RIGGING CATALOG

www.superslings.ca

SECURE SOLUTIONS

North Office
Address
505 - 11 Avenue
Nisku, Alberta
Canada, T9E 7N5

Phone
780-955-7111

Super Slings inc.
Secure Solutions

info@superslings.ca

South Office
Address
7620 Edgar Industrial Drive
Red Deer, Alberta
Canada, T4P 3R2

Phone
403-406-4996

CERTIFIED FABRICATOR ITI CERTIFIED INSPECTOR

WEB SLING & TIE DOWN ASSOCIATION MEMBER

AWRF Est. 1976

LIFT IT UP TIE IT DOWN PULL IT AROUND

Contents

SECTION 1 - LIFTING SLINGS

SECTION 2 - RIGGING HARDWARE

SECTION 3 - MATERIAL HANDLING

SECTION 4 - CARGO CONTROL

SECTION 5 - ROPE & CORDAGE

OUR COMPANY

Founded in March of 2000 Super Slings has become a leading supplier and manufacturer of rigging & safety products to the oil and gas, energy production, drilling, mining, transportation, manufacturing, entertainement and construction industries. Being 100% locally owned and operated, Super Slings Inc has established itself as a reliable source for quality, safety and exceptional service. We have a fully equipped facility, including a full line of rigging manufacturing equipment as well as a Roberts & Wirop test bed with capacities up to 300 tonne, hoist test stand, magnet break-away test stand, socket pouring stand and rope coilin and counting machine.

Super Slings Inc also provides a unique, fully stocked showroom to help you find exactly what you're looking for. Our highly trained and certified staff is devoted to providing our customers with the best service and the highest quality products. We offer inspection, repair and certification services for all types of rigging, lifting, load securement and pulling applications. At Super Slings we strive to be innovative, which is why we are proud to provide leading edge products such as our High Performance sling tagging, RUD Lifting products, Van Beest Green Pin® products, Tiger Hoisting products and many more.

MISSION STATEMENT

Our goal is to be a leader for all Secure Solutions. Dedication, Research, Knowledge, Integrity and Team Work will provide us with the skills and ability to give our clients the best quality in service and products available. This pursuit will ensure the future safety and success of our company and all in the industry.

ASSOCIATIONS

WEB SLING & TIE DOWN MEMBER ASSOCIATION

The **Web Sling & Tie Down Association** is the "largest non-profit, technical organization dedicated to the safe operation of all synthetic web slings and tie downs". Formed in 1973 as the Web Sling Association, WSTDA develops and promotes voluntary standards to the safe construction and usage of webbing, web slings, round slings, tie downs, and chain binders.

Super Slings has been a member and active participant in the Web Sling & Tie Down association since 2001.

AWRF
Est. 1976

The **Associated Wire Rope Fabricators** was formed in 1975 and incorporated the following year by a group of concerned businessmen who felt there was a need for sling fabricators and special rigging components manufacturers to join together to form a trade association. Originally created by representatives from nine companies in the United States, in two decades the organization grew to address the needs of over 400 member companies worldwide. AWRF promotes interests common among companies manufacturing, fabricating, or distributing lifting, rigging and load securement devices made of chain, rope, and synthetic products.

QUALITY

OUR QUALITY COMMITMENT

Super Slings Inc. makes quality a top priority by ensuring that the products and services we provide meet and/or exceed customer requirements as well as industry standards. We comply with our policy requirements to continually improve the effectiveness of our Quality Management System. Traceability is carefully maintained for all products manufactured at Super Slings Inc.

Aaron Giesinger
President & CEO

SUPER SLINGS INC., in its goal to strive for excellence, considers the following principles integral in the development and ongoing implementation of its Quality System:

- Being a customer focussed organization.
- Providing leadership in the maintenance of its Quality System.
- Involving people in the development and maintenance of its Quality Management System and business operations.
- Incorporating a process approach to the development and implementation of its Quality Management System.
- Using a systems approach to management allowing for a factual approach to decision making.
- Providing an environment for continual improvement.
- Establishing a mutually beneficial supplier relationship.

This process model is based on ISO 9001:2015 – Quality Management Systems Requirements and is used to illustrate the process linkages.

LOCATIONS

NISKU - Head Office
505 - 11 Avenue
Nisku, Alberta
Canada T9E 7N5

Phone: 780-955-7111
Fax: 780-955-7199

RED DEER - South Office
7620 Edgar Industrial Drive
Red Deer, Alberta
Canada T4P 3R2

Phone: 403-406-4996
Fax: 403-496-4997

www.superslings.ca
twitter.com/SuperSlingsInc
instagram.com/superslingsinc/
facebook.com/superslingsinc/
linkedin.com/company/super-slings
youtube.com/superslings

SHOWROOM

Our fully stocked showrooms in Nisku and Red Deer offer our customers the unique experience to find exactly what they need to get the job done right.

SLING FABRICATION

All Super Slings Fabricators are trained and tested by ITI (Industrial Training International) through the Qualified Sling Fabricator course and have passed both written and practical exams to prove competency. At Super Slings we have the capability to manufacture and distribute a wide variety of rigging options to suit any need!

SLING FABRICATION OPTIONS

- Wire rope slings up to 1-1/2" in-house. Larger sizes available through special order.
- Grade 80 & 100 chain slings and components up to 3/4" in-house. Larger sizes available through special order.
- Wide variety of rope sling options, including 3 strand, single braid, and double braid.
- Tow ropes manufactured in-house up to 2-5/8".
- Web slings up to 12" (material width)
- Polyester round slings up to 90,000 lbs standard and 1,000,000 lbs + through special order

Wire Rope Slings

All of our wire rope slings are made with EIPS IWRC wire rope unless otherwise specified. We have the capability to splice up to 1-1/2" diameter in our shop. Single slings, multi-leg bridles, custom assemblies are all available!


Chain Slings

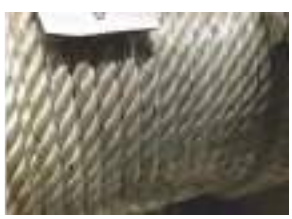
Our grade 120, grade 100 or grade 80 chain sling components come fully load tested from the manufacturer. Each chain sling ordered will be tagged with all of the essential chain sling information stamped on to the tag, along with the personalized serial number for that sling. Customers will also be provided with a test certificate for each chain sling.


Rope Slings

We can custom build a wide variety of rope slings, including eye & eye slings, adjustable transformer slings, multi-leg bridles, and tool bag lifting slings. Custom sizes, lengths, and designs can be quoted!


Tow Ropes

Our tow ropes are some of the strongest and most versatile on the market. Constructed from a high-strength double braid or 3-Strand cordage, they can take the all of the punishment that you can dish out. All tow-ropes are made-to-order and are available in custom lengths. All tow ropes come with cordura sleeves in the eyes, but multiple options are available for extra protection on the eyes or the body of the tow rope.

Synthetic Slings

Our synthetic slings are typically available in 2ft increments up to 30ft as well as custom lengths. All synthetic slings come with high density plastic, weather resistant tags. Other options such as full body cordura wrap for web slings, and extra cordura sleeves for endless round slings are also available.


INSPECTIONS & REPAIRS

IN-HOUSE INSPECTIONS

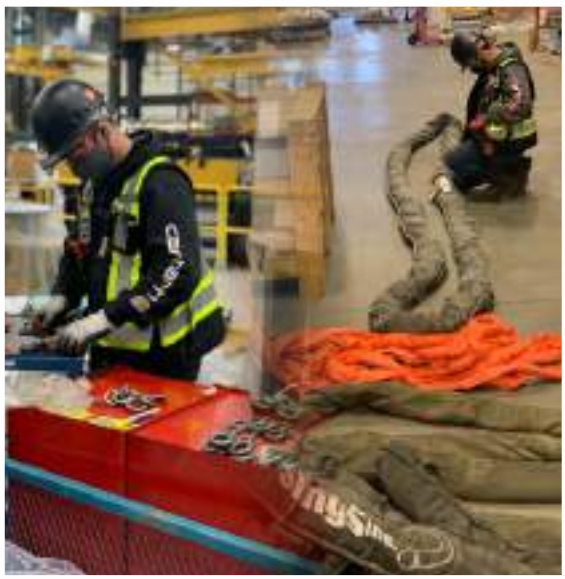
Super Slings is committed to providing thorough and cost-effective rigging inspection services that comply with all procedures recommended by ASME, OH&S, and manufacturers. Staffed by a team of technicians with extensive knowledge and an outstanding industry reputation, our Service Centre works with you during every step of your operation to ensure that your rigging meets the highest standards of integrity and safety. All Super Slings Inspectors are trained and tested by ITI (Industrial Training International) through the Rigging & Inspection Program and have passed both written and practical exams to prove competency.

We Can perform Inspections and Repairs for the follwing products and more

Web Slings	Chain Slings	Swivels	Plate Clamps
Round Slings	Lifting Hooks	Hoists	Lifting Beams
Wire Rope	Shackles	Magnets	Fall Arrest

ON-SITE INSPECTIONS

One of the best safeguards against sling failures that can cause property damage, injury, or even death, is a proper sling and rigging inspection program. On-Site rigging inspections are also a great way to keep all rigging up to date with inspection requirements without having to send them off site. Our inspectors can come to your facility or job site and provide inspections for a wide variety of rigging and lifting hardware.



Super Slings inspectors are trained and tested by **Industrial Training International** to ensure our customers receive the highest quality and most reliable inspection possible. All slings and rigging are inspected to the most recent Alberta OH&S, ASME and manufacturer standards, codes and requirements.

Our Inspection program utilizes Supertrac FieldID to maintain an online database of all inspections and testing for every serialized sling and hardware product. These records are available 24 hours a day, 365 days a year and can be accessed by anyone with a username and password.

We will work with you to determine the most practical and cost efficient frequency of your sling inspections. We can perform inspections annually, semi-annually, quarterly or even monthly depending on the severity of work in which you use your rigging.

REPAIRS

Super Slings technicians have the knowledge and experience to repair and re-certify all slings back to ASME, local regulations and the highest quality standards in the industry.

All sling repairs are then tested in accordance with industry standards and supplied with inspection and testing certificates.

Your Inspection & Testing Records Online 24 / 7 / 365

When it comes to heavy lifting, don't leave safety hanging.

With Super-trac FieldID, safety inspections on all types and sizes of industrial rigging equipment can be conducted with one click.

- Chain
- Wire rope
- Synthetic slings
- Chain Hoists
- Plate Clamps
- Lifting Magnets
- Shackles
- Eye Bolts
- Hoist rings
- Lifting Beams
- More!

Your Challenge

When you're dealing with multiple worksites and numerous pieces of equipment, it can be a stretch to manage it all - visual inspections, certificates, product identification...the list goes on.

- Excessive paperwork
- Management of proof test certificates
- Guesswork in inspection standards – i.e. ASME standards
- Difficulty in distinguishing between rigging products

The Super-trac FieldID advantage

With Super-trac FieldID's one click identification and data storage system, managing the compliance of your rigging has never been easier.

- No questions - All documentation is digitized and stored securely
- Identify and distinguish products on the job site
- Safety standards are built right into Super-trac FieldID
- 24/7 access online to equipment compliance status.

TESTING

HORIZONTAL TEST BEDS:

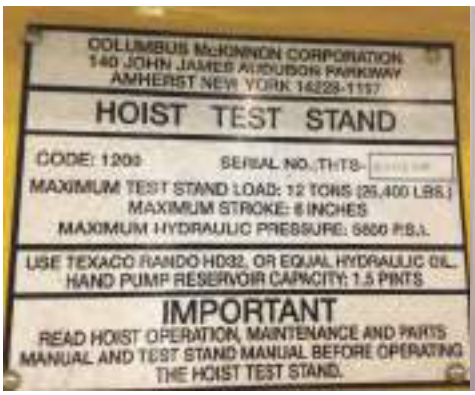
WIROP 300

Capacity: 300 Tonne (660,000 lbs)
Length: 18m (59.5 feet)
Accuracy: :+/- 1% for the range 10-100 % will calibrate according to ASTM E-4 or ISO 7500. The low range is to cover 1"10 % of load cell capacity.
Inside Width: 76cm (30in)
Inside Height: 51cm (20in)

ROBERTS 75

Capacity: 34 Tonne (150,000 lbs)
Length: 8m (26.5 feet)
Accuracy: :+/- 1% for the range 10-100 % will calibrate according to ASTM E-4 or ISO 7500. The low range is to cover 1"10 % of load cell capacity.
Inside Width: 86cm (34in)
Inside Height: 60cm (24in)

HOIST TEST STAND



Capacity: 12 Tonne (26,400 lbs)
Stroke: 15.5cm (6in)

Inside Width: 51cm (20in)
Inside Height: 122cm (48in)

MAGNET BREAKAWAY TEST STAND

Capacity: 6.8 tonne (15,000lbs)
Stroke: 10cm (4in)

Inside Width: 58cm (23in)
Inside Height: 51cm (20in)

Magnet Breakaway Test Stand

Super Slings Magnet Breakaway Test Stand can test magnets with a breakaway force of up to 15,000 lbs. We also have the ability re-label and repair lifting magnets in accordance with the most recent ASME B30.20 standards.

Why Should I Use A Lift Magnet Certification Service?

Lift Magnets cannot be visually inspected alone. Lift Magnet Failure is often the result of internal damage to the magnetic material and is not evident by simple visual inspections that can be performed on other lifting devices. Our Lift Magnet Testing and Certification Service performs both a thorough visual inspection and functional testing of your magnetic lifting products using testing techniques and equipment that meet or exceed the ASME B30.20 Standards for Below-the-Hook Magnetic Lifting Devices. These performance tests are often referred to as Breakaway tests.

Proper breakaway testing of a lift magnet will determine the maximum lift capacity of that magnet under ideal conditions. The outcome of the test allows the operator/owner of the lift to determine if the magnet meets the rated Working Load Limit (WLL) or lift capacity as designed by the manufacturer. After testing, We provide documentation of the testing and a certificate of conformance if the magnet meets the manufacturer's labelled rating. Damaged label replacement is also included for Industrial Magnetics Inc. labelled Lift Magnets.

Common Factors For Lift Magnet Loss Of Performance Or Failure

- Blunt force impact such as dropping, or banging on, the magnet can cause fractures in the magnet
- High heat: If the magnet is exposed to temperatures above its' capabilities it will lose magnetism
- Exposure to electrical fields, like generators or welding ground circuits, will result in loss of magnetism.
- External factors that influence a lift magnet's performance are; nicks, scratches, gouges, rust, etc. to the contact surface of the lifter.

Breakaway testing will prove the magnet is performing at the intended Working Load Limit (WLL).

Lifting Magnet Repairs. All lifting magnets that require repair, are done so in accordance with ASME B30.20 and manufacturer specifications and requirements. Our unique ability to clean and re-label, significantly reduces costs of repairs or potential replacement requirements. All repaired magnets are tested in accordance with ASME B30.20.

Before

After

ASME
SETTING THE STANDARD

ASME B30.20-3.3.8.2 Load Test

(a) Prior to initial use, all new, altered, or repaired lifting magnets shall be tested by, or under the direction of the manufacturer or a qualified person. The rated load of all lifting components associated with the magnet shall exceed the maximum breakaway force of the magnet to avoid overload, or the components shall not be included in the test. The test results shall be recorded confirming the load rating of the lifting magnet.

(1) Breakaway Force Test

(-a) General application lifting magnets shall be required to satisfy the rated breakaway force test.

(-1) The rated load for permanent magnet lifters shall be less than 33% of the breakaway force measured in this test.

(-2) The rated load for electromagnetic lifters shall be less than 50% of the breakaway force measured in this test.

(-b) Specified application lifting magnets shall be required to satisfy the specified application lifting magnet breakaway force test.

(-1) The rated load for permanent magnet lifters shall be less than 33% of the breakaway force measured in this test.

(-2) The rated load for electromagnetic lifters shall be less than 50% of the breakaway force measured in this test.

(2) Design Factor Test. Close proximity operated lifting magnets should have an annual magnetic design factor test to verify the magnet meets para. 20-3.3.8.2.

This test should be performed to the actual breakaway point of the magnet or may be performed at the calculated minimum breakaway force. The rated load of all components associated with the (magnetic) design factor test shall exceed the maximum breakaway load of the magnet to avoid overload or the lifting hardware shall be removed. Caution should be exercised during the test. The test shall be performed under the direction of a qualified person.

(b) The general application lifting magnet breakaway force test shall establish the force required to vertically remove the lifting magnet from a low carbon, rolled steel plate of the minimum thickness stated by the lifting magnet manufacturer. The portion of this plate that is in contact with the lifting magnet shall not exceed 125 µin. (3.2 × 10−3 mm) or better and be flat within 0.002 in./ft (0.05 mm/m), without exceeding 0.005 in. (0.127 mm) total. The full operating face of the lifting magnet shall be in contact with the steel plate, which shall be between 60°F (15°C) and 120°F (50°C). The steel plate, load cell, or other testing device shall be mounted to allow self-alignment so the load is applied to the magnet through the magnet's center of force.

(c) The specified application lifting magnet breakaway force test shall establish the breakaway forces of the lifting magnet under the variety of loading conditions for which the lifting magnet is specified. The details of this test should be supplied by the manufacturer of the lifting magnet.

(d) Battery operated electromagnets and externally powered electromagnets shall be operated at the manufacturer's recommended voltage and current levels.

(e) The test for altered or repaired lifting magnets may be limited to the components affected by the alteration or repair, as determined by a qualified person with guidance from the manufacturer.

BRANDS

At Super Slings, we are proud to partner with some of the most trusted brands in the rigging industry to bring our customers the best products in the world. Our network of vendors and suppliers ensures on-time delivery with what you need when you need it.

ACTEK Manufacturing & Engineering
ANCRA CARGO
APEX TOOL GROUP
ATLANTIC BRAIDS
BARPEK PRODUCTS LTD.
Belt-Tech
Campbell APEX
COLUMBUS McKINNON CORPORATION
Crosby LIFTING CLAMPS
CUSTER PRODUCTS LIMITED
DOLECO USA
DYNALINE
ELEPHANT LIFTING PRODUCTS
GRAY TOOLS
GrabIQ The GrabiQ Advantage
Industrial Magnetics, Inc. IMI Established 1861
KINEDYNE
KITO
Lewis OILFIELD, INDUSTRIAL & UTILITY SUPPLIES
LiftGuard MAGNETIC SLING PROTECTORS
MORSE STARRETT
MUNCY INDUSTRIES
pewag
RUD Tradition in Dynamic Innovation
S&J HANS SH WIRE
SAFETY DIRECT LTD.
samson THE STRONGEST NAME IN ROPE
SKOOKUM Guaranteed Tough Since 1980
CALDWELL LIFTING SOLUTIONS
Tiger
Tractel
VAN BEEST
GP Green Pin
VANGUARD STEEL LTD.
WESTERN RIBBONS
YOKE Safety is our first priority

RESOURCES

RIGGING TRAINING

Rigging training is one of the most important, and most overlooked, aspect to any lifting or load handling scenario. Super Slings works with several rigging training companies throughout Alberta and North America that provide a wide range courses. Contact your Super Slings representative for more information on available training courses.

