHS-L-0025-010-BVE
0.50	1.5	5.0	5.3	1	WHS-L-0050-015-BVE
0.75	1.5	5.6	7.0	1	WHS-L-0075-015-BVE
0.75	3.0	5.6	8.0	1	WHS-L-0075-030-BVE
1.5	1.5	7.1	10.0	1	WHS-L-0150-015-BVE
1.5	3.0	7.1	12.0	1	WHS-L-0150-030-BVE
3.0	1.5	10.0	20.0	1	WHS-L-0300-015-BVE
3.0	3.0	10.0	23.0	1	WHS-L-0300-030-BVE
6.0	1.5	10.0	29.0	2	WHS-L-0600-015-BVE
6.0	3.0	10.0	36.0	2	WHS-L-0600-030-BVE
9.0	1.5	10.0	51.0	3	WHS-L-0900-015-BVE



Part Number	A mm	B mm	C mm	Lever Handle Length D mm	E mm	Headroom H mm	Ø mm
WHS-L-0025-010-BVE	100	70	86	168	20	250	18
WHS-L-0050-015-BVE	142	81	118	253	22	310	20
WHS-L-0075-015-BVE	147	87	132	273	26	340	25
WHS-L-0075-030-BVE	147	87	132	273	26	340	25
WHS-L-0150-015-BVE	172	94	145	378	29	400	30
WHS-L-0150-030-BVE	172	94	145	378	29	400	30
WHS-L-0300-015-BVE	185	97	198	418	37	520	36
WHS-L-0300-030-BVE	185	97	198	418	37	520	36
WHS-L-0600-015-BVE	185	97	230	418	43	640	43
WHS-L-0600-030-BVE	185	97	230	418	43	640	43
WHS-L-0900-015-BVE	185	97	338	418	47	730	44

DID YOU KNOW

The brake engagement force is an important factor to be considered when selecting Lever Blocks and Chain Blocks.

Brake engagement force (also referred to as light load rating) is the minimum force expressed as a percentage that will engage the braking system to prevent a load from dropping. All Bullivants Chain Blocks are rated at 3% maximum load rating.

All Tiger products are rated at 2% maximum light load rating.

When choosing a manual hoist the minimum load to be lifted is often as important as the maximum load to be lifted. Example: A 1 tonne capacity Bullivants Chain Block will engage the braking system at a force as low as 30kg.



08

HOISTING & WINCHING

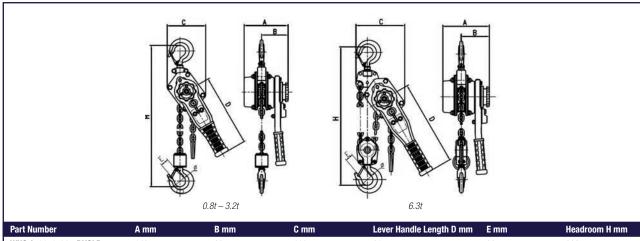
Lever Blocks – Overload Protection

- Built-in safety overload clutch (limiter) technology for greater work safety when lifting
- Individually load tested in accordance with Australian Standards
- Stainless steel ID plates and rivets suitable for underground applications
 Key internal components are CNC machined for improved overall product reliability and longer life
- High visibility colour contrast connecting points
- Suitable for mining, underground, construction, rural and
- industrial applications
- Complies with AS 1418.2



Bullivants

Capacity t	Headroom mm	Lift m	Load Chain Dia. mm	Mass kg	Chain Falls	Part Number
0.5	330	1.5	5.0	6.0	1	WHS-L-0050-015-BVOLP
0.5	330	3.0	5.0	6.8	1	WHS-L-0050-030-BV0LP
0.8	365	1.5	6.0	7.9	1	WHS-L-0080-015-BV0LP
0.8	365	3.0	6.0	9.2	1	WHS-L-0080-030-BVOLP
1.6	400	1.5	7.0	10.9	1	WHS-L-0160-015-BV0LP
1.6	400	3.0	7.0	12.6	1	WHS-L-0160-030-BVOLP
3.2	520	1.5	10.0	20.2	1	WHS-L-0320-015-BV0LP
3.2	520	3.0	10.0	23.5	1	WHS-L-0320-030-BV0LP
6.3	595	1.5	10.0	35.0	2	WHS-L-0630-015-BVOLP
6.3	595	3.0	10.0	41.5	2	WHS-L-0630-030-BVOLP



Part Number	A mm	B mm	C mm	Lever Handle Length D mm	E mm	Headroom H mm
WHS-L-0050-015-BVOLP	143	90.5	118	31.5	23.5	330
WHS-L-0050-030-BVOLP	143	90.5	118	31.5	23.5	330
WHS-L-0080-015-BVOLP	157	94	140	37.5	26	365
WHS-L-0080-030-BVOLP	157	94	140	37.5	26	365
WHS-L-0160-015-BVOLP	178	104	145	45	31	400
WHS-L-0160-030-BVOLP	178	104	145	45	31	400
WHS-L-0320-015-BVOLP	206	118	199	50	37	520
WHS-L-0320-030-BVOLP	206	118	199	50	37	520
WHS-L-0630-015-BVOLP	206	118	199	50	37	595
WHS-L-0630-030-BVOLP	206	118	230	65	46	595

Lever Blocks – Latch Kits

• Set contains latch, spring and pin

Latch kits to suit Bullivants Lever Blocks and OLP Lever Blocks

Bullivants



Description	Part Number
Latch kit to suit 0.25t Bullivants lever block	WHSP-L-BVE-LK-0025
Latch kit to suit 0.5t Bullivants lever block	WHSP-L-BVE-LK-0050
Latch kit to suit 0.75t Bullivants lever block	WHSP-L-BVE-LK-0075
Latch kit to suit 1.5t Bullivants lever block	WHSP-L-BVE-LK-0150
Latch kit to suit 3t Bullivants lever block	WHSP-L-BVE-LK-0300
Latch kit to suit 6t Bullivants lever block	WHSP-L-BVE-LK-0600
Latch kit to suit 9t Bullivants lever block	WHSP-L-BVE-LK-0900
Latch kit to suit 0.5t Bullivants OLP lever block	WHSP-L-BVOLP-LK-0050
Latch kit to suit 0.8t Bullivants OLP lever block	WHSP-L-BVOLP-LK-0080
Latch kit to suit 1.6t Bullivants OLP lever block	WHSP-L-BVOLP-LK-0160
Latch kit to suit 3.2t Bullivants OLP lever block	WHSP-L-BVOLP-LK-0320
Latch kit to suit 6.3t Bullivants OLP lever block	WHSP-L-BVOLP-LK-0630

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Lever Blocks

- Bullivants premium heavy duty lever block range suitable for extreme duty applications
- Equipped with unique dual brake mechanism (excluding 0.25t and 0.5t models)
- Lightweight and portable
- Adaptable to use both inverted and horizontally
- Using only the highest quality alloy calibrated load chains according to EN 818-7 and ISO 1687
- · Patented quad cam pawl assembly for additional safety
- All major parts are heat treated and precisely machined
- Finished in high quality powder coat paint offering excellent corrosion protection
- Operating temperature range of -40°C to +80°C
- Light load tested and certified at 2% of the rated capacity
- Proof tested to 1.5 times rated capacity
- · Can be chained to meet your exact requirements
- Individual spares readily available
- Suitable for mining, underground, construction, rural and industrial applications
- Complies with AS 1418.2

WHS-L-0320-015-TGPR0

WHS-L-0320-015-TGOLP WHS-L-0630-015-TGPR0 WHS-L-0630-015-TGOLP

WHS-L-1000-015-TGPR0 WHS-L-1000-015-TGOLP

WHS-L-1500-015-TGPR0 WHS-L-1500-015-TGOLP

WHS-L-2000-015-TGPR0

WHS-L-2000-015-TGOLP

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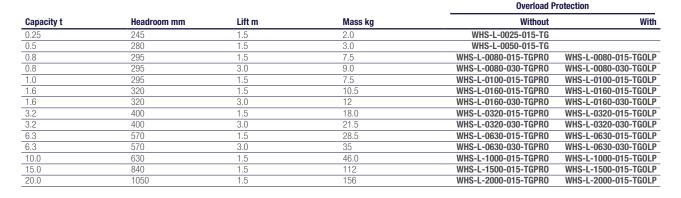
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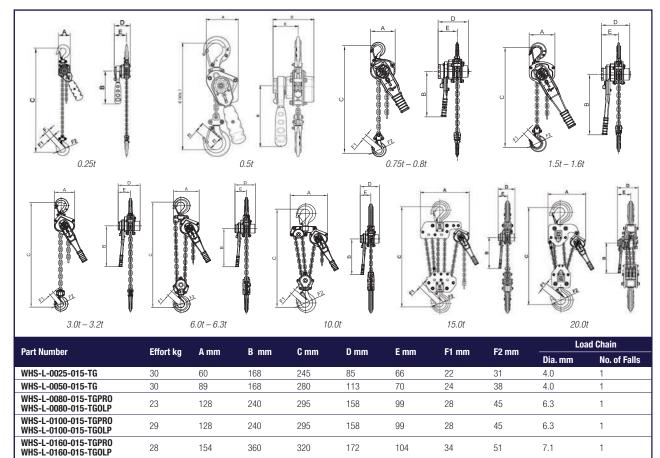
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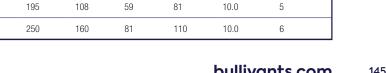
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Bullivants



HOISTING & WINCHING

Subsea Lever Blocks

08

- Designed for use in seawater and other corrosive environments
- DNV GL Verification tested according to NORSOK R-002
- Patented quad cam pawl system
- Equipped with our unique intelligent Torsion Brake System
- Certified track record with thousands of hours of empirical evidence of performance
- Proven marine specific friction discs
- Adaptable to use both inverted and horizontally
- Stainless steel fixings and fasteners
- Fully Corrosion protected body and components to ensure reliable long term use
- -40°C to +80°C Operating temperature range
- Adjustable chain end anchorage specifically designed to the contours of the hoist
- Suitable for use in multi-immersion applications, subsea operation
- by divers and other corrosive environments
- Complies with AS 1418.2





Capacity t	Lift m	Headroom mm	Mass kg	Part Number
0.8	3.0	295	9.0	WHS-L-0080-030-TGSS
1.6	3.0	320	12.5	WHS-L-0160-030-TGSS
3.2	3.0	400	22.0	WHS-L-0320-030-TGSS
6.3	3.0	570	34.5	WHS-L-0630-030-TGSS
10	3.0	630	55.0	WHS-L-1000-030-TGSS
15	3.0	840	128.0	WHS-L-1500-030-TGSS
20	3.0	1050	174.0	WHS-L-2000-030-TGSS

PRODUCT INSIGHT

The Tiger Subsea range was designed for underwater use in the Oil & Gas industry. The anti corrosion design makes them ideal for harsh environments such as water treatment plants, chemical plants, shipping industry and general marine and coastal applications.

- Torsion Safety Brake will raise, hold and lower the lightest of loads without slipping
- Patented Quad Cam Pawl System will ensure the brake is still fully functional and the load is sustained without damage to the mechanism
- Chain End Anchorage designed to fit the contours of the hoist, whilst maintaining the flexibility of 'freewheeling' the chain to any required starting position
- Two stage finish offering excellent corrosion and high impact protection
- Ergonomically designed handle for efficiency, ease of use with strengthening side ribs

Lever Blocks – Latch Kits





Capacity t	Suits	Part Number
0.5	PROLH	WHSP-L-TP-SL-0050
0.8	PROLH	WHSP-L-TP-SL-0080
1.0	PROLH	WHSP-L-TP-SL-0100
1.6	PROLH	WHSP-L-TP-SL-0160
3.2	PROLH	WHSP-L-TP-SL-0320
6.3	PROLH	WHSP-L-TP-SL-0630
10.0	PROLH	WHSP-L-TP-SL-1000
15.0	PROLH	WHSP-L-TP-SL-1500
20.0	PROLH	WHSP-L-TP-SL-2000

Capacity t	Suits	Part Number
0.8	Subsea	WHSP-L-SS-SL-0080
1.6	Subsea	WHSP-L-SS-SL-0160
3.2	Subsea	WHSP-L-SS-SL-0320
6.3	Subsea	WHSP-L-SS-SL-0630
10.0	Subsea	WHSP-L-SS-SL-1000
15.0	Subsea	WHSP-L-SS-SL-1500
20.0	Subsea	WHSP-L-SS-SL-2000

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KITO

VITAL

Lever Blocks

- Fitted with patented non-slip knurled hook
- One-touch operation for free chain adjustment • NR Series - Free wheeling mechanism, up to 9t capacity
- VR Series Non-free wheeling, up to 6.3t capacity
- VR Series suitable for tandem lifting applications
- Complies with AS 1418.2, JIS and ISO regulations



Capacity t	Lift m	Туре	Load Chain Dia. mm	Mass kg	Chain Falls	Part Number
0.25	1.5	NR	4.0	1.9	1	WHS-L-0025-015-VT
0.5	1.5	NR	5.0	3.5	1	WHS-L-0050-015-PN
0.8	1.5	NR	5.6	6.0	1	WHS-L-0080-015-PN
0.8	1.5	VR	6.3	6.9	1	WHS-L-0080-015-VT
1.0	1.5	NR	6.3	7.2	1	WHS-L-0100-015-PN
1.6	1.5	VR	7.1	9.7	1	WHS-L-0160-015-VT
1.6	1.5	NR	7.1	9.8	1	WHS-L-0160-015-PN
3.2	1.5	VR	9.0	16.3	1	WHS-L-0320-015-VT
3.2	1.5	NR	9.0	16.6	1	WHS-L-0320-015-PN
6.3	1.5	VR	9.0	26.7	2	WHS-L-0630-015-VT
6.3	1.5	NR	9.0	27.0	2	WHS-L-0630-015-PN
9.0	1.5	NR	9.0	47.3	3	WHS-L-0900-015-PN
Available with a	verload limiter on r	oquest				

vailable with overload limiter on request Custom lift lengths available on request.

Lever Blocks – Kito L5

- Lightweight, ultra strong, heavy duty lever hoist
- High grade solid alloy steel frame construction
- · Unique patented 'free wheeling' for high safety
- Double brake pads with four braking surfaces
- Durable and safe mechanical brake with double pawl
- Nickel plated super strength Grade 100 load chain
- Needle and ball roller bearings allow maximum mechanical efficiency with minimum effort
- Load capacity: 800 9,000kg
- Ambient temperature: -40°C to +60°C
- Suitable for fabrication, construction, engineering, power transmission and shipbuilding



Capacity t	Headroom mm	Lift m	Lever Length mm	Dia x Pitch mm	Mass kg	Chain Falls	Part Number
0.8	280	1.5	245	5.6 x 15.7	5.7	1	WHS-L-0080-015-L5
0.8	280	3.0	245	5.6 x 15.7	6.8	1	WHS-L-0080-030-L5
1.0	300	1.5	245	5.6 x 15.7	5.9	1	WHS-L-0100-015-L5
1.0	300	3.0	245	5.6 x 15.7	7.0	1	WHS-L-0100-030-L5
1.6	335	1.5	265	7.1 x 19.9	8.0	1	WHS-L-0160-015-L5
1.6	335	3.0	265	7.1 x 19.9	9.7	1	WHS-L-0160-030-L5
2.5	375	1.5	265	8.8 x 24.6	11.2	1	WHS-L-0250-015-L5
2.5	375	3.0	265	8.8 x 24.6	13.8	1	WHS-L-0250-030-L5
3.2	395	1.5	415	10 x 28.0	15.0	1	WHS-L-0320-015-L5
3.2	395	3.0	415	10 x 28.0	18.5	1	WHS-L-0320-030-L5
6.3	540	1.5	415	10 x 28.0	26.0	2	WHS-L-0630-015-L5
6.3	540	3.0	415	10 x 28.0	33.1	2	WHS-L-0630-030-L5
9.0	680	1.5	415	10 x 28.0	40.0	3	WHS-L-0900-015-L5
9.0	680	3.0	415	10 x 28.0	50.5	3	WHS-L-0900-030-L5

Load Chain

Custom lift & hand chain lengths available on request Available with overload limiter on request

Lever Blocks – Kito LX

- Award winning pocket sized design mini lever hoist
- Portable and user friendly, perfect for tight spaces or elevated tasks
- Fasteners are designed to protect threads from damage and ease of maintenance • Robust integrated aluminium housing, tip supported hook latches, and heat treated gears and chain
- Efficient single step gear requires manual fastening for secure load holding and reliable tension control
- Corrosion and wear-resistant nickel plated Grade 100 load chain
- Payload: 250 500kg

• Ambient temperature: -40°C to +60°C



Capacity t	Headroom mm	Lever Length mm	Lift m	Load Chain Dia x Pitch mm	Mass kg	Chain Falls	Part Number
0.25	205	150	1.0	3.2 x 9	1.6	1	WHS-L-0025-010-LX
0.5	246	180	1.2	4.3 x 12	2.6	1	WHS-L-0050-012-LX





KITO

HOISTS – CHAIN BLOCKS

Chain Blocks

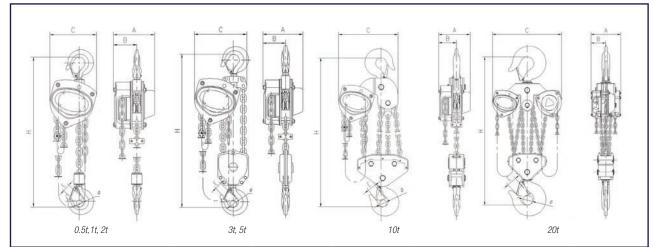
- Improved braking performance to ensure the integrity of the load under all conditions
- High visibility colour contrast connecting points
- Load tested in accordance with Australian Standards
 Stainless steel ID plates and rivets suitable for underground applications
 Brake engages at maximum of 3% of Working Load Limit (WLL)
 Key internal components are CNC machined for improved

- overall product reliability and longer life
- Complies with AS 1418.2



Bullivants

Capacity t	Lift m	Mass kg	Hand Chain Length m	Part Number
0.5	3.0	6.5	1.5	WCB-0050-030-BVE-015
0.5	3.0	8.0	2.5	WCB-0050-030-BVE-025
0.5	6.0	13.0	5.5	WCB-0050-060-BVE-055
1.0	3.0	10.5	1.5	WCB-0100-030-BVE-015
1.0	3.0	12.0	2.5	WCB-0100-030-BVE-025
1.0	6.0	17.1	5.5	WCB-0100-060-BVE-055
2.0	3.0	20.0	2.5	WCB-0200-030-BVE-025
2.0	6.0	25.0	5.5	WCB-0200-060-BVE-055
3.0	3.0	23.0	2.5	WCB-0300-030-BVE-025
3.0	6.0	31.9	5.5	WCB-0300-060-BVE-055
5.0	3.0	37.0	2.5	WCB-0500-030-BVE-025
5.0	6.0	49.6	5.5	WCB-0500-060-BVE-055
10.0	3.0	78.0	2.5	WCB-1000-030-BVE-025
10.0	6.0	100.0	5.5	WCB-1000-060-BVE-055
20.0	3.0	172.0	2.5	WCB-2000-030-BVE-025



Part Number	A mm	B mm	C mm	E mm	Ø mm	Headroom H mm
WCB-0050-030-BVE-015	128	75	125	22	20	280
WCB-0050-030-BVE-025	128	75	125	22	20	280
WCB-0050-060-BVE-055	128	75	125	22	20	280
WCB-0100-030-BVE-015	142	76	150	26	25	330
WCB-0100-030-BVE-025	142	76	150	26	25	330
WCB-0100-060-BVE-055	142	76	150	26	25	330
WCB-0200-030-BVE-025	175	90	185	35	33	410
WCB-0200-060-BVE-055	175	90	185	35	33	410
WCB-0300-030-BVE-025	158	80	220	37	36	510
WCB-0300-060-BVE-055	158	80	220	37	36	510
WCB-0500-030-BVE-025	183	90	255	43	43	615
WCB-0500-060-BVE-055	183	90	255	43	43	615
WCB-1000-030-BVE-025	183	90	360	47	44	820
WCB-1000-060-BVE-055	183	90	360	47	44	820
WCB-2000-030-BVE-025	183	90	577	75	82	1060

Bullivants

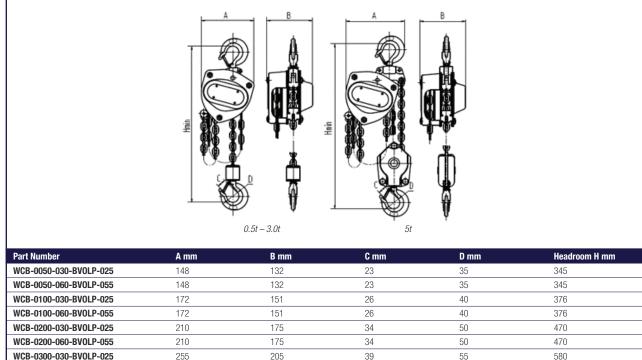
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Bullivants

Chain Blocks – Overload Protection

- Built-in safety overload clutch (limiter) technology for greater work safety when lifting
- Improved braking performance to ensure the integrity of the load under all conditions
- High visibility colour contrast connecting points
- Load tested in accordance with Australian Standards
- Stainless steel ID plates and rivets suitable for underground applications
- Brake engages at maximum of 3% of Working Load Limit (WLL) • Key internal components are CNC machined for improved overall product reliability and longer life
- Top and bottom hooks fitted with ball bearings to allow swiveling under load
- Complies with AS 1418.2

Capacity t	Lift m	Mass kg	Hand Chain Length m	Part Number
0.5	3.0	8.7	2.5	WCB-0050-030-BV0LP-025
0.5	6.0	13.0	5.5	WCB-0050-060-BV0LP-055
1.0	3.0	10.8	2.5	WCB-0100-030-BV0LP-025
1.0	6.0	15.6	5.5	WCB-0100-060-BV0LP-055
2.0	3.0	18.0	2.5	WCB-0200-030-BV0LP-025
2.0	6.0	24.6	5.5	WCB-0200-060-BV0LP-055
3.0	3.0	24.3	2.5	WCB-0300-030-BV0LP-025
3.0	6.0	35.1	5.5	WCB-0300-060-BV0LP-055
5.0	3.0	38.7	2.5	WCB-0500-030-BV0LP-025
5.0	6.0	54.3	5.5	WCB-0500-060-BV0LP-055



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Chain Blocks – Latch Kits

• Set contains latch, spring and pin

WCB-0300-060-BV0LP-055

WCB-0500-030-BV0LP-025

WCB-0500-060-BV0LP-055

• Latch kits to suit Bullivants chain blocks

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Description	Part Number
Latch kit – Cast steel suits 0.5t Bullivants chain block	WCBP-BVE-LK-0050
Latch kit – Cast steel suits 1.0t Bullivants chain block	WCBP-BVE-LK-0100
Latch kit – Cast steel suits 2.0t Bullivants chain block	WCBP-BVE-LK-0200
Latch kit – Cast steel suits 3.0t Bullivants chain block	WCBP-BVE-LK-0300
Latch kit – Cast steel suits 5.0t Bullivants chain block	WCBP-BVE-LK-0500
Latch kit – Cast steel suits 10.0t Bullivants chain block	WCBP-BVE-LK-1000
Latch kit – Cast steel suits 20.0t Bullivants chain block	WCBP-BVE-LK-2000

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Description	Part Number
Latch kit – Cast steel suits 0.5t Bullivants OLP chain block	WCBP-BVOLP-LK-0050
Latch kit – Cast steel suits 1.0t Bullivants OLP chain block	WCBP-BVOLP-LK-0100
Latch kit – Cast steel suits 2.0t Bullivants OLP chain block	WCBP-BVOLP-LK-0200
Latch kit – Cast steel suits 3.0t Bullivants OLP chain block	WCBP-BVOLP-LK-0300
Latch kit – Cast steel suits 5.0t Bullivants OLP chain block	WCBP-BVOLP-LK-0500







Bullivants

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HOISTING & WINCHING

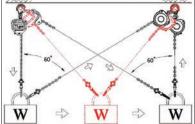
Chain Blocks

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- Designed for extreme duty applications where safety is paramount
- Rugged steel body construction
- Lightweight and portable
- Double cover protection for brake chamber
- Drop forged and heat treated alloy hooks
- High quality alloy calibrated load chain
- Patented quad cam pawl assembly for additional safety
- Certified 2% light load protection
- Heat treated alloy steel triple spur gears and pinion shaft
- -40°C to +80°C Operating temperature range
- Proof tested to 1.5 times rated capacity
- Individual spares available
- Designed for fleeting and cross-hauling applications at angles up to 60° from vertical
- Suitable for mining, underground, construction, rural and industrial applications
- Complies with AS 1418.2







Overload Protection

				Overload Protection	
Capacity t	Lift m	Mass kg	Hand Chain Length m	Without	With
0.25	3.0	3.8	2.5	WCB-0025-030-TG	
0.5	3.0	10.8	2.5	WCB-0050-030-TG	WCB-0050-030-TGOLP
0.5	6.0	16.38	5.5	WCB-0050-060-TG	WCB-0050-060-TGOLP
1.0	3.0	11.8	2.5	WCB-0100-030-TG	WCB-0100-030-TGOLP
1.0	6.0	17.38	5.5	WCB-0100-060-TG	WCB-0100-060-TGOLP
1.6	3.0	16.2	2.5	WCB-0160-030-TG	WCB-0160-030-TGOLP
1.6	6.0	22.5	5.5	WCB-0160-060-TG	WCB-0160-060-TGOLP
2.0	3.0	20.0	2.5	WCB-0200-030-TG	WCB-0200-030-TGOLP
2.0	6.0	27.17	5.5	WCB-0200-060-TG	WCB-0200-060-TGOLP
3.2	3.0	23	2.5	WCB-0320-030-TGT	WCB-0320-030-TGOLPT
3.2	3.0	30.5	2.5	WCB-0320-030-TGS	WCB-0320-030-TGOLP
3.2	6.0	32.6	5.5	WCB-0320-060-TGT	WCB-0320-060-TGOLPT
3.2	6.0	40.1	5.5	WCB-0320-060-TGS	WCB-0320-060-TGOLP
5.0	3.0	37.8	2.5	WCB-0500-030-TG	WCB-0500-030-TGOLP
5.0	6.0	53.31	5.5	WCB-0500-060-TG	WCB-0500-060-TGOLP
8.0	3.0	61.0	2.5	WCB-0800-030-TG2	WCB-0800-030-TG0LP2
8.0	6.0	83.5	5.5	WCB-0800-060-TG2	WCB-0800-060-TG0LP2
10.0	3.0	64.0	2.5	WCB-1000-030-TG	WCB-1000-030-TGOLP
10.0	6.0	87.62	5.5	WCB-1000-060-TG	WCB-1000-060-TGOLP
15.0	3.0	128.5	2.5	WCB-1500-030-TG	WCB-1500-030-TGOLP
15.0	6.0	164.0	5.5	WCB-1500-060-TG	WCB-1500-060-TGOLP
20.0	3.0	178.5	2.5	WCB-2000-030-TG	WCB-2000-030-TGOLPS
20.0	6.0	223.1	5.5	WCB-2000-060-TG	WCB-2000-060-TGOLPS
30.0	3.0	307.0	2.5	WCB-3000-030-TG	WCB-3000-030-TGOLP
35.0	3.0	365.0	2.5	WCB-3500-030-TG	WCB-3500-030-TGOLP
35.0	6.0	446.0	5.5	WCB-3500-060-TG	WCB-3500-060-TGOLP

Custom lift & hand chain lengths available on request

PRODUCT INSIGHT

BULLIVANTS OVERLOAD PROTECTION CHAIN BLOCKS

- Fitted with a slipping clutch overload mechanism to protect the hoist from damage if overloading occurs
- High performance brake system to ensure the integrity of the load under all conditions
- Cast steel load hooks with 'notched' safety latches to increase service life and improve the safety of the lifting operation
- Ball bearing bottom swivel hooks to enable swivelling under load
- · Zinc plated load chain for extra corrosion protection