Rigging Handbook:
The Complete Illustrated Field Reference

Rigging Pocket Guide:
A Reference for the Rigging Professional:

INDUSTRY CONTACTS

Alberta Occupational Health and Safety (OH&S)

www.alberta.ca/occupational-health-safety.aspx

Toll-free in Alberta:
1-866-415-8690

American Society of Mechanical Engineers (ASME)

www.asme.org

1-800-843-2763
(U.S/Canada)

Rigging Resource Centre

https://riggingresource.com

Alberta:
(780) 417 5057

Web Sling & Tie Down Association

www.wstda.com

443.640.1070

American Society of Mechanical Engineers (ASME)

www.awrf.org

1-800-843-2763
(U.S/Canada)

Association of Crane & Rigging Professionals

www.acrp.net

Toll Free:
800.690.3921

METRIC / IMPERIAL UNIT CONVERSION TABLE

IMPERIAL → METRIC

LINEAR MEASURE (LENGTH/DISTANCE)

IMPERIAL	METRIC
1 inch	25.4 millimetres
1 foot (=12 inches)	0.3048 metre
1 yard (=3 feet)	0.9144 metre
1 (statute) mile (=1760 yards)	1.6093 kilometres
1 (nautical) mile (=1.150779 miles)	1.852 kilometres

SQUARE MEASURE (AREA)

IMPERIAL	METRIC
1 square inch	6.4516 sq. centimeters
1 square foot (=144 square inches)	9.29 square decimeters
1 square yard (=9 square feet)	0.8361 square metres
1 acre (=4840 square yards)	0.40469 hectare
1 square mile (=640 acres)	259 hectares

CUBIC MEASURE (VOLUME)

IMPERIAL	METRIC
1 cubic inch	16.4 cubic centimeters
1 cubic foot (=1728 cubic inches)	0.0283 cubic metres
1 cubic yard (=27 cubic feet)	0.765 cubic metres

CAPACITY MEASURE (VOLUME)

IMPERIAL	METRIC
1 (imperial) fl. oz. (=1/20 imperial pint)	28.41 ml
1 (US liquid) fl. oz. (=1/16 US pint)	29.57 ml
1 (imperial) gill (=1/4 imperial pint)	142.07 ml
1 (US liquid) gill (=1/4 US pint)	118.29 ml
1 (imperial) pint (=20 fl. imperial oz.)	568.26 ml
1 (US liquid) pint (=16 fl. US oz.)	473.18 ml
1 (US dry) pint (=1/2 quart)	550.61 ml
1 (imperial) gallon (=4 quarts)	4.546 litres
1 (US liquid) gallon (=4 quarts)	3.785 litres
1 (imperial) peck (=2 gallons)	9.092 litres
1 (US dry) peck (=8 quarts)	8.810 litres
1 (imperial) bushel (=4 pecks)	36.369 litres
1 (US dry) bushel (=4 pecks)	35.239 litres

MASS (WEIGHT)

IMPERIAL	METRIC
1 grain	0.065 gram
1 dram	1.772 grams
1 ounce (=16 drams)	28.35 grams
1 pound (=16 ounces =7000 grains)	0.45359237 kilogram
1 stone (=14 pounds)	6.35 kilograms
1 quarter (=2 stones)	12.70 kilograms
1 hundredweight (=4 quarters =112 lb.)	50.80 kilograms
1 (long) ton (=2240 lbs)	1.016 tonnes
1 (short) ton (=2,000 lbs)	0.907 tonne

METRIC → IMPERIAL

LINEAR MEASURE (LENGTH/DISTANCE)

METRIC	IMPERIAL
1 millimetre	0.0394 inch
1 centimetre (=10 mm)	0.3937 inch
1 decimetre (=10 cm)	3.937 inches
1 metre (=100 cm)	1.0936 yards
1 decametre (=10 m)	10.936 yards
1 hectometre (=100 m)	109.36 yards
1 kilometre (=1000 m)	0.6214 miles

SQUARE MEASURE (AREA)

METRIC	IMPERIAL
1 square centiremetre	0.1550 sq. inch
1 square metre (=10 000 sq. cm)	1.1960 sq. yards
1 are (=100 sq. metres)	119.60 sq. yards
1 hectare (=100 ares)	2.4711 acres
1 square kilometer (=100 hectares)	0.3861 sq. mile

CUBIC MEASURE (VOLUME)

METRIC	IMPERIAL
1 cubic centimeter	0.0610 cubic inch
1 cubic metre (one million cu. cm)	1.308 cubic yards

CAPACITY MEASURE (VOLUME)

METRIC	IMPERIAL
1 millilitre	0.002 (imperial) pint
1 centilitre (=10 ml)	0.018 pint
1 decilitre (=100 ml)	0.176 pint
1 litre (=1000 ml)	1.76 pints
1 decalitre (=10 l)	2.20 (imperial) gallons
1 hectolitre (=100 l)	2.75 (imperial) bushels

MASS (WEIGHT)

METRIC	IMPERIAL
1 milligram	0.015 grain
1 centigram (=10 mg)	0.154 grain
1 decigram (=100 mg)	1.543 grain
1 gram (=1000 mg)	15.43 grain
1 decagram (=10 g)	5.64 drams
1 hectogram (=100 g)	3.527 ounces
1 kilogram (=1000 g)	2.205 pounds
1 tonne (=1000 kg)	0.984 (long) ton

ACCURACY DISCLAIMER

Although care has been taken to ensure the accuracy, entirety and reliability of the information provided, Super Slings Inc. cannot guarantee 100% correctness and assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Super Slings Inc assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use.

IN NO EVENT SHALL SUPER SLINGS INC. BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION PROVIDED IN THIS CATALOG

WARNINGS & CAUTIONS

All products are sold subject to the following warnings and cautions and with the express understanding that the purchaser and/or user are thoroughly familiar with their proper use. Super Slings Inc. assumes no responsibility for the use, misuse or misapplication of its products.

Working Load Limit:

The working load limit (WLL) is the maximum load a component or assembly should be subjected to during routine use. The working load limit is based on a load being uniformly applied in a straight line pull.

Breaking Strength:

This is the minimum load a component or assembly will withstand before failure. Do NOT use breaking strength for design or rating purposes. Use working load limit instead.

Shock Loads:

Shock loads are loads which exceed the static load caused by rapid change of movement, such as jerking, impacting or swinging of loads. Working load limits will not apply.

Matching components:

All attachments used with chain and wire rope must be of suitable material, type and strength to provide adequate safety protection. Attachments should have working load limits at least equal to the other components with which they are used.

Inspection:

No product can operate indefinitely at its rated capacity. Wire rope, chain and any other rigging hardware must all be inspected regularly for visible damage, or distortion, elongation, corrosion, cracks, nicks or abrasions which may cause failure or reduce the strength or ability of the products to perform.

RETURN POLICY

At Super Slings Inc., we believe in offering the very best in value, quality, service and selection! If an item you purchase from us does not meet your expectations, you may return most items for a refund or exchange within 30 days from date of purchase.

All returns require prior authorization and must be returned in the original packaging, including inner plastic liners, with all accessories and documentation, including manuals, warranties and a copy of the original purchase invoice. Only new merchandise in its original packaging, with no markings on the packaging may be returned. The only exception to this restriction is if you are returning items that are damaged, in order to have them replaced with an identical item. In this case, original tags and packaging is not required.

To request a Return Merchandise Authorization (RMA) number, please call our office and ask for the RMA number, which you must clearly write on the invoice copy which you will return with the merchandise. Keep the RMA number, and reference it when calling to check the status of your return. Incomplete or unauthorized returns may be refused and returned to you. We cannot accept returns of any items that we consider to be a special product or any item which has been modified in any way from our standard design.

We recommend using a traceable method of shipping if you must ship us your return and should be insured against loss and damage. Super Slings Inc. will not be responsible for returns lost during delivery. Credits for merchandise WILL NOT include the original or return freight charges. Items shipped freight free or freight included will be credited minus an allowance to cover all packing and freight. Any shipping and / or handling charges on the original order WILL NOT be refunded. Super Slings Inc. will refund shipping costs or freight costs only if the return is a result of our error or the item is defective. We will also pay the return shipping cost of the return is a result of our error.

At our discretion, we may levee a restocking fee of up to 25% of the cost of items returned. Merchandise being returned due to our error will not be subject to this restocking fee.

super slings inc.

20 YEARS of

Secure Solutions

SECTION 2
RIGGING HARDWARE

SECTION 2 - RIGGING HARDWARE

super slings inc.

20 YEARS of

Secure Solutions

SHACKLES & TURNBUCKLES

Green Pin® traces its origin back to 1922: in that year Dirk van Beest started to manufacture the shackles that would later be branded Green Pin®. He did so at the home of the Dutch dredging industry; Sliedrecht – close to the Port of Rotterdam. Dirk van Beest – a diligent, hardworking man – was passionate in creating 100% failsafe products in combination with his full-service attitude. With his focus the company was able to grow quickly, in tandem with the international growth of the Dutch dredging and maritime industry.
Today, Green Pin® is still part of the family-owned Van Beest Group, which is still headquartered in Sliedrecht in The Netherlands and has branches in the United States (Houston and Chicago), France, Germany and Norway. Through its parent company, Green Pin® is a member of various industry organizations such as LEEA and AWRF, and offers a wide range of rigging and lifting products.

GREEN PIN® PRODUCTS

Shackles

Synthetic Chain

Steel Chain

Sockets

Turnbuckles

Links

Hooks

Shortening Clutches

Wire Rope Clips

Blocks

Lifting Clamps

Accessories

Eye Bolts / Eye Nuts

Swivel Hoist Rings

Swivels

Load Binders

WHY GREEN PIN?

Green Pin®

Green Pin® is the leading brand for premium quality lifting and lashing equipment including shackles, turnbuckles, hooks and fibre link chain.

What makes it the leading brand? Only Green Pin® combines innovative, high quality products with industry leading availability and comprehensive, worldwide support. This unique combination means that with Green Pin® products you are always ready to get the job done. You are Green to Go. Discover the benefits of using Green Pin® below.

Green To Quality: Work Easier With Green Pin® Products That Are Produced To Perfection.

To ensure reliability and quality, Green Pin® products tick all the boxes:

- Developed with a clear view of what the customer needs. When cost effectiveness was at the top of our customers' agendas, we developed the Green Pin® **Power Sling® Shackle** which saves users up to 20% on wire rope costs, more than any competing product.
- Raw materials come from high quality suppliers who guarantee full traceability. Our steel, for example, is sourced from leading, fully certified European mills. And our **Tycan®** high performance chain is manufactured from 100% **Dyneema®**
- Automated production facilities, reduce the margins of error compared to other production methods (see the Green Pin® production process at www.greenpin.com/why-green-pin
- Many products conform to leading standards and can be supplied with certifications from class societies such as DNV GL and Lloyd's.

Green To Speed: Order Green Pin® Products From Stock Worldwide

Producing a good, reliable product is simply not good enough. Customers must be able to obtain the right products just when they need it: the success of the project depends on it. To ensure that success, Green Pin® offers unrivalled availability of its products:

- The wide Green Pin® assortment has an industry leading stock availability of 99%.
- Over 900 distributors in more than 90 countries stock GP products. All were carefully selected for their sling making expertise, the value-added services they provide and their stockholding capacity.
- For highly specialized products which a distributor does not have in stock, we airfreight it to a destination airport of choice within a maximum of 72 hours (*NZ/Aust) from one of our three distribution centres (Houston, Chicago and The Netherlands).

Green to Service: Rely on the best equipment and support. Guaranteed.

Green Pin® products are made to meet the demands of the most complex lifting projects in the world. Such projects usually require product information of the utmost precision which often leads to more in depth questions about the characteristics and application of Green Pin® products. Green Pin® therefore offers:

- CAD-drawings and technical documentation that are distinguished by their precision and accuracy.
- A Technical Help desk that provides comprehensive answers swiftly.
- Technical Training providing insights into the benefits of products and the different ways to apply them

The Green Pin® Difference

Producing Shackles Through Upset-Forging

Van Beest Green Pin® Shackles are manufactured using an upset forging process which produces no drop forge flashing marks which may damage attaching slings.

The Benefits of Hot Upset Forging

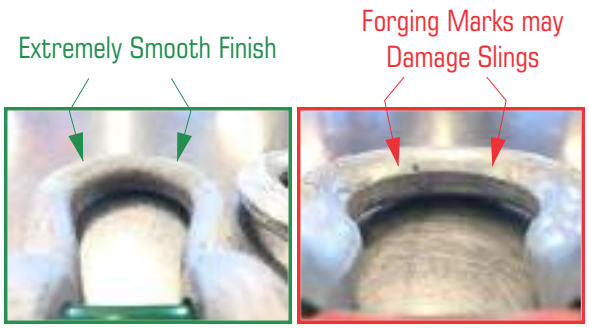
- Inherent strength retained by containing metal grain flow produces greater breaking strength
- No stress areas created where material size needs to be reduced.
- No brittleness or porosity concerns (sometimes prevalent in the casting process).
- No concern of fractures at weld joints (as could occur on fabrications).

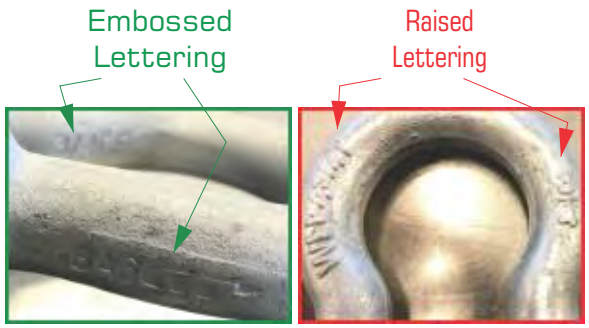





Save your slings

Van Beest® shackles have embossed information vs. raised sharp lettering which is ideal for synthetic lifting slings. These shackles also have a super smooth galvanized finished along and completely round body due to the upset forging process.





Green Pin® Shackles




Applications

Shackles are used in lifting operations and static systems as removable links to connect (steel) wire rope, chain and other fittings. Screw pin shackles are used mainly for nonpermanent applications. Safety bolt and fixed nut shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin. Chain or Dee shackles are mainly used on one-leg systems whereas anchor- or bow shackles are mainly used on multi-leg systems.

Ranges

Green Pin® offers a wide range of bow and Dee shackles for a variety of applications. The range stretches from WLL 0.33t to 3000t. This provides our customers with a very extensive range to choose a shackle that suits their application best. Most of the shackles are directly available from stock. Furthermore, shackles can be supplied to many standards such as the US Federal Specification RR-C-271, EN 13889, British Standard 3032, DIN 82101 etc. Additionally we offer a wide range of general commercial shackles, which are not suitable for lifting but merely for fixing purposes. Van Beest offers a wide range of other shackles to complement the Green Pin® assortment.

Design

All Green Pin® shackles have a specific design for a specific application. Some examples are:

- Green Pin Super® Shackles which are made out of grade 8 steel. They are designed to be used in confined spaces. The higher material strength is used to reduce the physical dimensions of the product whilst maintaining its WLL and functionality;
- Green Pin Polar® Shackles are for use in extreme climatic conditions with material properties guaranteed up to temperatures of -60°C;
- Green Pin Power Sling® Shackles are designed to provide a better radius to the sling it lifts. A bigger radius increases the life span of the sling significantly;
- Another example of a functional design is a shackle pin with a square sunken hole. Because of the flat head there is less risk of the shackle getting caught in a net or a line. These are all examples of highly functional designs, to optimize the use of the Green Pin ® shackles in daily use.

Shackles used for lifting applications are generally marked with:

- Working Load Limit - e.g. WLL 25 T
- manufacturer's symbol - e.g. GP
- traceability code - e.g. HA indicating a particular batch
- steel grade - e.g. 4, 6, 8
- CE conformity code (Conformité Européenne) - CE

Green Pin® Shackles meet all relevant requirements of the Machinery Directive 2006/42/EC and its latest amendments.

Finish

Shackles supplied by Green Pin® can be hot dipped galvanized, electro-galvanized, painted or self colored, depending on the type of shackle and its application. You can find the finish of each type of shackle in the product section further on.

Certification

Upon request at time of order, all load rated shackles can be supplied with any of the following documents or certificates:

Free of Charge:

2.1 2.2 3.1 MTC a DNV GL 2.7-1 a DNV GL 2.7-1 b DNV GL 0377 DNV GL 0378 CE ABS PDA ABS MA

With additional Charges:

MTC b MPI a MPI b US a US b DNV GL CG3 BL

On request the proof load test certificates can be supplied surveyed by an official classification society, such as LROS, DNV GL, BV, ABS or any other officially certified inspection body. Please verify your certification requirements with Green Pin® at the time of order.

Green Pin® Bow Shackles, Green Pin® Dee Shackles and Green Pin Polar® Shackles are DNV GL type approved. These shackles carry two DNV GL type approval certificates that show compliance with:

- DNV GL-ST-E271-2.71 Offshore Containers
- EN 12079-2 Offshore containers and associated lifting sets
- EN 13889 Forged steel shackles for general lifting purposes
- IMO/MSC Circular 860
- US Federal Specification RR-C-271
- DNV GL-ST-E273 Portable Offshore Units
- DNV GL Standard No. 0378 Offshore and Platform Lifting Appliances

The certificates TAS000011V and TAS00001H7 confirm that Green Pin® standard shackles and Green Pin Polar® Shackles meet the requirements set in the latest version of the above mentioned DNV GL standards. The Green Pin Power Sling® Shackles are DNV GL type approved. This DNV GL type approval certificate is in compliance with:

- DNV GL Standard for Certification No. 0377 Standard for Shipboard Lifting Appliances
- DNV GL Standard for Certification No. 0378 Offshore and Platform Lifting Appliances

The TAS000018M certificate confirms that Green Pin Power Sling® Shackles meet the requirements stated in the latest version of the above-mentioned DNV standards.

Green Pin® Shackles G-4161, G-4163, G-4151, G-4153, G-5163, G-5261 and G-5263 are ABS Type Approved. The shackles have a Product Design Assessment Approval and a Manufacturer Assessment Approval Certificate. The shackles are type approved to be used as lifting gear or to be used as lifting device.

Green Pin® Shackles with RFID

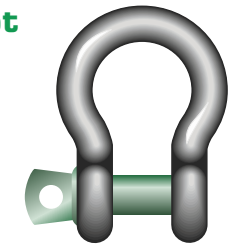
All lifting equipment requires regular inspection. Tracking and filing reports on paper can be a time consuming task. Green Pin® offers a solution with an easily accessible RFID (Radio Frequency Identification) chip in our range of Green Pin® Shackles. This RFID chip responds to a radio-signal that is transmitted by a reader. Each chip has a unique number and this number links the individual shackle to a record in an inspection management system. The chips are impact resistant and durable and they are countersunk into the end of the shackle pin. The chips are NFC (Near Field Communication) compatible, allowing users to scan, identify and track the shackles with the latest generation of NFC compatible smart phones.

Green Pin® offers the option of RFID implementation in all Green Pin® shackles with a minimum pin diameter of 28mm.

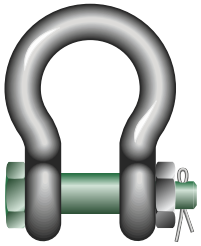
- RF Protocol : ISO 15693
- Operating Frequency : HF – 13.56 MHZ

Standard Shackles Available at Super Slings

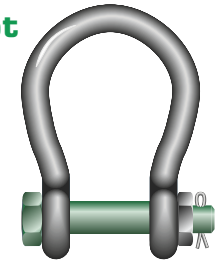
G-4161 Green Pin®
Bow Shackle SC
0.33t - 65t
GPGHBB



G-4163 Green Pin®
Bow Shackle BN
0.5t - 85t
GPGHMB

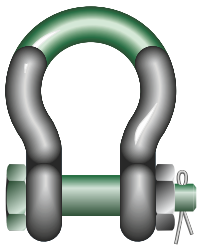


G-4263 Green Pin®
Big mouth® Bow Shackle BN
4.75t - 75t
ASGHMB

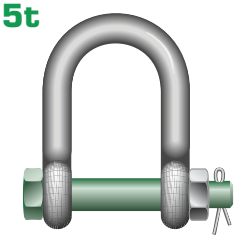


G-5261 Green Pin®
Super® Bow Shackle SC
3.3t - 12.5t
SUGHBB

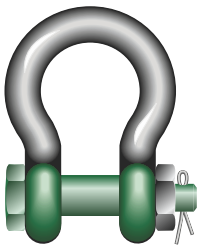
G-5263 Green Pin®
Super® Bow Shackle BN
3.3t - 175t
SUGHMB



G-4553 Green Pin®
Big mouth® Dee Shackle BN
4.6t - 15.5t
LDGDMB



G-5163 Green Pin®
Polar® Bow Shackle BN
2t - 85t
POGHMB

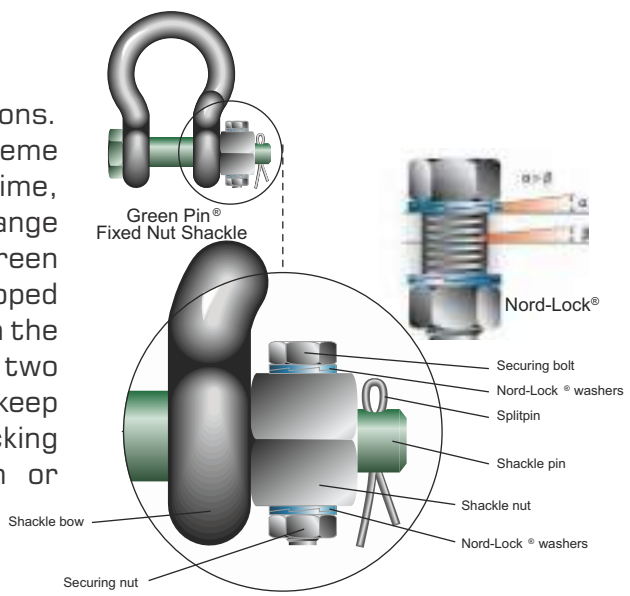


G-6033 Green Pin®
Sling Shackle BN
7t - 1,550t
SLGPF

P-5461 Green Pin®
Web Sling Shackle SC
3.25t - 8.5t
POPWBB

Fixed Nut Shackles

Shackles can also be used in more permanent constructions. These can be subject to dynamic loads and/or extreme vibrations. In such applications there is a risk that, over time, the nut may start to move over the thread. We offer our range of Green Pin® Fixed Nut Shackles to avoid this risk. Green Pin® Standard, Polar® and Super® shackles can be equipped with an extra AISI 316 securing bolt that is drilled through the nut and shackle pin. This securing bolt is fastened with two sets of Nord-Lock® washers and a securing nut. This will keep the shackle nut in position. The Nord-Lock wedge-locking washers, lock, when subjected to extreme vibration or dynamic loads.