CLICK HERE FOR A VIDEO DEMONSTRATION



PRODUCT INSIGHT

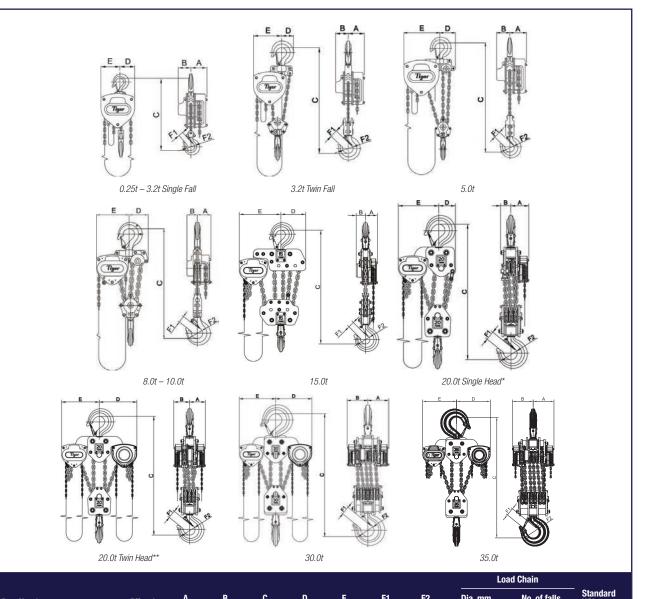
TIGER CHAIN BLOCKS

- Patented Quad Cam Pawl System will ensure the brake is still fully functional and the load is supported without damage to the mechanism
- Unique 8 point multi start thread pinion shaft increasing brake efficiency by 50% when compared to conventional systems
- Chain end stops will hold a load of at least 2.5 times the rated capacity when supporting the full load without restraint from other components
- Optional Overload Protection can be fitted to prevent damage to the hoist due to overloading



Bullivants

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Part Number	Effort kg	A	В	C	D	E	F1	F2	Dia. mm	No. of falls	Standard HOL
WCB-0025-030-TG	17	64	40	240	36	60	22	31	4.0	1	3m
WCB-0050-030-TG WCB-0050-030-TGOLP	21	93	66	305	52	78	24	38	6.3	1	3m
WCB-0100-030-TG WCB-0100-030-TGOLP	25	93	66	340	63	87	28	45	6.3	1	3m
WCB-0160-030-TG WCB-0160-030-TGOLP	32	98	73	385	78	102	34	51	7.1	1	3m
WCB-0200-030-TG WCB-0200-030-TGOLP	34	101	79	420	87	113	35	53	8.0	1	3m
WCB-0320-030-TGS WCB-0320-030-TGOLP	38	109	84	500	98	157	36	56	10.0	1	3m
WCB-0320-030-TGT WCB-0320-030-TGOLPT	34	98	73	488	60	148	36	56	7.1	2	3m
WCB-0500-030-TG WCB-0500-030-TGOLP	37	101	79	575	122	209	49	70	8.0	3	3m
WCB-0800-030-TG2 WCB-0800-030-TG0LP2	34	109	84	610	153	263	51	78	10.0	3	3m
WCB-1000-030-TG WCB-1000-030-TGOLP	40	109	84	660	153	263	54	87	10.0	3	3m
WCB-1500-030-TG WCB-1500-030-TGOLP	41	109	84	840	225	378	59	81	10.0	5	3m
WCB-2000-030-TGOLPS*	43	161	90	1050	148	360	81	110	10.0	6	3m
WCB-2000-030-TG**	43	161	161	1050	383	383	81	110	10.0	6	3m
WCB-3000-030-TG WCB-3000-030-TGOLP	42	220	220	1200	390	390	91	135	10.0	10	3m
WCB-3500-030-TG WCB-3500-030-TGOLP	40	240	240	1200	390	390	91	135.0	10.0	12	3m

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Replacement Parts

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Description	Part Number
Ratchet gear/brake 0.5 – 1.0t Tiger chain block	WCBP-TG-RG-0050
Ratchet gear/brake 1.6 – 5.0t Tiger chain block	WCBP-TG-RG-0160
Ratchet gear/brake 3.2 – 10.0t Tiger chain block	WCBP-TG-RG-0320
Safety latch to suit 0.5t Tiger chain block	WCBP-TG-SL-0050
Safety latch to suit 1t Tiger chain block	WCBP-TG-SL-0100
Safety latch to suit 1.6t Tiger chain block	WCBP-TG-SL-0160

Description	Part Number
Safety latch to suit 2t Tiger chain block	WCBP-TG-SL-0200
Safety latch to suit 3.2t Tiger chain block	WCBP-TG-SL-0320
Safety latch to suit 5.0t Tiger chain block	WCBP-TG-SL-0500
Safety latch to suit 10.0t Tiger chain block	WCBP-TG-SL-1000
Small chain bag to suit 0.5t/1t/1.6t/3.2t Tiger chain block	WCBP-TG-SM
Large chain bag to suit 2t/3.2t Tiger chain block	WCBP-TG-LG

Subsea Chain Blocks

- DNV GL Verification tested according to NORSOK R-002
- Range from 500kg 30,000kg
 Corrosion protected load and hand chain
- Marine specific friction discs
- Double cover protection for brake chamber
- Stainless steel fixings and fasteners
- Patented Quad Cam Pawl System
- Guaranteed 2% light load protection
- -40°C to +80°C Operating temperature range
- · Can be chained to any height of lift to meet your exact requirements
- Fully corrosion protected body and components to ensure reliable long term use
- Tested and certified for fleeting, drifting and cross-hauling applications up to 45° from the vertical without deration
- Suitable for use in multi-immersion applications
- Ideal for subsea operation by divers and other corrosive environments
- Fitted with load bearing swivel hooks to meet AS1418.2
- Complies with BS EN 13157, ANSI/ASME B30.21, AS 1418.2 and SANS 1636

Complies with Bol	Complete with Bo Err 1919, Artoly Achie Boolet, Ao 1410.2 and barto 1050					
Capacity t	Lift m	Headroom mm	Mass kg	Part Number		
1.0	3.0	340	11.5	WCB-0100-030-TGSS		
1.0	6.0	340	17.2	WCB-0100-060-TGSS		
2.0	3.0	420	20.0	WCB-0200-030-TGSS		
2.0	6.0	420	27.2	WCB-0200-060-TGSS		
3.2	3.0	500	30.5	WCB-0320-030-TGSS		
5.0	3.0	575	37.5	WCB-0500-030-TGSS		
5.0	6.0	575	53.1	WCB-0500-060-TGSS		
10.0	3.0	660	64.0	WCB-1000-030-TGSS		

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Subsea Chain Blocks – ROV

- Designed for subsea lifting and (ROV) Remotely Operated Vehicle operation
- DNV GL verification tested according to NORSOK R-002
- Range from 500kg 30,000kg
- Corrosion protected load chain
- Marine specific friction discs
- Double cover protection for brake chamber
- Stainless steel fixings and fasteners
- Patented quad cam pawl system
- Guaranteed 2% light load protection
- -40°C to +80°C Operating temperature range
- Can be chained to any height of lift to meet your exact requirements
- Fully corrosion protected body and components to ensure reliable long term use
- Tested and certified for fleeting, drifting and cross-hauling applications up to 45° from the vertical without deration
- Suitable for use in multi-immersion applications
- Ideal for subsea operation by (ROV) Remotely Operated Vehicle
- Complies with BS EN 13157, ANSI/ASME B30.21, AS 1418.2 and SANS 1636

Capacity t	Lift m	Interface Type	Mass kg	Part Number
3.0	3.0	D-handle operation	53.5	WCB-0300-030-TGROVD
3.0	3.0	Hot stab	60.5	WCB-0300-030-TGROVHSC
10.0	3.0	D-handle operation	83.5	WCB-1000-030-TGROVD
10.0	3.0	Hot stab	90.5	WCB-1000-030-TGROVHSC
20.0	3.0	D-handle operation	201.0	WCB-2000-030-TGROVD



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Brake Chamber

Forged Lower Hook Assembly

Chain Blocks

- Fitted with patented non-slip knurled hook
- Can be supplied close coupled and extra close coupled to girder trolleys
- to alleviate headroom restrictions
- Designed for long term use while providing the lowest possible per use cost
- Quality caged needle bearings on load sheave and thrust bearings on bottom hook
- Hand chain length: 2m
- Complies with AS 1418.2, JIS and ISO regulations

Capacity t	Lift m	Headroom mm	Mass kg	Part Number
0.5	3.0	305	8.6	WCB-0050-030-VT
1.0	3.0	345	11.5	WCB-0100-030-VT
1.5	3.0	370	13.8	WCB-0150-030-VT
2.0	3.0	425	21.6	WCB-0200-030-VT
3.0	3.0	505	23.0	WCB-0300-030-VT
5.0	3.0	635	41.0	WCB-0500-030-VT
7.5	3.0	740	60.5	WCB-0750-030-VT
10.0	3.0	760	78.0	WCB-1000-030-VT
15.0	3.0	850	150.0	WCB-1500-030-VT
20.0	3.0	870	190.0	WCB-2000-030-VT

Available with overload limiter on request.

Custom lift & hand chain lengths available on request.

Chain Blocks – Kito M3

- Highest mechanical efficiency on the market, which helps prevent worker fatigue
- Lightweight, high capacity, heavy duty chain block
- Gear case and hand wheel cover resistant to external shocks
- Double enclosure prevents mud, dust from entering internal mechanisms
- Double pawl spring for extra reliability
- Secure and reliable mechanical brake
- Nickel plated super strength Grade 100 load chain
- Roller bearings optimise efficiency with minimal effort
- Load capacity: 500 50,000kg
- Ambient temperature: -40°C to +60°C
 Ideal for construction, engineering, infrastructure, manufacturing

Hand Chain Load Chain Capacity t Headroom mm Lift m Length m Dia x Pitch mm Mass kg **Chain Falls** Part Number WCB-0050-030-M3 0.5 360 2.5 5.0 x 1.5 WCB-0050-060-M3 0.5 1.0 1.5 2.0 2.0 3.0 5.0 5.0 7.5 7.5 360 6.0 5.0 x 1.5 WCB-0100-030-M3 410 2.5 6.3 x 19.1 11.5 178 63x191 WCB-0100-060-M3 410 WCB-0150-030-M3 470 7.1 x 21 7.1 x 21 14 5 6.0 21.9 WCB-0150-060-M3 470 WCB-0200-030-M3 500 8.0 x 24 20.0 6.0 26.9 500 WCB-0200-060-M3 8.0 x 24 WCB-0300-030-M3 540 90×27 24 0 540 3.0 9.0 x 27 WCB-0300-060-M3 660 41.0 WCB-0500-030-M3 6.0 9.0 x 27 9.0 x 27 52.0 WCB-0500-060-M3 660 3.0 WCB-0750-030-M3 840 6.0 9.0 x 27 75.4 840 9.0 x 27 WCB-0750-060-M3 10.0 WCB-1000-030-M3 850 6.0 9.0 x 27 98.8 WCB-1000-060-M3 9.0 x 27 10.0 850 3.0 4

Custom lift & hand chain lengths available on request Available with overload limiter on request

Chain Blocks – Kito CX

- Extremely lightweight, designed to fit in your toolbox
- Ultra compact, strong performance mini chain hoist
- Perfect solution for light loads in high or difficult to reach places
- Tough, die-cast aluminium housing
- Wide top and bottom hook openings for easy installation and load attachment
- Hook latch with tip supporting structure
- Completely sealed brake and gearing for added protection against damage from dust and water
- Smart body with non-protruding bolt
- Advanced design overload limiter
- Corrosion and wear resistant nickel plated load chain
- Payload: 250 1,000kg
- Ambient temperature: -40°C to +60°C

Capacity t	Headroom mm	Lift m	Hand Chain Length m	Load Chain Dia x Pitch mm	Mass kg	Chain Falls	Part Number
0.25	217	2.5	2	3.2 x 9.0	2.4	1	WCB-0025-025-CX
0.5	260	2.5	2	4.3 x 12.0	4.5	1	WCB-0050-025-CX
1.0	360	3.0	2.5	4.3 x 12.0	7.3	2	WCB-0100-030-CX





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KITO



ELECTRIC HOISTS

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Electric Chain Hoists

- Single speed model Dual speed available upon request
- Thermal protection to prevent overheating
- Fitted with an electro-magnetic, self-adjusting disc type brake to the gearbox
- IP54 Rating on all hoists and trolleys
- Complies with AS 1418.2



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Capacity t	Headroom mm	Lift m	Hoisting Speed m/min	Voltage	Mass kg	Part Number
0.25	450	3.0	5.0	240	34	WHS-EC-0025-030-14LS
0.5	450	3.0	3.6	240	34	WHS-EC-0050-030-12LS
1.0	530	3.0	2.3	240	39	WHS-EC-0100-030-1S1
2.0	645	3.0	1.1	240	51	WHS-EC-0200-030-2S1
0.25	450	3.0	10.0	415	28	WHS-EC-0025-030-14LN
0.5	450	3.0	7.2	415	31	WHS-EC-0050-030-12LN
1.0	535	3.0	7.1	415	42	WHS-EC-0100-030-1F
1.0	530	3.0	4.6	415	37	WHS-EC-0100-030-1S
2.0	660	3.0	6.8	415	80	WHS-EC-0200-030-2F
2.0	645	3.0	2.3	415	49	WHS-EC-0200-030-2S
3.0	820	3.0	4.1	415	99	WHS-EC-0300-030-3F
5.0	1020	3.0	2.8	415	121	WHS-EC-0500-030-5F

Motorised trolleys available on request.

Custom lift & control lengths available on request.

AIR HOISTS

Air Operated Chain Hoists – JDN Mini Next Gen

- Rated 800hr lifetime, double from predecessor (400hr)
- Improved safety
- Sensitive remote for precision control
- CE compliant and ATEX certification
- Complies with AS 1418.2





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Capacity t	Lift m	Speed m/min	Headroom mm	Part Number
0.125	3.0	20	370	WHS-A-0012-030-P-JDNM
0.25	3.0	10	370	WHS-A-0025-030-P-JDNM
0.5	3.0	12.5	509	WHS-A-0050-030-P-JDNM
1.0	3.0	6.3	509	WHS-A-0100-030-P-JDNM

Air Operated Chain Hoists – Flameproof – JDN Profi

- 100% Duty rating and unlimited duty cycles
- Insensitive to dust, humidity and temperatures ranging from -20°C to +70°C
- Suitable for mining, oil and gas applications
- CE Compliant and ATEX certification
- Complies with AS 1418.2



Capacity t	Lift m	Speed m/min	Headroom mm	Part Number
0.25	3.0	20	450	WHS-A-0025-030-P-JDN
0.5	3.0	11	450	WHS-A-0050-030-P-JDN
1.0	3.0	5.5	450	WHS-A-0100-030-P-JDN
1.5	3.0	4-6	480	WHS-A-0150-030-P-JDN
2.0	3.0	2.7	498	WHS-A-0200-030-P-JDN

Custom lift & control lengths available on request. Other capacities available on request.

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CLAMPS - GIRDER/BEAM

Beam Clamps

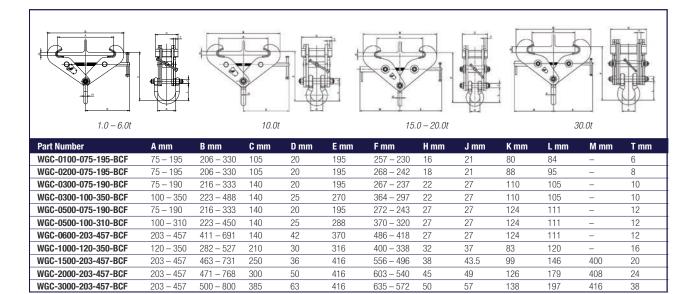
- Lightweight and low profile design to maximise headroom and versatility
- Wide adjustment range to suit all common beam sizes
- Stainless steel ID plates and rivets suitable for underground mining applications
- Test certificate and operating manual supplied with each unit
- Complies with AS 4991

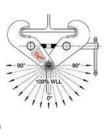
Capacity t	Beam Range mm	Headroom mm	Mass kg	Part Number
1.0	75 – 220	102 - 155	3.8	WGC-0100-075-220-BV
2.0	75 – 220	170 – 225	4.6	WGC-0200-075-220-BV
3.0	80 - 320	102 - 155	9.0	WGC-0300-080-320-BV
5.0	80 - 320	140 - 225	11.0	WGC-0500-080-320-BV
10.0	90 - 320	140 - 225	16.0	WGC-1000-090-320-BV

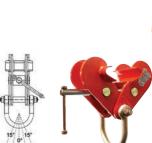
BCF Beam Clamps

- Design allows up to 90° side loading
- without any derating factorsQuick and versatile rigging point
- for hoisting equipment
- 15° Cross loading with no derating
 Large adjustment range to suit most common beam sizes
- Factor of safety: 5:1 for straight pulling and lifting, 4:1 at all other angles
- Operating temperature of -40°C to +80°C
- Ideal for pulling and lifting at angles across the beam
- Complies with AS 4991

Capacity t	Beam Range mm	Headroom mm	Mass kg	Part Number
1.0	75 – 195	230 - 257	5.5	WGC-0100-075-195-BCF
2.0	75 – 195	242 - 268	6.5	WGC-0200-075-195-BCF
3.0	75 – 190	237 - 267	9.5	WGC-0300-075-190-BCF
3.0	100 - 350	297 - 364	12.0	WGC-0300-100-350-BCF
5.0	75 – 190	243 - 272	11.0	WGC-0500-075-190-BCF
5.0	100 - 310	320 - 370	14.5	WGC-0500-100-310-BCF
6.0	203 - 457	418 - 486	29.9	WGC-0600-203-457-BCF
10.0	120 - 350	338 - 400	26.5	WGC-1000-120-350-BCF
15.0	203 - 457	496 - 556	76.0	WGC-1500-203-457-BCF
20.0	203 - 457	540 - 603	100.0	WGC-2000-203-457-BCF
30.0	203 - 457	572 - 635	152.0	WGC-3000-203-457-BCF











UNIVERSAL CLAMPS

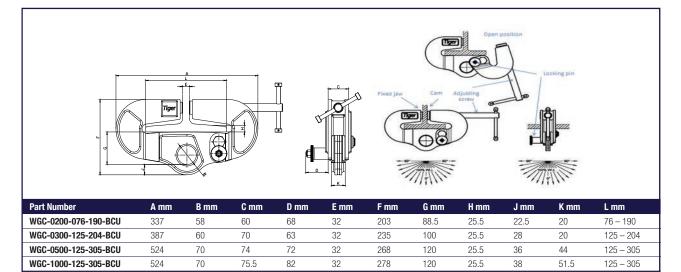
BCU Universal Clamps

- Designed for vertical and side loading applications where conventional clamps are not suitable
- Full rated capacity at any lifting angle
- Ultra low headroom design
- Designed to suit most common beam widths
- Multi-directional adjusting screw spindle ensures a high clamping force to beam web
- Highly flexible for lifting, pulling or as a semi-permanent anchor point
- Factor of safety: 5:1 for straight pulling and lifting, 4:1 at all other angles
- Operating temperature of -40°C to +80°C
- Complies with AS 4991



Bullivants

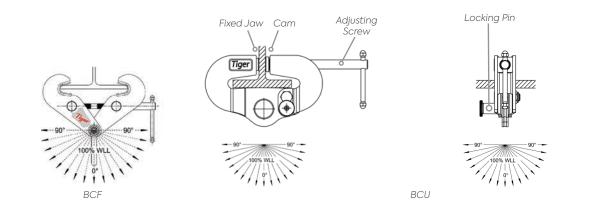
Capacity t	Beam Range mm	Headroom mm	Mass kg	Part Number
2.0	76 – 190	114.5	10.0	WGC-0200-076-190-BCU
3.0	125 - 204	135	15.5	WGC-0300-125-204-BCU
5.0	125 - 305	148	27.0	WGC-0500-125-305-BCU
10.0	125 - 305	158	31.0	WGC-1000-125-305-BCU



PRODUCT INSIGHT

Tiger BCF and BCU clamps are unique in the lifting industry by allowing loads to be suspended at up to 90 degrees from the vertical position without any reduction in Working Load Limit (WLL).

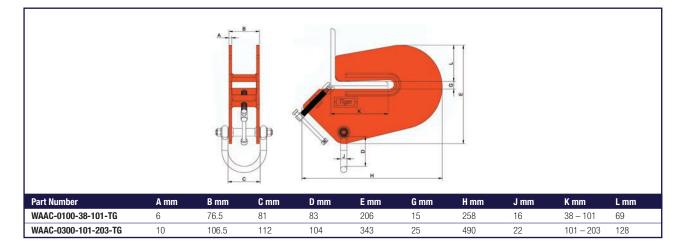
This allows much greater flexibility in use compared to typical Beam Clamps (which are designed for vertical lifting only) and makes them ideal for use with Tiger Chain Blocks that are rated for use up to 45 degrees from vertical.



BCA Universal Clamps

- Quick and versatile rigging point for hoisting equipment when attached to overhead steel angle section approved for lifting applications
- Shackle suspension point
- V shaped clamping jaws ensures safe and secure grip
- Designed to accommodate a wide range of steel angle sections
- No tools required Integrated adjusting screw spindle
- Operating temperature -40°C to +80°C (temperature range of -60°C to +80°C available as an option)
- Factor of safety: 5:1 for straight pulling and lifting, 4:1 at other angles stated
- Exceeds all requirements within AS 4991

Part Number	Mass kg	Angle Size mm	Capacity t
WAAC-0100-38-101-TG	5.5	38 - 101	1.0
WAAC-0300-101-203-TG	23.5	101 - 203	3.0



BCB Bulb Clamps

- Quick and versatile rigging point for hoisting equipment when attached to bulb flat bars approved for lifting applications
- Shackle suspension point
- No tools required Integrated adjusting screw spindle
- Operating temperature -40° C to $+80^{\circ}$ C (temperature range of -60° C to $+80^{\circ}$ C available as an option)
- \bullet Up to 45° side loading with no deration
- 15° Cross loading with no deration
- Factor of safety: 5:1 for straight pulling and lifting, 4:1 at other angles stated above



Part Number	Mass kg	Max Bulb mm	Capacity t
WBCB-0150-TG	3.6	160 - 240	1.5
WBCB-0300-TG	6.5	240 - 320	3.0

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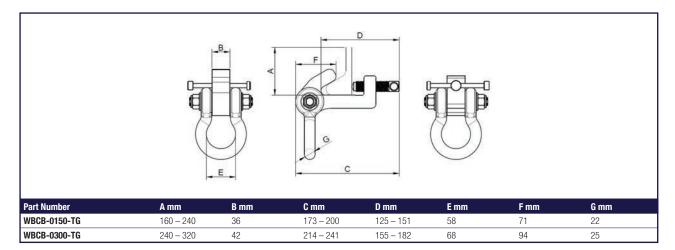
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100% WLL

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15° 0



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TROLLEYS – GIRDER/BEAM

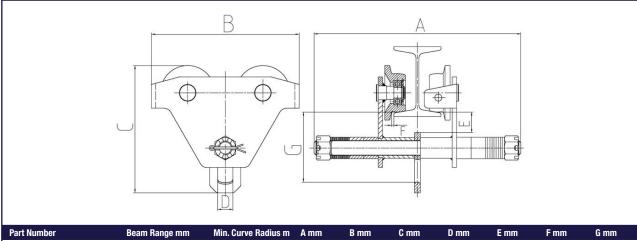
Push Trolleys

- Wide adjustment range to suit most common beam sizes
- Extra wide 10t unit available
- Lightweight and compact design
- Low profile to maximise available headroom
- Unique serial number and test certificate with each item
 Comprehensive instruction manual
- Stainless steel ID plates and rivets suitable for underground mining applications
- Ideal for use with universal beams and columns
- Complies with AS 1418.2



Bullivants

WLL t	Beam Range mm	Headroom mm	Unit Weight kg	Part Number
0.5	68 - 203	102.5	6.3	WPT-0050-068-203-BV
1.0	68 - 203	123.0	10.4	WPT-0100-068-203-BV
2.0	88 - 203	147.0	16.7	WPT-0200-088-203-BV
3.0	110 - 203	173.5	27.5	WPT-0300-110-203-BV
5.0	116 - 203	200.0	44.4	WPT-0500-116-203-BV
10.0	130 - 203	273.0	76.0	WPT-1000-130-203-BV
10.0	200 - 305	273.0	83.0	WPT-1000-200-305-BV



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WPT-0050-068-203-BV	68 - 203	0.6	336.5	212	184	22	29.5	3	102.5
WPT-0100-068-203-BV	68 - 203	0.8	356.5	248	223.5	28	30	3	123
WPT-0200-088-203-BV	88 - 203	1.0	369	293	267.5	34	30	3	147
WPT-0300-110-203-BV	110 - 203	1.4	388	350	322	42	34.5	3	173.5
WPT-0500-116-203-BV	116 - 203	1.0	405.5	382	372	46	36.5	5	200
WPT-1000-130-203-BV	130 - 203	1.2	432	467	483	72	40	5	273
WPT-1000-200-305-BV	200 - 305	1.2	432	467	483	72	40	5	273

Push Trolleys – Extension Kits

• Wider trolley pin and washers to suit

girder beams up to 305mm wide

Individually packaged with updated assembly table

• Suits only Bullivants branded push trolleys



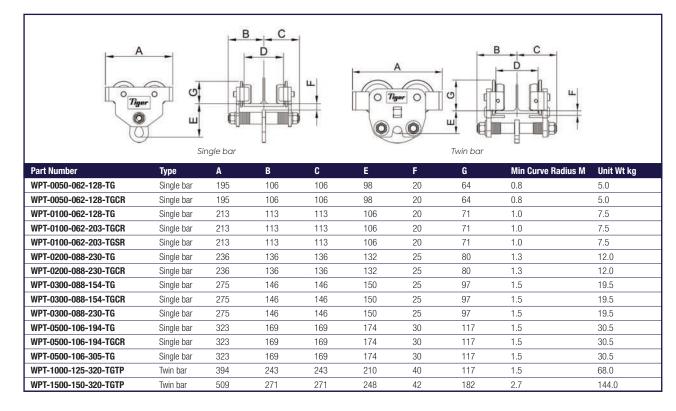
Bullivants

WLL t	Beam Range mm	Part Number
0.5	68 - 305	WETP-BVP-TK-0050
1.0	68 - 305	WETP-BVP-TK-0100
2.0	88 - 305	WETP-BVP-TK-0200
3.0	110 – 305	WETP-BVP-TK-0300
5.0	116 - 305	WETP-BVP-TK-0500

Push Trolleys

- Heavy duty trolleys ideal for use with Tiger chain blocks
- Geared trolleys also available
- Wheels supplied with sealed bearings for smooth rolling with low effort
- Wheels have convex profile to eliminate potential point loading
- Optional beam locking device
- Operating temperature of -40°C to +80°C
- Also available in corrosion resistant and ATEX compliant spark resistant versions · Ideal for use with most common sizes of universal beams and columns
- Complies with AS 1418.2

Part Number	Туре	Headroom mm	Unit Weight kg	Beam Range mm	WLL t
WPT-0050-062-128-TG	Standard	98	5.0	62 - 128	0.5
WPT-0050-062-128-TGCR	Corrosion resistant	98	5.0	62 - 128	0.5
WPT-0100-062-128-TG	Standard	106	7.5	62 - 128	1.0
WPT-0100-062-203-TGCR	Corrosion resistant	106	7.5	62 - 203	1.0
WPT-0100-062-203-TGSR	Spark resistant	106	7.5	62 - 203	1.0
WPT-0200-088-230-TG	Standard	132	12.0	88 - 230	2.0
WPT-0200-088-230-TGCR	Corrosion resistant	132	12.0	88 - 230	2.0
WPT-0300-088-154-TG	Standard	150	19.0	87 – 153	3.0
WPT-0300-088-154-TGCR	Corrosion resistant	150	19.0	87 – 153	3.0
WPT-0300-088-230-TG	Standard	150	19.0	87 – 230	3.0
WPT-0500-106-194-TG	Standard	174	30.0	106 - 194	5.0
WPT-0500-106-194-TGCR	Corrosion resistant	174	30.0	106 - 194	5.0
WPT-0500-106-305-TG	Standard	174	30.0	106 - 305	5.0
WPT-1000-125-320-TGTP	Twin pin	210	68.0	125 - 320	10.0
WPT-1500-150-320-TGTP	Twin pin	248	144.0	150 - 320	15.0