Instructions for Use

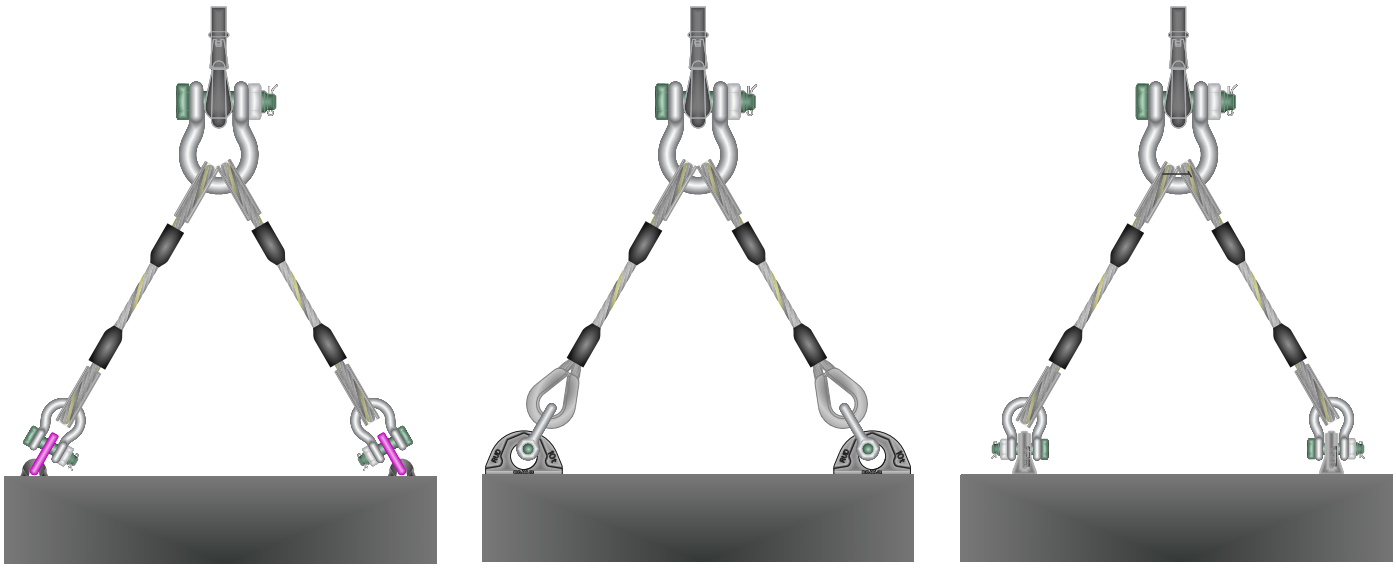
Select the correct type and WLL of the shackle for the particular application. If extreme circumstances or shock loading may occur, this must be taken into account when selecting the correct shackle.

Shackles should be inspected before use to ensure that:

- all markings are legible;
- the body and pin are both of the same brand and type;
- the body and pin are both of the correct size;
- never use a safety bolt type shackle without using a securing pin;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the threads of the pin and the body are undamaged;
- the body and the pin are not distorted or unduly worn;
- the body and pin are free from nicks, gouges, cracks and corrosion;
- shackles may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a shackle by machining, welding, heating or bending as this will affect the WLL.

Assembly

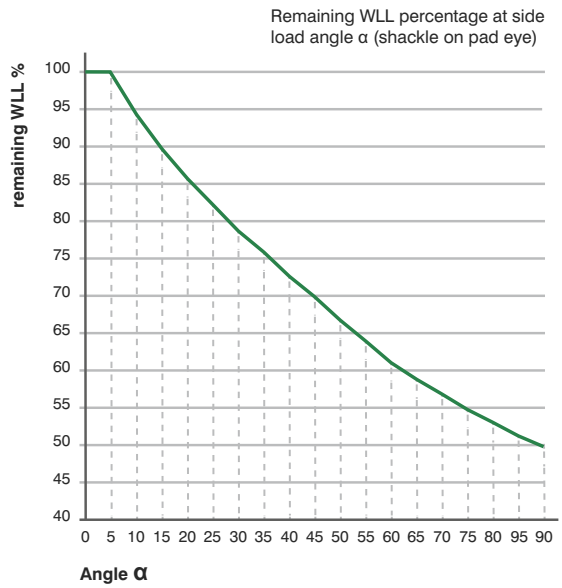
Ensure that the pin is correctly screwed into the shackle eye: tighten it hand-tight, then secure it using a wrench or other suitable tool so that the collar of the pin is fully seated against the shackle eye. Ensure that the pin is of the correct length so that it penetrates the full depth of the threaded eye and the collar of the pin touches the surface of the shackle eye. Incorrect positioning of the pin may be caused by a bent pin, too tight fitting thread or misalignment of the pin holes. Do not use the shackle under these circumstances. Never replace a shackle pin except with one of the same brand, type, make and size to ensure the shackle maintains its original WLL. Make sure that the shackle is supporting the load correctly, i.e. along the axis of the shackle body centerline. Avoid bending loads, unstable loads and overloads.

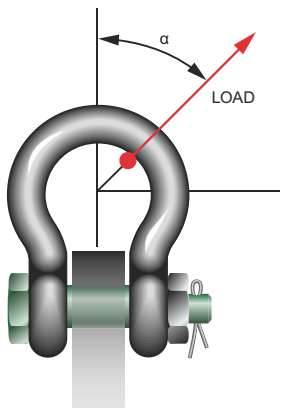


ONLY WITH REDUCED WLL

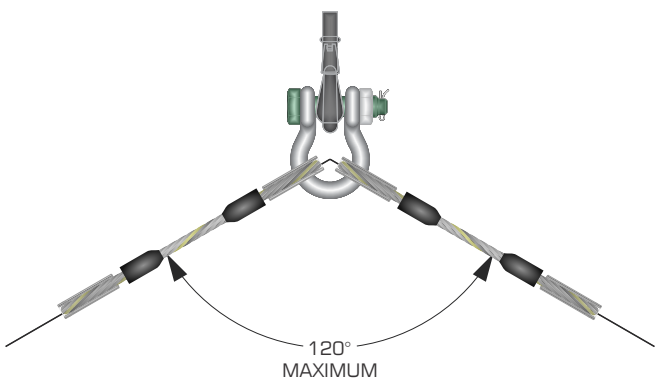
Side Loads

Side loads should be avoided, as the products are not designed for this purpose. If side loads cannot be avoided, the WLL of the shackle must be reduced:



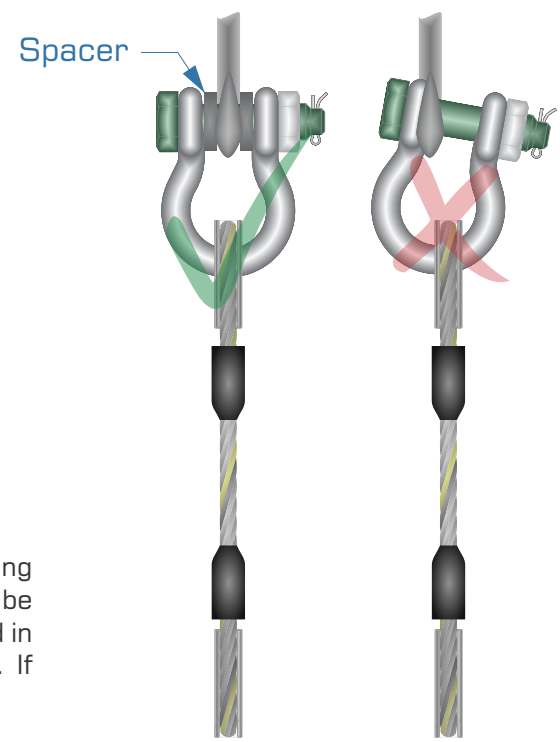


This graph is valid for almost all Green Pin® shackles, except for ROV Shackles (P-5363 and P-5367). These shackles are for in-line use only. The graph is also not valid for Green Pin® Sling Shackles (P-6033 and P-6013) and Green Pin Power Sling® Shackles (P-6043). If you want to apply a side load on a Green Pin® Sling Shackle or a Green Pin Power Sling® Shackle, please contact Van Beest. In-line lifting is considered to be a load perpendicular to the pin and in the plane of the bow. The load angles in the graph represent the deviating angles from in-line loading. When connecting shackles to multi-leg slings, consider the effect of the angle between the legs of the sling. As the angle increases, so does the load in the sling leg and consequently in any shackle attached to that leg.

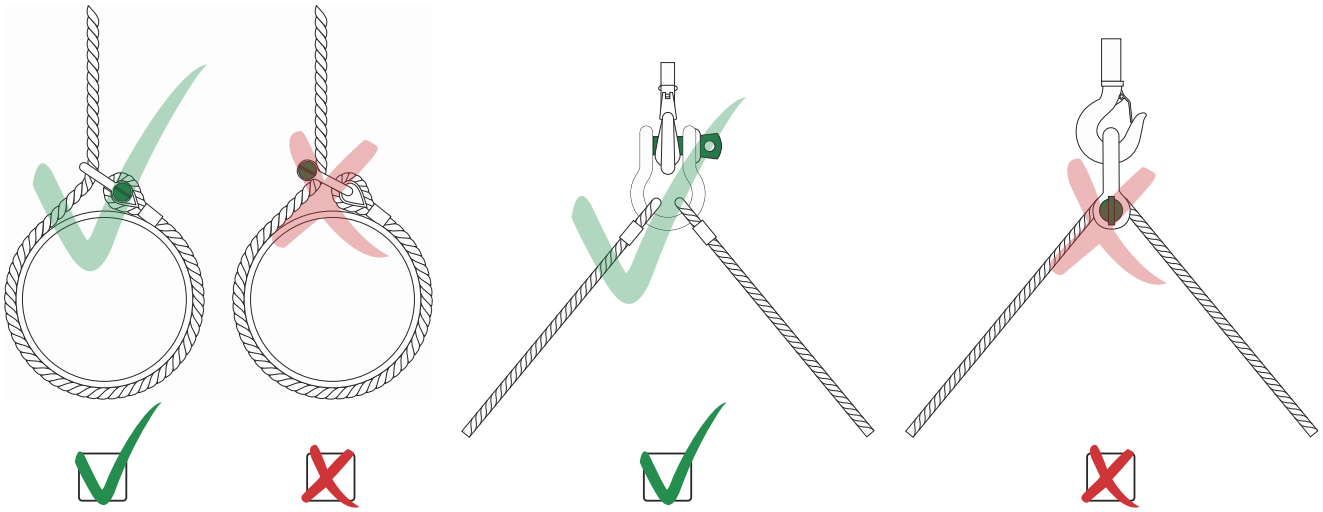


When a shackle is used to connect two slings to the hook of a lifting device, a bow type shackle must be used. The slings must be connected to the shackle body, and the shackle pin must be placed in the hook. The angle between the slings should not exceed 120°. If symmetrically loaded the shackle may be used to the full WLL.

To avoid eccentric loading of the shackle a loose spacer may be used on either end of the shackle pin. Do not reduce the width between the shackle jaws by welding washers or spacers to the inside of the shackle eyes or by narrowing the jaws, as this will affect the WLL of the shackle.



When a shackle is attached to the top block of a set of wire rope blocks the load on this shackle is increased by the value of the hoisting effect.
Avoid applications where the load moves over the shackle pin; the pin may rotate and possibly be unscrewed. If moving of the load cannot be avoided, or when the shackle is to be left in place for a prolonged period or where maximum pin security is required, use a shackle with a safety bolt, nut and cotter pin or a shackle with a fixed nut.

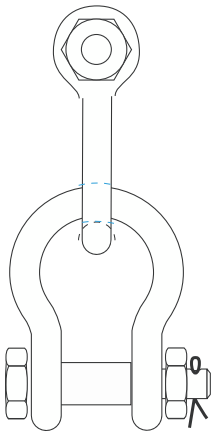


Shackles should not be immersed in acidic solutions or exposed to acidic fumes or other chemicals that are potentially harmful for the shackle.

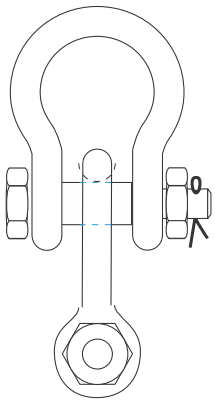
Point Loading

Shackles are used in lifting- and static systems as removable links to connect (steel) wire rope, chain and other fittings. Most of the times the load bearing component that connects to a shackle is of a rounded shape. Point loading of shackles during lifting operations is allowed but the minimum dimension of the rounded component to be lifted should be equal to or bigger than the bow size of the shackle being used. The maximum load of the configuration is limited by the component with the lowest WLL. Increasing the contact area by using bigger diameters and/or pad eyes can be an advantage. Sharp edges should be avoided. Green Pin® shackles can also be used in below configurations. The maximum load of the configuration is limited by the component with the lowest WLL.

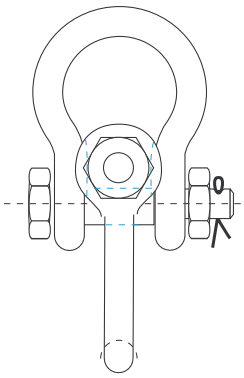
Bow-Bow



Bow-Pin

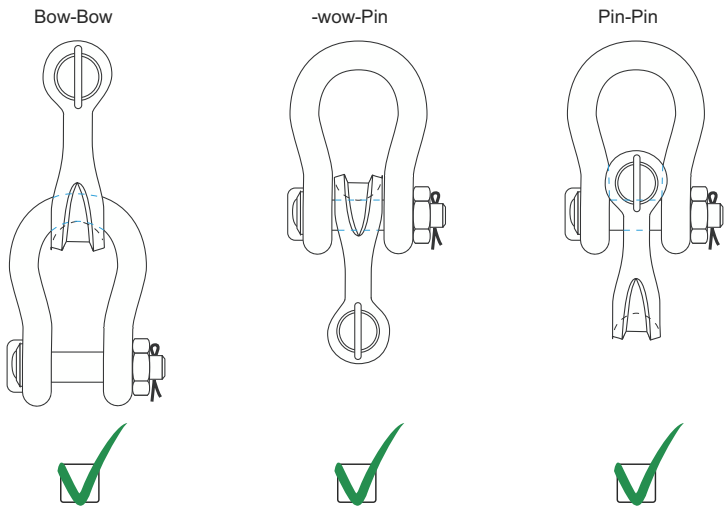


Pin-Pin



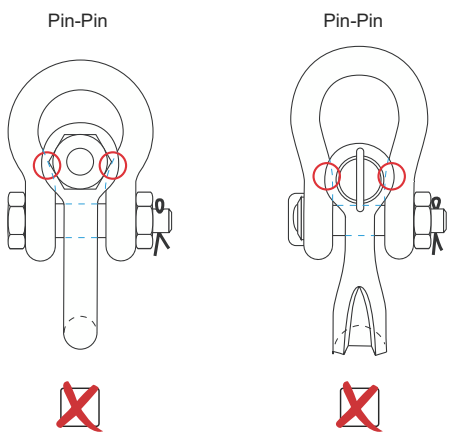
Lift it up, Tie it down, Pull it around

The crown of a Green Pin® Sling Shackle (P-6033) is wider than that of a standard shackle, thus creating a bigger bearing surface. This improves the lifetime of the sling. Green Pin® Sling shackles can also be used in below configurations. The maximum load of the configuration is limited by the component with the lowest WLL. For information about point loading of the Green Pin Power Sling® Shackle (P-6043) please contact sales@superslings.ca



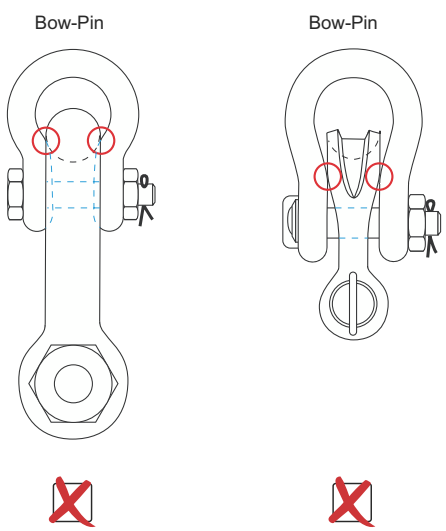
Pin- Pin configuration

When the shackle eyes touch and the pins do not bear properly, the configuration should not be used.



Bow- Pin configuration

When the shackle body of the inner shackle touches the shackle eyes of the outer shackle and body and pin do not bear properly, the configuration should not be used.



Temperature

If extreme temperature situations occur, the following load reductions must be taken into account:

Temperature	Reduction for elevated temperatures New Working Load Limit
Up to 200°C	100% of original Working Load Limit
200 - 300°C	90% of original Working Load Limit
300 - 400°C	75% of original Working Load Limit
> 400°C	NOW ALLOWED

The rating of shackles to EN 13889 assumes the absence of exceptionally hazardous conditions. Exceptionally hazardous conditions include offshore activities, the lifting of persons and the lifting of potentially dangerous loads such as molten metals, corrosive materials or fissile materials. In such cases a competent person should assess the degree of hazard and the WLL should be reduced accordingly.

Inspection

Shackles must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and more frequently when the shackles are used in severe operating conditions.

CAD drawings

Green Pin® products are used in a wide variety of applications; from a simple lift to move an item from A to B in a workplace, to very complex lifting systems for offshore applications. In the latter case, engineers use computer programs like AutoCAD to develop a 2D or 3D specification of the entire system. For standard products engineers normally use a CAD drawing library. The use of these kinds of libraries saves considerable design time and costs. And of course it prevents mistakes that may occur whilst copying data from a product catalogue into the design program.
To help engineers, Green Pin® has made CAD drawings available in various formats on the Green Pin® website (www.greenpin.com). These drawings can be integrated in almost every design program. Further details can be obtained through our website: www.greenpin.com/cad

CAD In the product chapters the CAD icon indicates that cad drawings are available.

RFID

RFID Green Pin® offers an identification solution with an easily accessible Radio Frequency Identification (RFID) chip in our range of Green PIN ® Shackles. The RFID icon in the product chapters indicates that the products can be equipped with a countersunk RFID chip.

More Information

For some products we provide detailed technical information on our website. In the product chapters the **INFO** icon indicates there is extra information on this product available at www.superslings.ca or www.greenpin.com/FAQ

Green Pin® Bow Shackle SC - G-4161

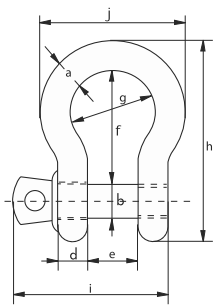
Standard bow shackle with screw collar pin

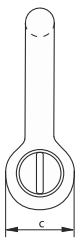
Product details

Product code:	G-4161
Material:	bow and pin high tensile steel, Grade 6, quenched and tempered
Safety factor:	MBL equals 6 x WLL
Finish:	hot dipped galvanized
Temp. range:	-40°C up to +200°C
Certification:	EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271, Type IVA, Class 3, Grade A. From 2 t and upward these shackles comply with ASME B30.26

Description

The Green Pin® Bow Shackle SC is a bow shackle with a screw collar pin. The screw pin enables quick (dis)assembly which makes the shackle perfect for rigging activities in which assembly and disassembly occur relatively frequently. The Green Pin® Bow Shackle SC can be used for both one-leg and multi-leg systems. Due to the galvanization of the shackle its long-term durability is assured. The shackle's design reduces the wear of (wire) rope as the screw thread is hidden in a chamber. Particularly important for use offshore, the Green Pin® Bow Shackle SC conforms to a wide range of certifications from class societies such as DNV GL. The shackle is available in a range with a working load limit from 0.33 up to 65 ton.





Highlights

- Screw pin for quick (dis)assembly
- Galvanization assures long-term durability
- Suitable for both one-leg and multi-leg systems
- Conforms to wide range of certifications (e.g. DNV GL)
- Superior stock availability of 99%

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the shackle warning information found in the hardware section of this catalogue

CAD RFID

Item No.	WLL	DIMENSIONS [in.]										Net weight
	Tonne	A	B	C	D	E	F	G	H	I	J	lbs
GPGHBB05	0.33	0.20	0.24	0.47	0.20	0.37	0.87	0.63	1.42	1.16	1.02	0.04
GPGHBB06	0.50	0.28	0.31	0.65	0.28	0.47	1.14	0.79	1.91	1.50	1.34	0.11
GPGHBB08	0.75	0.35	0.39	0.79	0.35	0.53	1.26	0.87	2.20	1.83	1.57	0.22
GPGHBB10	1.00	0.39	0.43	0.89	0.39	0.67	1.44	1.02	2.50	2.13	1.81	0.31
GPGHBB11	1.50	0.43	0.51	1.04	0.43	0.75	1.69	1.14	2.91	2.34	2.01	0.42
GPGHBB13	2.00	0.53	0.63	1.34	0.51	0.87	2.01	1.26	3.50	2.87	2.28	0.79
GPGHBB16	3.25	0.63	0.75	1.57	0.63	1.06	2.52	1.69	4.33	3.50	2.95	1.39
GPGHBB19	4.75	0.75	0.87	1.81	0.75	1.22	2.99	2.01	5.08	4.06	3.50	2.23
GPGHBB22	6.50	0.87	0.98	2.05	0.87	1.42	3.27	2.28	5.67	4.69	4.02	3.31
GPGHBB25	8.50	0.98	1.10	2.32	0.98	1.69	3.74	2.68	6.46	5.39	4.65	4.87
GPGHBB28	9.50	1.10	1.26	2.60	1.10	1.85	4.25	2.95	7.28	6.02	5.16	6.97
GPGHBB32	12.00	1.26	1.38	2.83	1.26	2.01	4.53	3.27	7.91	6.69	5.79	9.50
GPGHBB35	13.50	1.38	1.50	3.15	1.38	2.24	5.24	3.62	8.94	7.32	6.38	12.30
GPGHBB38	17.00	1.50	1.65	3.46	1.50	2.36	5.75	3.90	9.80	7.99	6.89	16.38
GPGHBB45	25.00	1.77	1.97	4.06	1.77	2.91	7.01	4.96	11.81	9.57	8.50	27.56
GPGHBB50	35.00	1.97	2.24	4.37	1.97	3.27	7.76	5.43	13.03	10.71	9.37	37.92
GPGHBB57	42.50	2.24	2.56	5.12	2.24	3.74	8.74	6.30	14.84	12.20	10.79	57.98
GPGHBB65	55.00	2.56	2.76	5.71	2.56	4.13	10.24	7.09	17.05	13.54	12.21	82.89

Green Pin® Bow Shackle BN - G-4163

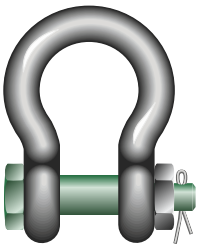
Standard bow shackle with safety bolt

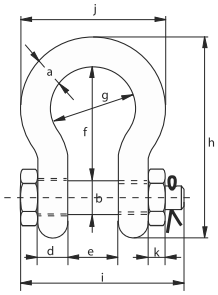
Product details

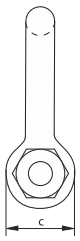
Product code:	G-4163
Material:	bow and pin high tensile steel, Grade 6, quenched and tempered
Safety factor:	MBL equals 6 x WLL
Finish:	hot dipped galvanized
Temp. range:	-40°C up to +200°C
Certification:	2.1 | 2.2 | 3.1 | MTCa | DNV-GL 2.7-1a | DNV-GL 2.7-1b | DNV-GL ST-0378 CE | ABS | Standard | EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271, Type IVA, Class 3, Grade A. From 2 t and upward these shackles comply with ASME B30.26

Description

The Green Pin® Bow Shackle BN is a bow shackle with a safety bolt. The shackle offers a double safety (split pin and safety bolt) which prevents accidental unscrewing of the pin. Long-term durability is assured due to the galvanization of the Green Pin® Bow Shackle BN. Of course, the Green Pin® Bow Shackle BN conforms to a wide range of certifications from class societies such as DNV GL. The Green Pin® Bow Shackle BN is suitable for both one-leg and multi-leg systems and is available in a range with a working load limit from 0.5 up to 85 ton.







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Highlights

- Double safety (cotter pin & safety bolt)
- Galvanization assures long-term durability
- Suitable for both one-leg and multi-leg systems
- Conforms to wide range of certifications (e.g. DNV GL)
- Superior stock availability of 99%

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the shackle warning information found in the hardware section of this catalogue

Item No.	WLL	DIMENSIONS [in.]											Net weight
	Tonne	A	B	C	D	E	F	G	H	I	J	K	lbs
GPGHMB06	0.50	0.28	0.31	0.65	0.28	0.47	1.14	0.79	1.91	1.65	1.34	0.16	0.13
GPGHMB08	0.75	0.35	0.39	0.79	0.35	0.53	1.26	0.87	2.20	1.97	1.57	0.20	0.24
GPGHMB10	1.00	0.39	0.43	0.89	0.39	0.67	1.44	1.02	2.50	2.36	1.81	0.31	0.35
GPGHMB11	1.50	0.43	0.51	1.04	0.43	0.75	1.69	1.14	2.91	2.64	2.01	0.43	0.49
GPGHMB13	2.00	0.53	0.63	1.34	0.51	0.87	2.01	1.26	3.50	3.23	2.28	0.51	0.93
GPGHMB16	3.25	0.63	0.75	1.57	0.63	1.06	2.52	1.69	4.33	3.86	2.95	0.67	1.63
GPGHMB19	4.75	0.75	0.87	1.81	0.75	1.22	2.99	2.01	5.08	4.49	3.50	0.75	2.60
GPGHMB22	6.50	0.87	0.98	2.05	0.87	1.42	3.27	2.28	5.67	5.12	4.02	0.87	3.90
GPGHMB25	8.50	0.98	1.10	2.32	0.98	1.69	3.74	2.68	6.46	5.91	4.65	0.98	5.69
GPGHMB28	9.50	1.10	1.26	2.60	1.10	1.85	4.25	2.95	7.28	6.54	5.16	1.06	8.07
GPGHMB32	12.00	1.26	1.38	2.83	1.26	2.01	4.53	3.27	7.91	7.01	5.79	1.18	10.82
GPGHMB35	13.50	1.38	1.50	3.15	1.38	2.24	5.24	3.62	8.94	7.76	6.38	1.30	14.42
GPGHMB38	17.00	1.50	1.65	3.46	1.50	2.36	5.75	3.90	9.80	7.95	6.89	0.75	18.06
GPGHMB45	25.00	1.77	1.97	4.06	1.77	2.91	7.01	4.96	11.81	9.80	8.50	0.91	30.86
GPGHMB50	35.00	1.97	2.24	4.37	1.97	3.27	7.76	5.43	13.03	10.59	9.37	1.02	41.45
GPGHMB57	42.50	2.24	2.56	5.12	2.24	3.74	8.74	6.30	14.84	11.85	10.79	1.14	62.39
GPGHMB65	55.00	2.56	2.76	5.71	2.56	4.13	10.24	7.09	17.05	12.99	12.20	1.26	87.30
GPGHMB75	85.00	2.95	3.27	6.42	2.87	5.00	12.95	7.48	20.75	14.96	13.39	1.54	136.69

Green Pin Super® Bow Shackle SC - G-5261

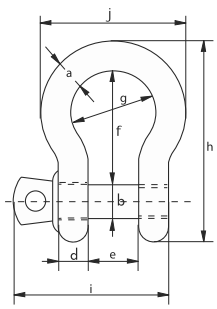
Grade 8 bow shackle with screw pin

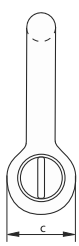
Product details

Product code	G-5261
Material	bow and pin alloy steel, Grade 8, quenched and tempered
Safety factor	MBL equals 5 x WLL
Finish	hot dipped galvanized
Temp. range	-20°C up to +200°C
Certification	2.1 | 2.2 | 3.1 | MTCa | CE | ABS
Standard	ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, Grade B

Description

The Green Pin Super® Bow Shackle SC is a grade 8 bow shackle with screw pin. The screw pin enables quick (dis)assembly which makes the shackle perfect for rigging activities in which assembly and disassembly occur relatively frequently. Handling of the Green Pin Super® Bow Shackle SC is easier due to its smaller size and weight (with an equal working load limit when compared to non-Super products). Furthermore, the long-term durability of the shackle is assured as a result of its galvanization. Wear and tear of the counter components such as wire rope is also minimized because the chamber in the shackle eye hides the screw thread. The Green Pin Super®Bow Shackle SC is available in a range with a working load limit from 3.3 up to 12.5t.





CAD RFID

Highlights

- Easier handling due to smaller size and weight (with equal WLL)
- Screw pin for quick (dis)assembly
- Galvanization assures long-term durability
- Superior stock availability of 99%
- Reliable Green Pin® quality and support

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the shackle warning information found in the hardware section of this catalogue

Item No.	WLL	DIMENSIONS [in.]										Net weight
	tonne	A	B	C	D	E	F	G	H	I	J	lbs
SUGHBB13	3.30	0.53	0.63	1.34	0.51	0.87	2.01	1.26	3.50	2.87	2.28	0.79
SUGHBB16	5.00	0.63	0.75	1.57	0.63	1.06	2.52	1.69	4.33	3.50	2.95	1.39
SUGHBB19	7.00	0.75	0.87	1.81	0.75	1.22	2.99	2.01	5.08	4.06	3.50	2.23
SUGHBB22	9.50	0.87	0.98	2.05	0.87	1.42	3.27	2.28	5.67	4.69	4.02	3.31
SUGHBB25	12.50	0.98	1.10	2.32	0.98	1.69	3.74	2.68	6.46	5.39	4.65	4.87

Green Pin Super® Bow Shackle BN - G-5263

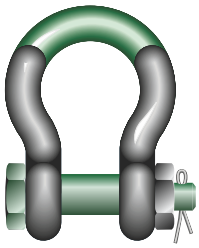
Grade 8 bow shackle with safety bolt

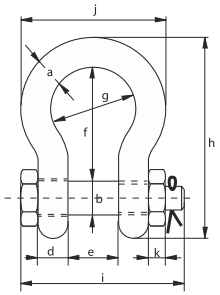
Product details

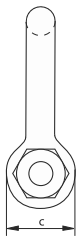
Product code	G-5263
Material	bow and pin alloy steel, Grade 8, quenched and tempered
Safety factor	MBL equals 5 x WLL
Finish	hot dipped galvanized (175 ton shackle is painted)
Temp. range	-20°C up to +200°C
Certification	2.1 | 2.2 | 3.1 | MTCa | CE | ABS
Standard	ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade B
Note	Shackles with WLL 150 t and 175 t have a round headed bolt

Description

The Green Pin Super® Bow Shackle BN is a grade 8 bow shackle with a safety bolt. Handling of the Green Pin Super® Bow Shackle BN is easier due to the smaller size and weight (with an equal working load limit when compared to non-Super products). The shackle also offers a double safety (split pin and safety bolt) which prevents accidental unscrewing of the pin. Furthermore, the long-term durability of the shackle is assured as a result of its galvanization. Wear and tear of the counter components such as wire rope is also minimized as the chamber in the shackle eye hides the screw thread. The Green Pin Super® Bow Shackle BN is available in a range with a working load limit from 3.3 up to 175t (note: sizes 150t and 175t have a round headed bolt).







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Highlights

- Easier handling due to smaller size and weight (with equal WLL)
- Double safety (cotter pin & safety bolt)
- Galvanization assures long-term durability
- Conforms to wide range of certifications (e.g. DNV GL)
- Superior stock availability of 99%

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the shackle warning information found in the hardware section of this catalogue

Item No.	WLL	DIMENSIONS [in.]											Net weight
	Tonne	A	B	C	D	E	F	G	H	I	J	K	LBS
SUGHMB13	3.30	0.53	0.63	1.34	0.51	0.87	2.01	1.26	3.50	3.23	2.28	0.51	0.88
SUGHMB16	5.00	0.63	0.75	1.57	0.63	1.06	2.52	1.69	4.33	3.86	2.95	0.67	1.61
SUGHMB19	7.00	0.75	0.87	1.81	0.75	1.22	2.99	2.01	5.08	4.49	3.50	0.75	2.62
SUGHMB22	9.50	0.87	0.98	2.05	0.87	1.42	3.27	2.28	5.67	5.12	4.02	0.87	3.81
SUGHMB25	12.50	0.98	1.10	2.32	0.98	1.69	3.74	2.68	6.46	5.91	4.65	0.98	5.64
SUGHMB28	15.00	1.10	1.26	2.60	1.10	1.85	4.25	2.95	7.28	6.54	5.16	1.06	7.94
SUGHMB32	18.00	1.26	1.38	2.83	1.26	2.01	4.53	3.27	7.91	7.01	5.79	1.18	10.91
SUGHMB35	21.00	1.38	1.50	3.15	1.38	2.24	5.24	3.62	8.94	7.76	6.38	1.30	14.59
SUGHMB38	30.00	1.50	1.65	3.46	1.50	2.36	5.75	3.90	9.80	8.54	6.89	1.34	17.88
SUGHMB45	40.00	1.77	1.97	4.06	1.77	2.91	7.01	4.96	11.81	10.24	8.50	1.57	32.63
SUGHMB57	55.00	2.24	2.24	4.61	2.24	3.27	7.76	5.43	13.43	11.93	9.92	1.81	53.35
SUGHMB70	85.00	2.76	2.76	5.63	2.76	4.13	10.24	7.09	17.20	14.29	12.60	2.20	99.43
SUGHMB83	120.00	3.27	3.27	6.38	3.27	5.00	12.95	7.48	21.06	16.73	14.02	2.60	158.73

Green Pin Polar® Bow Shackle BN - G-5163

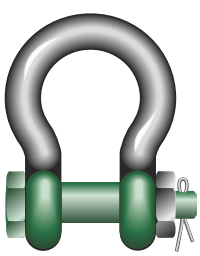
Grade 8 bow shackle with safety bolt for use under low temperatures

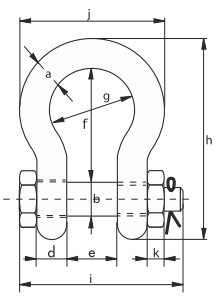
Product details

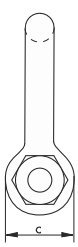
Product code	G-5163
Material	bow and pin alloy steel, Grade 8, quenched and tempered
Safety factor	MBL equals 8 x WLL, for shackles with WLL 55 and 85 tons the MBL equals 6 x WLL
Finish	hot dipped galvanized
Temp. range	**-60°C** up to +200°C
Certification	2.1 | 2.2 | 3.1 | MTCa | DNV-GL 2.7-1a | DNV-GL 2.7-1b | DNV-GL ST-0378 CE | ABS
Standard	EN 13889, ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A

Description

The Green Pin Polar® Bow Shackle BN is a bow shackle with a safety bolt that has been optimized for use in low temperatures. The shackle can be used in extreme climatic conditions; down to -60°C (-76°F). The shackle offers a double safety (split pin and safety bolt) which prevents accidental unscrewing of the pin. Long-term durability is assured due to the galvanization of the Green Pin Polar® Bow Shackle BN. Of course, the Green Pin Polar® Bow Shackle BN conforms to a wide range of certifications from class societies such as DNV GL. The Green Pin Polar® Bow Shackle BN is suitable for both one-leg and multi-leg systems and is available in a range with a working load limit from 0.5 up to 85 ton.







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Highlights

- Perfect for use in low-temperature situations **(down to -60 °C / -76°F)**
- Safety bolt: perfect for when rotation of the pin is a risk
- Conforms to wide range of certifications (e.g. DNV)
- Superior stock availability of 99%
- Suitable for both one-leg and multi-leg systems

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the shackle warning information found in the hardware section of this catalogue

Item No.	WLL	DIMENSIONS [in.]											Net weight
	Tonne	A	B	C	D	E	F	G	H	I	J	K	LBS
POGHMB13	2.00	0.53	0.63	1.34	0.51	0.87	2.01	1.26	3.50	3.23	2.28	0.51	0.93
POGHMB16	3.25	0.63	0.75	1.57	0.63	1.06	2.52	1.69	4.33	3.86	2.95	0.67	1.63
POGHMB19	4.75	0.75	0.87	1.81	0.75	1.22	2.99	2.01	5.08	4.49	3.50	0.75	2.60
POGHMB22	6.50	0.87	0.98	2.05	0.87	1.42	3.27	2.28	5.67	5.12	4.02	0.87	3.90
POGHMB25	8.50	0.98	1.10	2.32	0.98	1.69	3.74	2.68	6.46	5.91	4.65	0.98	5.69
POGHMB28	9.50	1.10	1.26	2.60	1.10	1.85	4.25	2.95	7.28	6.54	5.16	1.06	8.07
POGHMB32	12.00	1.26	1.38	2.83	1.26	2.01	4.53	3.27	7.91	7.01	5.79	1.18	10.82
POGHMB35	13.50	1.38	1.50	3.15	1.38	2.24	5.24	3.62	8.94	7.76	6.38	1.30	14.42
POGHMB38	17.00	1.50	1.65	3.46	1.50	2.36	5.75	3.90	9.80	7.95	6.89	0.75	18.06
POGHMB45	25.00	1.77	1.97	4.06	1.77	2.91	7.01	4.96	11.81	9.80	8.50	0.91	31.31
POGHMB50	35.00	1.97	2.24	4.57	1.97	3.27	7.76	5.43	13.15	10.59	9.37	1.02	43.87
POGHMB57	42.50	2.24	2.56	5.12	2.24	3.74	8.74	6.30	14.84	11.85	10.79	1.14	62.39
POGHMB65	55.00	2.56	2.76	5.71	2.56	4.13	10.24	7.09	17.05	12.99	12.20	1.26	87.30

Green Pin® Sling Shackle BN - P-6033

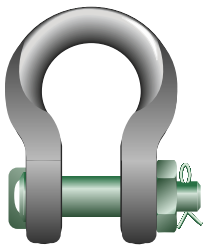
High load capacity bow shackle with safety bolt

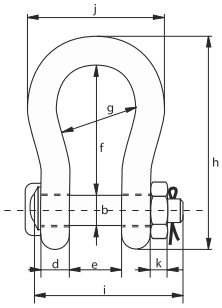
Product details

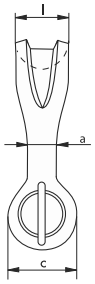
Product code	P-6033
Material	bow and pin alloy steel, Grade 8, quenched and tempered
Safety factor	MBL equals 5 x WLL
Finish	shackle bow painted silver, pin painted green (7 up to 55 ton shackles are hot dipped galvanized)
Temp. range	-20°C up to +200°C
Certification	2.1 | 2.2 | 3.1 | MTCb | LROS | MPIb | Usb | CE

Description

The Green Pin® Sling Shackle BN is a high load capacity bow shackle with a safety bolt and a fixed nut. The Sling Shackle BN is an excellent choice for heavy lifting projects due to the shape of the shackle crown. Compared to the standard Green Pin® Heavy Duty Shackles, Sling Shackles have an increased bow radius to improve your sling's resistance to wear and tear and enable you to use a lighter wire rope to lift the same heavy load. This means that by using the Green Pin® Sling Shackle BN you can save on wire rope costs (however, the Green Pin® Power Sling shackle offers even bigger savings). The shackle also offers a double safety (split pin and safety bolt) which prevents accidental unscrewing of the pin. Of course, galvanization of the Green Pin® Sling Shackle BN ensures long-term durability. A wide range of certifications is also available: Green Pin® Sling Shackles BN of 75 tons and higher include a Lloyd's proof load test certificate for example. The Green Pin® Sling Shackle BN is available in a range with a working load limit from 7 up to 1550 tons.







Highlights

- Saves on cost of wire/synthetic rope due to less wear
- Excellent choice for heavy lifting projects
- Double safety (cotter pin & safety bolt)
- Superior stock availability of 99%
- Conforms to wide range of certifications (e.g. DNV GL)

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the shackle warning information found in the hardware section of this catalogue

CAD RFID

Item No.	WLL	DIMENSIONS [in.]												Net weight
	Tonne	A	B	C	D	E	F	G	H	I	J	K	L	LBS
SLGPF0007	7	0.87	0.87	1.81	0.75	1.26	3.78	2.52	6.02	4.53	4.33	0.75	1.61	4.34
SLGPF0012	12.5	1.10	1.10	2.40	0.98	1.73	4.76	3.23	7.76	5.94	5.75	0.94	2.13	9.41
SLGPF0018	18	1.38	1.38	2.72	1.18	2.13	5.83	4.02	9.41	6.89	7.09	1.14	2.52	15.10
SLGPF0030	30	1.57	1.65	3.54	1.38	2.72	6.50	4.96	10.98	8.31	7.87	1.34	3.11	27.56
SLGPF0040	40	2.17	2.01	4.29	1.77	3.31	7.83	5.51	13.03	9.92	9.25	1.50	3.82	44.75
SLGPF0055	55	2.36	2.24	4.53	2.17	3.54	9.45	6.30	15.31	11.77	10.63	1.77	3.94	67.02
SLGPF0075	75	2.68	2.76	4.92	2.13	4.33	11.42	7.28	18.62	12.87	12.48	2.13	4.72	99.21
SLGPF0125	125	3.35	3.15	6.06	3.35	5.39	14.41	8.66	22.95	16.77	15.35	2.52	5.91	202.83
SLGPF0150	150	3.70	3.74	7.05	3.50	5.79	15.39	9.96	25.39	17.13	17.09	1.97	6.69	308.65
SLGPF0200	200	4.33	4.13	7.83	3.94	6.22	18.94	11.02	29.88	18.50	18.98	1.97	8.07	451.9
SLGPF0250	250	4.96	4.72	8.94	4.33	7.05	21.34	11.81	33.82	20.43	20.87	2.36	9.45	582.0
SLGPF0300	300	5.31	5.28	9.65	4.80	7.68	23.66	13.78	37.28	22.64	24.41	2.76	10.43	793.7
SLGPF0400	400	6.30	6.30	11.54	5.71	9.09	22.68	14.57	38.78	26.57	27.17	3.15	12.60	1279
SLGPF0500	500	6.69	7.09	12.91	6.30	10.35	26.81	17.72	44.53	29.45	31.10	3.54	13.35	1720

Green Pin BigMouth® Bow Shackle BN

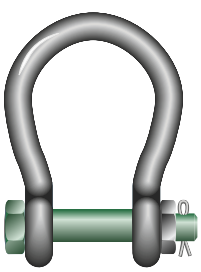
Grade 8 bow shackle with safety bolt

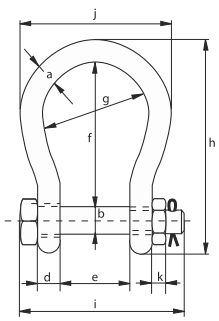
Product details

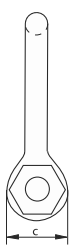
Product code	G-4263
Material	bow and pin alloy steel, Grade 8, quenched and tempered
Safety factor	MBL equals 6 x WLL
Finish	hot dipped galvanized
Temp. range	-20°C up to +200°C
Certification	2.1, 2.2, 3.1, MTCa, CE

Description

The Green Pin Big mouth® Bow Shackle BN is a grade 8 shackle with a safety bolt and a wider shackle mouth. The wider shackle mouth enables you to connect the shackle to a connecting point (e.g. a pad eye) which is wider than usual. The shackle also offers a double safety (split pin and safety bolt) which prevents accidental unscrewing of the pin. Long-term durability is assured due to the galvanization of the Green Pin Big mouth® Bow Shackle BN. Of course, the Green Pin Big mouth® Bow Shackle BN conforms to a range of certifications. The shackle is suitable for both one-leg and multi-leg systems and is available in a range with a working load limit from 4.75 up to 75 ton.