PRODUCT INSIGHT

TIGER BY BULLIVANTS PUSH TROLLEYS

- · Designed to provide smooth and easy traversing
- Wheels run on sealed ball bearings for smoother rolling with less effort and maintenance
- Anti-drop plate ensures extra safety, and prevents damage to the wheels when contacting end rail stoppers
- · Also available in corrosion resistant and spark resistant versions









HOISTING & WINCHING

PRODUCT INSIGHT

TIGER LOW HEADROOM RANGE

- Ideal for locations where headroom is limited
- Corrosion or Spark Resistant versions available
- Can be chained to any height of lift to meet your exact requirements
- Chain bags available

• Complies with AS 1418.2

Optional beam locking device





CCBTGT

	Minimum Headroom mm								
Description	0.5t	1t	2t	3t	5t	6t	8t	10t	12t
Combined Chain Block & Trolley Single Bar CCBTPS/CCBTGS	310	340	420	504	-	-	-	-	-
Combined Chain Block & Trolley Twin Bar CCBTPT/CCBTGT	-	-	-	460	545	-	-	660	-
Low Headroon Chain Block & Trolley LHCG	-	210	260	305	-	425	-	550	-
Ultra Low Headroom Chain Block & Trolley ULHCG	-	141	167	191	-	241	265	-	295

FOR MORE INFORMATION ON THE TIGER LOW HEADROOM RANGE, CONTACT YOUR LOCAL BRANCH ON **1300 LIFTING**

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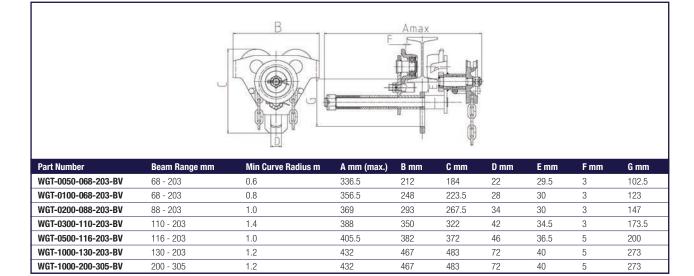
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Geared Trolleys

- Wide adjustment range to suit most common beam sizes
- Extra wide 10t unit available
- Lightweight and compact design
- Low profile to maximise available headroom
 2.5m Standard hand chain length on geared trolley
- 2.5m standard nana chain length on geared trolley
 Custom hand chain lengths available
- Unique serial number and test certificate with each item
- Comprehensive instruction manual
- Stainless steel ID plates and rivets suitable for underground mining applications
- Ideal for use with universal beams and columns
- Complies with AS 1418.2



Part Number	Unit Weight kg	Headroom mm	Beam Range mm	WLL t
WGT-0050-068-203-BV	7.4	102.5	68 - 203	0.5
WGT-0100-068-203-BV	12.0	123.0	68 - 203	1.0
WGT-0200-088-203-BV	18.0	147.0	88 - 203	2.0
WGT-0300-110-203-BV	30.0	173.5	110 - 203	3.0
WGT-0500-116-203-BV	47.0	200.0	116 - 203	5.0
WGT-1000-130-203-BV	79.0	273.0	130 - 203	10
WGT-1000-200-305-BV	86.0	273.0	200 - 305	10



PRODUCT INSIGHT

GEARED TROLLEYS

Adjustable anti-lift pin to prevent the trolley from tilting on the beam when load is applied to the hand chain

Zinc plated 5mm hand chain



Ball bearing wheels suitable for tapered flange and parallel flange beams

Washers and spacers to allow wide adjustment range to suit various standard steel sections

High visibility hanger plate

Geared Trolleys – Extension Kits

• Wider trolley pin and washers to suit girder beams up to 305mm wide

Individually packaged with updated assembly table

Suits only Bullivants branded geared trolleys

Beam Range mm	Part Number
68 - 305	WETP-BVG-TK-0050
68 - 305	WETP-BVG-TK-0100
88 - 305	WETP-BVG-TK-0200
110 - 305	WETP-BVG-TK-0300
116 – 305	WETP-BVG-TK-0500
	68 - 305 68 - 305 88 - 305 110 - 305

Bullivants

HOISTING & WINCHING

Trolley Clamps

08

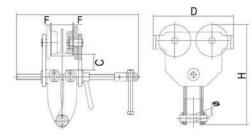
- Convenient and quick adjustment to suit most common beam sizes
- Comprehensive instruction manual supplied with each unit
- Stainless steel ID plates and rivets suitable for underground mining applications
- Unique serial number and test certificate with each unit
- Complies with AS 1418.2



Bullivants

Bullivants

Capacity t	Beam Range mm	Min. Beam Radius mm	Headroom mm	Mass kg	Part Number
1.0	64 - 203	600	196	14.7	WBT-0100-064-203-BV
2.0	76 – 203	800	200	29.4	WBT-0200-076-203-BV
3.0	76 - 203	1000	210	44.1	WBT-0300-076-203-BV
5.0	100 - 305	1400	285	61.3	WBT-0500-100-305-BV
10.0	150 - 305	1400	286	122.6	WBT-1000-150-305-BV



Part Number	Beam Range mm	C mm	D mm	H mm	Ø mm	F mm	
WBT-0100-064-203-BV	64 - 203	46	242	297	22	3	
WBT-0200-076-203-BV	76 – 203	55	281	318	22	3	
WBT-0300-076-203-BV	76 - 203	62	328	351	24	3	
WBT-0500-100-305-BV	100 - 305	71	377	455	28	5	
WBT-1000-150-305-BV	150 - 305	71	455	500	42	5	

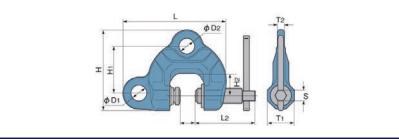
CLAMPS & GRABS

Screw Cam Clamps

- Versatile multi use clamps for a wide range of lifting and suspension applications
- Fitted with visual indicating device to confirm minimum tightening torque for safe use
- Equipped with a screw cam providing a powerful clamping force even when vibrations occur during operation • Suitable for steel hardness range 80 - 300HB
- Can be used as a hoist suspension point
- Ideal for lifting, suspension, lateral pulling and turning of steel
- Complies with AS 4991



Capacity t	Jaw Opening Max. mm	Mass kg	Part Number
0.5	00 – 25	1.9	WPC-U-0050-00-25-BV
1.0	00 - 40	3.6	WPC-U-0100-00-40-BV
2.0	00 - 40	4.8	WPC-U-0200-00-40-BV
3.2	00 - 40	7.0	WPC-U-0320-00-40-BV
6.3	00 - 50	16.0	WPC-U-0630-00-50-BV



Part Number	L mm	L2 mm	H mm	H1 mm	H2 mm	D1 mm	D2 mm	T1 mm	T2 mm	S mm
WPC-U-0050-00-25-BV	158	89	121	71.5	30	27	27	46	13	17
WPC-U-0100-00-40-BV	208	121	161	94	45	32	32	54	14	21
WPC-U-0200-00-40-BV	227	121	177	105	45	36	32	60	18	21
WPC-U-0320-00-40-BV	252	136	196	118.5	50	45	35	64	20	21
WPC-U-0630-00-50-BV	291	152	225	132	55	50	41	90	43	21

PRODUCT INSIGHT

SCREW CAM CLAMPS

Bullivants Screw Cam Clamps are multi use clamps that can be used in applications such as lifting, suspension, lateral (horizontal) pulling and turning of steel.

The inbuilt safety features make this an ideal choice for

critical applications and construction projects.

Zero Harm Features:

- Fitted with a visual indicating device to confirm minimum tightening torque is applied for safe use
- The torque sensing indicator is luminescent providing an additional safety check allowing visibility in low light conditions
- The screw design provides a continuous pretensioned clamping force during lifting operations





Non-Aligned (lines not aligned) Before tightening

Aligned (lines aligned) After tightening (correct position)

Luminescent indicators

Screw Cam Clamps – Spare Parts



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Description	Part Number
0.5t Bullivants screw cam clamp cam kit	WPCP-V-CMA-BV0.5T-00-25
1t Bullivants screw cam clamp cam kit	WPCP-V-CMA-BV1.0T-00-40
2t Bullivants screw cam clamp cam kit	WPCP-V-CMA-BV2.0T-00-40
3.2t Bullivants screw cam clamp cam kit	WPCP-V-CMA-BV3.2T-00-40
6.3t Bullivants screw cam clamp cam kit	WPCP-V-CMA-BV6.3T-00-50
0.5t Bullivants screw cam clamp handle kit	WPCP-V-HAS-BV0.5T-00-25
1t Bullivants screw cam clamp handle kit	WPCP-V-HAS-BV1.0T-00-40
2t Bullivants screw cam clamp handle kit	WPCP-V-HAS-BV2.0T-00-40
3.2t Bullivants screw cam clamp handle kit	WPCP-V-HAS-BV3.2T-00-40
6.3t Bullivants screw cam clamp handle kit	WPCP-V-HAS-BV6.3T-00-50

Universal Plate Clamps

- Equipped with pre-tension spring mechanism to **Bullivants** prevent slippage during attachment and lowering
- Able to be used up to 30° from vertical once deratings have been taken into account (refer operating manual)
- Unique serial number and test certificate with each unit
 Ideal for vertical lifting, turning and
- ruled for vertical inting, torning and transporting of steel plate
 Suitable for steel hardness up to:
- HRC30/Brinell 300
- Complies with AS 4991

Capacity t	Jaw Opening Max. mm	Mass kg	Part Number
1.0	00 - 20	5.0	WPC-U-0100-00-20-BV
2.0	00 - 25	8.0	WPC-U-0200-00-25-BV
3.2	00 - 30	15.0	WPC-U-0320-00-30-BV
5.0	00 - 50	23.0	WPC-U-0500-00-50-BV
8.0	00 - 45	37.0	WPC-U-0800-00-45-BV

SAFETY TIP

CLAMPS – DOS & DON'TS

For your safety you should ensure that you are fully aware of how to safely use clamps. Please take the time to read and understand these guidelines.

DOS

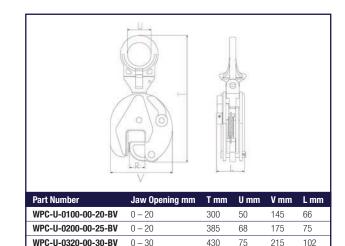
- Inspect the clamp before each lift
- Lock clamp closed before lifting the load – Follow operating and maintenance instructions
- Use correct clamps for the job – Refer to user manual for minimum lifting capacity
- Use an adequate number of clamps
 to ensure load is balanced
- Use clamps within their rated capacity
- Always use the correct clamp for the intended purpose
- Refer to user manual for safe use instructions

DON'TS

- Don't misuse clamps, never lift plate from the bottom of the plate stack
- Don't attach clamp to a large dimension crane hook, always use a sling between crane hook and clamp – Use only safety hooks and never use hooks that may release the clamp



- Don't rush the application Never lift more than one plate at a time with a vertical clamp
- Don't improvise on the clamp used Never lift horizontally with a vertical clamp
- Don't use clamps that have been overloaded
- Don't alter clamps Never grind, weld or modify the clamp in any manner. Maintenance and repairs are to be conducted in accordance with recommended procedures. Only use original spare parts to guarantee proper function of clamp



500

600

68

88

0 - 50

0 - 45

WPC-U-0500-00-50-BV

WPC-U-0800-00-45-BV

112

125

232

HOISTING & WINCHING

Horizontal Plate Clamps

• Large jaw openings for

- unrivalled flexibility • Must be used in pairs
- Unique serial number and test
- certificate with each unit
- Ideal for horizontal lifting
- and transporting of steel plates • Suitable for steel hardness
- up to: HRC30/Brinell 300
- Complies with AS 4991

Capacity t	Jaw Opening Max. mm	Mass kg	Part Number
1.5	00 - 60	6.5	WPC-H-0150-00-60-BV
3.0	00 - 60	10.0	WPC-H-0300-00-60-BV
5.0	00 - 60	15.5	WPC-H-0500-00-60-BV
10.0	00 - 60	23.0	WPC-H-1000-00-60-BV

Capacity is per pair. Clamps sold individually.

High Hardness Series Clamps

- Minimum capacity is 10% of WLL
- Ideal vertical lifting operations
- Ideal for maximum 55HRC (Hardox 400 and 500)

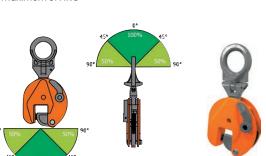


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Capacity t	Jaw Opening Max. mm	Mass kg	Part Number
0.75	00 – 13	1.8	WPC-U-0075-00-13-VUWH
1.0	00 – 25	3.8	WPC-U-0100-00-25-VEUWH
2.0	00 - 35	8.0	WPC-U-0200-00-35-VEUWH
3.0	00 - 35	8.0	WPC-U-0300-00-35-VEUWH
4.5	00 - 45	16.5	WPC-U-0450-00-45-VEUWH
6.0	00 - 50	24.0	WPC-U-0600-00-40-VEUWH
7.5	00 - 55	28.0	WPC-U-0750-00-55-VEUWH

Universal Plate Clamps

- Minimum capacity is 10% of WLL • Ideal for vertical lifting and horizontal
- to vertical lifting operations
- Ideal for maximum 37HRC



Capacity t	Jaw Opening Max. mm	Mass kg	Part Number
0.75	00 – 13	1.8	WPC-U-0075-00-13-VUW
1.0	00 – 25	3.8	WPC-U-0100-00-25-VEUW
2.0	00 – 35	8.0	WPC-U-0200-00-35-VEUW
3.0	00 – 35	8.0	WPC-U-0300-00-35-VEUW
4.5	00 - 45	16	WPC-U-0450-00-45-VEUW
6.0	00 - 50	16.5	WPC-U-0600-00-50-VEUW
7.5	00 – 55	28	WPC-U-0750-00-55-VEUW
9.0	00 – 55	29	WPC-U-0900-00-55-VUW
12.0	00 - 52	41	WPC-U-1200-00-52-VUW
15.0	00 – 76	73	WPC-U-1500-00-76-VUW
17.0	00 – 76	74	WPC-U-1700-00-76-VUW
20.0	00 - 80	160	WPC-U-2000-00-80-VUW
25.0	05 – 85	160	WPC-U-2500-05-85-VUW
30.0	10-90	167	WPC-U-3000-10-90-VUW

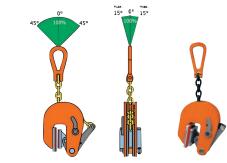
SAFETY TIP

HORIZONTAL PLATE CLAMPS

- Horizontal plate clamps must always be used in • pairs or a quantity of four (4)
- Ensure that the plate being lifted is seated fully to the rear of the clamps
- Refer to the product manual for safe use instructions

Non Marring Clamps

- No minimum WLL
- Non marking Will not damage item being lifted
 Ideal for vertical lifting operations
- Ideal for stainless steel, aluminium, wood and marble



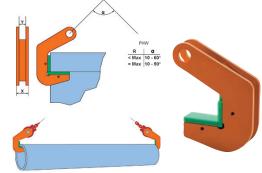
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Capacity t	Jaw Opening Max. mm	Mass kg	Part Number
0.5	00 - 20	6.0	WPC-V-0050-01-20-VNMW
1.0	00 - 30	6.5	WPC-V-0100-01-30-VNMW
1.5	00 - 40	6.5	WPC-V-0150-01-40-VNMW
2.0	00 - 50	15	WPC-V-0200-01-50-VNMW
3.0	00 - 60	15.5	WPC-V-0300-01-60-VNMW

Pipe Hooks

- Fitted with synthetic pad to minimise
- damage and marking
- Low weight with high lifting capacity
- Ideal for horizontal lifting of steel and concrete pipes



Capacity t	Jaw Opening Max. mm	Mass kg	Part Number
1.5	40	2.0	WPIH-0150-040-PHW
3.0	40	2.0	WPIH-0300-040-PHW
4.0	50	3.0	WPIH-0400-050-PHW
6.0	50	3.0	WPIH-0600-050-PHW
8.0	70	3.4	WPIH-0800-070-PHW
10.0	70	7.0	WPIH-1000-070-PHW
12.0	70	7.0	WPIH-1200-070-PHW
15.0	70	9.0	WPIH-1500-070-PHW
20.0	70	9.0	WPIH-2000-070-PHW

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Bullivants

Bullivants

by

WINCHES – AUTO BRAKE

Winches

- Compact, lightweight and heavy duty construction
- Automatic brake enables load to be held in any position
- Tiger is the original manufacturer of brake hand winches
- All enclosed mechanical components with strong steel cover for better protection • Safety ratchet gear to prevent slipping
- Electroplated gears for extra corrosion protection
- Noiseless model available, where quiet operation is required
- Operating temperature of -40°C to +80°C
- Ideal for use with wire rope or webbing strap and for a wide range of lifting and pulling applications
- · Complies with AS 1418.2, when fitted with suitable wire rope



					Powde	r Coated	Noiseless	Corrosion Resistant
Lifting Capacity kg	Pulling Capacity kg	Gear Ratio	Unit Weight kg	Cable Storage Capacity m	Without Rope	With Rope	Without Rope	Without Rope
180	370	4.1:1	3.0	36 (Ø4mm rope)	WHW-NW-0370-BHW0800TG	WHW-WW-0370-BHW0800TGR		WHW-NW-0370-BHW0800CRTG
275	550	4.1:1	3.5	23 (Ø5mm rope)	WHW-NW-0550-BHW1200TG	WHW-WW-0550-BHW1200TGR	WHW-NW-0550-BHW1200NTG	WHW-NW-0550-BHW1200CRTG
410	820	5:1	8.0	24 (Ø6mm rope)	WHW-NW-0820-BHW1800TG	WHW-WW-0820-BHW1800TGR		WHW-NW-0820-BHW1800CRTG
600	1200	10:1	10.6	18 (Ø8mm rope)	WHW-NW-1200-BHW2600TG	WHW-WW-1200-BHW2600TGR		WHW-NW-1200-BHW2600CRTG

Winches – Ratchet

- 1000kg Lifting & 2000kg pulling capacity
- Ratchet handle permits reciprocating handle movement in
- both directions for lifting and lowering loads
- Positive load-actuated brake can hold the load in any position
- Gears and brake are fully covered to prevent dust, dirt, and rain contamination
- Very low operator effort is required for easy operation, only 10kg of Hand Force at full WLL
- Ratchet handle accommodates installation in cramped locations



by

Lifting Capacity kg	Pulling Capacity kg	Gear Ratio	Unit Weight kg	Style	Capable Storage Capacity m	Finish	Part Number
1000	2000	22.2:1	17.5	Without Rope	32 (Ø8mm rope)	Powder Coated	WHW-NW-1000-SF2200TG

WINCH STRAPS & WIRE ROPES

Winch Parts

• Suits Tiger hand winch range





Description	Part Number
6.0m Strap to suit BHW0800 and BHW1200 winch	WHWP-RS-TG48
9.0m Strap to suit BHW1800 winch	WHWP-RS-TG54
9.0m Strap to suit BHW2600 winch	WHWP-RS-TG60
16m Winch rope to suit BHW2600	WHWP-WR-TIGERBHW2600
20m Winch rope to suit BHW1200	WHWP-WR-TIGERBHW1200
22m Winch rope to suit BHW1800	WHWP-WR-TIGERBHW1800
30m Winch rope to suit BHW0800	WHWP-WR-TIGERBHW0800
32m Winch rope to suit SF2200	WHWP-WR-TIGERSF2200

LIFTING BAGS

Lifting Bags • Rugged lifting bags suitable for hoisting of tools, bolts and other loose items

 Heavy duty Ripstop canvas Polyester webbing with wooden base

 Supplied with a certificate

of conformance

	WL
SWL	L 770

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Bullivants

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51cm 30cm 40cm Dia. cm Height cm Туре WLL kg Part Number WLIF-HDB-LG50HV 30 50 Open top 50 41 51 WLIF-HDB-HDBLBT55 Webbing closure WLIF-HDB-HDBLBT110 Webbing closure

MAGNETIC LIFTERS

Magnetic Lifters

80

- Versatile system for various lifting applications
- Designed for use with ferrous metals
- Easy to use operation
- Safety locking pin to prevent inadvertent release
- Test certificate and instruction manual supplied with each unit
- Ideal for use with cylindrical objects utilising V-slot and high
- hardness steels when clamps cannot be used
- Complies with AS 4991



Lifting Capacity kg	Max. Breakaway Force kg	Mass kg	Part Number
100	350	3.0	WMAG-092-0100-BV
300	1050	12.0	WMAG-166-0300-BV
600	2100	24.0	WMAG-228-0600-BV
1000	3500	43.0	WMAG-266-1000-BV
2000	7000	105.0	WMAG-394-2000-BV

Not to be used for lifting on angles, operate in horizontal manner in the centre of the load

Part Number	Capacity Steel Plate kg	Capacity	Round Steel kg	Breakaway Force kg
WMAG-092-0100-BV	100	50		350
WMAG-166-0300-BV	300	150		1050
WMAG-228-0600-BV	600	300		2100
WMAG-266-1000-BV	1000	500		3500
WMAG-394-2000-BV	2000	1000		7000
Part Number	B mm	H mm	L mm	R mm
WMAG-092-0100-BV	64	72	92	148
WMAG-166-0300-BV	99	108	166	223
WMAG-228-0600-BV	118	123	228	257
WMAG-266-1000-BV	150	158	266	303
WMAG-394-2000-BV	196	204	394	470

Magnetic Lifters – Spare Parts

• Handles to suit Bullivants magnetic lifters

Description	Part Number
Handle to suit Bullivants 0.1t	WMAGP-0010-BV8
Handle to suit Bullivants 0.3t	WMAGP-0030-BV8
Handle to suit Bullivants 0.6t	WMAGP-0060-BV8
Handle to suit Bullivants 1.0t	WMAGP-0100-BV8
Handle to suit Bullivants 2.0t	WMAGP-0200-BV8



Lifting Capacity kg	Max. Breakaway Force kg	Min. Material Thickness mm	Unit Weight kg	Part Number
100	300	2	1.7	WMAG-082-0100-TML100
250	750	2	3.5	WMAG-191-0250-TML250
500	1500	2	7.3	WMAG-265-0500-TML500
1000	3400	3	18	WMAG-403-1000-TML1000
90*	270	2	1.8	WMAG-082-0090-TML90R
400*	1200	2	8.2	WMAG-265-0400-TML400R

*Max. load bearing capacity on round pipes: 20 – 50 % of flat material subject to pipe diameter and material thickness

Bullivants

PRODUCT INSIGHT



RECOVERY & TOWING

STROPS – RECOVERY & TOWING	173
WINCHES – WIRE ROPE PULLERS	175



RECOVERY & TOWING

CATERPILLAR

CHOOSING THE RIGHT RECOVERY & TOWING STROP

Synthetic recovery or towing strops are designed to extract vehicles, plant equipment and heavy duty applications with ease and in the safest manner.

THE DEVELOPMENT OF SYNTHETIC RECOVERY STROPS

Traditional steel wire ropes or chain slings used to recover vehicles and equipment are heavy, inflexible, difficult to handle and can be high risk of injury due to recoil when they break.

Synthetic fibre ropes provide all the strength of steel with a lightweight, flexible and safer solution. Significantly reduces manpower, downtime and injury risk with the additional benefits of not corroding and in case of failure, won't dangerously recoil.

KEY COMPONENTS OF A RECOVERY STROP

8.0

- Lightweight Synthetic Fibre Rope with a high strength to weight ratio as the core (e.g. Dyneema[®], Kevlar[®])
- Minimal stretch suitable for the job type
- Outer jacket to protect the core and withstand the elements
- Eyes at both ends with heavy duty protection (known as chafe protection)

PANTHER® RECOVERY STROPS

Designed to be reliable and safe for your mining and vehicle recovery operations.

The 12-Strand high strength core is made of Dyneema® SK78 fibre, and is covered with 100% Dyneema® HMPE chafe protection to provide the appearance and ease of handling a single leg tow sling with superior abrasion resistance. At a fraction of the weight of wire, chain or Kevlar®, the Panther® strop radically reduces manpower requirements and safety hazards.

Benefits:

- Made from 100% Dyneema® SK78 (core and outer cover)
- Lightweight and ability to float on water (Nylon and Kevlar[®] strops do not)
- High abrasion resistance due to Dyneema[®] outer jacket
- Very low stretch (approx. 3%) similar to wire rope
- Absence of metal parts

- DC Gard[™] offers superior eye protection, is cut resistant and flexible, and easy to bend around tough edges
- A balanced rope construction to eliminate build up of torque to allow the rope to drop in a controlled manner in the event of failure
- Traceability features embedded into the strop with appropriate safe use instructions
- Superior UV resistance



MINIMUM LENGTH

SOFT SHACKLES

Soft shackles are a safer alternative to steel shackles when connecting to the load. Manufactured using AmSteel® - Blue Dyneema® SK78 single braid rope ensure less chafe damage on the wear points with its superior abrasive resistance.

These are an ideal solution for safe recovery and towing operations with significant reduction in weight (up to 75%) compared to Wire Rope or Chain.

BENEFITS:

- Lightweight for quick, easy attachment and detachment
- High strength
- Superior flex fatigue and wear resistance
- Will not corrode or rust
- Floats and remains visible on water surfaces
- Reduced risk of manual handling injuries

Note: Soft shackles are not to be used for lifting applications.

SOFT VS STEEL SHACKLES

BULLIVANTS CODE	RATED CAPACITY	MINIMUM SHACKLE LENGTH	SOFT SHACKLE WEIGHT	COMPARISON	STEEL SHACKLE WEIGHT
WU1S-0739-022-ASLP	73t	380mm	1.5kg	VS	18.85kg
WU1S-1480-030-ASB1L	148t	720mm	4.1kg	VS	29.1kg

NYLON RECOVERY STROPS

Are suited to snatch type recovery applications where nylon straps, nylon ropes and other high stretch snatch type recovery strops are used.

Benefits:

- Smooth stretch of up to 20% to assist recovery
- Load bearing fibres are encased in a rubber coating which protects them from the elements
- Mud, oil, water and dust proof
- High strength to weight ratio
- Australian Standard 1138 thimbles embedded into the eyes

KEVLAR® STROPS

Are designed for recovery and towing of mining, heavy commercial, and military vehicles and plant. They can be used as a substitute for heavy and unwieldy chains and wire rope recovery equipment.

Benefits:

- Kevlar[®] load fibres offer 4% very low stretch
- High strength to weight ratio
- Specially designed steel eyes suit attachment to shackle pins and hitch pins
- Break strength is clearly marked on each Kevlar[®] Recovery Strop

Bullivants also supplies Kevlar[®] and Nylon Strops for different applications where Panther[®] Recovery strops may not be suitable.

HOW TO CHOOSE THE RIGHT RECOVERY STROP?

- Determine the load being pulled with the appropriate safety factor using the Recovery Risk Process Plan
- Length must be appropriate so that the strop is not loose during the recovery (i.e. there is no snatching taking place)

RECOVERY RISK PROCESS PLAN

- Eyes must be appropriate for the connecting points
- Traceability marks and all manufacturing details, minimum breaking force should be present



WHY INSPECTION IS IMPORTANT

- Any damage that penetrates the outer cover must result in the strop being removed from service and returned for inspection and repair
- Worn eyes and wear marks should be monitored and pre-emptive inspection and repairs be performed

SEVERITY TRACTION LOSS

Light or Slippery

Wheels of the vehicle remain substantially on the surface of the ground and are unable to gain traction due to slippery or greasy conditions.

Medium

Wheels of the vehicle are unable to gain traction and have dug in to the ground to about 33% of the wheel diameter.

Severely

Wheels of the vehicle are unable to gain traction and have buried themselves up to the axles.