Highlights

- Perfect for use with wide connecting points due to wide shackle mouth
- Ideal for towing operations
- Galvanization assures long-term durability
- Suitable for both one-leg and multi-leg systems
- Superior stock availability of 99%

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the shackle warning information found in the hardware section of this catalogue

CAD RFID

Item No.	WLL	DIMENSIONS [in.]											Net weight
	Tonne	A	B	C	D	E	F	G	H	I	J	K	LBS
ASGHMB22	4.75	0.87	0.98	2.05	0.87	2.48	4.41	3.46	6.81	6.18	5.20	0.87	4.59
ASGHMB25	6.50	0.98	1.10	2.32	0.98	2.95	5.31	4.13	8.03	7.20	6.10	0.98	6.92
ASGHMB28	8.50	1.10	1.26	2.60	1.10	3.23	5.83	4.53	8.86	8.07	6.73	1.06	9.61
ASGHMB32	9.50	1.26	1.38	2.83	1.26	3.54	6.38	4.96	9.76	8.82	7.48	1.18	13.12
ASGHMB35	12.00	1.38	1.50	3.11	1.38	3.94	7.09	5.51	10.79	9.65	8.27	1.30	17.35
ASGHMB38	16.00	1.50	1.65	3.46	1.50	4.17	8.50	6.26	12.56	9.76	9.25	0.75	22.49
ASGHMB45	25.00	1.77	1.97	4.06	1.77	5.00	9.76	6.89	14.57	11.65	10.43	0.91	36.82
ASGHMB50	30.00	1.97	2.24	4.65	1.97	5.75	10.75	8.15	16.18	13.07	12.09	1.02	55.12
ASGHMB65	55.00	2.56	2.76	5.71	2.56	6.50	12.36	8.39	19.17	15.39	13.50	1.26	99.21
ASGHMB83	75.00	3.27	3.27	6.46	3.27	7.24	12.99	10.00	21.14	18.11	16.54	1.54	154.32

Green Pin Big mouth® Bow Shackle BN - G-4553

Grade 8 bow shackle with safety bolt

Product details

Product code	G-4553
Material	bow and pin alloy steel, Grade 8, quenched and tempered
Safety factor	MBL equals 5 x WLL
Finish	hot dipped galvanized
Temp. range	-20°C up to +200°C
Certification	2.1 | | 2.2 | 3.1 | MTCa | CE

Description

The Green Pin Big mouth® Dee Shackle BN is ideal for use in situations where a lifting point is out of reach for a standard shackle. The Big mouth® Dee Shackle BN has a wider inside width and a longer inside length enabling you to connect the shackle to non-typical lifting points. Such lifting points are for example often found in the steel sheet pile wall industry. The lifting points on the pile walls are usually set at a depth at which only a Green Pin Big mouth® Dee Shackle BN can be used to complete the job. The Green Pin Big mouth® Dee Shackle BN is fitted with a safety bolt. Long-term durability is assured due to the galvanization of the Green Pin Big mouth® Dee Shackle BN. The shackle conforms to a range of certifications. The Green Pin Big mouth® Dee Shackle BN is suitable for both one-leg and multi-leg systems and is available in a range with a working load limit from 4.6 up to 15.5 ton.

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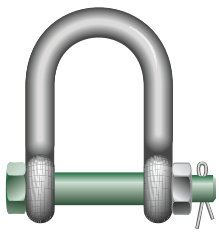
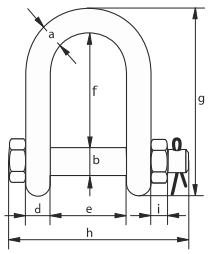




Highlights

- Longer inside length
- Perfect for lifting steel sheet pile walls
- Galvanization assures long-term durability
- Double safety (cotter pin & safety bolt)
- **Suitable for one-leg systems only**

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the shackle warning information found in the hardware section of this catalogue

Item No.	WLL	DIMENSIONS [in.]									Net weight
	Tonne	A	B	C	D	E	F	G	H	I	LBS
LDGDMB19	4.60	0.75	0.87	1.81	0.75	2.76	4.57	6.65	4.25	0.75	3.31
LDGDMB25	8.60	0.98	1.10	2.32	0.98	3.27	5.51	8.19	8.19	0.98	6.90
LDGDMB38	15.50	1.50	1.65	3.46	1.50	4.53	7.01	11.06	10.12	0.75	20.77

Green Pin® Web Sling Shackle SC - P-5461

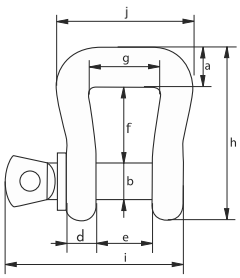
Shackle for synthetic web slings with screw collar pin

Product details

Product code	P-5461
Material	alloy steel, Grade 8, quenched and tempered
Safety factor	MBL equals 6 x WLL
Finish	painted green
Temp. range	-40°C up to +200°C
Standard	EN 1677-1

Description

The Green Pin® Web Sling Shackle SC is the ideal shackle for lifting with synthetic round and flat web slings. The optimal bearing surface of the shackle crown means the load on the web sling is distributed evenly. As a result, damage to the web sling is minimized and its lifespan extended. Wear of the web sling is also minimized as a result of the smooth finish of the shackle. Furthermore, because the load is distributed evenly on the web sling compared to a standard shackle, it is not necessary to reduce the load (WLL) on the web sling. The risk of damage to the web sling that touches the pin is also significantly reduced because the screw thread is completely hidden into the shackle eye. The product is suitable for web slings made according to EU and US standards. The shackle is available in a range with a working load limit from 3.25 up to 8.5 ton.



Highlights

- Shackle crown optimized for web sling
- Extends lifespan of web sling
- Smooth finish
- No WLL reduction on the web sling required
- Chamber in the shackle eye hides the screw thread and reduces wear

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the shackle warning information found in the hardware section of this catalogue

Item No.	WLL	DIMENSIONS [in.]										Net weight
	Tonne	A	B	C	D	E	F	G	H	I	J	LBS
POPWBB16	3.25	0.79	0.75	1.57	0.63	1.06	1.50	1.38	3.43	3.50	2.68	1.46
POPWBB19	4.75	0.94	0.87	1.81	0.75	1.22	1.89	1.81	4.17	4.06	3.35	2.43
POPWBB22	6.50	1.06	0.98	2.05	0.87	1.42	2.83	2.44	5.41	4.69	4.27	3.95
POPWBB25	8.50	1.22	1.10	2.32	0.98	1.69	3.29	3.11	6.22	5.39	5.26	6.04

More Green Pin® Shackles Available upon request

Green Pin® Theatre Shackle SC - G-4161T

Matte black bow shackle with screw collar pin

Capacities
0.33t - 8.5t

- No sheen or light reflections due to black matte finish
- Screw pin for quick (dis)assembly
- Specially developed for entertainment venues
- Chamber in the shackle eye hides the screw thread and reduces wear
- Reliable Green Pin® quality and support

Green Pin® Fishing Bow Shackle FP - G-4169

Bow shackle with square sunken hole screw pin (flush pin)

Capacities
2t - 17t

- No protruding parts so does not damage nets
- Assembled with sunken hole key
- Galvanization assures long-term durability
- Suitable for both one-leg and multi-leg systems
- Chamber in the shackle eye hides the screw thread and reduces wear

Green Pin® Fishing Dee Shackle FP - G-4159

Dee shackle with square sunken hole screw pin (flush pin)

Capacities
2t - 17t

- No protruding parts so does not damage nets
- Assembled with sunken hole key
- Galvanization assures long-term durability
- Suitable for one-leg systems only
- Chamber in the shackle eye hides the screw thread and reduces wear

Green Pin® Spring Pin ROV Shackle - P-5363

Release ROV shackle (grade 8) with spring pins

Capacities
6.5t - 85t

- Excellent choice for ROV release operations
- Two spring pins to ensure additional safety
- White coating optimizes visibility under water
- Superior stock availability of 99%
- Developed specifically for sub-sea applications

Green Pin Power Sling® Shackle BN - P-6043

High load capacity, grade 8 shackle with safety bolt

Capacities
125t - 1,250t

- Saves up to 20% on cost of wire rope
- Improves safety thanks to multiple handling points and RFID-tracking
- Unique Green Pin® design (patent pending)
- Best choice for heavy lifting projects
- Superior stock availability of 99%

Green Pin® Heavy Duty Bow Shackle BN - P-6036

High load capacity bow shackle with safety bolt

Capacities
120t - 1,500t

- Good choice for heavy lifting projects
- Suitable for both one-leg and multi-leg systems
- Superior stock availability of 99%
- Conforms to wide range of certifications
- Safety bolt: perfect for when rotation of the pin is a risk

Green Pin Polar® Heavy Duty Bow Shackle BN - P-6031

High load capacity, grade 8 bow shackle with safety bolt for use under low temperatures

Capacities
120t - 1,500t

- Perfect for use in low-temperature situations (down to -60 °C / -76°F)
- Good choice for heavy lifting projects
- Conforms to wide range of certifications
- Suitable for both one-leg and multi-leg systems

GOLD PIN SHACKLE WARNINGS AND INFORMATION

IT IS VERY IMPORTANT TO READ AND UNDERSTAND ALL INFORMATION SHOWN BEFORE USING A SHACKLE

Screw Pin Anchor Shackles

Bolt Type Anchor Shackles

Screw Pin Chain Shackles

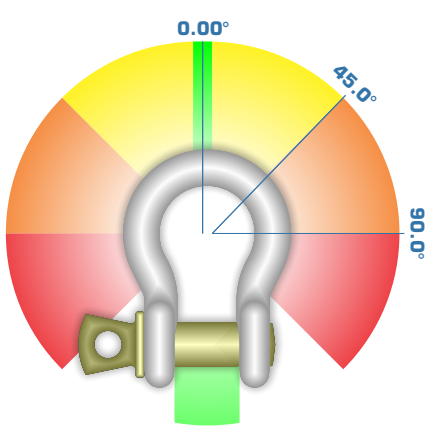
WARNING

FAILURE TO OBSERVE THESE WARNINGS MAY RESULT IN SERIOUS INJURY OR DEATH!

- ALWAYS inspect shackles before use. Check for wear, damage, bent or elongation of the body or pin, spreading of the shackle legs also check to see if there is any damage to the threads.
- NEVER replace shackle pins with a competitors pin
- NEVER replace a shackle pin with a bolt pin, the load will bend the pin
- NEVER exceed 120° included angle. Use Bolt Type and/or Screw Pin Shackles ONLY.
- NEVER re-use shackles or pins which are visibly deformed
- NEVER use shackles which are worn in the crown or pin by more than 10% of the original diameter
- NEVER use screw pin shackles if the pin can roll under the load – bolt type shackles with cotter pin are recommended for these applications
- NEVER proof test shackles beyond 2 times the 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)
- NEVER allow a shackle to be pulled at an angle; this will cause the legs to open. The pin should be packed with washers to center the shackle
- NEVER shock load
- ALWAYS make sure that the shackle being used is large enough to avoid pinching or bunching when used with synthetic slings
- ALWAYS make sure that the diameter of the shackle is greater than the wire rope diameter if there is no thimble in the eye
- ALWAYS mouse screw pin shackles when used in long term or high vibration applications
- ALWAYS make sure that the shackle properly supports the load.
- It is very important to read and understand all information shown before using a shackle
- Working Load Limits (WLL) are based on shackles in new condition and are subject to downward adjustment in case of side loading:

Side Load Capacity Reduction Chart	
Angle of Side Load	**Capacity**
0° from Vertical Line	100 % of the WLL
45° from Vertical Line	70 % of the WLL
90° from Vertical Line	50 % of the WLL

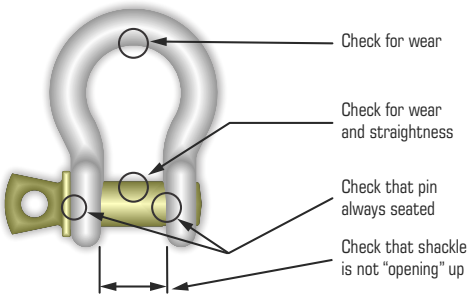
*For Screw Pin and bolt type bow shackles only



GOLD PIN SHACKLE WARNINGS AND INFORMATION

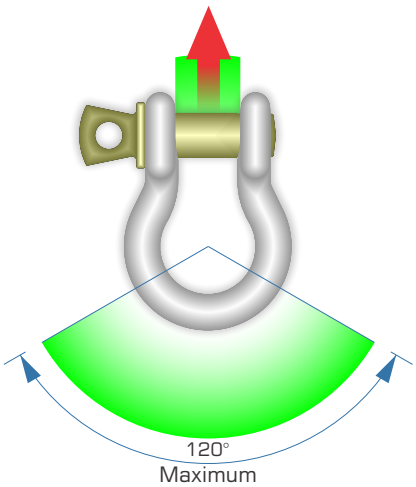
IT IS VERY IMPORTANT TO READ AND UNDERSTAND ALL INFORMATION SHOWN BEFORE USING A SHACKLE

WARNING



Shackle inspection

Check for wear, damage, bent or elongation of the body or pin, spreading of the shackle legs also check to see if there is any damage to the threads.

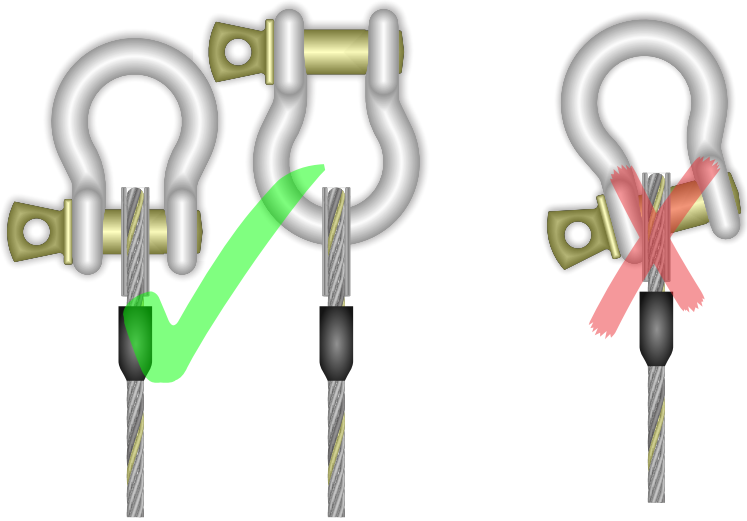


Symmetrical loading

Shackles symmetrically loaded with two leg slings having a maximum included angle of 120° can be utilized to full Working Load Limit (WLL). Only bolt type with cotter pin and screw pin shackles should be used for this application.

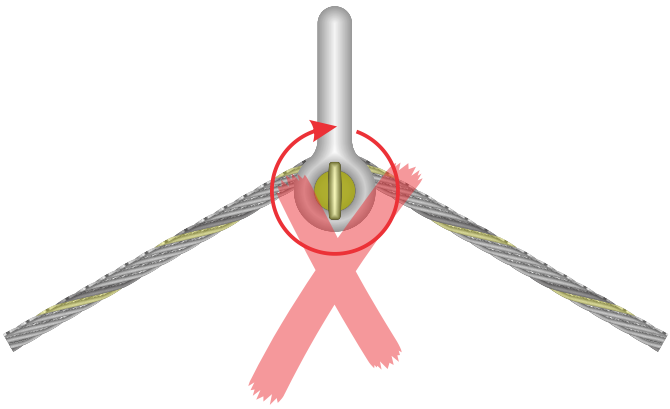
Eccentric shackle loads

To prevent an angular lift with a shackle, pack the pin. This will center the load preventing the legs from spreading and the shackle from failing



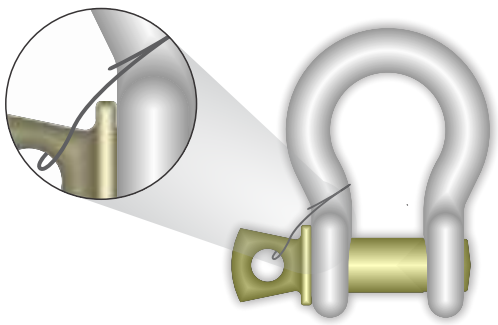
Rolling of the pin

If the load shifts the sling can unscrew the shackle pin. For long term applications or where the load can cause the pin to rotate, bolt type shackles with cotter pin should be used.



Mousing of a screw pin shackle

Mousing is a secondary securement method used to secure screw pin from rotation or loosening. Annealed iron wire is looped through the hole in collar of pin and around adjacent leg of shackle body with wire ends securely twisted together. Multiple wraps are required for securement where the load may slide on the shackle pin.



Gold Pin Screw Pin Anchor Shackle

Grade 8 bow shackle with safety bolt

Product details:

- Meet the performance requirements of U.S. Fed. Spec. RR-C-271D, Type 4A,
- Grade A, Class 2
- Heat treated carbon steel bows, quenched and tempered with Alloy pins
- Hot dipped galvanized
- Metallic coating of shackle pins allows for closer thread tolerances than possible for shackles with an extra layer of paint
- Design factor 6:1

Description

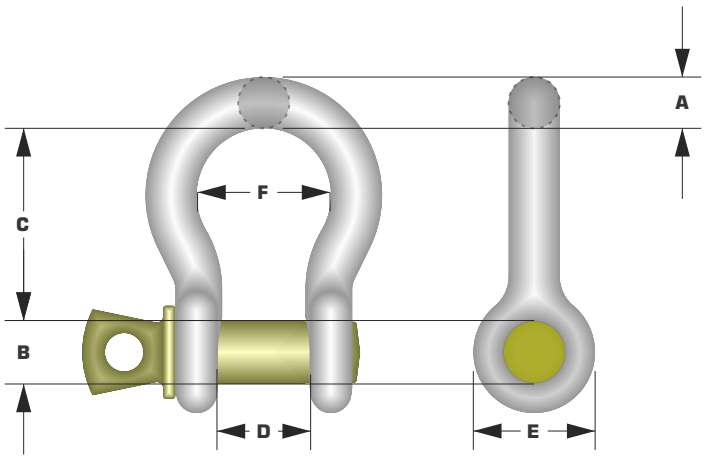
To assure total traceability and to exceed the requirements of ASME B30.26

'Golden Pin' shackles bodies are embossed with:

- Vanguard
- WLL (working load limit)
- Size
- Trace Code

'Golden Pin' shackles pins are stamped with:

- Vanguard I.D. (VGD®)
- Alloy Pin I.D., WLL (HS)
- Yellow chromated for instant recognition
- Trace Code



Item No.	WLL	DIMENSIONS [in.]						Net weight
	tonne	A	B	C	D	E	F	LBS
75-1018357	0.33	3/16	1/4	0.93	0.39	0.59	0.64	0.06
75-1018375	0.50	1/4	5/16	1.14	0.49	0.70	0.75	0.12
75-1018393	0.75	5/16	3/8	1.23	0.53	0.83	0.80	0.18
75-1018419	1.00	3/8	7/16	1.41	0.69	0.98	1.01	0.32
75-1018437	1.50	7/16	1/2	1.70	0.72	1.06	1.13	0.45
75-1018455	2.00	1/2	5/8	1.83	0.83	1.18	1.25	0.68
75-1018473	3.25	5/8	3/4	2.36	1.06	1.55	1.67	1.36
75-1018491	4.75	3/4	7/8	2.76	1.24	1.78	1.98	2.24
75-1018516	6.50	7/8	1	3.29	1.42	2.09	2.25	3.50
75-1018534	8.50	1	1-1/8	3.69	1.75	2.35	2.66	5.00
75-1018552	9.50	1-1/8	1-1/4	4.23	1.80	2.71	2.79	7.65
75-1018570	12.00	1-1/4	1-3/8	4.63	2.12	3.01	3.15	10.40
75-1018598	13.50	1-3/8	1-1/2	5.17	2.30	3.32	3.60	13.80
75-1018614	17.00	1-1/2	1-5/8	5.67	2.39	3.63	3.85	17.90
75-1018632	25.00	1-3/4	2	7.06	2.96	4.23	4.99	27.90
75-1018650	35.00	2	2-1/4	7.75	3.31	5.11	5.59	42.70
75-1018678	55.00	2-1/2	2-3/4	10.25	4.00	5.75	7.00	85.00

NOTE:
If the pin, after a 1/4 turn, remains hard to remove, there ia a good chance that the shackle has been overloaded beyond the designed working load limit (WLL) and it, therefore, must be discarded.