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STROPS – RECOVERY & TOWING

Panther[®] Recovery Sling

- Dyneema® SK78/Dyneema® (Core/Cover) fibre
- Class II Core-Dependent Double Braid
- Abrasion resistant and durable Dyneema® fibre jacket
- Heavy duty and abrasion resistant DC Gard
- \cdot 100% UV stabilised with operating temperature range (-60° to 150°C)
- Floats and remains visible on water surfaces Will not sink in
- muddy conditions (specific gravity 0.92)
- Soft Eye allows greater flexibility and versatility





Bullivants

Average Strength* t	Min. Strength* t	Overall Length m	Unit Weight kg	Max. Dia. mm	Nominal Eye Size mm	Part Number
20	18	0.69	0.70	33	152	WSU1-040-200-0006-EE-DS
20	18	3.00	1.70	27	305	WSU1-040-200-030-EE-DS
20	18	6.00	2.90	27	305	WSU1-040-200-060-EE-DS
20	18	10.00	4.60	27	305	WSU1-040-200-100-EE-DS
30	27	1.60	1.40	43	305	WSU1-047-300-016-EE-DS
30	27	6.00	3.80	35	305	WSU1-047-300-060-EE-DS
30	27	10.00	6.10	35	305	WSU1-047-300-100-EE-DS
55	49	0.50	1.36	52	152	WSU1-058-550-0005-EE-DS
55	49	0.80	1.40	52	152	WSU1-058-550-0008-EE-DS
55	49	1.00	1.60	52	305	WSU1-058-550-010-EE-DS
55	49	2.50	2.90	44	305	WSU1-058-550-025-EE-DS
55	49	6.00	5.90	44	305	WSU1-058-550-060-EE-DS
115	104	6.00	11.60	63	457	WSU1-081-115-060-EE-DS
115	104	10.00	18.60	63	457	WSU1-081-115-100-EE-DS
200	180	10.00	33.50	84	457	WSU1-104-200-010-EE-DS
200	180	15.00	47.10	84	457	WSU1-104-200-015-EE-DS
300	283	10.00	51.80	111	457	WSU1-125-300-010-EE-DS
300	283	15.00	75.50	111	457	WSU1-125-300-015-EE-DS

*Panther® lengths/strengths listed in the table above are standard product offerings Additional sizes available upon request

Other lengths may require additional lead time

Link-It+ Soft Shackle

Bullivants

- Lightweight allows items to be handled without machinery
- High strength
- Superior flex fatigue and wear resistance
- Shorter connection lengths
- Single loop
- Will not corrode or rust
- Less chafe damage on wear points • Floats and remains visible on water surfaces - Will not sink in muddy
- conditions (specific gravity 0.98) • Full chafe protection

Overall Shackle

Capacity t	Length mm	No. Loops	Mass kg	Part Number
9	150	1	0.05	WU1S-0090-006-ASLP
13.2	180	1	0.09	WU1S-0132-008-ASLP
20	230	1	0.14	WU1S-0200-010-ASLP
23.1	255	1	0.18	WU1S-0231-011-ASLP
28.9	280	1	0.27	WU1S-0289-012-ASLP
35.2	305	1	0.36	WU1S-0352-014-ASLP
57	430	1	0.91	WU1S-0570-018-ASLP
65	455	1	1.2	WU1S-0650-020-ASLP
73.9	485	1	1.5	WU1S-0739-022-ASLP
93	560	1	1.9	WU1S-0930-024-ASLP
114	585	1	2.5	WU1S-1140-026-ASLP
172	760	1	5.6	WU1S-1720-034-ASLP
239	940	1	10.8	WU1S-2390-042-ASLP
379	1270	1	23.0	WU1S-3790-056-ASLP
441	1457	1	38.5	WU1S-4410-064-ASLP

Conformance certificates provided

Capacity based on breaking strength Not to be used for lifting

Other sizes available on request

PRODUCT INSIGHT

SOFT SHACKLES

- Ideal connection point when connected with Panther® Recovery Strop
- · Lightweight with no steel components to eliminate recoil and minimise potential risk of injury
- Can be used as a direct replacement for heavy steel shackle connections

Link-It Soft Shackle

- Lightweight allows items to be handled without machinery
- High strength
- Superior flex fatigue and wear resistance
- Shorter connection lengths
- Will not corrode or rust
- Less chafe damage on wear points
- Floats and remains visible on water surfaces - Will not sink in muddy conditions (specific gravity 0.98)



Capacity t	Overall Shackle Length mm	No. Loops	Mass kg	Part Number
28.9	280	1	0.27	WU1S-0289-012-ASB1L
73.8	485	1	1.5	WU1S-0738-022-ASB1L
147	500	2	2.4	WU1S-1470-022-ASB2L
148	710	1	4.1	WU1S-1480-030-ASB1L
261	600	2	5.1	WU1S-2610-028-ASB2L
359	800	2	8.3	WU1S-3590-034-ASB2L
407	1400	1	34.8	WU1S-4070-060-ASB1L
422	900	2	16.0	WU1S-4220-042-ASB2L
554	1100	2	23.2	WU1S-5540-048-ASB2L

Capacity based on breaking strength Not to be used for lifting









RECOVERY & TOWING

Tow & Recovery Strops

Bullivants

- Heavy duty polyester outer casing for extra resistance to damage
 Fach diag supplied with text setting and
- Each sling supplied with test certificate
 Suitable for recovery and towing operations
- Not to be used for lifting applications

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Breaking Load t	Length m	Part Number
3.5	3.0	WRS-005-030-E-P
7	3.0	WRS-010-030-E-P
14	2.0	WRS-020-020-E-P
14	3.0	WRS-020-030-E-P
14	6.0	WRS-020-060-E-P
35	10.0	WRS-050-100-E-P
35	20.0	WRS-050-200-E-P
56	0.5	WRS-080-005-E-P
56	1.0	WRS-080-010-E-P
70	0.5	WRS-100-005-E-P
70	0.6	WRS-100-006-E-P
70	0.85	WRS-100-0085-E-P
70	1.0	WRS-100-010-E-P
70	2.0	WRS-100-020-E-P
70	3.0	WRS-100-030-E-P
70	4.0	WRS-100-040-E-P
70	6.0	WRS-100-060-E-P
70	10.0	WRS-100-100-E-P
140	1.5	WRS-200-015-E-P
140	2.0	WRS-200-020-E-P
140	2.5	WRS-200-025-E-P
140	3.0	WRS-200-030-E-P
140	4.0	WRS-200-040-E-P
140	5.0	WRS-200-050-E-P
140	6.0	WRS-200-060-E-P

DID YOU KNOW

Bullivants manufactures a wide range of Recovery strops using Amsteel®-Blue 12-Strand Dyneema® rope. These can be made to order in specific lengths and diameters (up to 88mm) with a minimum breaking load of up to 990 tonnes.



Black Snake™ Nylon Recovery Strops

- Fibre (core/cover): Nylon 6.6 core with rubber casing
- Galvanised thimble eyelets
- High stretch (Up to 20%) suitable for snatch type recovery
- Unique serial number for traceability
- Suitable for mining and vehicle recovery operations



Breaking Load t	Length m	Part Number
8	6.0	WRCS-008-060-R/FAST
12	10.0	WRCS-012-100-R/FAST
12	15.0	WRCS-012-150-R/FAST

Black Snake[™] Kevlar[®] Recovery Strops

- Fibre (core/cover): Kevlar®
- with cut proof rubber casing
- Construction: Parallel lay configuration
- Lightweight, high strength, low elongation and low recoil recovery tow strop
- Galvanised steel eyelets at both ends to fit different connections
- Suitable for mining and vehicle recovery operations



Breaking Load t	Length m	Part Number
10	2.0	WRCS-010-020-R/FASTK
10	5.0	WRCS-010-050-R/FASTK
10	6.0	WRCS-010-060-R/FASTK
10	10.0	WRCS-010-100-R/FASTK
20	6.0	WRCS-020-060-R/FASTK
30	1.6	WRCS-030-016-R/FASTK
50	0.3	WRCS-050-003-R/FASTK
50	6.0	WRCS-050-060-R/FASTK
70	6.0	WRCS-070-060-R/FASTK
70	10.0	WRCS-070-100-R/FASTK
100	3.0	WRCS-100-030-R/FASTK
100	6.0	WRCS-100-060-R/FASTK
100	10.0	WRCS-100-100-R/FASTK
150	3.0	WRCS-150-030-R/FASTK
150	6.0	WRCS-150-060-R/FASTK
150	10.0	WRCS-150-100-R/FASTK
200	3.0	WRCS-200-030-R/FASTK
200	6.0	WRCS-200-060-R/FASTK
200	10.0	WRCS-200-100-R/FASTK
300	10.0	WRCS-300-100-R/FASTKBB
300	15.0	WRCS-300-150-R/FASTKBB

300t Strops suitable for use with bulldozer rippers

		Bogged Vehicles G.V.W. Recovery/Towed (tonnes)			Towing on Inclined Roadways G.V.W. Recovery/Towed (tonnes)		
Breaking Recovery Strop Strength Dimensions (tonnes) mm							
	Light Bogged or Slippery	Medium Bogged	Severely Bogged	Slope 10-1 Grade 10% Inclined 6°	Slope 6-1 Grade 16% Inclined 9.5°	Slope 4-1 Grade 25% Inclined 14	
50	56	100	50	35	200	130	80
50	56	100	50	35	200	130	80
50	56	100	50	35	200	130	80
50	56	100	50	35	200	130	80
50	56	60	30	20	120	80	50
100	80	200	100	70	400	250	170
150	80	300	150	100	600	380	250
150	80	300	150	100	600	380	250
200	80	400	200	140	800	500	340
200	80	400	200	140	800	500	340
300	90	600	300	200	1200	750	500
300	90	600	300	200	1200	750	500
300	90	600	300	200	1200	750	500
300	90	600	300	200	1200	750	500

Not to be used for lifting purposes G.V.W. = Gross Vehicle Weight

Bullivants

09

WINCHES - WIRE ROPE PULLERS

Wire Rope Pullers are versatile winches that are typically used for pulling and light vehicle recovery operations.

Puller Winches are hand powered by operating a push/pull handle arrangement that pulls the rope through the winch body.

A key advantage of puller winches over traditional winches is the wire rope length is unlimited due to the winch travelling along the rope.

Suitable for light vehicle recovery, power utilities industry and construction for pulling structures together applications.

Wire Rope Pullers – Steel Body

- Can be used at any angle
- Unrestricted by wire rope length
- Steel case construction for strength and able to be used
- underground with suitable wire rope
- Ideal for lifting, pulling and loweringSupplied standard with 20m of wire rope
- Complies with AS 1418.2
- Complies with AS 1418.2



Lifting Capacity kg	Rope Dia. mm	Length m	Stroke mm	Weight kg	Part Number
800	8	20	696	16.4	WLW-WW-0800-45726S
1600	11	20	706	28.5	WLW-WW-1600-561030S
3200	16	20	711	53.5	WLW-WW-3200-681235S

Wire Rope Pullers – Aluminium Body

• Aluminium high efficient design to minimise manual effort

- Supplied standard with 20m of wire rope
- Stainless steel ID plates and rivets
- Complies with AS 1418.2



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Lifting Capacity kg	Rope Dia. mm	Weight kg	Part Number
800	8.3	12.6	WLW-WW-0800-BV
1600	11	24.5	WLW-WW-1600-BV
3200	16	44.0	WLW-WW-3200-BV



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LOAD RESTRAINT

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CHOOSING THE RIGHT LOAD RESTRAINT

When securing loads in your day-to-day business you need a solution that makes your work safe & simple.

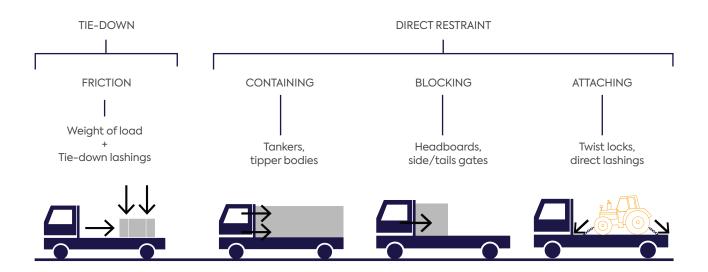
The Bullivants range of Load Restraint products include webbing assemblies, chains and accessories to ensure all of your application requirements are covered.

To ensure reliability, durability and compliance, all webbing material and components are tested and marked with all requirements as specified by Australian Standards.

Loads can be restrained by two basic methods: Tie-Down or Direct Restraints.

These methods cover the controlling load movement of friction, containing, blocking and attaching.

RESTRAINT METHODS



FIBRE IDENTIFICATION COLOUR CODING CHART

Type of Rope Fibre	Colour of Identifying Yarn		
Polyester (PES)	Blue		
Polyethylene (PE) staple	Orange		
Polypropylene (PP)	Brown		

DIRECT RESTRAINT

Direct Restraint methods are used generally for **Containing, Blocking** and **Attaching** loads on machinery like excavators, bobcats, graders, dozers and mining vehicles. This method can be used for most loads and is particularly useful for loads that are difficult to tie-down.

Attaching

A load can be directly restrained without relying on friction and is ideal for slippery loads and loads on wheels.

LASHING	3 CAPACITY FOR TRANSP	ORT KITS	LASHING CAPACI	TY FOR WEBBING STRAPS
Chain Type*	With Claw Hooks *With 'Non-Winged' or 'Winged' Grab Grab Hooks or Edge		Lashing	Lashing Capacity (LC
Chain Type	Hooks	Contact	25mm Webbing	0.25t
6mm Grade 70	2.3t	1.7t	35mm Webbing	1.0t
8mm Grade 70	3.8t	3.0t	50mm Webbing	2.5t
10mm Grade 70	6.0t	4.5t	75mm Webbing	5.0t
13mm Grade 70	9.0t	6.7t		

*Different hooks have different lashing capacities. Chains that pass over sharp edges such as coaming rails have reduced lashing capacity.

Blocking

The Blocking method is used to block the load from moving forwards, backwards or sideways by using a headboard and side/tail gate, provided they are designed to withstand the load force.

Containing

A contained load is where the load is restrained against horizontal movement by the vehicle structure or by other parts of the load. For heavy loads, contained means the load is simultaneously fully blocked forwards, rearwards and sidewards.

When selecting the right Load Restraint you should check the following to ensure you're using the correct product for your application:

- What is the weight of your load?
- Is the load blocked or unblocked?
- What is the amount of friction between the surfaces of your load and the vehicle deck?
- Required lashing capacity for the mode of use and the load to be secured

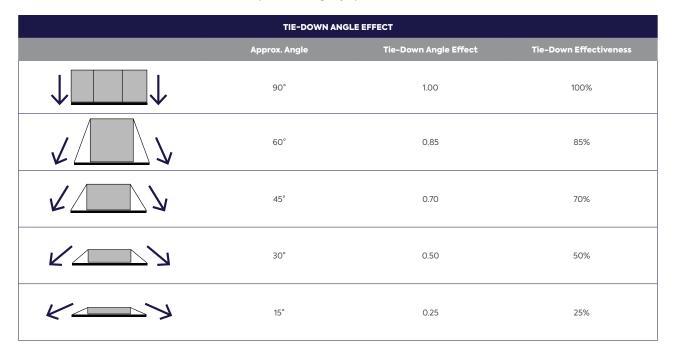
- Restraints are strong enough to suit your load
- Ensure you are using enough lashings of sufficient capacity if using the tie down restraint method
- Fitted tags provide information to ensure the product is suitable for the load being secured

A minimum amount of force of a restraint system must be able to withstand in each direction to ensure stability of the load and vehicle under expected driving conditions.

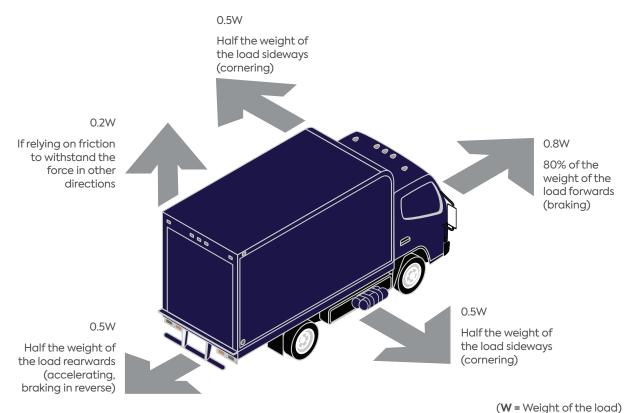
LOAD RESTRAINT

TIE-DOWN RESTRAINTS

Tie-Down Restraints use friction to hold a load, which stops the load from moving forwards, sideways or backwards. To maintain the friction force during transportation the load must be tensioned correctly and always remain in contact with the vehicle. The tension applied to the load is impacted by the angle at which the lashing is applied. When the tie-down lashings are at an angle, the force applied down on the load is reduced. The clamping force is very small when the lashing is near horizontal and more lashings may be required. For example, a single strap at 90 degrees is equivalent to four straps at 15 degrees. The type of surface the load sits on may also impact the tension. A slippery surface provides less friction, however rubber or other friction surfaces can reduce required lashings by up to 50%.



HEAVY VEHICLE MINIMUM FORCE:



10

RESTRAINT TYPES

Bullivants distributes a range of load restraint products that are compliant with Australian Standards and comprises the following categories:

Polyester Webbing Assemblies

Webbing, end fittings and tensioners. These products include ratchet assemblies and slide on or clip on truck winches.

Chains

These are typically fitted with grab hooks on each end and are tensioned with various types of ratchet or lever operated load binders. Not recommended for loads that can settle or crush during transportation.

Wire Rope

Can be used to tie down loads with rope tensioned by winches or turnbuckles.

WHY INSPECTION IS IMPORTANT

AS/NZS 4380 mandates that lashings must be replaced if they are weakened by 10% or more of their original strength. All restraint equipment must be inspected regularly and if the components are cracked, broken or worn they must not be used for restraining loads and must be discarded.

CARE & USE

- Never overload the lashing and always ensure the lashing is evenly loaded
- Ensure lashing is not twisted or knotted when in use
- Always inspect your lashing equipment prior to use for wear and damage
- Protect the lashing from sharp edges and use protective sleeves (for webbing) and corner protection when required
- Refer to safe use guide/instructions as supplied with all Bullivants load restraint rigging



CARGO RESTRAINTS

Ratchet Tie-Down

- Versatile load restraints for diverse applications
- Suitable for use in the transport industry
 Complies with AS/NZS 4380





Bullivants









Hook & Keeper – 2,500kg

Hook & Keeper – 5,000kg

Description	Lashing Capacity kg	Length m	Webbing Width mm	Part Number
Cambuckle with S-Hooks each end	250	3	25	WCA-025-0250-030-SH
S-Hooks each end	250	4	25	WRA-025-0250-040-SH
S-Hooks each end	400	4	25	WRA-025-0400-040-SH
S-Hooks each end	500	6	50	WRA-050-0500-060-SH
S-Hooks each end	600	1.6	36	WRA-036-0600-016-SH
S-Hooks each end	600	6	36	WRA-036-0600-060-SH
J-Hooks each end	250	4	25	WRA-025-0250-040-JH
J-Hooks each end	2500	9	50	WRA-050-2500-090-JH
Double J-Hooks each end	1000	6	35	WRA-035-1000-060-DJH
Double J-Hooks each end	2000	9	50	WRA-050-2000-090-JH
Endless type	500	1.8	25	WRA-025-0500-018-EL
Endless type	500	4	25	WRA-025-0500-040-EL
Endless type	700	4	25	WRA-025-0700-040-EL
Endless type	400	5	25	WRA-025-0400-050-EL
Endless type	2000	2.2	36	WRA-036-2000-022-EL
Hook & keeper each end	1000	6	36	WRA-036-1000-060-HK
Hook & keeper each end	2000	4	50	WRA-050-2000-040-HK
Hook & keeper each end	2500	6	50	WRA-050-2500-060-HK
Hook & keeper each end	2500	9	50	WRA-050-2500-090-HK
Hook & keeper each end	5000	9	75	WRA-075-5000-090-HK
Reverse ratchet with hook & keeper	2500	9	50	WRA-050-2500-090-RHK

Replacement Load Strap

• Replacement webbing strap

- Hook and keeper
- Complies with AS/NZS 4380



WRLS-050-2500-090-HK

Description Lashing Capacity kg		Length m	Webbing Width mm	Part Number
Replacement load strap – Hook & keeper	2500	9	50	WRLS-050-2500-090-HK
Replacement load strap – Hook & keeper	5000	9	75	WRLS-075-5000-090-HK

10

Truck Winch

- Versatile load restraints for diverse applications
- Suitable for use in the transport industry
- Complies with AS/NZ 4380





10

Description	Lashing Capacity kg	Length m	Webbing Width mm	Part Number
Clip-on with strap – Hook & keeper	2500	9	50	WTW-C-2500-90-HK
Slide-on with strap – Hook & keeper	2500	9	50	WTW-RS-2500-90-HK
Clip-on with no strap	2500	_	-	WTW-C-2500-NOST
Slide-on with no strap	2500	-	-	WTW-S-2500-NOST
Replacement strap – Keeper one end and stitched turnback other end	2500	9	50	WRLS-050-2500-090-HS

CHAIN ASSEMBLIES

Load Binder Kits

- Manufactured from Grade 70 gold passivated chain
- Complete with winged grab hook end fittings
- Suitable for use in the transport industry
- Complies with AS/NZS 4344
- Not suitable for lifting applications



Bullivants

Chain Size mm	Length m	Lashing Capacity kg	Part Number
8	6	3800	WCTP-080D-006-GRAB
8	9	3800	WCTP-080D-009-GRAB
10	6	6000	WCTP-100D-006-GRAB
10	9	6000	WCTP-100D-009-GRAB

Bullivants

Transport Chain - Grade 70

- Specifically designed and tested for strength and durability, to suit the rigorous requirements of the transport industry
- Proof tested and marked with the relevant identification, and shows appropriate lashing capacities to enable
- selection of size and number of chains required to suit load • Suitable for truck winches
- Not suitable for lifting applications
- Complies with AS/NZS 4344



Chain Size mm Lashing Capacity kg Part Number WCTP-060D 6 WCTP-080D 3800 10 13 WCTP-100D WCTP-130D 9000

Grab Hooks - Grade 70

- To be used with Grade 70 chain only
- Winged type grab hook
- Suitable for use in transport industry, for load
- binder chains, drag chains and general
- tie-down applications
- Not suitable for lifting applications
- Complies with AS/NZS 4344



Bullivants

Chain Size mm	Lashing Capacity kg	Part Number
6	2300	WHCG-060-W
8	3800	WHCG-080-W
10	6000	WHCG-100-W
13	9000	WHCG-130-W

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LOAD RESTRAINT

LOAD BINDERS

10

Load Binders – Ratchet - Grade 70

- Grab hook end fitting
- Easy to use with reduced recoil and risk of injury during tensioning
- To be used with Grade 70 transport chain · Suitable for use in transport industry, for load binder chains and general tie-down applications
- Not suitable for industrial lifting purposes
- Complies with AS/NZS 4344



Bullivants

Maxibinder Ausbinder

- Ergonomically designed
- Safer, quicker and easier to use
- High pre-tensioning force
- Suitable for use in the transport industry
- Complies with AS/NZS 4344



Chain Size mm	Lashing Capacity kg	Part Number
6	2300	WLDB-060-R-GH-AS
8	3800	WLDB-080-R-GH-AS
10	6000	WLDB-100-R-GH-AS
13	9000	WLDB-130-R-GH-AS

Load Binders – Ratchet - Grade 100

- Grab hook end fitting
- Easy to use with reduced recoil and
- risk of injury during tensioning
- For use with Grade 100 chain
- Finish: White powder coat
- Ideal for tensioning and general
- tie-down applications
- Complies with EN 12195.3



Bullivants

Chain Size mm	Lashing Capacity kg	Part Number
10	8000	WLDB-100-R-GH-G100
13	13400	WLDB-130-R-GH-G100

Ghain Size min	Lashing Gapacity Kg	Part Number
6	2300	WLDB-060-L-GH-G70-M
8	3800	WAUSB-080-L-SH-AS
10	6000	WAUSB-100-L-GH-AS

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Load Binders – Lever - Grade 70

• Grab hook end fitting

ain Cina n

- To be used with Grade 70 transport chain
- Suitable for use in transport industry,
- for load binder chains and general
- tie-down applications
- Not suitable for industrial
- lifting purposes • Complies with AS/NZS 4344



Chain Size mm	Lashing Capacity kg	Part Number
6	2300	WLDB-060-L-GH-AS-W
8	3800	WLDB-080-L-GH-AS
10	6000	WLDB-100-L-GH-AS
13	9000	WLDB-130-L-GH-AS

SAFETY TIP

LOAD BINDER - DOS & DON'TS

DOS

- · Secure the tensioned load binder handle by wrapping the loose end of the chain around the handle and tensioned chain
- · Ensure Load binders are tight before moving and re-check frequently as loads will settle and may decrease tension · Always apply load binders in a straight line without bending, so that the handle goes down when securing the load.
- Avoid kinks and tangles in chain
- Release handle with caution KEEP CLEAR Load binders can snap back. Use open palm under the handle and push upwards
- · If load binder has defects, remove equipment immediately from service, clearly marking to indicate rejection

DON'TS

- Do not operate the lever binder while you or someone else is standing on the load
- Do not exceed the lashing capacity nominated on the handle for the appropriate size. Use only with chain complying with AS/NZS 4344 (Grade 70) and EN12195-3 (Grade 100)
- Do not use any handle extension (cheater bar or pipe) to tension or release Hand tighten only
- · Do not discard supplied instructions. Keep and share with others who may be using this load binder
- · Chain and components used to form a restraint system should be of the same size and capacity. The rating of the system should be the lowest component lashing capacity. Chain or components should not be used in a manner that will exceed the lashing capacity recommendation.

Bullivants

SAFEGUARD

CARGO NETS

Cargo Net – Load Rated

- UV stabilised polyester webbing and mesh
- Anti tangle design
- Multiple anchor points
- Nets load rated up to 1000kg
- Perfect for utes, trucks, trailers and more



Description	Min. Tray Size m	Mesh Dimensions m	Dimensions m	Eyelets	Straps	Tabs	Capacity SWL kg	Part Number
Cargo Net Small	1.0 x 0.6	1.6 x 1.2	1.8 x 1.4	72	6	10	1000	WCN-SE-010-SSN200
Cargo Net Medium	1.6 x 1.2	2.4 x 1.8	2.6 x 2.0	96	6	18	1000	WCN-SE-010-MSN200
Cargo Net Dualcab	1.2 x 1.2	2.2 x 2.2	2.4 x 2.4	104	6	12	1000	WCN-SE-010-DSN200
Cargo Net Large	1.6 x 1.2	2.8 x 2.4	3.0 x 2.6	112	6	28	1000	WCN-SE-010-LSN200
Cargo Net XL	2.4 x 1.0	3.4 x 2.8	3.6 x 3.0	144	8	40	1000	WCN-SE-010-XSN200
Cargo Net XXL	3.2 x 2.0	4.2 x 3.0	4.4 x 3.2	160	10	36	1000	WCN-SE-010-XXSN200
Cargo Net XXXL	4.0 x 1.6	5.4 x 3.0	5.6 x 3.2	184	10	48	1000	WCN-SE-010-XXXSN200
Tarp Dualcab	1.2 x 1.2	2.2 x 2.2	2.4 x 2.4	104	6	12	1000	WCN-SE-010-SDT600
Tarp Large 1.0T	1.6 x 1.2	2.8 x 2.4	3.0 x 2.6	112	6	28	1000	WCN-SE-010-SLT600

Cargo Straps





SAFEGUARD

Cargo Strap Hook & Keeper

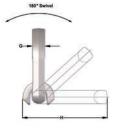
Description	Dimensions m	Capacity SWL kg	Part Number
Cargo Strap S Hook Pk2	0.38 x 1.0	600	WCN-S-004-SSH100
Cargo Strap S Hook Pk2	0.38 x 0.7	600	WCN-S-004-SSH70
Cargo Strap Hook & Keeper Pk2	0.38 x 1.0	600	WCN-S-004-SHK100

LASHING POINTS

Weld-on Load Rings – Grade 100

- Multi-directional loading
- Forged from fully tested and certified steel
- Ideal for lifting and lashing
- Welding must always be carried out by a qualified
- welder under AS/NZS 1554.1
- Complies with AS 3776







Bullivants

ØA mm	B mm	C mm	D mm	E mm	Fmm	G mm	Hmm	Lashing Capacity kg	Part Number
40	82	34	68	28	14	14	92	5000	WRL-0250-NS-T-BUL
53	104	46	90	33	18	18	116	8000	WRL-0400-NS-T-BUL
68	138	60	116	45	23	23	155	13400	WRL-0670-NS-T-BUL
-	40 53	40 82 53 104	40 82 34 53 104 46 60 40 40	40 82 34 68 53 104 46 90 20 402 46 90	40 82 34 68 28 53 104 46 90 33	40 82 34 68 28 14 53 104 46 90 33 18 68 140 140 150 100 100	40 82 34 68 28 14 14 53 104 46 90 33 18 18 68 26 140 35 10 16 16	40 82 34 68 28 14 14 92 53 104 46 90 33 18 18 116 68 26 440 33 18 18 116	40 82 34 68 28 14 14 92 5000 53 104 46 90 33 18 18 116 8000 60 400 45 90 33 18 16 8000

Larger sizes available upon request

PRODUCT INSIGHT

BULLIVANTS WELD-ON LOAD RINGS – GRADE 100

- Manufactured in Australia using Australian steel
- White powder coat for high visibility
- Supplied with full welding instructions
- Weld-on lifting points must be positioned to avoid side loading
- Material to which the weld-on lifting point will be attached to must be of adequate strength



FABRICATED LIFTING EQUIPMENT

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FORKLIFT ATTACHMENTS	196



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CHOOSING THE RIGHT FABRICATED LIFTING & MATERIALS HANDLING EQUIPMENT

The Bullivants extensive range of lifting & materials handling equipment consists of a wide variety of specialty items to keep your workshop, warehouse & on-site operations performing safely & effectively.