WARNING: NEVER EXCEED WORKING LOAD LIMIT!
Failure to follow instructions can result in serious property damage, injury or death!
~For more information please see the shackle warning information found in the hardware section of this catalogue

Gold Pin Bolt Type Anchor Shackle

Grade A bow shackle with safety bolt

Product details:

- Meet the performance requirements of U.S. Fed. Spec. RR-C-271D, Type 4A, Grade A, Class 3
- Heat treated carbon steel bows, quenched and tempered with Alloy pins
- Hot dipped galvanized
- Metallic coating of shackle pins allows for closer thread tolerances than possible for shackles with an extra layer of paint
- Recommended for long term service installation as well as for applications where there is the possibility that the pin can rotate under load
- Design factor 6:1

Description

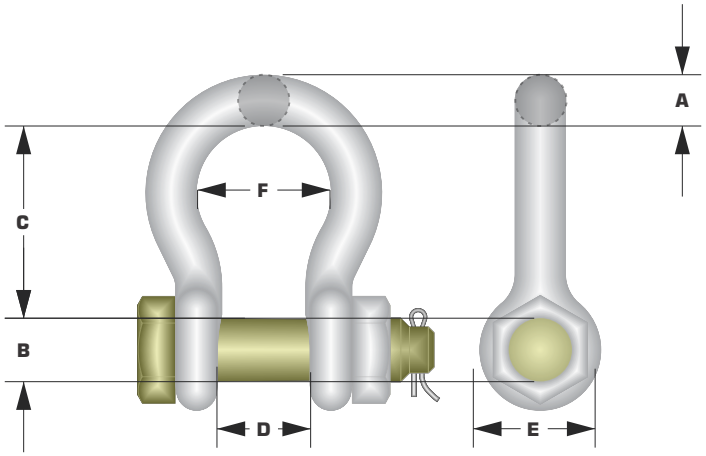
To assure total traceability and to exceed the requirements of ASME B30.26

'Golden Pin' shackles bodies are embossed with:

- Vanguard
- WLL (working load limit)
- Size
- Trace Code

'Golden Pin' shackles pins are stamped with:

- Vanguard I.D. (VGD®)
- Alloy Pin I.D., WLL (HS)
- Yellow chromated for instant recognition
- Trace Code



Item No.	WLL	DIMENSIONS [in.]						Net weight
	tonne	A	B	C	D	E	F	LBS
75-1019466	0.50	1/4	5/16	1.14	0.50	0.67	0.77	0.13
75-1019468	0.75	5/16	3/8	1.22	0.54	0.83	0.83	0.21
75-1019470	1.00	3/8	7/16	1.41	0.66	1.00	0.99	0.36
75-1019471	1.50	7/16	1/2	1.72	0.75	1.03	1.12	0.47
75-1019472	2.00	1/2	5/8	1.87	0.84	1.19	1.16	0.80
75-1019490	3.25	5/8	3/4	2.38	1.06	1.58	1.68	1.61
75-1019515	4.75	3/4	7/8	2.82	1.27	1.80	1.99	2.45
75-1019533	6.50	7/8	1	3.33	1.44	2.09	2.27	3.85
75-1019551	8.50	1	1-1/8	3.75	1.72	2.38	2.68	5.65
75-1019579	9.50	1-1/8	1-1/4	4.21	1.89	2.72	2.91	8.52
75-1019597	12.00	1-1/4	1-3/8	4.67	2.24	2.98	3.20	11.10
75-1019613	13.50	1-3/8	1-1/2	5.25	2.51	3.32	3.62	14.88
75-1019631	17.00	1-1/2	1-5/8	5.70	2.68	3.60	3.82	19.30
75-1019659	25.00	1-3/4	2	7.00	3.07	4.24	4.65	30.45
75-1019677	35.00	2	2-1/4	7.85	3.25	5.05	5.77	46.63

NOTE:
If the pin, after a 1/4 turn, remains hard to remove, there ia a good chance that the shackle has been overloaded beyond the designed working load limit (WLL) and it, therefore, must be discarded.

WARNING: NEVER EXCEED WORKING LOAD LIMIT!
Failure to follow instructions can result in serious property damage, injury or death!
~For more information please see the shackle warning information found in the hardware section of this catalogue

TURNBUCKLES

Applications

Turnbuckles are used for rigging or tensioning wires, ropes, rods etc. They are designed for in-line rigging, tensioning or lashing. Green Pin® Turnbuckles (G-6313, G-6323, G-6333, G-6311, G-6312, G-6315 and G-6314) can be used in lifting applications. The closed body rigging screws (G-6343, G-6340 and G-6345) can also be used in lifting applications.

Ranges

Green Pin® offers a wide range of turnbuckles:
- Load rated Green Pin® turnbuckles;
- Open body rigging screws generally to DIN 1480;
- Rigging screws with welding ends;
- Closed body rigging screws;
- Special turnbuckles for lashing (hamburgers).

Van Beest offers a wide range of other turnbuckles to complement the Green Pin® assortment.

Design

Green Pin® turnbuckles are manufactured to ASTM F1145-92 (formerly U.S. Fed. Spec. FF-T-791). They are drop forged and available with the following end fittings: eye/eye, hook/hook, hook/eye, jaw/jaw and jaw/eye. All fittings are interchangeable. Locking nuts are supplied with all sizes.

All Green Pin® turnbuckles are generally marked with:
- Working Load Limit - e.g. 2.36 t
- manufacturer's symbol - e.g. GP
- thread diameter - e.g. 3/4"
- traceability code - e.g. A1
- thread - L (left-handed) and R (right-handed)

Rigging screws generally to DIN 1480 are available with welding ends and in hook/eye, eye/eye, hook/hook and jaw/jaw combinations. Closed body rigging screws are available in jaw/jaw, jaw/eye and eye/eye combinations.

Finish

Load rated Green Pin® turnbuckles and closed body rigging screws are hot dipped galvanized. Rigging screws to DIN 1480 are electro galvanized. Lashing turnbuckles are self colored.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for Use

Turnbuckles must be used for in-line applications only. Special attention should be paid to prevent overloading. During tensioning, avoid forces on the turnbuckle that may lead to deformation. Should a turnbuckle start to deform, the tension should be decreased immediately and any deformed parts should be replaced. Should extreme circumstances or shock loading, possibly occur during use, this must be taken into account when selecting the correct products to be used for the application.

For the rigging of wires, ropes, rods etc., Green Pin® turnbuckles are recommended to be used. The WLL should be applied in in-line lifting only and overloading is not permitted. Nor should side loads be applied, as the products have not been designed for this purpose.

Open body rigging screws are used for tensioning wires and ropes for less demanding applications (for example rope railings).

Turnbuckles must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the steel structure.

Safe use of Turnbuckles

Turnbuckles should be inspected before use to ensure that:

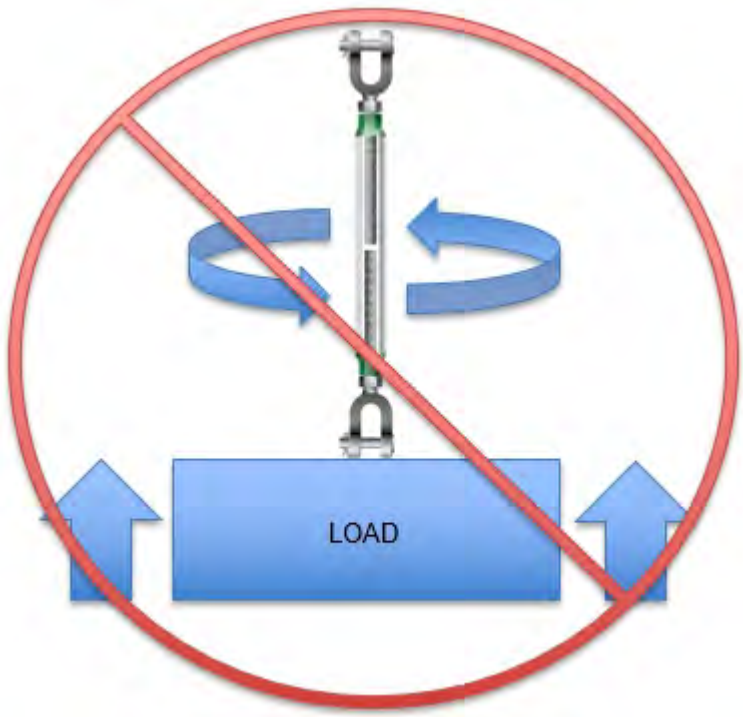
- all markings are legible;
- the threads of the body and the end fittings are of the same type;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the threads of the body and the end fittings are undamaged;
- the body and end fittings are not distorted or unduly worn;
- the body and end fittings are free from nicks, gouges and cracks.

Make sure that the end fittings are correctly screwed into the body. Always use the locking nuts provided to prevent the turnbuckles from unscrewing. Never replace an end fitting by anything other than one designed for the purpose, otherwise the turnbuckle may not be suitable for the loads imposed.

Green Pin® Turnbuckles G-6311, G-6312, G-6313, G-6314, G-6315, G-6323 and G-6333 are suitable for lifting applications. These items have a Proof Load equal to 2 x WLL and Minimum Breaking Load equals to 5x WLL. Of course the “Instructions for use”, as we publish them in our catalogue should be respected at all times.

Note: It is not permitted to adjust the length of the turnbuckle under full load. Tensioning below the WLL is permitted. It is advisable first to adjust roughly the length of then load the turnbuckles to a certain tensior not exceed the full capacity (WLL).

Note: that it is not permitted to lift a load by tensioning (rotating the body) the turnbuckle, as shown in the pictur below:



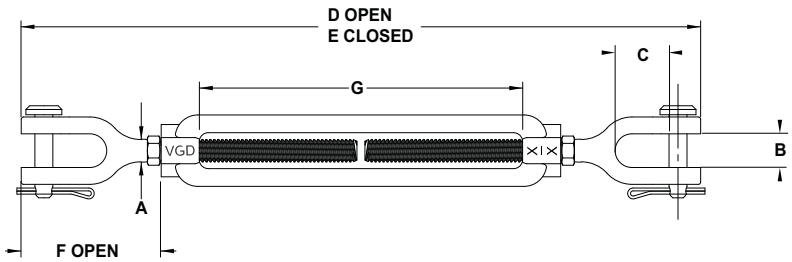
VGD JAW & JAW FORGED TURNBUCKLES WITH LOCKNUTS

Jaw & Jaw Turnbuckle w/ Locknut

Product details

Material	drop forged alloy steel, Grade 8, quenched and tempered
Design factor	MBL equals 5 x WLL
Finish	hot dipped galvanized
Standard	Meeting the requirements of U.S. Fed. Spec. FF-T-791B Type 1, Form 1 (open body)

- Permanently embossed with R, L, VGD© and size for traceability to meet ASME B30.26
- Hexagon heads forged into bodies permit fast and easy adjustments
- Forged carbon steel, bodies heat treated by normalizing, end-fitting quenched & tempered
- Hot dipped galvanized
- UNC Threads
- Design factor proof load 2.5:1, ultimate load 5:1



Item Code	Dimension (in)						Net Weight	WLL
Item No.	A & G	B	C	D	E	F	lbs	lbs
75-1032493	1/4 X 4	0.54	0.68	12.01	7.89	1.79	0.36	500
75-1032518	5/16 X 4-1/2	0.59	0.91	13.92	9.41	2.13	0.52	800
75-1032536	3/8 X 6	0.74	1.04	17.63	11.38	2.52	0.81	1,200
75-1032554	1/2 X 6	0.65	1.08	19.09	13.19	2.71	1.56	2,200
75-1032572	1/2 X 9	0.61	1.10	23.95	15.95	2.65	1.74	2,200
75-1032590	1/2 X 12	0.66	1.07	30.90	19.00	2.72	2.40	2,200
75-1032616	5/8 X 6	0.77	1.46	22.13	14.89	3.43	2.72	3,500
75-1032634	5/8 X 9	0.95	1.46	27.20	18.31	3.70	3.43	3,500
75-1032652	5/8 X 12	0.77	1.42	32.99	21.26	3.70	3.91	3,500
75-1032670	3/4 X 6	1.05	1.61	22.75	16.75	4.23	4.11	5,200
75-1032698	3/4 X 9	1.01	1.76	28.50	19.50	4.19	5.46	5,200
75-1032714	3/4 X 12	1.02	1.75	34.75	22.75	4.29	6.43	5,200
75-1032732	3/4 X 18	0.90	1.61	49.29	29.53	4.56	8.07	5,200
75-1032750	7/8 X 12	1.24	2.01	36.25	24.62	5.00	8.14	7,200
75-1032778	7/8 X 18	1.23	1.75	50.17	30.30	4.86	10.78	7,200
75-1032796	1 X 6	1.26	2.14	30.43	20.50	5.74	10.18	10,000
75-1032812	1 X 12	1.40	2.19	38.00	26.50	5.84	12.52	10,000
75-1032830	1 X 18	1.21	2.07	51.00	33.00	6.01	15.14	10,000
75-1032858	1 X 24	1.31	2.07	64.06	38.06	5.53	18.08	10,000
75-1032876	1-1/4 X 12	2.03	2.94	41.75	30.50	7.50	20.59	15,200
75-1032894	1-1/4 X 18	2.08	2.95	54.00	37.50	8.25	24.68	15,200
75-1032910	1-1/4 X 24	1.84	2.82	63.93	39.93	8.09	29.80	15,200
75-1032938	1-1/2 X 12	2.19	2.93	43.62	32.68	7.97	30.69	21,400
75-1032956	1-1/2 X 18	2.08	2.80	56.30	38.58	8.38	36.75	21,400
75-1032974	1-1/2 X 24	2.34	3.10	69.00	45.00	8.88	40.67	21,400

WARNING: NEVER EXCEED WORKING LOAD LIMITS!

FAILURE TO OBSERVE these warnings may result in serious injury or death!

• Turnbuckles are designed for straight (in-line) pulls only•

NEVER re-use turnbuckles showing signs of deformation or damaged threads

Green Pin® JJ Turnbuckle BN - G-6323

Turnbuckle with jaw-jaw end-fitting and safety bolt, generally to ASTM F1145-92

Product details

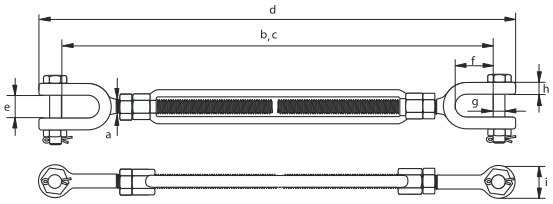
Product code	G-6323
Material	drop forged high tensile steel SAE 1035 or 1045
Safety factor	MBL equals 5 x WLL
Finish	hot dipped galvanized
Certification	2.1 | 2.2 | 3.1 | MTCa | CE
Standard	generally to ASTM F1145-92, formerly U.S. Federal Specification FF-T-791b

Description

The Green Pin® JJ Turnbuckle BN is a turnbuckle with jaw-jaw end-fitting used for both lifting and lashing. The turnbuckle also offers a double safety (cotter pin and safety bolt) which prevents accidental unscrewing and a safety bolt, generally to ASTM F1145-92. One of the unique features of Green Pin® Turnbuckles such as this one is that they can be of the pin. The Green Pin® JJ Turnbuckle BN is available in a range with a diameter thread of 1/2" (take up of 12") up to 1 3/4" (take up of 18").

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the turnbuckle warning information found in the hardware section of this catalogue



Highlights

- Can be used for both lifting and lashing
- Double safety (cotter pin & safety bolt)
- Reliable Green Pin® quality and support

CAD RFID

Item code	WLL	take up	DIMENSIONS [in.]									Net weight
	Tonne	(INCH)	A	B	C	D	E	F	G	H	I	LBS
SSGPGG1006	0.54	6	3/8	10.75	16.10	11.97	0.47	0.83	0.28	0.35	0.83	1.21
SSGPGG1206	1.00	6	1/2	11.97	17.13	13.50	0.63	1.02	0.39	0.43	0.98	2.14
SSGPGG1209	1.00	9	1/2	14.92	23.15	16.46	0.63	1.02	0.39	0.43	0.98	2.54
SSGPGG1212	1.00	12	1/2	17.91	29.13	19.45	0.63	1.02	0.39	0.43	0.98	3.04
SSGPGG1606	1.59	6	5/8	13.62	18.46	15.98	0.71	1.26	0.51	0.55	1.30	3.86
SSGPGG1609	1.59	9	5/8	16.57	24.49	18.90	0.71	1.26	0.51	0.55	1.30	4.72
SSGPGG1612	1.59	12	5/8	19.61	30.47	21.93	0.71	1.26	0.51	0.55	1.30	5.36
SSGPMBGG1906	2.36	6	3/4	14.53	19.17	17.28	0.94	1.50	0.63	0.63	1.61	5.95
SSGPMBGG1909	2.36	9	3/4	17.48	25.20	20.24	0.94	1.50	0.63	0.63	1.61	7.12
SSGPMBGG1912	2.36	12	3/4	20.47	31.18	23.23	0.94	1.50	0.63	0.63	1.61	7.87
SSGPMBGG1918	2.36	18	3/4	26.38	43.15	29.13	0.94	1.50	0.63	0.63	1.61	10.03
SSGPMBGG2212	3.27	12	7/8	22.09	32.52	25.12	1.06	1.65	0.75	0.75	1.89	11.51
SSGPMBGG2218	3.27	18	7/8	28.07	44.57	31.10	1.06	1.65	0.75	0.75	1.89	14.46
SSGPMBGG2506	4.54	6	1	17.60	21.81	20.94	1.22	1.97	0.87	0.79	2.13	12.21
SSGPMBGG2512	4.54	12	1	23.54	33.82	26.89	1.22	1.97	0.87	0.79	2.13	14.77
SSGPMBGG2518	4.54	18	1	29.53	45.98	32.87	1.22	1.97	0.87	0.79	2.13	18.98
SSGPMBGG2524	4.50	24	1	35.55	57.87	38.90	1.22	1.97	0.87	0.79	2.13	19.56
SSGPMBGG3212	6.90	12	1 1/4	25.31	36.06	29.45	1.73	2.80	1.10	1.02	2.68	26.24
SSGPMBGG3218	6.90	18	1 1/4	31.69	48.43	35.83	1.73	2.80	1.10	1.02	2.68	29.98
SSGPMBGG3224	6.90	24	1 1/4	37.95	60.67	42.09	1.73	2.80	1.10	1.02	2.68	31.31
SSGPMBGG3812	9.71	12	1 1/2	26.57	37.09	31.73	2.05	2.80	1.38	1.10	3.15	40.79
SSGPMBGG3818	9.71	18	1 1/2	32.48	48.98	37.64	2.05	2.80	1.38	1.10	3.15	42.55
SSGPMBGG3824	9.71	24	1 1/2	38.58	61.06	43.74	2.05	2.80	1.38	1.10	3.15	48.50
SSGPMBGG4518	12.70	18	1 3/4	36.93	51.81	42.99	2.36	3.39	1.61	1.30	3.54	63.93
SSGPMBGG4524	12.70	24	1 3/4	42.87	63.82	48.94	2.36	3.39	1.61	1.30	3.54	72.75
SSGPMBGG5024	16.80	24	2	45.39	65.87	52.68	2.48	3.66	1.97	1.57	4.21	110.23
SSGPMBGG6424	27.20	24	2 1/2	49.41	72.09	58.27	2.95	4.49	2.24	1.61	5.63	194.01
SSGPMBGG6924	34.00	24	2 3/4	53.07	74.09	63.15	3.54	4.33	2.76	1.61	6.22	240.30

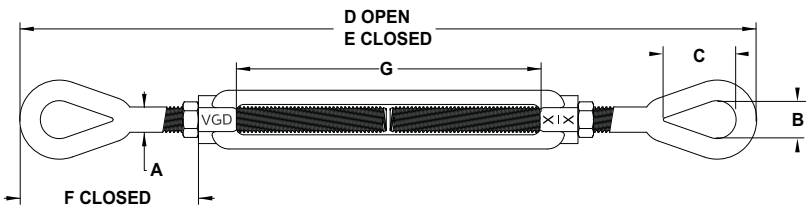
VGD EYE & EYE FORGED TURNBUCKLES WITH LOCKNUTS

Eye & Eye Turnbuckle w/ Locknut

Product details

Material	drop forged alloy steel, Grade 8, quenched and tempered
Design factor	MBL equals 5 x WLL
Finish	hot dipped galvanized
Standard	Meeting the requirements of U.S. Fed. Spec. FF-T-791B Type 1, Form 1 (open body)

- Permanently embossed with R, L, VGD© and size for traceability to meet ASME B30.26
- Hexagon heads forged into bodies permit fast and easy adjustments
- Forged carbon steel, bodies heat treated by normalizing, end-fitting quenched & tempered
- Hot dipped galvanized
- UNC Threads
- Design factor proof load 2.5:1, ultimate load 5:1



Item Code	Diameter & Take Up	Dimension					Net Weight	WLL
Eye & Eye	A & G	B	C	D open	E Closed	F Closed	lbs	lbs
75-1031252	1/4 x 4	0.32	075	12.18	8.83	1.78	0.26	500
75-1031270	5/16 x 4-1/2	0.43	0.90	14.09	9.67	2.11	0.45	800
75-1031298	3/8 x 6	0.52	0.93	18.10	12.20	2.57	0.76	1,200
75-1031314	1/2 x 6	0.72	1.13	19.57	14.22	3.36	1.54	2,200
75-1031332	1/2 x 9	0.69	1.44	26.90	16.90	3.27	1.13	2,200
75-1031350	1/2 x 12	0.72	1.40	31.85	20.00	3.26	2.14	2,200
75-1031378	5/8 x 6	0.81	1.43	22.00	16.00	3.79	3.28	3,500
75-1031396	5/8 x 9	0.86	1.71	28.66	19.69	4.21	2.83	3,500
75-1031412	5/8 x 12	0.88	1.74	34.93	21.69	3.90	3.42	3,500
75-1031430	3/4 x 6	0.96	1.81	23.66	17.72	4.67	4.61	5,200
75-1031458	3/4 x 9	1.00	2.07	31.10	20.64	4.70	4.61	5,200
75-1031476	3/4 x 12	1.00	2.09	37.10	23.66	4.69	5.48	5,200
75-1031494	3/4 x 18	0.94	2.10	47.40	30.39	4.97	7.19	5,200
75-1031519	7/8 x 12	1.26	2.07	38.56	24.80	5.11	7.22	7,200
75-1031537	7/8 x 18	1.25	2.38	50.57	30.82	5.10	9.95	7,200
75-1031573	1 x 12	1.45	2.38	41.97	27.80	6.37	11.50	10,000
75-1031591	1 x 18	1.35	3.01	51.20	34.60	6.75	14.00	10,000
75-1031617	1 x 24	1.41	3.00	64.29	41.73	7.46	17.25	10,000
75-1031635	1-1/4 x 12	1.76	3.49	43.18	31.10	8.10	19.00	15,200
75-1031653	1-1/4 x 18	1.81	3.56	57.07	36.56	7.72	23.00	15,200
75-1031699	1-1/2 x 12	2.14	4.13	45.28	35.04	9.55	27.50	21,400
75-1031715	1-1/2 x 18	2.12	4.07	60.01	39.00	8.63	31.00	21,400
75-1031733	1-1/2 x 24	2.12	4.06	72.00	45.00	8.62	37.50	21,400

WARNING: NEVER EXCEED WORKING LOAD LIMITS!

FAILURE TO OBSERVE these warnings may result in serious injury or death!

• Turnbuckles are designed for straight (in-line) pulls only•

NEVER re-use turnbuckles showing signs of deformation or damaged threads

Green Pin® EE Turnbuckle - G-6311

Turnbuckle with eye-eye end-fitting, generally to ASTM F1145-92

Product details

Product code	G-6323
Material	drop forged high tensile steel SAE 1035 or 1045
Safety factor	MBL equals 5 x WLL
Finish	hot dipped galvanized
Certification	2.1 | 2.2 | 3.1 | MTCa | CE
Standard	generally to ASTM F1145-92, formerly U.S. Federal Specification FF-T-791b

Description

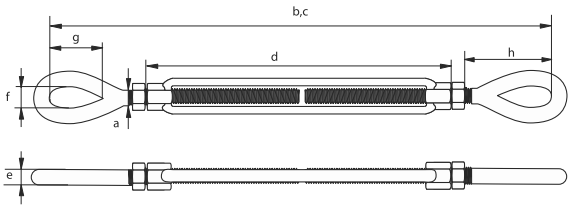
The Green Pin® EE Turnbuckle is a turnbuckle with eye-eye end-fittings, generally to ASTM F1145-92. One of the unique features of Green Pin® Turnbuckles such as this one is that they can be used for both lifting and lashing. Galvanization of the Green Pin® EE Turnbuckle ensures its long-term durability. The turnbuckle is available in a range with a diameter thread 3/8" (take up of 6") up to 2 3/4" (take up of 24").

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the turnbuckle warning information found in the hardware section of this catalogue

Highlights

- Can be used for both lifting and lashing
- Galvanization assures long-term durability
- Superior stock availability of 99%
- Reliable Green Pin® quality and support



CAD RFID

Item code	WLL	take up	DIMENSIONS [in.]								Net weight
	Tonne	INCH	A	B	C	D	E	F	G	H	LBS
SSGP001006	0.54	6	3/8	11.50	16.85	7.20	0.39	0.51	1.14	1.93	1.06
SSGP001206	1.00	6	1/2	12.80	17.91	7.60	0.47	0.71	1.42	2.28	1.79
SSGP001209	1.00	9	1/2	15.75	23.94	10.63	0.47	0.71	1.42	2.24	2.36
SSGP001212	1.00	12	1/2	18.74	29.92	13.62	0.47	0.71	1.42	2.24	2.84
SSGP001606	1.59	6	5/8	14.96	19.80	7.99	0.55	0.83	1.77	3.11	2.93
SSGP001609	1.59	9	5/8	17.91	25.83	11.02	0.55	0.83	1.77	3.07	3.55
SSGP001612	1.59	12	5/8	20.91	31.81	14.02	0.55	0.83	1.77	3.07	4.32
SSGP001906	2.36	6	3/4	16.26	20.94	8.43	0.67	1.02	2.13	3.50	4.48
SSGP001909	2.36	9	3/4	19.29	26.97	11.46	0.67	1.02	2.13	3.50	5.45
SSGP001912	2.36	12	3/4	22.20	32.95	14.45	0.67	1.02	2.13	3.46	6.39
SSGP001918	2.36	18	3/4	28.27	45.00	20.43	0.67	1.02	2.13	3.50	8.69
SSGP002212	3.27	12	7/8	23.78	34.25	14.84	0.79	1.26	2.40	3.98	9.50
SSGP002218	3.27	18	7/8	29.76	46.22	20.83	0.79	1.26	2.40	3.98	12.15
SSGP002506	4.54	6	1	19.61	23.78	9.21	0.94	1.46	2.99	4.65	9.33
SSGP002512	4.54	12	1	25.55	35.79	15.24	0.94	1.46	2.99	4.61	12.68
SSGP002518	4.54	18	1	31.54	47.83	21.22	0.94	1.46	2.99	4.61	16.03
SSGP002524	4.50	24	1	37.48	59.76	27.24	0.94	1.46	2.99	4.57	17.20
SSGP003212	6.90	12	1 1/4	28.03	38.78	15.16	1.14	1.85	3.58	5.71	20.46
SSGP003218	6.90	18	1 1/4	33.94	50.67	21.14	1.14	1.85	3.58	5.67	24.47
SSGP003224	6.90	24	1 1/4	39.96	62.68	27.17	1.14	1.85	3.58	5.67	26.68
SSGP003812	9.71	12	1 1/2	29.76	40.28	15.79	1.26	2.17	4.17	6.14	27.78
SSGP003818	9.71	18	1 1/2	36.06	52.56	21.77	1.26	2.17	4.17	6.30	34.83
SSGP003824	9.71	24	1 1/2	41.93	64.41	27.80	1.26	2.17	4.17	6.22	38.14
SSGP004518	12.70	18	1 3/4	40.16	54.96	22.72	1.50	2.40	4.72	7.76	52.69
SSGP004524	12.70	24	1 3/4	46.10	67.05	28.74	1.50	2.40	4.72	7.72	58.86
SSGP005024	16.80	24	2	49.76	70.24	29.45	1.81	2.72	5.79	9.06	84.44
SSGP006424	27.20	24	2 1/2	56.30	76.14	31.57	2.01	3.15	6.50	10.79	143.30

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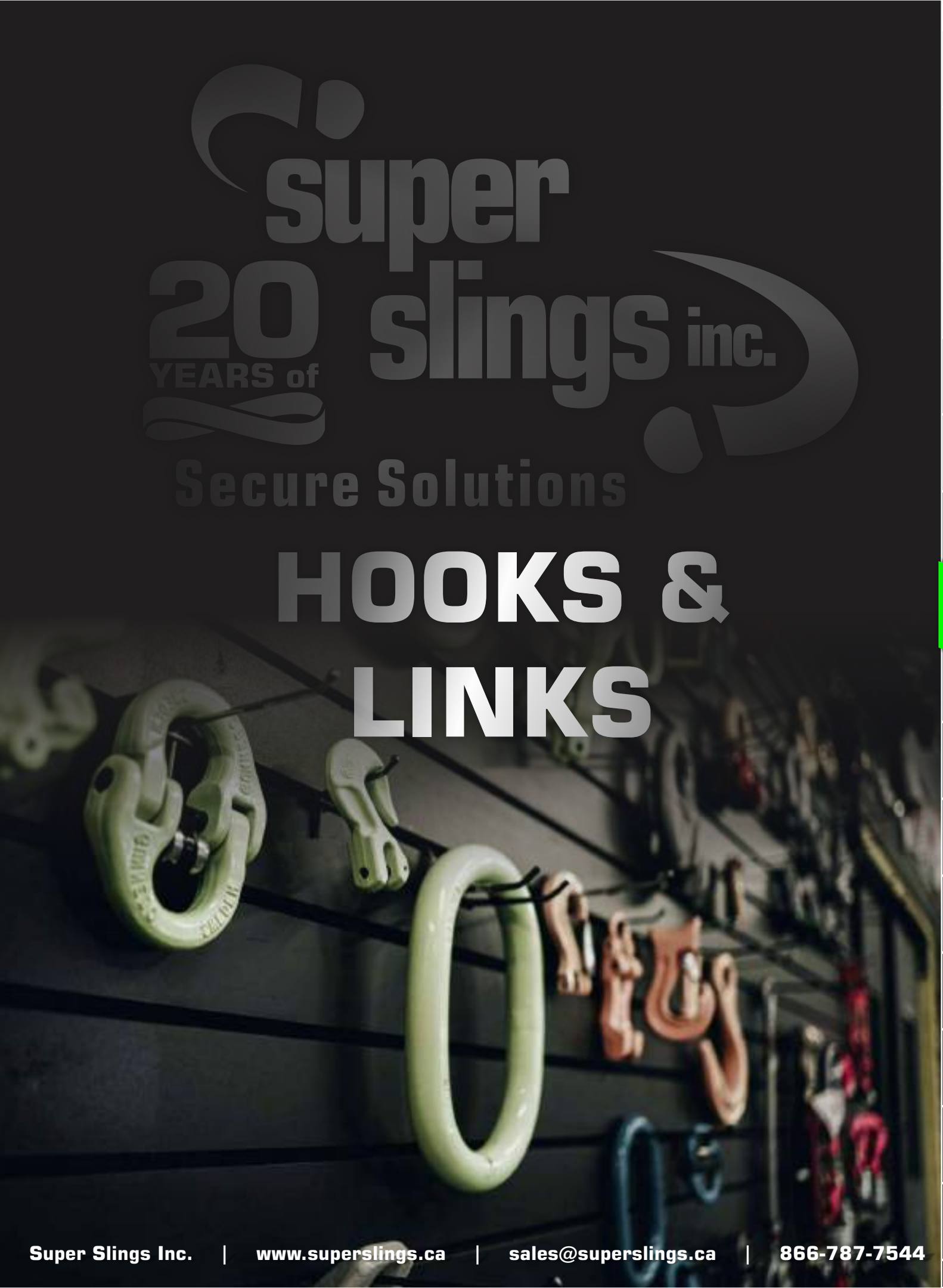
HOOKS & LINKS



ASME B30.10 Hook Inspection Criteria and Best Practices for Use

A look at the ASME B30.10 Hooks standard and what you need to know about the inspection and use of your hooks.

ASME B30.10 Chapter 10-1

This chapter specifically refers to all hooks that support the load in the base (bowl, saddle, or pinhole) of the hook. This includes all of the following types of load-bearing hooks:

Clevis Hook (with or without latch)
Eye Hook (with or without latch)
Shank Hook (with or without latch)
Duplex Hook—also known as a "Sister Hook" (with or without latches)
Articulated Duplex Hook (with or without latches)
Quad Hook (with or with latches)
Single Plate Hooks and Laminated Plate Hooks

ASME B30.10 Chapter 10-2

This chapter specifically refers to all hooks that do not support a load in a direct-pull configuration, such as:

- Grab hooks,
- Foundry hooks
- Sorting hooks
- Choker hooks

Chapter 10-1 and Chapter 10-2 may have different information related to the materials and components, proof testing, fabrication and configurations, and repair and modification requirements—depending on if you're using load-bearing hooks, or hooks that don't support the load in a direct-pull configuration. Our recommendation is to obtain a copy of the most recent edition of ASME B30.10 - Hooks and review to make sure your hooks are being used, inspected, and maintained in accordance with industry standards.

Hook Identification Requirements

ASME B30.10 requires the manufacturer's identification and rated load identification be forged, cast, or die stamped on a low-stress and non-wearing area of the hook. If the hook is used in conjunction with equipment described in other B30 standards, such as on a sling assembly, or as part of a below-the-hook lifting device, the equipment manufacturer's identification and rated load identification shall be forged, cast, or die stamped on a low-stress and non-wearing area of the hook.

How Often Do You Need to Inspect Your Hooks?

Similar to sling inspections, all hook inspections shall be performed by a Designated Person with any deficiencies further examined and determination made by a Qualified Person as to whether they constitute a hazard.

For hooks in regular service, inspection procedures and record keeping requirements are governed by the kind of equipment in which they are used. If there are more stringent inspection requirements for hooks as stated in standards for specific equipment, those inspection requirements take precedence over the requirements listed below:

Initial Inspection

Prior to use, all new, altered, modified, or repaired hooks shall be inspected to verify compliance with the applicable ASME B30.10 Hooks standard. Written records of initial inspections are NOT required.

Frequent Inspection

Frequent inspections include observations of the hook being used during operation, as well as visual inspections to identify any conditions or removal criteria outlined in ASME B30.10. For semi-permanent and inaccessible locations where frequent inspections are not feasible, a Qualified Person will determine the frequency of periodic inspection requirements to satisfy ASME B30.10 requirements. Inspection intervals should be based on:

- The frequency of hook use
- Severity of service conditions
- Nature of load-handling activities
- Experience gained on the service life of hooks used in similar circumstances

Guidelines for frequent inspection intervals:

Normal Service – Monthly
Heavy Service – Weekly to Monthly
Severe Service – Daily to Weekly

Conditions listed under Removal Criteria, or any other condition that may result in a hazard, shall cause the hook to be removed from service. Hooks shall not be returned to service until approved by a Qualified Person. Written records of frequent inspections are NOT required.

Periodic Inspection

A complete and thorough inspection of the hook shall be performed. Disassembly of the hook may be required to perform a complete examination and identify conditions based on the removal criteria outlined in ASME B30.10. Periodic inspections shall be performed at a minimum interval of 12 months, unless approved by a Qualified Person. Periodic rigging inspection intervals should be based on:

Frequency of hook use

Severity of service conditions

Nature of load-handling activities

Experience gained on the service life of hooks used in similar circumstances

Guidelines for periodic inspection intervals:

Normal Service – Yearly with equipment in place

Heavy Service – Semi-annually, with equipment in place unless external conditions indicate that disassembly should be done to permit detailed inspection monthly to quarterly

Severe Service – Quarterly, as in heavy service, except that the detailed inspection may show the need for a non-destructive type of testing

Hooks shall not be returned to service until approve by a Qualified Person. Written records of periodic inspections ARE required.

ASME B30.10 Inspection Criteria for Hooks

The goal of a rigging inspection is to thoroughly evaluate the condition and remaining strength of all equipment used to perform overhead lifts or used for load-handling activities.

Hooks shall be removed from service if damage or evidence of any of the following is present. A hook may not be returned to service until it has been approved by a Qualified Person.

Removal Criteria:

- Missing or illegible hook manufacturer's identification or secondary manufacturer's identification
- Missing or illegible rated load identification
- Excessive pitting or corrosion
- Cracks, nicks, or gouges
- Wear—any wear exceeding 10% (or as recommended by the manufacturer) of the original section dimension of the hook or its load pin
- Deformation—any visible apparent bend or twist from the plane of the unbent hook
- Throat opening—any distortion causing an increase in throat opening of 5% not to exceed 1/4" (6mm), or as recommended by the manufacturer
- Inability to lock—any self-locking hook that does not lock
- Inoperative latch (if provided)—any damaged latch or malfunctioning latch that not close the hook's throat
- Damaged, missing, or malfunctioning hook attachment and securing means
- Thread wear, damage, or corrosion
- Evidence of heat exposure or unauthorized welding
- Evidence of unauthorized alterations such as drilling, machining, grinding, or other modifications

Best Operating Practices When Using Hooks

Utilize best practices when using, inspecting, and storing your hooks. Make sure all of your rigging equipment has the proper markings/identification, is in acceptable working condition and passes a visual inspection, and is stored in an area where it's not susceptible to extreme temperatures, excess moisture, chemical exposure, or mechanical damage.

Operators or riggers using hooks shall be aware of the following:

Extreme Temperatures

Consult with the manufacturer or a Qualified Person if you are planning to use a hook in an environment where temperatures exceed 400°F (204°C) or –40°F (–40°C).

Chemically Active Environments

The strength of hooks can be affected by chemically active environments, such as caustic or acid substances or fumes. The hook manufacturer or a Qualified Person should be consulted before hooks are used in chemically active environments.

Use of Latches on Hooks

We advise that the end user must evaluate the work activity with regards to the safety of their employees. If the activity makes the use of the latch impractical, unnecessary, or more dangerous, then the end user may choose to eliminate the latch. It is also recommended that each lifting activity is considered independently as far as the use of a hook latch is concerned.

Super Slings recommends that hook latches should be used.

- Any hook that is designed to have a latch, should have the latch installed
- New slings are sold with the latch installed unless the customer requests no latch
- If customers make an inquiry about the use of a latch on a hook, we may recommend for them to consider OH&S, among them the following:

Safety latches

303(1) An employer must ensure that a hook has a safety latch, mousing or shackle if the hook could cause injury if it is dislodged while in use.

303(2) Despite subsection (1), if a competent worker disconnecting the hook would be in danger if the hook has a safety latch, mousing or shackle, the employer may use another type of hook.

Alberta Occupational Health and Safety Code 2009

YOKE®
Safety is our first priority™

Safe Use

- Never load in excess of the rated capacity for the application.
- Keep a record of all slings in use.
- User should remove all twists from a chain leg before lifting and, should never knot a chain.
- Always use YOKE shortening hook or clutch when chain slings should be shortened.
- Always inspect to insure that chain is free from damage or wear before use.
- Always inspect all sling components prior to each use.
- Ensure that chain is protected from any sharp corners on the load.
- Ensure that the master link articulates freely on the hook of the crane or other lifting appliance.
- Never tip load hooks. The load should always be supported correctly in the bowl of the hook.
- Always use the correct size sling for the load, allowing for the included angle and the possibility of unequal loading.
- Personnel must keep all body parts from between the sling and the load, and from between the sling and the crane/
- hoist hook. Persons shall never ride the chain sling/rope sling or web sling or the load during lifting or while suspended.
- Persons must stand clear of all loads while lifting or while suspended. During lifting, with or without the load, personnel
- must be alert for possible snagging of the load or the chain sling.

MAINTENANCE

- A thorough examination should be carried out by a competent person at intervals at least every year or more frequently according to statutory regulations, type of use and past records.
- Chains with bent links or with cracks or gouges in the link should be replaced , as should deformed components such as bent master links , deformed hooks and any fittings showing signs of damage.
- Chain and components wear should never exceed 10%of the original dimensions.
- Once a chain sling has been overloaded it must be taken out of service.
- Store chain slings on a properly designed rack. They should not be left lying on the floor where they may suffer mechanical or corrosion damage or may be lost.

LIMITATION ON USE

- YOKE alloy chain or chain slings should not be used in acid or caustic solutions nor in heavily acidic or caustic laden atmospheres. The high tensile strength of the heat treated alloy material in alloy steel chains and components is susceptible to hydrogen embrittlement when exposed to acids.
- YOKE slings must not be heat-treated, galvanized, plated, coated or subject to any process involving heating or pickling. Each of these processes can have dangerous effects and will invalidate the manufacturer certificate.
- YOKE slings may be used at temperatures between -40°C to 200°C with no reduction in the working load limit . The use of YOKE chain slings within the permissible temperature range in the table below does not require any permanent reduction in working load limit when the chain sling is returned to normal temperatures. A sling accidentally exposed to temperatures in excess of the maximum permissible should be withdrawn form service immediately and returned to the distributor for thorough examination.
- When using YOKE slings in exceptionally hazardous conditions, the degree of hazard should be assessed by a competent person and the Working Load Limit adjusted accordingly. Examples are lifting of potentially dangerous loads such as molten metals, corrosive materials or fissile material and including certain offshore activities.

Sling temperature (F)	Sling temperature ©°)	Reduction in Working Load Limit
-40 ° to 400	-40 to 200°	None
400° to 550°	200° to 300°	10%
550° to 750°	300° to 400°	25%
Above 750°	Above 400°	Do not use.