Bullivants' range of fabricated lifting and materials handling equipment is designed to keep your staff safe by eliminating the risk of manual handling injuries. Handling products in the correct manner also results in increased profitability by reducing the opportunity for damaged goods during movement and storage.

All lifting and materials handling equipment supplied by Bullivants is designed, fabricated and certified in accordance with Australian Standards.

Range includes the following key product categories:

- Spreader beams
- Combination beams
- Lifting beams
- Lifting cages
- Forklift attachments
- Personnel cages
- · Gas cylinder handling
- Various lifting hooks and clamps

CHOOSING THE RIGHT SPREADER OR LIFTING BEAM

Extendable Combination Lifting & Spreader Beams

Bullivants' combination beams are the perfect addition to your rigging arsenal. The combination of both lifting and spreader configuration provide a versatile solution to your rigging needs. When used as a spreader beam our combination beams offer greater working load limits and when used as a lifting beam they minimise headroom issues albeit at a reduced working load limit.

Modular Spreader Beams

Bullivants' modular spreader beam range extends from 2 tonnes up to 400 tonnes Working Load Limit. Each beam assembly consists of two end units, two drop links and a set of interchangeable struts to allow the length of the spreader beam to be changed to suit each application. For the shortest length, two end units can be bolted together directly. Components are carried in stock at strategic locations resulting in quick turnaround time. This also eliminates the need for third party design and engineering provided the Modulift beams are assembled in accordance with the manufacture load and span charts.

There's ZERO HARM in thinking about SAFETY





SPREADER BEAMS

Bullivants' spreader beams provide versatility by being adjustable in length (telescopic) allowing the beams to be used for a wide range of lifting operations. Spreader beams are lighter in weight and more cost effective than combination beams at the cost of overall versatility. Bullivants manufactures tested lifting and rigging assemblies and components. These can be supplied as a package to ensure that when all of your equipment arrives on-site it is certified and ready for use. A variety of surface finishes to suit your needs and applications can also be supplied including galvanised for offshore applications.

MATERIALS HANDLING EQUIPMENT

To increase personnel safety and productivity, a wide variety of fabricated equipment is kept in stock to handle your items. The range includes forklift attachments, gas cylinder handling, elevated working platforms, pipe handling solutions, a wide variety of lifting cages and rail handling clamps all the way up to heavy lifting equipment.

If you require a custom solution, Bullivants can design, fabricate, and certify bespoke lifting equipment to suit your particular application.

Other services that can be provided include reverse engineering, and third-party design verifications.

When you choose Bullivants as your Engineered Product Specialist you can be assured that you are getting a SAFE and HIGH QUALITY product. Our Standard Engineered Product range is:

- 1. Australian made This means that the materials used to fabricate Bullivants' standard Engineered Product range are of high quality and manufactured locally, supporting Australian jobs.
- 2. Backed by knowledge We have our own product specialists at each of our branches, located across Australia, dedicated to providing the utmost level of customer service.
- 3. In stock We are committed to providing our customers with a timely and efficient supply chain. Stock is held in our branch locations and also centrally with our manufacturers ready to ship.
- 4. Compliant to Australian Standards Not only is Bullivants' Engineered Product range made in accordance with stringent Australian Standards but your local branch can have the item added to your register before it gets to your worksite. This eliminates the gap between supply of the item and the first inspection of the item by utilising the Bullivants' new BEAM 2.0 System (Bullivants Electronic Asset Management). Ask your local branch for more details.

CARE & USE

All materials handling equipment must have identification with traceability back to the manufacturer in accordance with Australian Standards requirements. It is important to visually inspect all lifting and structural components and associated lifting equipment prior to use to ensure that they are free from damage and fit for use.

- Always check the condition of the item or load to be lifted
- Always know the weight of the load and work within the capacity of your forklift or crane when performing lifting operations
- Remember that the tare weight of the lifting equipment will increase the load on the forklift or crane being used
- Never modify any fabricated lifting equipment
- Ensure that any personnel using lifting equipment are properly trained and competent

All equipment must be inspected by a competent person in accordance with the Australian Standards.

FABRICATED LIFTING EQUIPMENT

MODULIFT

Modulift Spreader Beams are adjustable in length, and every spreader consists of 1 pair of End Units & Drop Links, with intermediate struts that can be bolted into the assembly to achieve different spans.



BENEFITS

MODULIFT BEAMS ARE:

Interchangeable	Modular configuration and interchangeable components enable Modulift spreader beams to be used over many lifts	
	Mix and match end units with struts when long spans and lightweight lifts are required	
Economical	Beams can be used over and over again for many years	
Portable	Maximum strut length is 6 metres – Small enough for regular road transport	
1 *= h.k *= h.k	Many of the Modulift components can be handled safely by one person	
Lightweight	The QJ2 comes with a handy carrying case with shackles	
Compliance	Conforming with all international standards including AS 4991	
DNV Type Approval	DNV type approved up to 1,500t eliminating the need for costly proof loading	

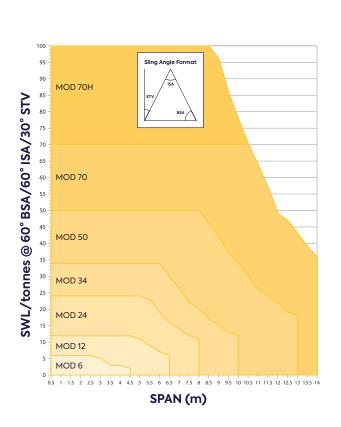


LOAD VS SPAN AT A GLANCE

STANDAR	STANDARD RANGE	
QJ2 Up to 2t at 1.2m	MOD 34 Up to 34t at 6m Up to 10m at a lower capacity	MOD 110 Up to 110t at 14m Up to 18m at a lower capacity
MOD 6 Up to 6t at 3.6m Up to 4.5m at a lower capacity	MOD 50 Up to 50t at 8m Up to 13m at a lower capacity	MOD 250 Up to 250t at 14m Up to 21m at a lower capacity
MOD 12 Up to 12t at 4.75m Up to 6.5m at a lower capacity	MOD 70 Up to 70t at 10.5m Up to 14m at a lower capacity	MOD 400 Up to 400t at 17m Up to 24m at a lower capacity
MOD 24 Up to 24t at 5m Up to 8m at a lower capacity		

STANDARD RANGE

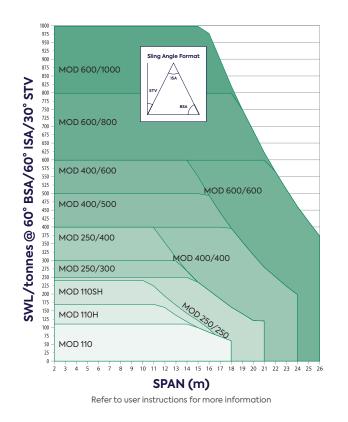
Load Vs Span Chart – Modulift Spreader Beam Standard Range

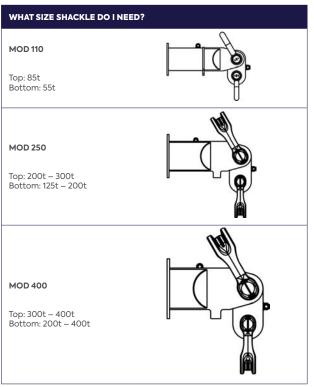


WHAT SIZE SHACKLE DO I NEED?	
MOD 6 Top: 4.75t Bottom: 3.25t	
MOD 12 Top: 8.5t Bottom: 6.5t	
MOD 24 Top: 17t Bottom: 12t	
MOD 34 Top: 25t Bottom: 17t	
MOD 50 Top: 35t Bottom: 25t	
MOD 70 Top: 55t Bottom: 35t	

HEAVY DUTY RANGE

Load Vs Span Chart – Modulift Spreader Beam Heavy Duty Range





FABRICATED LIFTING EQUIPMENT

SPREADER BEAMS

QJ2

- WLL: 2t at maximum 1.2m
- Adjustable in increments of 100mm
- Supplied in handy carry case
- Lightweight: Less than 8kg
- Suitable for utility industry
- Ideal for general lifting
- Complies with AS 4991



Modulift

Modulift

Moduli

Description	Unit Weight kg	Part Number
QJ2 full kit	7.8	\$1544002002

MOD 6

- Minimum length: 0.4m
- Maximum length: 4.5m
- WLL: 6t to 4t depending on length
- Requires 2 x 4.7t and 2 x 3.2t safety bow shackles
- Shackles sold separately
- Complies with AS 4991



Description	Unit Weight kg	Part Number
1.0m Strut	8.1	S1544006001
0.6m Strut	5.4	S1544006002
0.3m Strut	3.4	S1544006003
0.2m Strut	2.7	S1544006004
0.1m Strut	2.0	S1544006005
End unit (each)	3.0	S1544006006
Drop link (each)	0.6	S1544006007

MOD 12

- Minimum length: 0.5m
- Maximum length: 6.5m
- WLL: 12t to 6t depending on length
- Requires 2 x 8.5t and 2 x 6.5t safety bow shackles
- Shackles sold separately

Complies with AS 4991

Description	Unit Weight kg	Part Number
1.5m Strut	19	S1544012001
1.0m Strut	14	S1544012002
0.75m Strut	11	S1544012003
0.5m Strut	8	S1544012004
0.25m Strut	6	S1544012005
End unit (each)	6	S1544012006
Drop link (each)	1.3	S1544012007

MOD 24

- Minimum length: 1.0m
- Maximum length: 8.0m
- WLL: 24t to 11t depending on length
- Requires 2 x 17t and 2 x 12t safety bow shackles
- Shackles supplied separately

• (Comp	olies	with	n AS	4991
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Description	Unit Weight kg	Part Number
2.0m Strut	41	S1544024001
1.0m Strut	24	S1544024002
0.5m Strut	16	S1544024003
End unit (each)	17	S1544024004
Drop link (each)	5	S1544024005

MOD 34

- Minimum length: 1.0m
- Maximum length: 10.0m
- WLL: 34t to 12t depending on length
- Requires 2 x 25t and 2 x 17t safety bow shackles
- Shackles supplied separately
- Complies with AS 4991

Description	Unit Weight kg	Part Number
2.0m Strut	51	S1544034001
1.0m Strut	31	\$1544034002
0.5m Strut	20	S1544034003
End unit (each)	23	S1544034004
Drop link (each)	7	S1544034005

MOD 50 & CMOD 50

- Minimum length: 1m
- Maximum length: 13m
- WLL: 50t to 18t depending on length
- Requires 2 x 35t and 2 x 25t safety bow shackles
- Shackles sold separately
- Complies with AS 4991



Description	Unit Weight kg	Part Number
4.0m Strut	140	S1544050001
2.0m Strut	82	S1544050002
1.0m Strut	53	S1544050003
0.5m Strut	38	S1544050004
End unit (each)	38	S1544050005
Drop link (each)	11	S1544050006
CMOD50 Corner unit	90	S1544050009

MOD 70 & CMOD 70

- Minimum length: 1.0m
- Maximum length: 14.0m
- WLL: 70t to 36t depending on length
- Requires 2 x 55t and 2 x 35t safety bow shackles
- Shackles supplied separately
- Complies with AS 4991



Modulift



CMOD 70

Description	Unit Weight kg	Part Number
4.0m Strut	240	S1544070001
2.0m Strut	136	S1544070002
1.0m Strut	85	S1544070003
0.5m Strut	61	S1544070004
End unit (each)	56	S1544070005
Drop link (each)	17	S1544070006
70H End unit (50t WLL)	58	S1544070007
70H Drop link (50t WLL)	32	S1544070008
CMOD70 Corner unit	145	S1544070010

MOD 110

- Minimum length: 2.0m
- Maximum length: 18.0m
- WLL: 110t to 60t depending on length
- Requires 2 x 85t and 2 x 55t safety bow shackles

Shackles sold separately

• Complies with AS 4991

Description	Unit Weight kg	Part Number
4.0m Strut	367	S1544110001
2.0m Strut	212	\$1544110002
1.0m Strut	134	S1544110003
0.5m Strut	96	\$1544110004
End unit (each)	178	S1544110005
Drop link (each)	45	\$1544110006
110H End unit (85t WLL)	178	\$1544110007
110H Drop link (85t WLL)	55	S1544110008



Modulift

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MOD 250

- Minimum length: 2.0m
- Maximum length: 21.0m
- WLL: 250t to 106t depending on length
- Requires 2 x 200t and 2 x 125t sling saver bow shackles
 Shackles sold separately
- Snackies sola separate
 Complies with AS 4991

Complies with AS 4351		
Description	Unit Weight kg	Part Number
6.0m Strut	860	S1544250001
3.0m Strut	495	S1544250003
2.0m Strut	375	S1544250004
1.0m Strut	255	S1544250005
0.5m Strut	192	S1544250006
End unit (each)	365	S1544250007
Drop link (each)	90	S1544250008
250/300 End unit (150t WLL)	365	S1544250009
250/300 Drop link (150t WLL)	90	S1544250011

Modulift[®]

Modulift

MOD 400

- Minimum length: 2.0m
- Maximum length: 24.0m
- WLL: 400t to 198t depending on length
- Requires 2 x 300t and 2 x 200t sling saver bow shackles
- Shackles sold separately
- Complies with AS 4991

Description	Unit Weight kg	Part Number
6.0m Strut	1365	S1544400001
3.0m Strut	785	S1544400003
2.0m Strut	590	S1544400004
1.0m Strut	395	S1544400005
0.5m Strut	286	S1544400013
End unit (each)	490	S1544400006
Drop link (each)	150	S1544400007
400/600 End unit (300t WLL)	610	S1544400008
400/600 Drop link (300t WLL)	150	S1544400009
400/250 Cone adaptor	300	S1544400010
400/110 Cone adaptor	180	S1544400011

FABRICATED PRODUCTS

Combination Beams

- Combination lifting and spreader beam in one unit
- Telescopic construction for outstanding versatility
- Powder coated safety yellow
- Supplied with NATA certification
- Complies with AS 4991



WLL Spreader Beam	WLL Lifting Beam	Adjustment Range m	Unit Weight kg	Part Number
8.6t@2.1m - 6.6t@3.6m	1.3t@2.1m - 0.8t@3.6m	2.1 - 3.6	70	\$15040113
15.0t@2.29m - 3.1m	3.1t@2.29m - 2.0t@3.49m	2.29 - 3.49	132	S15040114
30.0t@4m – 6m	6.0t@4m - 4.0t@6m	4.0 - 6.0	450	S1504311
50.0t@4m – 6m	6.5t@4m - 4.5t@6m	4.0 - 6.0	530	S1504350
A delition of sizes and some or si	ting available on reavant			

Additional sizes and capacities available on request

Spreader Beams

- Telescopic construction for outstanding versatility
- Powder coated safety yellow
- Supplied with NATA certification
- Complies with AS 4991



WLL Spreader Beam	Adjustment Range m	Unit Weight kg	Part Number
5.2t@2.1m - 5.0t@3.6m	2.1m - 2.6m & 3.1m - 3.6m	37	S1523034
5.0t@1.2m - 1.95m	1.2m – 1.45m & 1.7m – 1.95m	22	S1523035

RELATED PRODUCT

CHOOSING THE RIGHT SHACKLES FOR YOUR MODULIFT SPREADER BEAM?

Recommended shackles depending on the Spreader Beam size:

- MOD 6 to MOD 110H Safety Pin Bow Shackle
- MOD 310 MOD Holl Salety Fill Bow Shackle
- MOD 250 and Greater Sling Shackles (Wide Body)



For all your shackle needs please contact your nearest branch for more information on:

1300 LIFTING

SEE LOAD RATED SHACKLES ON PAGE 72 OF LIFTING & RIGGING COMPONENTS CHAPTER

Bullivants

FABRICATED LIFTING EQUIPMENT

Lifting Cages

11

- All fitted with lifting pointsSupplied with NATA certification
- Powder coated safety yellow • Complies with AS 4991

Bullivants



S1537007-4

S1537009

S15370112

WLL t	L x W x H mm	Description	Fork Pocket Size mm	Fork Pocket Centres mm	Unit Weight kg	Part Number
0.50	1200 x 900 x700	Cargo cage with castors	_	_	130	\$153700222
0.50	500 x 500 x 500	Mesh sides/Plate floor	162 x 57	296	27	S1537005-2
0.75	760 x 760 x 760	Mesh sides/Plate floor	160 x 55	482	77	S1537005-4
1.00	1012 x 1012 x 1000	Mesh sides/Plate floor	160 x 60	570	115	S1537005-6
1.00	1000 x 1000 x 1000	Fitted with half height gate	160 x 60	568	130	S15370056
1.00	1200 x 1200 x 1200	Fitted with half height gate	160 x 60	660	170	S15370161
0.75	762 x 762 x 750	Mesh sides with 1 drop side	160x55	482	88	S1537007-4
1.00	1370 x 1370 x 1250	Mesh sides with 1 door	-	-	190	S1537009
1.00	1000 x 1000 x 1000	Dropside basket with spring latch retainers	160 x 55	570	130	S15370097
0.75	900 x 600 x600	Mesh sides/Plate floor	160 x 60	470	70	\$15370112
2.00	1375 x 1375 x 1260	Pallet cage with mesh sides and 1 door	160 x 66	660	230	S15370164

Out Of Service Box

- Out of Service box for quarantine of equipment
- Powder coated white
- Lockable top and side access compartments
- Fitted with lifting points and forklift pockets
- Suitable for indoor use



Bullivants

WLL t	L x W x H mm	Description	Fork Pocket Size mm	Fork Pocket Centres mm	Unit Weight kg	Part Number
0.5	850 x 850 x 1100	Out of service box	160 x 60	420	159	S15370010A

Rail Clamps

- Supplied with NATA certification
- Powder coated safety yellow
- Suits AS68 rail
- Complies with AS 4991



S1543049

Bullivants

Capacity t	Jaw Opening Max. mm	Туре	Unit Weight kg	Part Number
1.5	80	Standard	7.5	\$1530201
3.0	25	With rollers	30	S1543041
5.0	36	With rollers	43	S1543049

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Bullivants

Drum Lifting Frame

- Powder coated safety yellow
- Ideal for vertical handling of drums
- Supplied with NATA certification
- Complies with AS 4991



WLL kg	Capacity	Drum Size H	Unit Weight kg	Part Number
700	1 x Drum	200	53	S1531020
1000	2 x Drum	200	102	\$1531022

Pallet Lifting Fork

- Adjustable lifting eye with seven positions
- Load equalising plate
- Ideal for pallet handling where a forklift cannot be used
- Supplied with NATA certification
- Complies with AS 4991



Bullivants

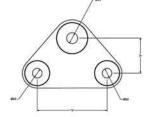


Bullivants

WL		yne Size L x / x H mm	Tyne Centres mm	Unit Weight kg	Part Number
2.0) 1	035 x 150 x 50	720	130	S1538011

Equaliser Plates

- Supplied with NATA certification
- Powder coated safety yellow
- Load equalising plate
- Complies with AS 4991





Capacity t	A mm	B mm	C mm	D mm	D1 mm	D2 mm	Unit Weight kg	Part Number
35	400	200	64	56	63	55	47	S1543027
55	300	150	64	52	75	60	70	S1543028
85	500	250	114	100	90	75	131	S1543033
120	600	250	100	100	160	150	182	S1543029

Other sizes available on request

Aluminium Conveyor Lifting Beams

• Powder coated safety yellow

- · Ideal for conveyor belt handling
- Complies with AS 4991



WLL t	Length m	Unit Weight kg	Part Number
1.0	1.24	5.2	S15040096
1.0	1.64	9.3	S15040095
1.0	1.84	10.3	S15040097

Steel Conveyor Lifting Beams

- Powder coated safety yellow
- Ideal for conveyor belt handling
- Complies with AS 4991



Bullivants

WLL t	Length m	Unit Weight kg	Part Number
1.0	1.14	2.7	S1504037
1.0	1.24	2.9	S1504038
1.0	1.44	10.5	S1504039
1.0	1.54	3.5	S1504040
1.0	1.64	17.6	S1504041
1.0	1.84	19.6	S1504042
1.0	2.04	6.2	S1504043

Pit Cover Lifting Tool

- Powder coated safety yellow
- · Ideal for concrete pit lid lifting
- Complies with AS 4991



Bullivants



Bullivants

WLL kg	Part Number
230	S1543095

Mesh Hooks

- Powder coated safety yellow
- Ideal for lifting and loading
- reinforcing mesh
- Complies with AS 4991

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WLL t	Part Number
2.5	S1543284

FABRICATED LIFTING EQUIPMENT

Lifting Frames

11

Bullivants

- Powder coated safety yellow
- Supplied with NATA certification
- Complies with AS 4991





S1505003

S1505005

WLL t	Unit Weight kg	L x W x H mm	Туре	Part Number
2.0	20	1200 x 1200	Pallet lifting frame	S1505003
2.0	22/Pair	1370 x 70	Pallet lifting bars	WBL-018
2.0	40	8000 - 1100	2t Ext bulka bag frame	S1505005
1.0	30	1000 x 1000	1t Std bulka bag frame	S1505010

Toggle Type Pipe Lifters

- Powder coated safety yellow
- Supplied with NATA certification
- Ideal for concrete pipe lifting
- Complies with AS 4991

Bulli	vants



WLL t	Unit Weight kg	Size	Part Number
2.0	5.5	Attached to 1.2m alloy chain assembly	WCS-08-1-012-PIPE

Personnel Baskets

- Powder coated safety yellow
- Fitted with lanyard attachment point
- Ideal for lifting personnel by crane
- Supplied with NATA certification
- Complies with AS 1418.17





_S1	5	3	7	0	8	
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Unit Weight kg	Capacity	Description	Part Number
246	1 x Person	Circular	S1537111
160	1 x Person	Square	S1537051
206	2 x Persons	Rectangular	S1537081
	246 160	246 1 x Person 160 1 x Person	2461 x PersonCircular1601 x PersonSquare

GAS CYLINDER HANDLING

Gas Cylinder Lifting Frame

- Powder coated safety yellow
- · Ideal for lifting of gas cylinders • Complies with AS 4991

Bullivants



WLL kg	Unit Weight kg	Capacity	Part Number
200	35	1 x G size Oxy & 1 x G size Acetylene cylinders	S1537121
400	61	2 x G size Oxy & 2 x G size Acetylene cylinders	S1537121A

Gas Trolleys

- Powder coated safety yellow
- Ideal for handling and lifting
- of gas cylinders • Complies with AS 4991

Unit



S1537124

S1537126

Bullivants

Bullivants

WLL kg	Weight kg	Tyre Type	Capacity	Part Number
100	60	Pneumatic	1 x D size Oxy & Acetylene or LPG	S1537121B
200	76	Pneumatic	1 x G size Oxy & Acetylene or LPG	S1537122
150	60	Pneumatic	1 x E size Oxy & Acetylene or LPG	S1537122A
200	76	Solid rubber	1 x G size Oxy & Acetylene or LPG	S1537124
200	86	Pneumatic	1 x G size Oxy & S size LPG	S1537125
200	76	Pneumatic	2 x G size Oxy	S1537126

FORKLIFT ATTACHMENTS

Work Platform

- High mesh back guard
- Inward opening door
- Lanyard attachment point
- Toe boards on all sides
- Full length fork pockets
- Skid resistant floor
- Inside handrails all around
- Fitted with safety chains and castors for ground handling
- Yellow powder coat finish
- Ideal for two people
- Ideal for order picking, maintenance/ repair work and stores handling
- Designed in accordance with AS2359.1

WLL kg	Fork Pocket Size mm	Fork Pocket Centres mm	Unit Weight kg	Part Number
250	160 x 62	630	135	WBL-019



Forklift Boom

- Simple to fit and use and easily adjustable
- Powder coated safety yellow
- Fitted with safety chains and swivel hook
- Tested and certified
- Ideal for extendable forklift boom
- Complies with AS 2359.1



Max. WLL t	Position/Length	Fork Pocket Size mm	Fork Pocket Centres mm	Fork Pocket Length mm	Unit Weight kg	Part Number
2.00	1.3m (2t) 1.5m (1.6t) 1.7m (1.3t) 1.9m (0.9t)	161 x 60	172	930	48	S1539030
4.50	0.4m (4.5t) 1.1m (3.5t) 1.4m (2.5t) 1.8m (1.7t) 2.1m (1.2t)	225 x 69	410	959	120	S1539080
5.00	0.4m (5t) 1.1m (3.5t) 1.4m (2.5t) 1.7m (1.7t) 2.1m (1.2t)	225 x 69	410	959	120	S1539082

Lifting Attachment

- Simple to fit and use
- Powder coated safety yellow
- Fitted with safety chains and
- swivel sling hook
- Tested and certified
- Single point forklift attachment
- Complies with AS 2359.1



Bullivants

WLL t	Fork Pocket Size mm	Fork Pocket Centres mm	Unit Weight kg	Part Number
2	142 x 66	352	20	S1539040
3	142 x 66	452	22	S1539050

Forklift Slippers

- Tapered slim profile is made from fully fabricated plate sections
- Hot dip galvanised finish
- Compliance plate and serial number attached
- Complies with AS 2359.15

Drum Handling

- Simple to fit and use
- Powder coated safety yellowFitted with safety chains
- Fitted with safe
 Drum tripper
- Tested and certified
- Complies with AS 2359.1

ies with AS 2359.1

Bullivants

S1539095

WLL kg	Fork Pocket Size mm	Fork Pocket Centres mm	Unit Weight kg	Application	Part Number
500	142 x 66	812	69	Drum tipping	S1539095
700	142 x 66	438	70	Drum lifting	S1539100

Bullivants



WLL t	Length m	Pocket Size Outside mm	Pocket Size Inside mm	HCoG mm	VCoG mm	Unit Weight kg (per pair)	Part Number
3	1.6	152 x 76	142 x 54	644	42	46	WFLS-1600-3000-BMP003
3	1.8	152 x 76	142 x 54	740	42.5	53	WFLS-1800-3000-BMP003
3	2.1	152 x 76	142 x 54	888	43	63	WFLS-2100-3000-BMP003
3	2.4	152 x 76	142 x 54	1053	43.5	73	WFLS-2400-3000-BMP003
5	1.6	180 x 75	168 x 54	741	43.5	70	WFLS-1600-5000-BMP003
5	1.8	180 x 75	168 x 54	838.5	44	80	WFLS-1800-5000-BMP003
5	2.1	180 x 75	168 x 54	987	44.5	90	WFLS-2100-5000-BMP003
5	2.4	180 x 75	168 x 54	1131.5	45	100	WFLS-2400-5000-BMP003
8	1.6	200 x 100	182 x 70	770	57	125	WFLS-1800-8000-BMP003
8	1.8	200 x 100	182 x 70	901	56	148	WFLS-2100-8000-BMP003
8	2.1	200 x 100	182 x 70	1046	55.5	171	WFLS-2400-8000-BMP003
8	2.4	200 x 100	182 x 70	1340	55	218	WFLS-3000-8000-BMP003

In accordance with AS 2359.15 Forklift Slippers for general use should be no longer than 167% of the supporting forklift tyne length. If the slippers are longer than this, then their use shall be restricted to their specified application.

FALL PROTECTION

& ROOFERS KITS	204	RESCUE & ESCAPE KITS	218
FALL ARRESTORS & LIFELINES	211	CONFINED SPACE	219
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CHOOSING THE RIGHT FALL PROTECTION

Keeping you safe while working at heights

RISK ASSESSMENT PROGRAM

Before undertaking any work at height and confined space entry, it is always a good idea to develop a risk assessment.

The following relevant fall protection Australian/New Zealand standards may be used as a reference, and are recommended reading.

AS/NZS 1891.1	Manufacturing requirements for full body combination and lower body harness	AS 1657	Fixed ladders, walkways, stairways and ladders – Design, construction and installation	
AS/NZS 1891.2	Horizontal lifeline and rail systems	AS/NZS 1892.1	Portable ladders – Metal	
AS 1891.2	Supplement 1: Prescribed configuration for horizontal lifelines	AS/NZS 1892.2	Portable ladders – Timber	
		AS/NZS 1892.3	Portable ladders – Reinforced plastic	
AS/NZS 1891.3	Fall arrest devices	AS/NZS 1892.4	Portable ladders – Selection, use and	
AS/NZS 1891.4	Selection, use and maintenance of industrial fall arrest systems/devices		care	
AS/NZS 1891.5		Access Equipme	ent:	
A5/ NZ5 1891.5	Personal equipment for work at heights	AS/NZS 1418.10	Mobile elevated work platforms	
AS/NZS 2865	Confined Spaces	AS 2550.10	Safe Use - Mobile elevating work	
AS/NZS 4488	Industrial rope access systems		platforms, called Cranes, hoists and winches	

Also refer to the relevant Codes of Practice relating to fall protection, confined spaces, managing the risk of falls at workplaces and preventing falls in housing construction published by the respective government workplace authorities e.g. Workcover and Worksafe.

There's ZERO HARM in thinking about SAFETY





HEIGHT SAFETY TERMINOLOGY

Fall Protection

• Is the use of controls designed to protect personnel from falling, or in the event they do fall, to stop them without causing severe injury

Fall Prevention

- Systems and techniques that eliminate the possibility
 of a fall to a lower level
- Most desirable method of fall prevention is to engineer out or modify the work plan to eliminate the hazard

Fall Arrest Systems

- Protect the worker after a fall from hitting the ground and/or obstructions below the work platform
- Passive systems require little or no personal involvement from the worker

- Active systems require the worker to actively use the system in order for it to be effective
- It is not always practical, cost effective or possible to employ passive systems, in such cases, a Personal Fall Arrest System (PFAS) is required

Personal Fall Arrest Systems (PFAS)

 Active fall protection methods that require the participation of the worker

Fall Restraint Technique

 Used in conjunction with fall arrest systems, adjustable or retractable lanyards to prevent access to potential fall edges

Rescue

 Refers to the ability to retrieve or rescue an individual from confined spaces or heights and must always be a component of any fall protection program

UNDERSTANDING FALL PROTECTION APPLICATIONS

Fall Arrest

- Typically used to protect workers Steel erection, general construction, elevated maintenance and suspended platform work
- For safety, fall arrest systems are designed to limit the maximum arresting forces to 6kN or less

Work Positioning

• Hold and sustain the worker at a specific work location, limiting any free fall to 600mm or less, such as ladder, tower and pole work applications

Restraint

• Prevent the worker from reaching an area where a free fall could occur, such as in leading edge roof work

Suspension

- Supports and holds the worker without any possibility of a free fall while the worker is being raised or lowered
- Typical applications are confined space entry/exit and bosun's chair, such as painting or window washing

Rescue

- Designed to raise or lower the worker to safety in an emergency without any possibility of a free fall
- Typically used in confined space work or anywhere where a worker may fall or become incapacitated

FALL PROTECTIO

THE ABCD OF FALL PROTECTION

The A,B,C,D of Fall Protection covers the fundamental requirements of every personal fall protection system. Use it as a guide when evaluating your fall protection requirements, however, always consult a fall protection specialist if you're unsure of any aspect of fall protection or fall protection equipment.

Anchorage

Anchorage devices provide a secure point of attachment (to an existing structure) for the fall arrest system. Anchorage devices can be permanent or temporary and vary to suit the types of structure available.



Connector

Connectors are devices that connect the full body harness to the anchorage system. They can be single products or multiple devices working together.



Body Support

Full body harnesses connect the worker to the fall arrest system. They are specially designed to protect the worker against serious injury in the event of a fall whilst also remaining comfortable to wear.

Descent/Rescue

Descent & Rescue systems enable the retrieval of an injured or incapacitated worker. In the event of a rescue, this equipment facilitates rapid recovery of the worker without endangering other workers in the process.



CALCULATING FALL CLEARANCE

- When setting up and using a personal fall arrest system, fall clearance is a critical issue
- Should a fall occur, there must be sufficient clearance below the user to arrest the fall before the user strikes the ground or any other object
- The user of the equipment must determine if the system will arrest the fall within the available clearance
- · Some factors that affect the determination include anchorage location, type and length of connecting system (lanyard, self retracting lifelines, rope grab), deceleration distance (the elongation of the decelerating device when deployed), worker height and movement of harness attachment element

FALL CLEARANCE CALCULATION CHARTS

To determine the required fall clearance add the appropriate factors together, this will give you the safe required distance (RD) below the working surface for work which is to be carried out where there is any risk of falling.

Shock Absorbing Lanvard

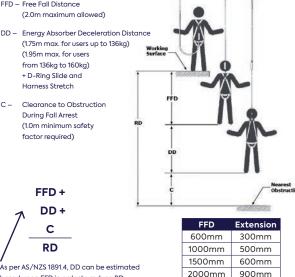
- RD Required Distance Below Working Surface to Nearest Obstruction FFD – Free Fall Distance
- (2.0m maximum allowed)
- DD Energy Absorber Deceleration Distance (1.75m max. for users up to 136kg) (1.95m max, for users from 136kg to 160kg) + D-Ring Slide and Harness Stretch
- Clearance to Obstruction During Fall Arrest (10m minimum safety factor required)

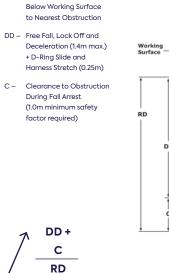
FFD + DD+

С

RD

based upon FFD in order to reduce RD





Self Retracting Lifeline

RD - Required Distance

DD Nearest – Obstruction

As per AS/NZS 1891.4, DD can be estimated at 700mm 250mm must be added for D-Ring slide.

WHY INSPECTION IS IMPORTANT

Anchor Points, static lines, rails and Personal Protective Equipment (PPE) used for fall protection are required to be inspected on a regular scheduled periodic bases. This inspection and testing must be carried out by a recognised competent person. Please refer to AS/NZS 1891.4:2009 (Section 9. Table 9.1) for further details.

Bullivants provides an inspection and testing service to ensure your system is in accordance with manufacturer's specifications and Australian Standards. This information is entered into the Bullivants Electronic Asset Management system and can be accessed by our clients via the secure web portal.

Height Safety Systems are generally required to be inspected/tested annually, with recertification required 10 years after the installation date.

INSPECTION FREQUENCY

- Equipment should be inspected by the user before and after each use
- Detailed inspections should be performed by a competent person every six months for webbing products and every three months for Self Retracting Lifelines (SRL's)
- If there is ever any sign of an unsafe condition or if the equipment has been used to arrest a fall it should be immediately withdrawn from service and destroyed, or sent to an authorised service centre for re-certification. Inspections should be recorded in a centralised logbook that includes the serial number, date of purchase, dates of inspection, servicing performed and authorised signatures

WHEN SHOULD EQUIPMENT BE REMOVED FROM SERVICE?

- · Six monthly service and/or periodical inspection is due
- It has been involved in a fall
- Labels have been removed, are missing or illegible
- Excessive abrasive wear (furry or frayed surfaces) has occurred
- Broken fibres, tears, cuts, snags and splinters are present
- Weld burns are present
- Deterioration or stretching has occurred

- Loss of resilience, discolouration or visible damage is
 experienced
- Parts and mechanisms are not moving freely or are corroded
- When there is reduction in cross-section of rope area or webbing
- When there is excessive contamination not removed by approved cleaning methods
- It is more than 10 years old for AS/NZS certified products from date of manufacture

CORRECT HARNESS FITTING

1. Inspect I	t
--------------	---



Dorsal (back) D-Rina.

ensure all buckles are

undone and there are no

tangles in the webbing.

Inspect harness straps,

stitching, hardware and

labels prior to donning.



2. Sub-pelvic Strap

Slip the shoulder straps over both shoulders allowing the D-Ring to be positioned between the shoulder blades.

Adjust the shoulder straps to ensure the subpelvic strap is positioned directly below the buttocks.



Adjust the leg straps and secure, making sure the webbing is not twisted. To check leg strap tightness, ensure a flat hand can be placed between the leg and the leg strap. Make a fist and try to pull fist from strap. If not possible to pull fist out, strap tightness is correct. Otherwise adjust strap until fist can't be pulled out.



4. Chest Straps

Connect the chest strap across the upper body.

For Race Form Buckle style harness (shown), the shoulder strap positions towards the chest. For other harness types the shoulder straps must remain vertical. Correct chest fit should allow a fist to be placed behind the chest strap.



5. Adjust & Check

Make sure the D-Ring is easily accessible to your hand. Adjust all straps and buckles to be a firm, comfortable fit. Ensure your harness allows full range of motion.

It is vital that any work at heights is only carried out by persons accredited in RIIWHS204E (Working Safely at Heights). All height safety PPE equipment must be inspected daily, before and after each use, by an experienced height safety operator. Routine inspections must also be carried out in line with relevant Australian Standards every six months by an accredited height safety equipment inspector.

Refer to manufacturer's instructions for complete details on inspection, storage and maintenance.

FALL PROTECTION

HARNESSES, LANYARDS & ROOFERS KITS

1100 Spectre **Tradie Harness**

- Rear fall arrest D ring
- Front fall arrest loops • Fully adjustable shoulder and leg straps with carbon steel buckles
- High visibility webbing
- Breathable rear mesh panel
- Suitable for fall arrest. roof work, ladder systems, EWP, maintenance and construction
- Certified to AS/NZS 1891.1



Description	Size	Part Number
Full body harness	Medium	WFBH-2-P-S-1100S

Medium harness suits M – 2XL shirt size Available in one size only

1150 Spectre **EWP Harness**

- Energy absorbing 1.8m permanently attached lanyard
- Fully adjustable leg, shoulder and chest straps
- Breathable rear mesh panel
- High visibility webbing
- Front fall arrest loops
- Suitable for fall arrest, EWPs, maintenance and construction
- Certified to AS/NZS 1891.1



Full body harness with 1.8m energy absorber lanyard	Medium	WFBH-1-P-S-MF-1150EWP
Medium harness suits M – 2XL shirt size		
Available in one size only		

1100 ERGO Harness

- Front and rear fall arrest D rings
- Confined space

Description

- attachment loops • Fully adjustable shoulder,
- leg and chest straps Suspension trauma relief straps
- High visibility webbing
- Breathable rear mesh panel
- Suitable for fall arrest, confined space work, roof work, ladder systems, EWP, maintenance and construction
- Certified to AS/NZS 1891.1



1150 ERGO Harness



- permanently attached lanyard
- Fully adjustable leg, shoulder and chest straps
- Breathable rear mesh panel
- High visibility webbing
- Front centralised fall
- arrest D-ring Suspension trauma
- relief straps
- Suitable for fall arrest, EWPs, maintenance and construction
- Certified to AS/NZS 1891.1



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Description

Part Number Size

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Full body harness with 1.8m energy absorber lanyard Medium WFBH-1-P-S-MF-1150 Medium harness suits M – 2XL shirt size Other sizes available upon request

1104 ERGO Harness

- Front and rear centralised fall arrest D-ring
- Dorsal extension strap
- Confined space attachment loops
- Fully adjustable shoulder,
- leg and chest straps
- Breathable rear mesh panel
- Suspension trauma relief straps
- space entry, roof work, ladder safety systems, EWPs,
- maintenance and construction • Certified to AS/NZS 1891.1



Medium WFBH-2-P-S-MF-1104

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Description
Full body harness with rear dorsal
Madium barnass suits M - 2

2XL shirt size Other sizes available upon request

extension

1107 ERGO Full **Body Harness**

- Rear and front centralised fall arrest D-ring
- Padded comfort waist band and fitted
- with side D-rings for pole strap • Dorsal extension strap
- Confined space attachment loops
- Fully adjustable leg, shoulder
- and chest straps
- Breathable rear mesh panel
- Suspension trauma relief straps
- Suitable for pole work, tower work, fall arrest, confined space entry, roof work, ladder safety
- systems, elevated work platforms, maintenance and construction
- Certified to AS/NZS 1891.1

Descr

Full bo

and pa

ription	Size	Part Number
ody harness with dorsal extension added waist belt	Medium	WFBH-1-P-MF-1107

Medium harness suits M – 2XL shirt size Other sizes available upon request



Medium harness suits M – 2XL shirt size Other sizes available upon request

Description Size Full body harness Medium

Part Number

- Suitable for fall arrest, confined



Size



SpanSeť



Part Number

WFBH-1-P-L-MF-1100

12



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1100 ERGO iPlus Harness

- Premium harness with padding for comfort
- Patented iWeb[™] inspectable webbing
- to reveal cuts and abrasions
- Water and oil resistant webbing · Lightweight aluminium fittings and
- quick connect buckles Front and rear fall arrest D-ring
- Confined space
- attachment loops
- Suspension trauma relief straps • Suitable for fall arrest, confined space entry, roof work, ladder safety systems, EWPs, maintenance
- and construction • Complies with AS/NZS 1891.1

Description



Part Number

I I SpanSet

Size Full body premium harness Medium WFBH-3-P-S-1100EIPM Medium harness suits M – 2XL shirt size

1104 ERGO **iPlus Harness**

• Premium harness with padding for comfort

Other sizes available upon request

- Patented iWeb™ inspectable webbing to reveal cuts and abrasions
- Water and oil resistant webbing
- Lightweight aluminium fittings
- and quick connect buckles • Front and rear fall arrest D-ring
- Dorsal extension strap
- Confined space attachment loops
- Suspension trauma relief straps
- Suitable for fall arrest, confined space entry, roof work,
- ladder safety systems, EWPs,
- maintenance and construction • Certified to AS/NZS 1891.1



WFBH-3-P-S-1104EP

Medium

Size

Medium

SpanSet

Description

Full body iPlus harness Medium harness suits M – 2XL shirt size Other sizes available upon request

1107 ERGO **iPlus Harness**

- Premium harness with padding for comfort
- Patented iWeb[™] inspectable webbing
- to reveal cuts and abrasions • Water and oil resistant webbing
- Lightweight aluminium fittings
- and auick connect buckles
- Front and rear fall arrest D-ring and padded waist band fitted with side D's for pole strap
- Dorsal extension strap Confined space
- attachment loops
- Suspension trauma relief straps • Suitable for fall arrest, confined space entry, roof work, ladder safety systems EWPs
- maintenance and construction • Certified to AS/NZS 1891.1

Description

Full body premium harness with dorsal	
extension and padded waist belt	

Medium harness suits M – 2XL shirt size Other sizes available upon request

1100 HotWorks Harness & Lanyards

Heat resistant webbing with Kevlar[®] inner fibres Harness

- Confined space attachment loops
- Stainless steel easy alide buckles
- Suitable for fall arrest, confined space entry, roof work,
- ladder systems, EWP's, maintenance and construction • Certified to AS/NZS1891.1
- Lanyards Steel connectors
- Energy absorber pack covered with heat
- and molten splash resistant material
- Certified to AS 1891.5





= = SpanSet

WFP-FBH-S-00444

WI N-180-D7I 4-H-S-EC

Description	Size	Part Number
Full body HotWorks harness	Medium	WFP-FBH-S-00444
Lanyard HotWorks with H1 snap hook and H3 scaff hook	1.8m	WLN-180-D7L4-H-S-EC
Lanyard HotWorks with K4 steel triple action karabiners each end	1.8m	WLN-180-K4K4-K-S-EC

Medium harness suits M – 2XL shirt size

Other sizes available upon request

1100 WaterWorks Harness & Lanyard



- Suitable for tough WaterWorks applications
- SpanSet Xtreme guard water and oil resistant webbing
- Harness
- Front and rear stainless steel D rings
- Stainless steel buckles
- Confined space attachment loops
- Fully adjustable leg, shoulder and chest strap
- Suspension trauma relief straps
- Certified to AS/NZS 1891.1
- Lanyard

D

- Stainless steel connectors
- Certified to AS 1891.5



WFBH-2-P-S-1100WW

WLN-180-KEKE-W-S-EC

Description	Size	Part Number
Full body WaterWorks harness	Medium	WFBH-2-P-S-1100WW
Lanyard WaterWorks with K4 steel triple action karabiners each end	1.8m	WLN-180-KEKE-W-S-EC
Medium harness suits M – 2XL shirt size		

Me Other sizes available upon request



Part Number

WFBH-4-P-S-1107EIPM

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6001SA Spectre Height 📃 🗌 SpanSet Safety & Roofers Kit

- Kit includes: • 1100 Tradie full body harness
- 3108SA Anchorage 15m line and adjuster with energy absorber
- 3506 Spectre 1m 70kN MBS round sling anchor strap
- K4 Karabiner
- Backpack style kit bag



Description 6001SA Spectre height safety and roofers kit

Part Number WR00FK-15M-11K-6001SA

6001SA ERGO Height Safety & Roofers Kit



- 1104 ERGO full body harness
- 3108SA Anchorage line 15m and adjuster with energy absorber

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- 3501 Heavy duty anchor strap 22kN rated 1.30m Length
- K4 Karabiner
- Backpack style kit bag



Description	Part Number
6001SA ERGO height safety & roofers kit	WFP-RK-S-00317

Energy Absorbing Webbing Lanyards

- Heavy duty steel fittings
- · Contrast stitching for ease of inspection
- High tenacity polyester webbing gives better strength and safety through longevity
- Polyester webbing tested for UV resistance
- Tear web energy absorber limits the forces to under 6kN should a fall occur as per
- Australian/New Zealand standards
- Suitable for construction, maintenance, telecoms, mining and general industries
- Certified to AS 1891.5



Description	Length m	Anchor Connector	Harness Connector	Capacity kg	Weight kg	Part Number
3053 Single Leg – H1, H1	1.8	Steel snap hook	Steel snap hook	140	1.07	WLN-180-D7D7-W-S-EC
3053 Single Leg – K4, K4	1.8	Steel triple action karbiner	Steel triple action karbiner	140	2.04	WLN-180-K4K4-W-S-EC
3055 Single Leg – H1, H3	1.8	Steel scaff hook	Steel snap hook	140	1.32	WLN-180-D7L4-W-S-EC
3057 Twin leg – H1, K1, K1	1.8	2 x Steel screw gate karbiners	Steel snap hook	140	1.50	WLND-180-2K2H1-W-S-EC
3058 Twin leg – H1, H3, H3	1.8	2 x Steel scaff hooks	Steel snap hook	140	2.04	WLND-180-2L4D7-W-S-EC

Energy Absorbing Elasticated Webbing Lanyards

• Heavy duty steel fittings

- 1.4m 1.8m Size elasticated webbing
- · Contrast stitching for ease of inspection
- High tenacity polyester webbing gives better
- strength and safety through longevity
- Polyester webbing tested for UV resistance
- Tear web energy absorber limits the forces to under 6kN should
- a fall occur as per Australian/New Zealand standards
- Ideal for preventing snagging and tripping as the slack remains taught
- Suitable for use in EWPs and climbing applications
- Certified to AS 1891.5



Description	Length m	Anchor Connector	Harness Connector	Capacity kg	Weight kg	Part Number
3055E Single Leg – H1, H3	1.8	Steel scaff hook	Steel snap hook	140	1.31	WLN-180-D7L4-W-E-EC
3058E Twin Leg – H1, H3, H3	1.8	2 x Steel scaff hook	Steel snap hook	140	1.72	WLND-180-2L4D7-S-S-EC

Energy Absorbing Rope Lanyards

- Kernmantle construction
- Internal marker tape for traceability
- · Contrasting core and sheath for ease of inspection
- All terminations sewn with polyester thread, heat shrunk and thimble eye
- Certified to AS 1891.5

3061 Single leg – H1, H1

3061A Single Leg - K4, K4 adjustable

Description





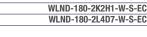


Length m **Anchor Connector** Harness Connector Capacity kg Weight kg Part Number Steel snap hook WLN-180-D7D7-R-S-EC Steel snap hook 140 1.2 Steel triple action karbiner 140 1.67 WLN-200-K4K4-R-S-ECA Steel triple action karbiner





SpanSet



WFP-LN-B-00042

WFP-LN-B-00043

V-FORM[™] Full Body Harness

- Superior comfort Unique racing style, quick connect buckle
- Increased flexibility Racing style buckle creates an athletic cut, contouring the harness to the body
- Adjustability Pull down adjustment allows you to quickly and easily get the right fit
- Steel hardware, back and chest D-rings, shoulder loops and quick fit buckles
- Optional side D-rings and waist belt
- Suitable for construction, mining, electrical contractors, EWP and scissor platform operators
- Certified to AS/NZS 1891.1

Description	Size	Part Number
Full body harness	Small	WFP-FBH-B-00028
Full body harness	Medium	WFBH-2-P-B-10205380
Full body harness	Large	WFP-FBH-B-00029
With side D-ring and waist belt	Small	WFP-FBH-B-00030
With side D-ring and waist belt	Medium	WFP-FBH-B-00031
With side D-ring and waist belt	Large	WFP-FBH-B-00032

Gravity Suspension Harness

- Strategically positioned ventral attachment distributes the load between the waist belt and leg loops during suspension
- Breathable waist pad provides a multi-layered padding which dissipates pressure from the webbing to reduce fatigue when working for long periods of time
- Bayonet buckles with locking engagement window confirms a secure connection
- Shoulder padding protects the neck from chafing while providing the necessary back support

Aluminium snap hook

Aluminium snap hook

- Premium hardware fittings with wide opening aluminium D-rings, triple action
- karabiner and single hand adjusting buckles
- Total of five rigid tool loops on the waist belt and leg connections
- Side D-rings can be conveniently stowed away when not in use
- Certified to AS/NZS 1891.1

Part Number
5-P-B-10150462
5-P-B-10150463
5-P-B-10150464
5

V-Series Lanyards

- Compact and lightweight energy absorber with abrasion resistant cover
- · Reduce trip and snag hazards with stretch style webbing

Length m

- Twin or single leg configuration
- · Single and twin adjustable stretch options
- Suitable for construction, mining, electrical contractors, EWP and scissor platform operators, linesman and scaffolding
- Certified to AS/NZS 1891.5

Adjustable webbing - Single leg 2

Adjustable webbing - Single leg Adjustable webbing - Twin leg

Stretch webbing – Single leg Stretch webbing – Twin leg

Туре

\mathbf{U}	Contraction of the second seco	
Single Leg – 00039	Single Leg – 00040	Single Leg – 00042

le Leg – 00039	Single Leg – 00040	Single Le

	E	Padv	Harposs
V-FII	FUII	воау	Harness

- Superior comfort Using a patent pending RaceFLEX™ connection with an integrated D-ring
- Flexibility RaceFLEX™ buckle creates an athletic cut, contouring the harness to the body and improving upper torso movement on the job
- Adjustability Pull down adjustment allows you to quickly and easily get the right fit that lasts throughout the work day
- Dedicated attachment point for personal fall limiter allows for quick and easy attachment and keeps your back D-ring free for other use
- Anodised forged aluminium back and chest D-rings, shoulder loops and bayonet buckles
- Optional side D-rina
- and waist belt Suitable for construction,
- mining, electrical contractors, EWP and scissor
- platform operators Certified to AS/NZS 1891.1



Description	Size	Part Number
Full body harness	Small	WFP-FBH-B-00033
Full body harness	Medium	WFBH-2-P-L-10211470
Full body harness	Large	WFP-FBH-B-00034
With side D-ring and waist belt	Small	WFP-FBH-B-00035
With side D-ring and waist belt	Medium	WFP-FBH-B-00036
With side D-ring and waist belt	Large	WFP-FBH-B-00037





Fitting at Shock Absorber	Fitting at Free End(s)	Mass kg	Part Number
Steel snap hook	Steel snap hook	1.3	WFP-LN-B-00039
Steel snap hook	Steel scaff hook	1.3	WFP-LN-B-00040
Steel snap hook	Steel scaff hook	1.7	WFP-LN-B-00041

Aluminium scaff hook

Aluminium scaff hook







The Safety Company

12



Twin Leg – 00041

14



The Safety Company

FALL PROTECTIO

Polyester Harness

12

- Frontal fall arrest attachment point and dorsal D-ring
- · Easy to don with fully adjustable chest, shoulder and leg straps
- Label pack stores all relevant harness documents
- Brightly coloured webbing to increase worker visibility
- Suitable for construction, maintenance, scaffolding, warehousing and roof work
- Certified to AS/NZS 1891.1



Honeywell MILLER

WFBH-3-P-M-M1020322S

Part Number

WFBH-3-P-M-M1020322M
WFBH-3-P-M-M1020322L
WFBH-3-P-M-M1020322XL

Aircore Harness

• Certified to AS/NZS 1891.1

Construction

Description

Maintenance harness

Maintenance harness Maintenance harness

Maintenance harness

- DuraFlex[™] stretchable webbing for comfort and durability
- Quick connect leg and chest
- buckles for easy donning • Aluminium hardware makes for
- a lightweight harness, reducing fatigue and improving productivity Confined space attachment
- points, front and rear fall arrest • Ideal for building, construction
- and roof work

Riggers

Riggers harness

- Lightweight components reduce
- fatigue, increasing productivity • Quick operating shoulder cam
- buckles for vertical adjustment • Quick connect leg and secure
- heavy duty rated chest buckles • Frontal D-ring and rear fall arrest
- D-ring with fall indicator
- Work positioning side D-rings for working with pole straps
- Confined space loops for atta
- Ideo roof

 attachment to sp Ideal for building, roof work and pole 	construction,	Riggers Harness
Description	Size	Part Number
Construction harness	Small	WFBH-2-P-M-M1020218RS
Construction harness	Medium – Large	WFBH-2-P-M-M1020219
Construction harness	X-Large – 2X Large	WFBH-3-D-M-M1020220
Riggers harness	Small	WFBH-4-P-M-M1020221
Riggers harness	Medium – Large	WFBH-4-P-M-M1020222
Di l	V I	

Tower Worker

- Lightweight components reduce fatigue, increasing productivity
- Quick operating shoulder cam buckles for vertical adjustment
- Quick connect leg buckles • Work positioning side D-rings
- for working with pole straps Confined space loops for
- attachment to spreader frame
- Built-in buttock pad for increased work positioning comfort
- · Ideal for building, construction, roof work, pole work, electrical, elevated work platforms, tower and ladder work

Honeywell MILLER



Tower Worker Harnes

Description	Size	Part Number
Tower Worker harness	Small	WFP-FBH-M-00023
Tower Worker harness	Medium – Large	WFBH-4-D-M-M1020225
Tower Worker harness	X-Large – 2X Large	WFBH-4-D-M-M1020226

Adjustable Kernmantle Rope Lanyards with Energy Absorber

- Manufactured from robust kernmantle rope for greater abrasion resistance
- Allows user to minimise fall risks by adjusting the lanyard to suit job

X-Large - 2X Large

- Triple Action Karabiners (TAK) shock absorber
- Integrated compact energy absorber smoothly expands for greater shock absorption
- · Ideal for any work at height and restraint applications, construction, maintenance and work positioning
- Certified to AS/NZS 1891.1

Туре	Length m	Fitting at Shock Absorber	Fitting at Free End(s)	Mass kg	Part Number
Single leg	2	Triple action	Triple action	1.4	WLN-200-K4K4-R-M-EC
Twin leg	2	Triple action	Scaff hook	3.2	WLND-200-2L4L4-R-M-EC
Twin leg	2	Triple action	Triple action	2.6	WLND-200-2K4K4-R-M-ECA







Size

Small

Large

X-Large

Medium

Construction Harness

WFBH-4-P-M-M1020223

MILLER

110

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Honeywell

Webbing Lanyards with Energy Absorb

- 35mm Heavy duty and lightweight polyester webbing lanyard with integral energy absorber
- Integral compact energy absorber
- Reliable visual indication if a fall has been taken
- Available in a variety of lengths and connectors to suit specific needs
- Twin tail lanyards allow for constant connection while moving between anchor points
- Certified to AS/NZS 1891.1

Single Leg

Туре	Length m	Fitting at Shock Absorber	Fitting at Free End(s)	Mass kg	Part Number
Single leg	1.5	Snap hook	Snap hook	1.2	WLN-120-D1D1-W-M-EC
Twin leg	2	Triple action	Triple action	2.3	WFP-LN-M-00024

Protecta[®] Universal P200 Riggers Harness

- Ouick connect buckles
- Rear fall arrest D-ring
- Adjustable chest & leg straps
- Suspension trauma straps
- Confined space loops
- Suitable for construction, mining, property maintenance,
- scaffolding and heavy manufacturing
- Ideal for general work at heights
- Certified to AS/NZS 1891.1

Description	Size	Mass kg	Part Number
P200 Riggers harness	Universal	1.83	WFP-FBH-L-00278

DBI-SALA® – DELTA Riggers Harness

- Quick connect buckles
- Water wicking webbing
- Rip stitch indicator allows the user to quickly and easily inspect the harness for impact loading
- Connected Safety enabled to track inspections and control inventory
- Certified to AS/NZS 1891.1

Riggers

- Fall arrest rated front and rear D-rings
- Confined space retrieval/ attachment points
- Riggers harness with stainless steel hardware also available
- · Ideal for rigging, confined space, ladder access and general height safety

Cross-over

- Cross-over style with fall arrest rated front and rear D-rings
- Ideal for roof construction, maintenance and ladder access
- Ideal harness for women

Purp	ose

- Fall arrest rated front
- and rear D-rings • Waist belt with large side
- D-rings for work positioning Confined space retrieval/
- attachment points
- Ideal for multi-purpose access including confined space entry, rigging, ladder access work and work positioning at height

Description	Size	Part Number
Riggers harness	Medium	WFBH-2-P-L-803M0018
Cross-over harness	Medium	WFBH-3-P-L-813M1046
All purpose harness	Medium	WFBH-4-P-L-823M0018

Other sizes available upon request including additional features for specific industry applications



Cross-over Harness













FALL PROTECTION

DBI-SALA[®] – ExoFit NEX[™] Riggers Harness

• Water wicking webbing

- Front and rear Tech-Lite™ aluminium D-rings (only on aluminium models)
- Confined space retrieval/attachment points
- Duo-Lok[™] quick connect buckles (only on aluminium models)
- Revolver[™] vertical torso adjusters (only on aluminium models)
- Integrated suspension trauma straps provide relief in a fall
- Rip stitch indicator allows the user to quickly and easily inspect the harness for impact loading
- Connected Safety enabled to track inspections and control inventory
- Ideal for use as a professional general purpose harness
- in rigging, ladder climbing and confined space access work
- Certified to AS/NZS 1891.1



Description	Size	Part Number
Riggers harness	Medium	WFBH-2-P-L-603M2018
Riggers with stainless steel hardware	Medium	WFBH-3-P-L-603M1022
Cross over harness with stainless steel hardware	Medium	WFBH-2-P-L-613M1021

Other sizes available upon request including additional features for specific industry applications

Lanyards

• Certified to AS/NZS 1891.1



Description	Length m	Anchor Connector	Harness Connector	Capacity kg	Part Number
DBI-SALA® Force2, single leg, kernmantle rope, adjustable & shock absorber	0.75 – 2.0	Triple action karabiner	Triple action karabiner	160	WLN-200-KFRA-CR-L-ECA
Protecta® single leg, kernmantle rope, adjustable & shock absorber	0.75 – 2.0	Scaff hook	Triple action karabiner	160	WLN-020-3AKK-R-L-EC
DBI-SALA® Force2, single leg, webbing, adjustable & shock absorber	0.75 - 2.0	Steel snap hook	Steel snap hook	160	WLN-200-A6RA-W-L-EC
DBI-SALA® Force2, twin leg, welders elasticated & shock absorber	2.0	Double action scaff hooks	Double action snap hook	160	WLN-200-A6LD-E-L-EC
Protecta® twin Leg, kernmantle rope, adjustable & shock absorber	0.75 – 2.0	Scaff hooks	Triple action karabiner	160	WLND-020-3ARA-L-EC
Protecta® twin leg, elasticated webbing & shock absorber	2.0	Double action scaff hooks	Steel snap hook	160	WLND-200-2A3C4-E-L-EC

DID YOU KNOW

ENGINEERED SYSTEMS FOR WORKING AT HEIGHTS

Engineered fall protection systems are used to protect workers while working at heights who may not have continuous access to suitable anchor points. They are designed to prevent a fall and once in place do not require any further adjustment by workers using the device. The team at Bullivants offers a network of fully trained, certified installers providing industry leading installation services and world leading brands.

We can help you with all your Engineered System needs:

- Cable Fall Protection Systems
- Rail Systems
- Horizontal Lifelines
- Lifeline Synthetic Cable Systems
- Permanent Static Line Systems
- Multirail Guided Rail Systems
- Anchor Points
- Vertical Ladder Systems
- Permanent Access Ladder Systems
- Roof Walkways Systems
 Guard Rails
- Ladder Brackets



I SpanSet

FALL ARRESTORS & LIFELINES

Saverline Type 2 Self Retracting LifeLine

• Complies to AS/NZS 1891.3 and EN360

- SVLB-2 & SVLB-3
- Technora® webbing lifeline with tear away webbing fall indicator,
- internal braking mechanism and triple action karabiners
- Aluminium casina
- 150kg Load rating
- Overhead use only

DSL - Dynamic Self-Retracting Lanyard

- Protects with the shortest possible fall distances Increasing safety margins
- No trailing lifelines, no trip hazards, no tangles
- Can be anchored overhead or below floor level
- 140kg Load rating
- No additional training required when replacing a traditional fall arrest lanyard
- Robust, durable construction
- Edge tested lifeline



Description	Length m	Anchor Connector	Harness Connector	Capacity kg	Weight kg	Part Number
SVLB-2, Single leg, webbing, for over head use only	2	Triple action karabiner	Triple action karabiner	150	1.4	WFA-200-WB-S-SVLB2
SVLB-3, Single leg, webbing, for over head use only	3	Triple action karabiner	Triple action karabiner	150	1.8	WFA-030-WB-S-SVLB3
DSL-3, Single leg, Dynamic Self Retracting lanyard, webbing, energy absorbing pack (can be anchored at or below foot level)	2	Double action scaff hook	Triple action karabiner	140	1.2	WFP-FA-S-00392
DSL-3, Twin leg, Dynamic Self Retracting lanyard, webbing, energy absorbing pack (can be anchored at or below foot level)	2	Double action scaff hook	Triple action karabiner	140	1.5	WFP-FA-S-00395

V-TEC[™] Mini Personal Fall Limiter

- Manufactured from high grade stainless steel and engineered plastics
- Clear housing for easy inspection
- Super-lightweight, compact and versatile
- Comes with aluminium triple action karabiner at the harness connection, with a range of swivel anchorage connections
- available
- · Swivel connectors allow for complete flexibility in movement • Suitable for general industry, manufacturing, scaffolders, mining,
- construction, EWP and Scissor Lifts
- Certified to AS/NZS 1891.3:2020







WLNP-B-6390004

Туре	Length m	Anchorage Connector	Harness Connector	Part Number
Single leg webbing	1.8	Aluminium swivel scaff hook	Aluminium steel triple action	WFP-FA-B-00384
Single leg webbing	1.8	Steel swivel snap hook	Aluminium steel triple action	WFP-FA-B-00387
Single leg webbing	1.8	Stainless steel triple action	Aluminium steel triple action	WFP-FA-B-00422
Twin leg webbing	1.8	Aluminium swivel scaff hook	Twin-link connector	WFP-FA-B-00481
Single leg webbing	2.5	Steel swivel snap hook	Locking pin connector	WFP-FA-B-00482
Twin-link connector	_	_	Twin-link connector	WLNP-B-6390004

PRODUCT INSIGHT

V-TEC® MINI PFL



Assured Safetv

Optimized design utilizing durable lightweight materials to improve weight and comfort

Enhanced Connectors Triple lock aluminium karabiner on the top

Full Range of Motion

Fully rotating attachment point for complete flexibility - both 360° and 180°



Clear Housing

Polycarbonate case houses SRL; transparency allows for easy inspection of internal components

Superior Materials

Components manufactured from high-grade stainless steel and engineered plastics

Variety of Connectors

Range of swivel connectors in steel and aluminium to fit wide range of applications





WFP-FA-B-00387

FALL PROTECTION

TurboLite[™]+ Personal Fall Limiters

- Retractable technology prevents trip hazards while its built in swivel also prevents lifeline twist
- Extremely compact and light weight
- High strength, impact resistant nylon housing and engineered high technology polyester/vectran webbing provide more resistance to abrasion, increasing durability
- Quick activating, high strength stainless steel braking system - Limiting free fall to a minimum
- Suitable for construction, utilities, warehousing and mining
- · Ideal for use in horizontal and foot level applications
- where an overhead anchorage point is unavailable
- Certified to AS/NZS 1891.3



Туре	Length m	Anchorage Connector	Harness Connector	Part Number
Type 2 fall arrestor	1.8	Stainless steel snap hook	Stainless steel karabiner	WFP-FA-M-00342
Type 2 fall arrestor	2	Stainless steel scaff hook	Stainless steel karabiner	WFP-FA-M-00343

DBI-SALA® – Nano-Lok™ 2G Self Retracting Lifelines

- Automatic quick activating arrestor
- Extremely compact and lightweight
- Single or twin leg harness interface connector, cab mount or karabiner
- Impact indicator
- 1.8 1.95m Working length depending on the hook/anchorage configuration
- 2.8m and 3.4m Extended length lifeline models also available
- · Connected Safety enabled to track inspection and control inventory
- Inbuilt RFID tag
- 360° Swivelling anchorage loop
- Impact resistant housing
- Retractable lifeline
- Triple action karabiner, snap or scaffold hook with 16kN gate strength
- Ideal for stock picking, rigging, roofing, cherry picking, construction work and for mine sites
- Complies with AS 1891.3

Туре	Length m	Anchorage Connector	Harness Connector	Part Number
Single webbing	1.8	Steel snap hook	Quick connector	WFA-018-WB-L-3101330
Single webbing	1.8	Steel triple action karabiner	Steel triple action karabiner	WFA-018-WB-L-3101339
Single webbing	1.8	Steel scaff hook	Triple action karabiner	WFA-018-WB-L-3101342
Twin webbing	1.8	Steel scaff hook	Quick connector	WFA-018-WB-L-3101345

Saverline/IKAR Type 2 SRL Webbing

- Can be anchored overhead to foot level
- Edge tested lifeline



Description	Length m	Anchor Connector	Harness Connector	Capacity kg	Weight kg	Part Number
2002345, webbing, edge tested, aluminium housing	2.0	Triple action karabiner	Triple action karabiner	136	0.8	WLNR-180-S-2002345
2002361, EWP, webbing, edge tested, aluminium housing	1.8	Triple action karabiner	Double action snap hook	136	0.96	WFP-FA-S-00101
2002347, webbing, edge tested, plastic housing	3.5	Triple action karabiner	Triple action karabiner	136	1.2	WFA-035-WB-S-2002347
2002349, webbing, edge tested, plastic housing	7.0	Triple action karabiner	Triple action karabiner	136	1.8	WLNR-700-S-2002349



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Honeywell

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SALA

Saverline/IKAR Type 2 SRL Galvanised Steel Cable

- Can be anchored overhead to foot level
- Edge tested lifeline



Description	Length m	Anchor Connector	Harness Connector	Capacity kg	Weight kg	Part Number
2002346, galvanised steel cable, edge tested, plastic housing, swivel attachment point	3.0	Triple action karabiner	Triple action karabiner	136	1.9	WFA-030-WR-S-2002346
2002348, galvanised steel cable, edge tested, plastic housing, swivel attachment point	6.0	Triple action karabiner	Triple action karabiner	136	2.5	WLNR-600-S-2002348
2002350, galvanised steel cable, edge tested, plastic housing, swivel attachment point	12	Triple action karabiner	Triple action karabiner	136	4.9	WFA-120-WR-S-2002350
2002364, galvanised steel cable, edge tested, aluminium housing, swivel attachment point	18	Triple action karabiner	Triple action karabiner	136	9.5	WFA-180-SC-S-2002364
2002365, galvanised steel cable, edge tested, aluminium housing, swivel attachment point	24	Triple action karabiner	Triple action karabiner	136	13.5	WFA-240-WR-S-2002365
2002366, galvanised steel cable, edge tested, aluminium housing, swivel attachment point	30	Triple action karabiner	Triple action karabiner	136	18	WFA-300-SC-S-2002366

V-TEC[™] Self-Retracting Lanyard

- Balistic polycarbonate clear case allows visual internal inspection
- Radial energy absorbing technology requires zero recalibration or adjustment
- 6, 10 and 15m galvanised or stainless steel versions
- Reduced service costs over life of product
- Suitable for overhead connection in a wide range of applications in all industries
- Complies with AS/NZS 1891.3





Тиро	Length m	Anchorage Connector	Harness Connector	Part Number
Туре	Lengui m	Allcholage confilector	Harness connector	Fait Nullibei
Galvanised cable	6	Steel karabiner	Steel swivel snap hook	WFA-060-WR-B-6320600AEU
Stainless steel cable	6	Steel karabiner	Stainless steel triple action karabiner	WFA-0602-SC-B-6330600BEU
Galvanised cable	10	Steel karabiner	Steel swivel snap hook	WFA-100-WR-B-6321000AEU
Stainless steel cable	10	Steel karabiner	Stainless steel triple action karabiner	WFA-100-SC-B-6331000BEU
Galvanised cable	15	Steel karabiner	Steel swivel snap hook	WFA-150-WR-B-6321500AEU
Stainless steel cable	15	Steel karabiner	Stainless steel triple action karabiner	WFA-150-SC-B-6331500BEU

PRODUCT INSIGHT

V-TEC[®] STANDARD SRLs



Easy Inspection Clear outer housing

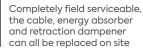


Easy Transportation Carry handle included



Versatile Galvanised or stainless steel cable





Downtime Minimised



Assured Safety

or adjustment

Retraction dampening features control the cable speed to 3m/s (<10ft/s)



Built to Last Stainless steel/ engineered plastics

MSA

FALL PROTECTIO

Falcon Type 2 Self Retracting Lifelines

- Corrosion resistant stainless steel and aluminium internal components Galvanised steel cable
- High impact resistant nylon housing withstands the harsh rigours of the toughest applications for increased durability to extend service life and to lower cost of ownership
- Light composite unit, easy to handle and transport to and from job sites
- Unique side payout design reduces wear on the entry guide bushing and cable
- for smooth operation with less drag to increase user mobility
- Smooth, quiet operation; engineered spring retraction tension designed not
- to pull or drag on a worker to improve productivity and reduce fatigue
- Certified to AS/NZS 1891.3

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Length m	Anchorage Connector	Harness Connector	Part Number
6	Stainless steel triple action	Stainless steel triple action	WFA-100-WR-M-M1030079
10	Stainless steel triple action	Stainless steel triple action	WFA-100-WR-M-M1030080
15	Stainless steel triple action	Stainless steel triple action	WFA-150-SC-M-M1030081
20	Stainless steel triple action	Stainless steel triple action	WFA-200-SC-M-M1030082

Protecta® – Rebel[™] Self Retracting Lifelines

- Retractable technology reduces fall clearance and trip hazards for complete safety
- Stainless steel or galvanised cable options available
- Rugged thermoplastic housing can withstand rough use
- Self-locking swivel snap hook with impact indicator on lifeline and connecting karabiner on housing
- Also available with Triple Action Karabiner (TAK) terminations
- · Ideal for working at heights, construction and maintenance applications
- Complies with AS 1891.3



Length m	Anchorage Connector	Harness Connector	Part Number
10	Karabiner	Double action swivel hook	WFA-100-WR-L-3590521
15	Karabiner	Double action swivel hook	WFA-150-WR-L-3590570
20	Karabiner	Double action swivel hook	WFA-200-WR-L-3590610
30	Karabiner	Double action swivel hook	WFA-300-WR-L-3590690

LatchWays Sealed SRL

- Stainless steel cable and attachment hardware
- Corrosion resistant Expected lifespan of 10+ years
- IP69K Ingress Protection standard
- ATEX rated for use in areas where explosive atmospheres may occur
- Field serviceable Reducing down time to a bare minimum and
- providing cost savings





Length m	Anchor Connector	Harness Connector	Capacity kg	Weight kg	Part Number
9	Stainless steel triple action karabiner	Double action karabiner	140	9.5	WFP-FA-B-00349
15	Stainless steel triple action karabiner	Double action karabiner	140	12	WFP-FA-B-00350
25	Stainless steel triple action karabiner	Double action karabiner	140	20	WFP-FA-B-00351
40	Stainless steel triple action karabiner	Double action karabiner	140	26	WFP-FA-B-00352

DBI-SALA® – Sealed Blok™ Self Retracting Lifeline

- Environmentally sealed dynamic components
- Extremely durable construction
- 5mm Galvanised steel cable lifeline
- · Swivelling snap hook with impact indicator
- Large pivoting anchorage loop
- Anchorage karabiner
- Reserve lifeline system
- Available in a variety of lengths ranging from 9 40m and are also available with stainless steel cable and Triple Action Karabiners (TAK)
- Emergency retrieval model features built-in retrieval winch for raising/lowering load during emergencies
- · Connected Safety enabled to track inspection and control inventory
- Emergency retrieval model provides added mobility and security with automatic fall arrest mode
- and retrieval winch capabilities for raising and lowering personnel in emergency rescue and retrieval situations
- Ideal for use in harsh environments and confined space applications
- Complies with AS 1891.3

Туре	Length m	Anchorage Connector	Harness Connector	Part Number
Galvanised cable	9	Pivoting loop	Swivel snap hook	WFA-090-WR-L-3400803
	1.1.1	5 5 6 1		

Other types and sizes available on request For more information, contact your Sales Representative or Customer Service Centre





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Honeywell

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ANCHORAGE

Anchor Straps - Heavy Duty

• Heavy duty anchor strap with wear protection

- D-rings each end



I I SpanSet

Length m	MBS Rating kN	Part Number
1.0	22 (Choked/Reeved)	WHDS-S-3501010
1.3	22 (Choked/Reeved)	WHDS-S-3501
1.5	22 (Choked/Reeved)	WHDS-S-350115
2.0	22 (Choked/Reeved)	WHDS-S-35012
3.0	22 (Choked/Reeved)	WHDS-S-35010X3
4.0	22 (Choked/Reeved)	WFP-AN-S-00316

Horizontal Safety Line

• Gives the user fast and secure deployment and safer work practices

- · Heavy duty webbing gives 18m of safe horizontal anchored movement
- Comes with a bag which is permanently sewn to the line allowing excess webbing to be stored safely and reduce trip hazards common with temporary safety lines
- Tension Force Indicator (TFI) allows quick and easy verification of the pretension force in the system
- Suitable for working at heights, construction and maintenance applications

Description	Length m	Rating	Ratchet	Tension Force Indicator	Part Number
3400UK	18	2 Persons	20020 ABS	Yes	WALK-16P018-S-3400UK

Anchor Straps

• Endless anchor strap

Endless

Length m

0.6

1.0

3.0

4.0

6.0

• 25mm Webbing

Horizontal Anchorage Line

- 11mm Kernmantle rope
- Rope adjuster
- Shock absorber
- 140kg Capacity



Snap Hook

Length m	Connector	Part Number
2.0	Triple action karabiner	WAL-11K020-S-K4RG
5.0	Triple action karabiner	WAL-11K050-S-K4
10	Triple action karabiner	WAL-11K100-S-K4RASA
15	Snap hook	WAL-11K150-S-D7RA-SA
20	Snap hook	WFP-AL-S-00496
25	Snap hook	WAL-11K250-S-D7RA-SA
30	Snap hook	WAL-11K300-S-D7RA
40	Snap hook	WAL-11K400-S-D7SA
60	Snap hook	WAL-11K600-S-D7RA-EC

SAFETY TIP

HOW STRONG IS YOUR ANCHOR?

It is important that the anchorage and the structure it is connected to is capable of withstanding the forces generated in the event of a fall. Kilo newton (kN) is the measure of force and is commonly used when dealing with fall protection. One kN is approximately equal to 100kg (1kN = 100kg). Therefore 15kN is equivalent to 1500kg or 1.5 tonnes.

- AS/NZS 1891 states the following requirements for anchorage strengths:
- 12kN for limited free fall and abseil • 15kN for 1 person fall arrest
- 21kN for 2 people fall arrest

I SpanSet

Part Number

WT0A-006-W25-S

WT0A-100-W25-S

WT0A-200-W25-S

WT0A-030-W25-S

WT0A-040-W25-S

WT0A-600-W25-S

MBS Rating kN

22 (Direct)

22 (Direct)

22 (Direct)

22 (Direct)

22 (Direct)

22 (Direct)

= = SpanSet



FALL PROTECTION

V-Line Vertical Lifeline

- V-Line ladder rung top and bottom brackets
- Supplied with U bolts for fixing to ladder rungs • Kits Include: Swaged termination cable assembly, cable guide ladder rung bolt on 90° kit, vertical shuttle with karabiner and warning sign
- Suitable for use as part of a personal
- fall protection system

12

• Complies with AS/NZS 1891.3 and EN353.1



Description	Part Number
10m, kit	WFP-AL-K-00329
20m, kit	WFP-AL-K-00330
40m, kit	WFP-AL-K-00331
Other lengths available on request for more information	

currenengths available on request, for more information contact your local Bullivants branch

TempLink

TempLink 3000

- Patented multi-directional fall device designed to absorb energy when a fall is arrested.
- Lightweight compact unit
- Easy to secure tabs
- Carry bag included
- Complies with AS/NZS 1891.4

TempLink 5000

- Less fixing required due to energy absorbing features
- Suitable for mounting on metal roof sheeting with steel purlins or timber battens
- Complies with AS/NZS 5532











Part Number	Weight kg	Capacity kg	Description
WANPP-K-TEMPL003	1.02	1 person 15kN	TempLink 3000
WFP-AN-K-00322	3.2	1 person 15kN	TempLink 5000

BeamLink

- Structual beam attachment anchor
- Rated to 21kN
- Ideal to mount overhead on flanged beams including universal beam, columns and fabricated sections

160

385

• Complies with AS/NZS 5532





DELTAPLUS

Gridmesh Anchor

- Patented design allows a user to set a fall protection anchor point above a grid mesh clad structure across two supporting beams
- Quick and easy installation
- No exposure to a fall risk to install
- Proven practical device for use in confined space rescue
- Ideal for use by rope access personnel for an anchor point
- Ideal to set up above ladder access points for safe ascending and descending of ladders
- Ideal for rescue at height with 22.2kN rating enabling the rescuer
- to connect to the same anchorage point if required

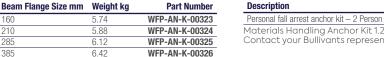


Description	
Description of the second seco	0

WFP-AN-K-00054 Materials Handling Anchor Kit 1.2t also available Contact your Bullivants representative for more information







WFP-AN-K-00351

Single Anchor

216

Description

Beaml ink001.160

Beaml ink001 210

BeamLink001.285

BeamLink001.385

Evehook stainless steel *Eyehook sold separately

SafetyLink A DIVISION OF



Part Number

Safety Link



Frog*Line*





V-Line

1

'Innovative Fall Protection'

RESCUE & ESCAPE KITS

12

Personal Rescue Device with Harness

- Integrated harness system allowing self rescue
- Lightweight, unobtrusive rescue device is contained in a small back pack attached to a full body harness
- In the event of a fall, the suspended worker deploys the descent by a simple pull of the rescue cord
- Device will lower the worker up to 20m at a controlled rate through an integral braking mechanism
- Device can also be deployed by a rescuer
- Minimal training and simple to utilise





PRD	Н	ar	'n	e	S!

R20 Pole

Description	Size	Length m	Capacity kg	Weight kg	Part Number
PRD with Workman Premier Harness	Medium	20	59 - 140	3.9	WFBH-5-P-B-6821600M
PRD with Workman Premier Harness	Large	20	59 – 140	3.9	WFBH-5-P-B-6821600L
R20 Rescue Pole Telescopic	-	0.8 - 3.4	-	0.7	WALP-RP-R20

Gotcha[™] Original Rescue Kit

- Pre-assembled remote rescue kit
- Designed for rescuing a suspended casualty
- Casualties can be raised or lowered to safety
- Adaptable for different heights of anchorage
- Telescopic pole for remote attachment
- 140kg Load capacity
- Suitable for tower and ladder rescues
- Ideal for hauling kit with a litter or stretcher, use with an overhead foot level anchorage, rescue from a fall arrest lanyard, rope safety line and inertia reels

Kit includes:

- Upper and lower pulleys
- Gotcha™ frog
- Telescopic attachment pole
- Rope controller
- Australian Standard rescue rope
- Rope grabba (for inertia reels)
- Attachment sling
- Karabiners
- Back pack gear bag



_ SpanSet

WALK-11P050-S-GOTCHA

I SpanSet

Length m	Weight kg	Part Number
50	7.0	WALK-11P050-S-GOTCHA
75	9.0	WALK-11P075-S-GOTCHA
100	11	WALK-11P100-S-GOTCHA
150	15	WALK-11P150-S-GOTCHA

Also available in up to 200m length upon request

Gotcha[™] IKAR CRD **Rescue Kit**

- Pre-rigged ready for emergency use
- 140kg Load rated capacity - Ideal for one person
- 200m Maximum height descent with suitable rope length
- Can be supplied with Gotcha™ Pole and Gotcha™ Frog

Kit includes:

- Edge protector
- Black snake 1m anchor sling
- Gotcha™ bag



Gotcha[™] RESQ RPX **Rescue Kit**

- Evacuation and rescue kit
- Pre-rigged ready for emergency use
- Up to 280kg load rated with extra friction
- Kit ideal for 2 people
- 255m Maximum height descent
- with suitable rope length
- MP kits comes with Gotcha™ Pole and Gotcha™ Frog
- Ideal for use with drill for lifting applications
- Other rope lengths available



Length m

50

Part Number WFP-RE-S-00156

Length m	Part Number
50	WFP-RE-S-00319
100	WFP-RE-S-00320
150	WFP-RE-S-00321

12

3M[™] DBI-SALA[®] – Self Rescue Kit

- Universal attachment
- EZ-Link™ D-ring
- Assisted rescue ring
- Rescue pole accessory
- Sealed descent device and rope spool
- Self rescue device for multiple applications including EWP rescue



Description	Length m	Part Number
Self rescue kit	15	WFP-RE-L-00352
Self rescue kit	30	WFP-RE-L-00353
Self rescue pole	0.66 - 2.64	WDC-L-8900299

CONFINED SPACE

Confined Space Entry Kit

- Comes complete with all the essentials required for a safe entry, exit and retrieval from a confined space
- Intuitively designed to minimise extensive user training and set up time by being simple, easy to use and fast to assemble
- Available with a range of options to suit all applications
- Kits include a V-FORM harness, MSA tripod, tripod carry bag, and spreader bar
- Components available individually

MightEvac™+ Type 3 Self Retracting Lifelines

- Promotes quick and easy rescue with a 4:1 mechanical advantage (average speed of 7.6m per minute)
- Galvanised steel cable lifeline
- Corrosion resistant stainless steel
 and aluminium components
- Suitable for rescue, emergency
- retrieval and confined space • Certified to AS/NZS 1891.3





otion	Part Number

Description	Part Number
Tripod, Rescuer 15m, Winch 20m, 2 Pulleys, 2 Karabiners, Harness, Spreader Bar, Bag	WRUK-150-B-768392
Tripod, Winch 20m, 1 Pulley, 2 Karabiners, Harness, Spreader Bar, Bag	WFP-CS-B-00261
Tripod, Rescuer 15m, 1 Pulleys, 2 Karabiners, Harness, Spreader Bar, Bag	WRUK-150-B-768384

Length m	Anchor Connector	Harness Connector	Capacity kg	Weight kg	Part Number
15.0	Karabiner	Swivel load indicator snap hook	141	14.0	WFP-FA-M-00497
30.0	Karabiner	Swivel load indicator	141	24.4	WFP-FA-M-00498

DID YOU KNOW

. . . .

Bullivants provides an inspection and testing service to ensure your harnesses and system are in accordance with manufacturers' specifications and Australian Standards. This information is entered into the BEAM 2.0 (Bullivants Electronic Asset Management) system and can be accessed via a secure web portal. Height Safety Systems require 6 or 12 month inspections and testing, depending on the product. Contact your nearest branch on **1300 LIFTING** to book your inspections.

> CLICK HERE TO ACCESS THE SECURE WEB PORTAL



FALL PROTECTION

Tripod – Heavy Duty

- Tough aluminium tripod designed for long term use
- Integrated twin pulleys with an additional auxiliary anchor point
- Standard height of 1.86m and extended height of 2.7m
- Bracket included, 1 x TRIPOD-HD-BRACKET-3 leg bracket
- Suitable for use by two persons
- Suitable for the hire industry
- Complies with AS/NZS 5532



Description	Length m	WLL kg	Wheelbase Footprint Dia. m	Head Wheels	Hardware	Head Finish	Part Number
TRIPOD-HD+BRACKET	1.86 - 2.7	360	2.3	Stainless steel	Zinc plated steel	Black powder coated	WFP-CS-S-00291

Saverline/IKAR Type 3 SRL Galvanised Steel Cable

- Galvanised steel cable
- Aluminium housing
- Swivel lifeline attachment point
- Winch suitable for rescue/recovery only
- Not suitable for use over a leading edge and has not been edge tested due to winching feature



I I SpanSet

I SpanSet

Length m	Anchor Connector	Harness Connector	Capacity kg	Weight kg	Part Number
12	Triple action karabiner	Triple action karabiner	136	7.0	WFA-120-WR-S-2002363
18	Triple action karabiner	Triple action karabiner	136	11.5	WFA-018-WR-S-2002380
24	Triple action karabiner	Triple action karabiner	136	16	WRA-240-WR-S-2002381
30	Triple action karabiner	Triple action karabiner	136	21	WFA-300-SC-S-2002382
42	Triple action karabiner	Triple action karabiner	136	40	WFA-043-WR-S-2002383
65	Triple action karabiner	Triple action karabiner	136	43	WFA-065-WR-S-2002384

Personnel & Material Winch

- Integrated mount compatible with SpanSet Tripod leg bracket and SpanSet Xtirpa mount
- When used with personnel a back up fall arrest system should be used

SVLWB-20

- Wire guide rollers and a spring loaded spool retention
- Galvanised steel
- 22:1 Mechanical advantage
- Suitable for confined space environments
- WLL: 157kg

2002227+BRKT

- Hand crank cable winch for easy and jerk-free
- lifting and lowering of persons and goods.
- Maximum rated load is 300kg
- Stainless steel cable 6mm
- Cable length 30m
- Winch weight approx. 18.5kg

|--|--|

SVLWB-20

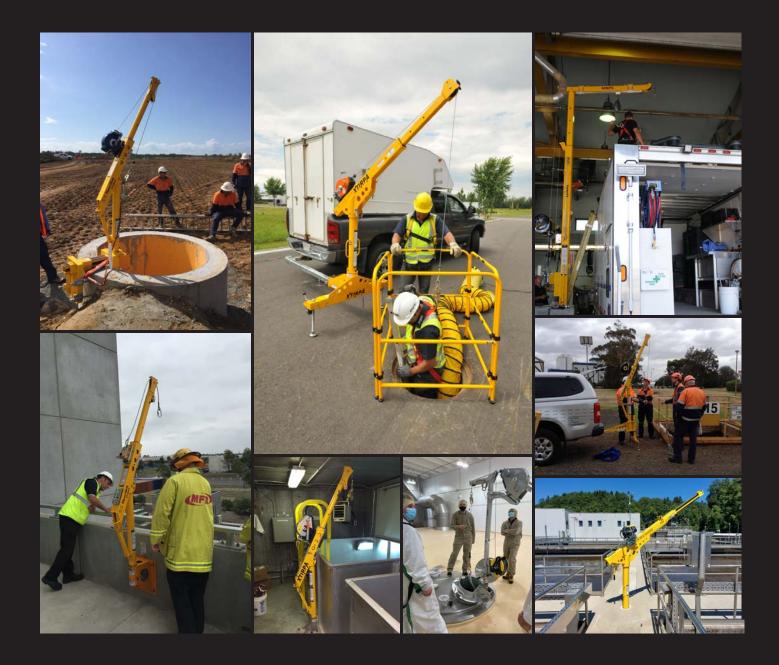


Description	Size m	Min./Max. Work Load	Mass kg	Part Number
SVLWB-20	20	12kg/157kg	14	WRUP-S-SVLWB20
2002227+BRKT	30	300kg (Max)	18.5	WFP-RE-S-00318





ONE SYSTEM. ENDLESS SOLUTIONS.



YELLOW THE TRUE COLOR OF SAFETY



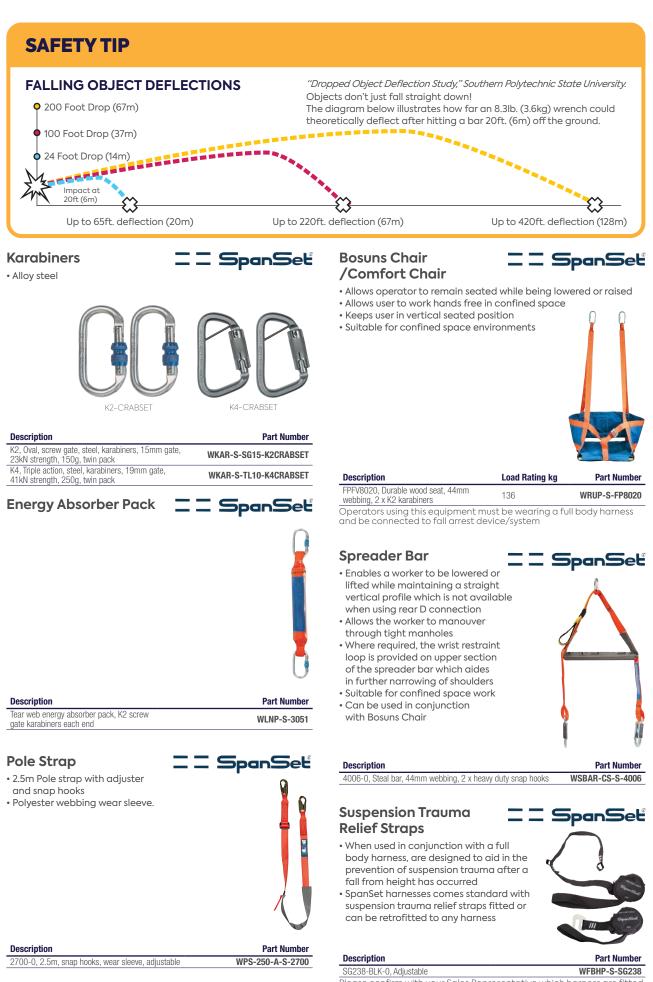
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0BI-SALA® Utility Belt	3M Fall Protection	DBI-SALA® I Attachmen		3	Fall Prote
	0 0				0
Description Size cm	Part Number			THO	V I
500111 – Comfort utility belt 91 – 112	44202649			1500007	15000
mall Parts Pouch Ideal for nuts, bolts, screws, nails and can be used from a belt or harness	SAM Sall Protection	Description 1500007 – D-ring atta 1500009 – D-ring atta		Std Pack 10 10	Part Numl 442026 442026
and can be used norma beit of namess		DBI-SALA® (Quick Wrap 1	ape II 3	Fall Prote
	Giffing California				
Description 500119 – Black canvas, self closing	Part Number 44202715				
)BI-SALA® Radio 'Mobile Holster	3M Fall Protection	Description 1500174 – Single – Ye	Length m ellow 2.7 x 0.025		Part Num 442027
Adjusts to the size of virtually any	Pair Potector	PPE Kit Bag		В	ullivan
portable radio or mobile phone Ergonomic quick crinch cord lock D-ring connection points anchors the supplied coil tether Can be used for a belt or harness					Bullivants
	- C	Description Bullivants PPE kit bag			Part Num 44201
Description	Part Number				
500089 – Radio/mobile holster	44202646				
OBI-SALA® Tethers	SM Fall Protection				
				T	
Description Load Rating kg	Length m Part Number		- The	1 Martin	

EQUIPMENT NEED INSPECTING?

CONTACT YOUR NEAREST BRANCH ON 1300 LIFTING

12



Please confirm with your Sales Representative which harness are fitted with suspension trauma relief straps

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BULLIVANTS TERMS & CONDITIONS OF SALE

IMPORTANT NOTE TO BUYER:

By entering into this Contract, you acknowledge that you have read these terms and conditions, and are aware of the following key terms which may be prejudicial to you:

- Delivery dates not guaranteed. Timeframes for delivery are estimates only and not guaranteed (clause 5).
- Retention of title and security. Seller retains title to goods until paid for. Buyer must consent to and assist Seller to perfect any security interest (clause 8).
- Manufacturer or supplier data. Seller does not guarantee information supplied by manufacturer or supplier of goods. Buyer should make their own enquiries (clause 12).
- Charges and duty. Responsibility for any charges or duties etc levied after the date of quotation or invoice are placed on the Buyer (clause 14).
- Our liability is limited. To the extent permitted by law:
- Seller limits liability for faulty goods or services to: (a) in the case of goods, repair, replacement, or the cost of resupplying those goods; or (b) in the case of services, the re-supply of the services or the cost of having the services supplied again (clause 19b).
- Seller excludes liability for particular types of loss including indirect and consequential loss (clause 19c.),
- The Seller's liability (except for its fraud or wilful misconduct) is limited to the amounts that are recovered under its insurance (up to \$10 million) and if the liability is not recovered under its insurance to an amount equal to the value of the Purchase Price (clause 19d).
- Terms may change. When Buyer orders goods, the terms and condition apply as at the time of order. These terms may change from time to time without notice. Buyer should check terms before each purchase (clauses 2 and 20).

1. DEFINITIONS AND INTERPRETATION

1.1 Definitions

In these terms and conditions, unless the context otherwise requires: **"Australian Consumer Law"** means Schedule 2 of the Competition and Consumer Act 2010 (Cth) and the corresponding provisions of State Fair Trading legislation.

"Buyer" means the person named as the buyer or purchaser of the goods and/or services in the relevant Contract.

"Business Day" means a day other than a weekend or public holiday in the place which the goods are delivered. **"Conditions"** means these Bullivants Terms and Conditions of

Quotation and Sale.

"Consumer" means a consumer as defined by Schedule 2 of the Competition and Consumer Act 2010 as amended from time to time. **"Contract"** means a contract for sale as referred to in clause 2(b) or any other contract for the supply of goods and/or services entered into between Seller and the Buyer which incorporates these Conditions.

"Excluded Loss" means loss of revenue, loss of profit, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, loss of data, loss arising from any business interruption, increased overhead costs, and any indirect, remote or unforeseeable loss.

"Exclusive Goods" means any goods which are, at the Buyer's request, embellished, embroidered, printed, machined, cut-to-size or specifically ordered for the Buyer.

"Force Majeure Event" has the meaning ascribed to it in clause 15. **"Health Event"** means any epidemic, pandemic, quarantine restrictions, public health emergency, communicable disease outbreak, including without limitation, the Covid-19 outbreak and the consequences of any of the foregoing.

"Order Confirmation" means a document issued by the Seller to Buyer evidencing their agreement for the sale and supply of goods and/or services by the Seller to the Buyer.

"PPSA" means Personal Property Securities Act 2009 (Cth). **"Purchase Price"** means the price for the goods and/or services set out in the relevant Quotation, Order Confirmation or Contract or as otherwise agreed in writing by the Seller and the Buyer.

"Quotation" means the form of quotation or proposal submitted by the Seller to the Buyer setting out the Purchase Price and any other special terms and conditions for the sale and supply of goods and/ or services by the Seller to the Buyer.

"Seller" means Bullivants Pty Limited ABN 47 087 887 072 trading as Bullivants.

1.2 Interpretation

- a. The words **"include"** and **"including"** are not to be interpreted as words of limitation and, when introduced as an example, do not limit the generality of the words to which the example relates.
- b. Words importing the singular shall include the plural (and vice versa). c. A reference to a **"person"** includes an individual, the estate of an
- individual, a body politic, a corporation, a trust, partnership, an association (incorporated or unincorporated) and a statutory or other authority.
- d. A reference to a "party" means a party to a Contract.
- e. A reference to **"in writing"** includes recorded by electronic or other durable means.
- f. If any provision of these Conditions is invalid, these Conditions shall be read as if that provision has been severed.
- 2. ORDERS, GOVERNING TERMS AND CONDITIONS
- a. Where the Buyer submits an order for goods and/or services and the Seller accepts such order, these Conditions shall apply to the supply of goods and/or services by the Seller to the Buyer.
- b. Any order placed by the Buyer will constitute an offer and shall not bind the Seller until accepted by it in writing (including by means of an Order Confirmation) or by the Seller commencing the supply of goods and/or services in accordance with that order. When the Seller accepts the Buyer's order a separate contract of sale will arise for the goods and/or services to which the order relates.
- c. Each Contract formed under clause 2b. will incorporate these Conditions. Where an order placed by the Buyer on the Seller references a Quotation, then any terms or special conditions contained in the Quotation will also be incorporated into the Contract.
- d. Unless otherwise expressly agreed in writing by the parties, any direction by the Buyer either verbal or written to procure goods or services from the Seller will be deemed as acceptance by the Buyer of these Conditions, despite any provisions to the contrary in the direction or any purchase order issued by the Buyer.
- e. These Conditions prevail over any terms and conditions contained in any order, offer, acceptance or other document of the Buyer, whether or not any inconsistency arises.

3. QUOTATIONS

a. Unless previously withdrawn, a Quotation is valid for 30 days or such other period as stated in it. A Quotation is not to be construed as an obligation to sell but merely an invitation to treat and no contractual relationship shall arise from it until the Buyer's order has been accepted in writing by the Seller which provided the Quotation.

BULLIVANTS TERMS & CONDITIONS OF SALE

- b. The Seller shall not be bound by any conditions attaching to the Buyer's order or acceptance of a Quotation and, unless such conditions are expressly accepted by the Seller in writing, the Buyer acknowledges that such conditions are expressly negatived.
- c. Every Quotation is subject to and conditional upon obtaining any necessary import, export or other licence.

4. TERMS OF PAYMENT

- a. Payment to the Seller for goods or services delivered is due within 30 calendar days of the end of the month in which the Buyer is invoiced for the goods and/or services.
- b. The Buyer must not withhold payment or make any deduction from the invoiced price or any other amount owing to the Seller without the Seller's prior written consent.
- c. The Seller may in its discretion allocate a payment that does not specifically identify the invoice for which such payment is made in satisfaction for monies owing under any outstanding invoices without regard to the date of those invoices.
- d. If the Buyer fails to make payment in accordance with this clause, without prejudice to any other remedy, Seller may charge interest on the outstanding amount at an annual rate of three percent above the current Bank Bill Swap Reference Rate as quoted in the Australian Financial Review at the date the amount is due and payable or an equivalent rate determined by the Seller (acting reasonably) if this rate ceases to be published, is updated, suspended or discontinued. Interest will be calculated on a daily basis from the day it falls due until the day it is paid. Any payment made by the Buyer shall be credited first against any interest that has accrued.

5. DELIVERY, INSPECTION AND ACCEPTANCE

- a. Any timeframes quoted by the Seller for delivery of goods are estimates only. The Seller will use its reasonable endeavours to supply goods in the quantities specified in the relevant Contract.
- b. Delivery will be made in the manner and at the place specified in the relevant Contract or if not specified delivery will be made as determined by the Seller. The Buyer agrees to accept delivery of goods at any time between 9.00am and 5.00pm on a Business Day.
- c. The Seller reserves the right to make part deliveries of any order. Each part delivery may be invoiced separately and shall constitute a separate sale of goods upon the same terms and conditions as those applying to the main order. A part delivery of an order shall not invalidate the balance of an order.
- d. The Buyer shall inspect all goods upon delivery and shall within seven (7) days of delivery give notice to the Seller of any matter or thing by which the Buyer alleges that the goods are not in accordance with the Buyer's order or these Conditions. Failing such notice, subject to any non-excludable rights, guarantees or conditions implied by law, such as those in the Australian Consumer Law, the goods shall be deemed to have been delivered to and accepted by the Buyer. Acceptance of the goods does not prevent the Buyer from making a claim under the statutory consumer guarantees under the Australian Consumer Law.

6. RETURNS

Return of goods (other than in situations where the Seller is required to accept a return of goods under the Australian Consumer Law) must be approved by the Seller. Any authorised returns must be freight prepaid and will only be accepted if they are in a saleable condition and (unless otherwise agreed with the Seller) and the goods are returned within 14 days of supply. The Seller reserves the right to charge a handling fee of \$10 or 10% of the price of the goods returned (whichever is greater) under this provision. The Seller will not accept the return of Exclusive Goods other than in situations where the Seller is required to accept a return of such goods under the Australian Consumer Law.

7. GST

- a. If a supply under a Contract is subject to GST, the recipient of the supply must pay to the supplier, in addition to the other consideration payable or to be provided for the supply and at the same time as the other consideration, an additional amount equal to the GST.
- b. If any party is entitled to payment of any costs or expenses by way of reimbursement or indemnity, the claim shall exclude any amount for which that party (or representative member if the party is a member of a GST group) may obtain an input tax credit.
- c. Where an adjustment event occurs in relation to a supply made by the supplier under or in connection with a Contract, the

supplier will issue an adjustment note to the recipient in respect of that supply within fourteen (14) days after becoming aware of the relevant adjustment. Where the supplier becomes entitled to receive the amount of a variation from the recipient, the amount is not payable by the recipient unless and until the supplier provides a valid adjustment note.

d. Unless clearly indicated to the contrary, 'GST' and other terms used in this clause 7 (and in other provisions of these Conditions where the GST meanings are expressly intended) have the meanings given to those terms by the A New Tax System (Goods and Services Tax) Act 1999 or any replacement or other relevant legislation and regulations. Any reference to GST payable by the supplier includes any GST payable by the representative member of any GST group of which the supplier is a member.

8. PASSING OF PROPERTY AND RISK

- a. Goods supplied by the Seller to the Buyer shall be at the Buyer's risk immediately upon delivery to the Buyer, into the Buyer's custody or at the Buyer's direction (whichever happens first). The Buyer shall insure the goods from the time of that delivery at its cost against such risks as it thinks appropriate.
- b. Title in the goods supplied by the Seller to the Buyer under these Conditions shall not pass to the Buyer until those goods have been paid for in full.
- c. Until the goods have been paid for in full: i. the Buyer shall store the goods in a manner which shows clearly
- that they are the property of the Seller; and ii. the Buyer may sell the goods, in the ordinary course of its business, as agent for the Seller and shall account to the Seller for the proceeds of sale (including any proceeds from insurance claims). These proceeds must be kept in a separate bank account.
- d. The Buyer agrees to grant the Seller reasonable access to any premises upon which the Seller's goods are stored to enable the Seller to inspect the goods and/or reclaim the goods, if the Seller has terminated, or has a right to terminate the relevant Contract. This right shall continue after termination and for so long as Seller reasonably believes that goods in which it retains title are held at premises owned or controlled by Buyer.
- e. The Buyer and the Seller agree that the provisions of this clause apply notwithstanding any arrangement under which the Seller grants credit to the Buyer.
- f. The Buyer consents to the Seller perfecting any security interest (as defined in section 12 of the PPSA) in goods supplied under the Contract and their proceeds created by this clause 8 by registration under the PPSA and agrees to do anything reasonably requested by the Seller to enable it to do so.
- g. The parties contract out of the following provisions of the PPSA which, under section 115(1) of that Act, they are permitted to contract out of:
 - i. sections 95 (notice of removal of accession) and section 130 (notice of disposal) to the extent that they require the secured party to give a notice to the grantor;
 - ii. section 96 (when a person with an interest in the whole may retain an accession);
 - iii. subsection 121(4) (enforcement of liquid assets—notice to grantor);
 - iv. section 129 (disposal by purchase)
 - v. paragraph 132(3)(d) (contents of statement of account after disposal);
 - vi. subsection 132(4) (statement of account if no disposal);
 - vii. section 142 (redemption of collateral); and
- viii. section 143 (reinstatement of security agreement).h. Each party waives its right to receive each notice which, under section 157(3) of the PPSA, it is permitted to waive.
- The parties agree that no one will disclose, or authorise the disclosure of, any information of the kind described in section 275(1) of the PPSA to any other person unless allowed or required by law.

9. SUSPENSION, CANCELLATION AND DISCONTINUANCE OF SUPPLY

The Seller reserves the right to immediately suspend, cancel or discontinue the supply of goods or services to the Buyer without further notice to the Buyer where:

- a. the Buyer is in breach of these Conditions; or
- b. the Buyer is otherwise in breach of its payment obligations to the Seller,

and the Seller will not incur any liability to the Buyer in respect of such suspended, cancelled or discontinued supply.

10. CONTAINERS AND PALLETS

Any pallets or containers used for the delivery, storage or display of goods are not included in the Purchase Price unless otherwise specified and will remain the property of their owner. The Buyer must promptly return or exchange the pallets and containers in its custody on the day of delivery (unless otherwise agreed with the Seller) or reimburse the Seller for the cost of replacement or repair of lost or damaged pallets or containers. The Seller may charge a reasonable deposit to the Buyer for a pallet or container which will be credited in full if the pallet or container is returned to the Seller within 3 months of dispatch and is in good order and condition.

11. INSTALLATION

The Seller's Quotation or Sale Invoice is made on a supply only basis. Installation and commissioning (if any) is at the expense of the Buyer unless otherwise specified in writing by the Seller.

12. DIMENSIONS, PERFORMANCE DATA AND OTHER DESCRIPTIVE DETAILS

- a. To the extent permitted by law, and unless otherwise agreed, any performance data provided by the Seller which is sourced from a supplier of the Seller or a manufacturer is an estimate only and is passed on by the Seller in good faith, but the Seller has not independently verified the accuracy or completeness of such performance data. The Buyer should exercise reasonable care in relying on such performance data.
- b. Unless agreed to the contrary in writing, the Seller reserves the right to offer an alternative brand or substitute product that has characteristics that are materially consistent with the goods offered when necessary. Substitution will not be given effect to until approval is received from the Buyer.

13. SHIPMENT AND DELIVERY

Upon acceptance of an order by the Seller, the Seller will seek confirmation of the period of shipment or delivery. If any variation has occurred in the quoted period, the Seller will notify the Buyer. The Seller may impose a delivery charge on all deliveries (subject to such charge being notified to the Buyer in advance) with the exception of back-order deliveries which are part of an original order that has been partly fulfilled.

14. CONTINGENCIES

Any charge, duty, impost, sales tax or other expenditure which is not applicable at the date of Seller's acceptance of an order but which is subsequently levied upon the Seller in relation to that order as a result of the introduction of any legislation, regulation or governmental policy, shall be to the Buyer's account.

15. FORCE MAJEURE

A party shall be excused from the performance or observance of any of its obligations under a Contract to the extent its performance or observance is prevented, restricted or affected by reason of a force majeure event including strike, lock out, industrial dispute, raw material shortage, breakdown of plant, transport or equipment, a Health Event, measures or actions taken by any government or government body including, without limitation, in connection with a Health Event and importation of goods or any other cause beyond the reasonable control of the affected party (Force Majeure Event). Notwithstanding a Force Majeure Event no party will be relieved from liability to pay moneys due under a Contract.

16. BUYER'S CANCELLATION

Unless otherwise agreed in writing, the Buyer shall have no right to cancel an order which has been accepted by the Seller.

17. WARRANTY

The Seller makes no express warranties or representations in respect of any goods or services supplied to the Buyer under these Conditions. Manufacturers of goods may, from time to time, provide a voluntary warranty directly to the Buyer in relation to goods supplied to the Buyer.

18. INSURANCE

Seller will maintain whilst it supplies goods and/or services under these Conditions and for the period of any Contract the following insurances:

a. product and public liability insurance to a limit of \$10 million; and b. workers compensation insurance as required by law.

19. LIABILITY

- a. Where goods are purchased from the Seller by the Buyer as a Consumer:
 - i. the Australian Consumer Law provides certain statutory guarantees in relation to the goods; and
 - ii. nothing in these Conditions purports to modify or exclude such guarantees.
- b. To the extent permitted by statute, the liability, if any, of the Seller arising from the breach of any statutory guarantee under the Australian Consumer Law in relation to the supply of goods or services, other than goods of a kind ordinarily acquired for personal, domestic or household use or consumption, shall at the Seller's option be limited to:
 - i. in the case of goods:
 - the replacement of the goods or the supply of equivalent goods;
 the repair of the goods;
 - 3. the reimbursement of the cost of the repair of the goods; and
 - 4. the payment of the cost for the repair of the goods; and
 - ii. in the case of services:
 - 1. the re-supply of the services; or
 - 2. the reimbursement of the cost of having the services supplied again.
- c. To the extent permitted by statute, neither party shall be liable to the other in connection with a Contract for or in respect of any Excluded Loss.
- d. Subject to clauses 19a to 19c, and except in the case of fraud or wilful misconduct of the Seller, Seller's aggregate liability to Buyer in connection with any Contract for the supply of goods or services under these Conditions, howsoever arising, whether in contract, in tort (including but not limited to negligence), in equity, under any warranties or indemnities, by operation of statute or otherwise, will, to the extent permitted by law, be limited as follows:
 - i. for liability arising in connection with events or circumstances in respect of which the Seller is indemnified under a policy of insurance required to be taken out under these Conditions, the Seller's liability will be limited to the amount which is recovered by the Seller under that policy (or should have recovered had it complied with the relevant policy) and in all circumstances will not exceed the amount that is the specified limit for that policy of insurance required to be taken out by the Seller under these Conditions;
 - ii. for all liability in respect of which the Seller is not indemnified under a policy of insurance required to be taken out under these Conditions, Seller's liability will be limited to an amount equal to the Purchase Price for the goods under that purchase order Contract.
- e. To the extent permitted by statute, including the Australian Consumer Law, Seller will not be responsible for any damage or loss caused to goods which have been serviced or repaired by unauthorised persons.
- f. At all times, a party's liability under a Contract or otherwise, shall be reduced proportionately to the extent that any act or omission of the other party, its personnel or any other third party caused or contributed to such loss or liability.

20. ALTERATION TO CONDITIONS

The Seller may, at any time and from time to time, alter these Conditions without notice and with immediate effect once posted on the Seller's website, provided that any variation to these Conditions will not apply to any:

- a. orders placed not yet fulfilled prior to the date of such variation taking effect; or
- b. contract for a specified term that incorporates a version of these Conditions released prior to the variation.

21. VIENNA SALES CONVENTION

To the fullest extent permitted by law, the United Nations Convention on Contracts for the International Sale of Goods (Vienna 1980) known as the Vienna Sales Convention does not apply to the Contract incorporating these Conditions nor do any of the conditions express or implied by the Vienna Sales Convention form part of any Contract.

22. GOVERNING LAW

These Conditions and any Contract including them shall be governed by and construed in accordance with the laws of the State of New South Wales and the Seller and the Buyer submit to the non-exclusive jurisdiction of the Courts of New South Wales.







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