Quality Management System:

API Spec Q1 Registered
Q1 0467

QMS REGISTERED
QMS 0726

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

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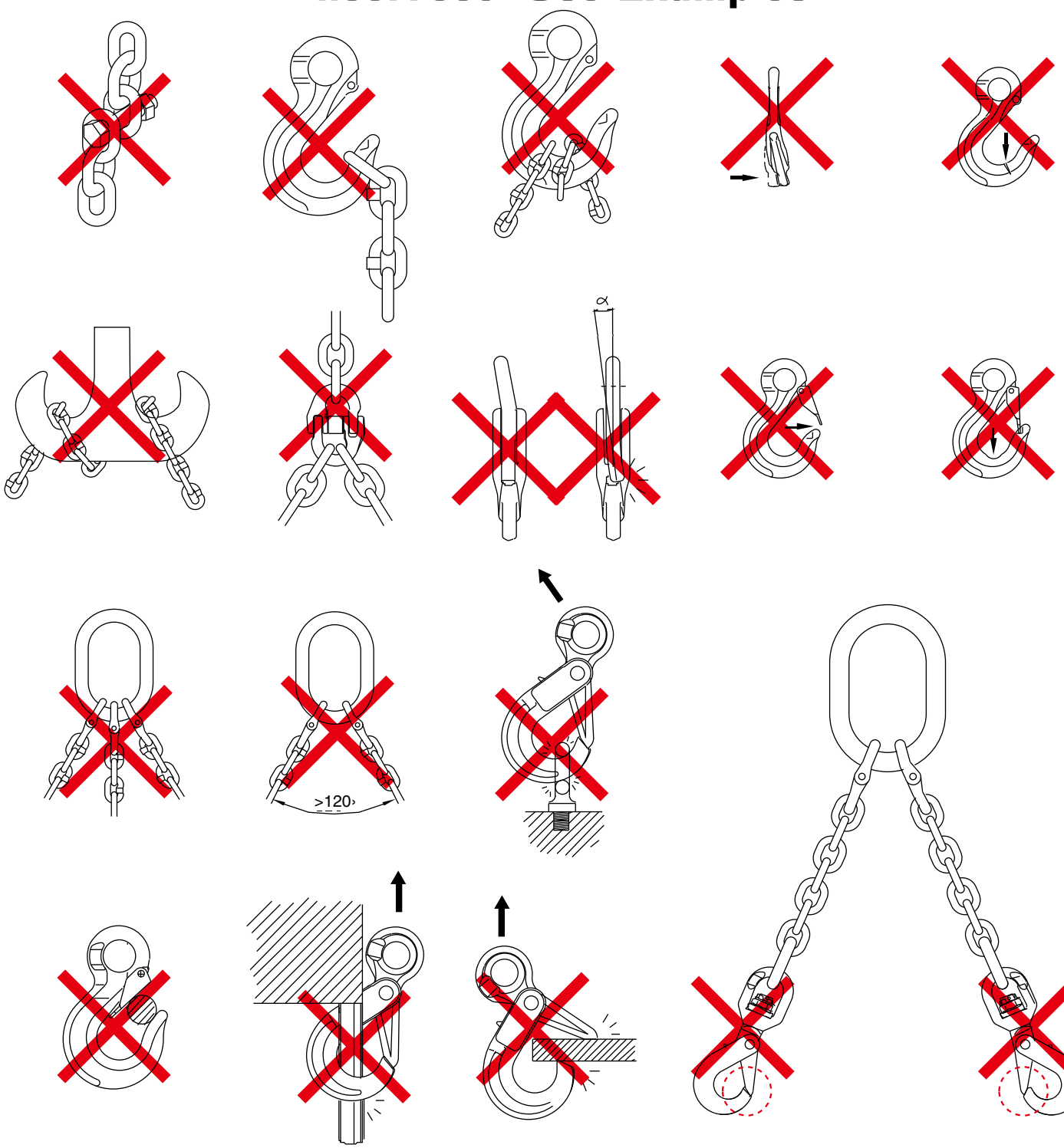
Hook & Attachment Use Limitations
Incorrect Use Examples



X-027 G-100 Self-Locking Swivel Hook

G-100 Eye Self Locking Hook

Product details

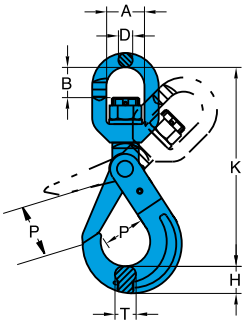
Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with EN 1677- 3 and ASME B30.26, ASME B30.10.
- Certified by DGUV GS-OA-15-05 & DGUV GS-MO-15-05
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1, Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Magnaflux crack detection is performed 100% on each batch.

YOKE® *Safety is our first priority™*

8-P025
For most sizes

8-P025T
For 26mm



Item Code	WLL [lbs]		Chain Size	Dimensions [in]							Net Weight
	4:1	5:1	[in]	A	B	D	H	K	P	T	Lbs
X-027-06	3,200	2,600	7/32	1.26	0.87	0.47	0.75	5.87	1.10	0.59	1.54
X-027-07	5,700	4,600	9/32-5/16	1.42	1.14	0.51	0.94	7.32	1.34	0.79	2.65
X-027-10	8,800	7,000	3/8	1.61	1.34	0.63	1.18	8.58	1.73	1.02	4.41
X-027-13	15,000	12,000	1/2	1.81	1.69	0.83	1.54	10.87	2.01	1.18	9.04
X-027-16	22,600	18,100	5/8	2.40	1.97	0.91	1.93	12.95	2.36	1.42	15.87
X-027-20	35,300	28,200	3/4	2.91	3.23	0.98	2.56	15.24	2.76	2.09	28.66
X-027-22	42,700	34,200	7/8	3.82	3.74	1.30	2.48	17.99	3.15	1.93	44.09
X-027-26	59,700	47,800	1	4.84	4.53	2.05	2.72	21.06	3.90	2.20	72.75

X-027N G-100 Self-Locking Swivel Hook w/ Bearing

G-100 Eye Self Locking Hook

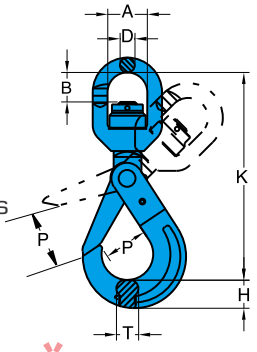
Product details

Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with EN 1677- 3 and ASME B30.26, ASME B30.10. PAS1061.
- Certified by DGUV GS-OA-15-05 & DGUV GS-MO-15-05
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1, Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Magnaflux crack detection is performed 100% on each batch.
- Built with ball bearing and enables full swivel feature under load.

YOKE® *Safety is our first priority™*

8-P025T
For 26mm



Special Order

Item Code	WLL [lbs]		Chain Size	Dimensions [in]							Net Weight
	4:1	5:1	[in]	A	B	D	H	K	P	T	Lbs
X-027N-06	3,200	2,600	7/32	1.26	0.87	0.47	0.75	5.87	1.10	0.59	1.54
X-027N-07	5,700	4,600	9/32-5/16	1.42	1.14	0.51	0.94	7.32	1.34	0.79	2.87
X-027N-10	8,800	7,000	3/8	1.61	1.34	0.63	1.18	8.58	1.73	1.02	4.41
X-027N-13	15,000	12,000	1/2	1.81	1.69	0.83	1.54	10.87	2.01	1.18	9.48
X-027N-16	22,600	18,100	5/8	2.40	1.97	0.91	1.93	12.95	2.36	1.42	16.09
X-027N-20	35,300	28,200	3/4	2.91	3.23	0.98	2.56	15.24	2.76	2.09	28.66
X-027N-22	42,700	34,200	7/8	3.82	3.74	1.30	2.48	17.99	3.15	1.93	44.09
X-027N-26	59,700	47,800	1	4.84	4.53	2.05	2.72	21.06	3.90	2.20	72.09

X-950 G-100 Eye Grip Safe Locking Hook

G-100 Eye Self Locking Hook

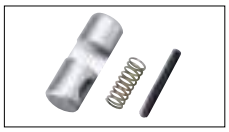
Product details

Aapplication

- Quenched and Tempered Alloy Steel.
- Manufactured in accordance with EN 1677- 1.
- Manufactured in accordance with ASTM A952/A952M, DIN PAS 1061.
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.

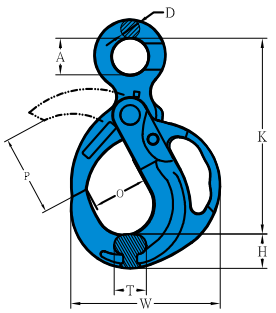
YOKE® *Safety is our first priority™*

- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Magnaflux crack detection is performed 100% on each batch.



8-P950

For push lock replacement



Special Order

Item Code	WLL [lbs]		Chain Size	Dimensions [in]								Net Weight
	4:1	5:1	[in]	A	D	H	K	O	P	T	W	Lbs
X-950-10	8,800	7,000	3/8	1.26	0.51	1.22	6.89	1.93	2.80	1.06	5.47	4.19
X-950-13	15,000	12,000	1/2	1.57	0.63	1.54	8.94	2.24	3.15	1.34	6.85	6.61
X-950-16	22,600	18,100	5/8	1.97	0.83	1.85	10.91	3.07	4.49	1.54	8.35	13.89
X-950-20	35,300	28,200	3/4	2.36	0.91	2.20	12.95	3.58	5.00	2.13	9.84	25.79
X-950-22	42,700	34,200	7/8	2.76	0.94	2.32	13.78	4.13	5.94	2.20	10.24	31.97

X-950 G-100 Swivel Grip Safe Locking Hook

G-100 Swivel Self Locking Hook

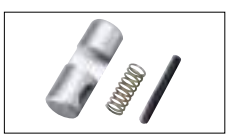
Product details

Aapplication

- Quenched and Tempered Alloy Steel.
- Manufactured in accordance with EN 1677- 1.
- Manufactured in accordance with ASTM A952/A952M, DIN PAS 1061.
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.

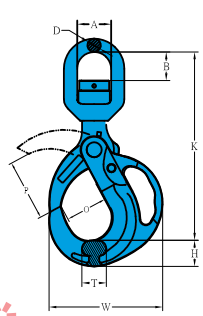
YOKE® *Safety is our first priority™*

- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Magnaflux crack detection is performed 100% on each batch.
- Built with ball bearing and enables full swivel feature under load.



8-P950

For push lock replacement



Special Order

Item Code	WLL [lbs]		Chain Size	Dimensions [in]									Net Weight
	4:1	5:1	[in]	A	B	D	H	K	O	P	T	W	Lbs
X-952N-10	8,800	7,000	3/8	1.61	1.34	0.63	1.22	8.86	1.93	2.80	1.06	5.47	5.29
X-952N-13	15,000	12,000	1/2	1.81	1.73	0.83	1.54	11.22	2.24	3.15	1.34	6.85	11.46
X-952N-16	22,600	18,100	5/8	2.40	1.97	0.91	1.85	13.58	3.07	4.49	1.54	8.35	18.52
X-952N-20	35,300	28,200	3/4	2.91	3.23	0.98	2.20	17.05	3.58	5.00	2.13	9.84	31.97
X-952N-22	42,700	34,200	7/8	3.82	3.74	1.30	2.32	18.70	4.13	5.94	2.20	10.24	43.87

X-025 G-100 Eye Self Locking Hook

G-100 Eye Foundry Hook

Product details

Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products. Manufactured in accordance with EN 1677- 3 and ASME B30.26, ASME B30.10, PAS1061.
- Certified by DGUV GS-OA-15-05 & DGUV GS-MO-15-05.
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Magnaflux crack detection is performed 100% on each batch.

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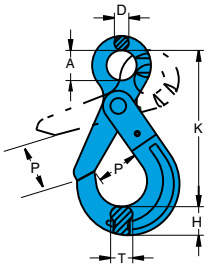
8-P025T

For trigger



Item Code	WLL [lbs]		Chain Size	Dimensions [in]						Net Weight
	4:1	5:1	[in]	A	D	H	K	P	T	lbs
X-025-06	3,200	2,600	7/32	0.83	0.39	0.75	4.33	1.10	0.59	1.10
X-025-07	5,700	4,600	9/32-5/16	0.98	0.43	0.94	5.35	1.34	0.79	1.76
X-025-10	8,800	7,000	3/8	1.26	0.51	1.18	6.57	1.73	1.02	3.31
X-025-13	15,000	12,000	1/2	1.57	0.63	1.54	8.15	2.01	1.18	6.61
X-025-16	22,600	18,100	5/8	1.97	0.83	1.93	9.92	2.36	1.42	12.79
X-025-20	35,300	28,200	3/4	2.36	0.91	2.56	11.42	2.76	2.09	22.05
X-025-22	42,700	34,200	7/8	2.76	0.94	2.48	12.56	3.15	1.93	27.56
X-025-26	59,700	47,800	1	3.15	0.98	2.72	13.50	3.90	2.20	33.07

X-047 G-100 Eye Foundry Hook

G-100 Eye Foundry Hook

Product details

Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with DIN PAS 1061 and ASTM A952/A 952M,EN 1677- 1,
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Not used for general chain sling applications, rather for use where a large throat opening is necessary.
- Before using the hook, check whether hooks without safety latches are allowed to be used for the particular application.

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Item Code	WLL [lbs]		Chain Size	Dimensions [in]						Net Weight
	4:1	5:1	[in]	A	D	H	K	P	T	Lbs
X-047-07	5,700	4,600	9/32-5/16	0.94	0.47	1.06	4.84	2.44	0.75	1.76
X-047-10	8,800	7,000	3/8	1.26	0.59	1.26	5.87	2.91	0.91	3.53
X-047-13	15,000	12,000	1/2	1.57	0.75	1.54	7.09	3.46	1.26	5.73
X-047-16	22,600	18,100	5/8	1.97	0.98	1.85	8.39	3.86	1.61	9.92
X-047-20	35,300	28,200	3/4	2.36	1.02	2.24	9.76	4.45	1.81	20.50

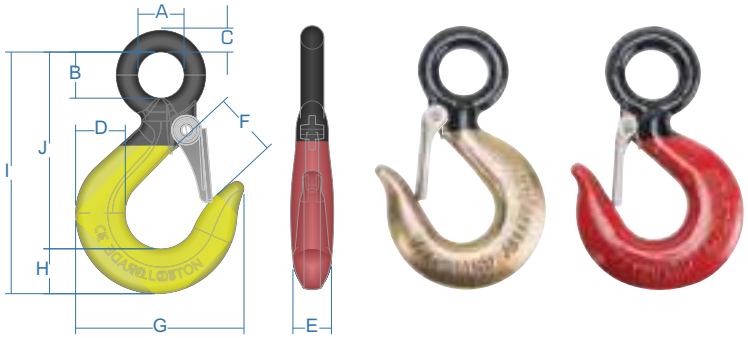
Eye Hoist Hooks

Eye Type Hoist Hook

Product details

Aapplication

- Forged Carbon or Alloy Steel, quenched & tempered
- Embossed Working Load Limit (WLL) with 5:1 safety factor
- Colour coding prevents mix-ups
- Carbon Steel - black eye, red body
- Alloy Steel - black eye, gold body



Item Code		WLL [lbs]		Dimensions [in]										Net Weight
Carbon	Alloy	Carbon	Alloy	A	B	C	D	E	F	G	H	I	J	lbs
1022205	-	0.50	-	0.56	0.62	0.35	0.75	0.53	0.76	2.55	0.75	3.83	2.75	0.38
1022216	1022380	0.75	1.00	1.50	0.75	0.38	0.88	0.63	0.94	2.88	0.75	4.38	3.25	0.50
1022227	1022391	1.00	1.50	1.75	0.88	0.44	1.00	0.69	1.06	3.13	0.81	4.88	3.63	0.80
1022238	1022402	1.50	2.00	2.00	1.13	0.50	1.19	0.81	1.12	3.50	1.00	5.50	4.13	1.10
1022246	1022413	2.00	3.00	2.38	1.25	0.59	1.38	0.94	1.22	3.94	1.19	6.31	4.56	1.70
1022260	1022424	3.00	4.50	3.00	1.56	0.69	1.63	1.19	1.50	5.00	1.50	7.94	5.75	3.60
1022271	1022435	5.00	7.00	3.81	2.00	0.88	2.06	1.50	1.88	6.25	1.75	10.00	7.38	7.00
1022277	1022446	7.50	11.00	4.70	2.43	1.19	2.53	1.68	2.23	7.25	2.37	12.25	9.00	13.27

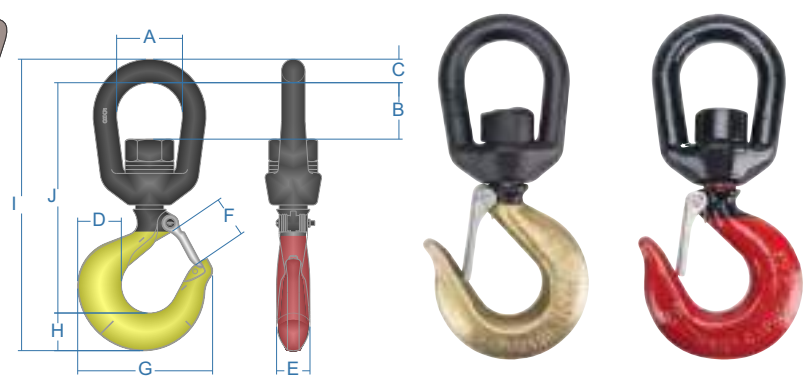
Swivel Eye Hoist Hooks

Swivel Eye Type Hoist Hook

Product details

Aapplication

- Forged Carbon or Alloy Steel, quenched & tempered
- Embossed Working Load Limit (WLL) with:
  5:1 safety factor for Carbon hooks
  4.5:1 safety factor for Alloy hooks

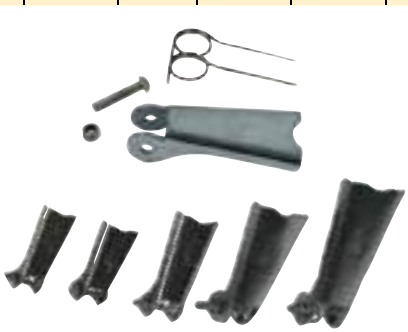


Item Code		WLL [lbs]		Dimensions [in]										Net Weight
Carbon	Alloy	Carbon	Alloy	A	B	C	D	E	F	G	H	I	J	lbs
1048603	1048807	0.75	1.00	1.23	0.92	0.40	0.83	0.60	0.98	2.95	0.86	5.50	4.35	0.55
1048612	1048816	1.00	1.50	1.50	1.35	0.52	0.94	0.66	1.07	3.33	0.86	6.50	5.23	0.75
1048621	1048825	1.50	2.00	1.73	1.70	0.64	1.13	0.75	1.10	3.75	1.04	7.50	6.00	1.25
1048630	1048834	2.00	3.00	1.70	1.60	0.64	1.36	0.87	1.21	4.25	1.20	8.00	6.25	1.70
1048639	1048840	3.00	4.50	1.95	1.84	0.78	1.66	1.11	1.52	5.00	1.55	9.50	7.50	3.60
1048648	1048859	5.00	7.00	2.42	2.42	1.02	2.10	1.35	2.04	7.00	1.99	11.75	9.75	7.08
1048657	1048868	7.50	11.00	2.70	2.51	1.10	2.65	1.75	2.40	8.00	2.45	14.50	11.12	13.00
1048666	1048880	10.00	15.00	4.10	3.76	1.50	3.50	2.69	3.41	10.34	3.00	21.34	16.71	22.00
1048675	1048889	15.00	22.00	4.10	3.76	1.50	4.63	3.00	4.00	13.62	3.61	23.25	18.01	41.00

Stainless Latch Kits (FOR HOIST HOOKS)

Item No.	Carbon	Alloy
75-1090027	3/4	1
75-1090045	1	1-1/2
75-1090063	1-1/2	2
75-1090075	2	3

Item No.	Carbon	Alloy
75-1090081	3	4-1/2
75-1090107	5	7
75-1090125	7-1/2	11
75-1090126	11	15



8-073 Container Hook. Code "KL"

Container Lifting Eye Hook

Product details

Aapplication

- Specifically designed for use with container fittings
- Container Hooks shall always be used with a spreader, either a 2 point spreader bar or a 4 point spreader.
- We recommend that you use a spreader and lift from the bottom when the container is loaded as this is where the container is sstrongest

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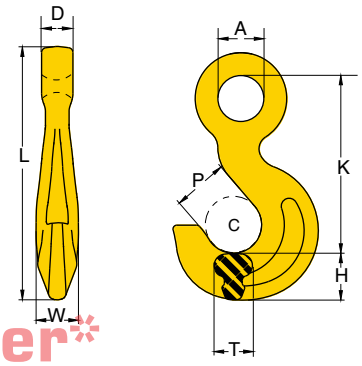

Special Order

Item Code	WLL [lbs]		Chain Size *Gr.80	Dimensions [in]									Net Weight
	4:1	5:1	[in]	A	C	D	H	K	L	P	T	W	Lbs
8-073-16	22,600	18,100	5/8	1.93	2.37	1.26	1.97	7.44	10.31	2.28	1.61	1.73	8.16

8-067 Eye Container Hook Code "KA"

Container Lifting Eye Hook

Product details

Aapplication

- Specifically designed for use with container fittings
- Container Hooks shall always be used with a spreader, either a 2 point spreader bar or a 4 point spreader.»
- Available as a straight and turned 45 degrees. To avoid the risk of disengagement during use, a tolerance of +- 15 degrees from nominal should be adhered to.
- We recommend that you use a spreader and lift from the bottom when the container is loaded as this is where the container is strongest

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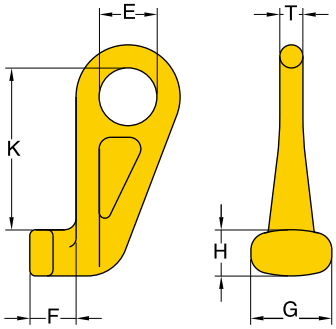
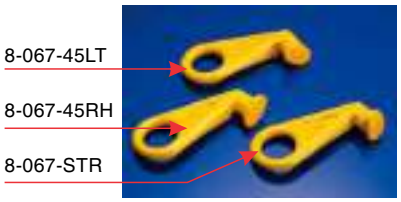


Item Code	WLL [lbs]		Desc.	Dimensions [in]						Net Weight
	4:1	5:1	[in]	E	F	G	H	K	T	Lbs
8-067-STR	27,500	22,100	Straight	2.76	1.77	2.95	1.89	7.56	0.98	8.60
8-067-45LT	27,500	22,100	Left 45°	2.76	1.77	2.95	1.89	7.56	0.98	8.60
8-067-45RH	27,500	22,100	Right 45°	2.76	1.77	2.95	1.89	7.56	0.98	8.60



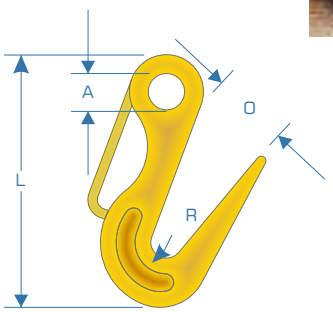
Oceanside Alloy Sorting Hook w/Handle

Sorting Hook w/ Handle

Product details

Aapplication

- Material: Steel
- Finish: Powder Coated
- Design Factor: 4:1
- Identification: Trademark, Size/WLL, Batch Code
- Rated in Metric Ton(s)



Item Code	WLL [lbs] 4:1		Dimensions [in]				Net Weight
	Bottom	Tip	A	R	L	O	Lbs
74-6-2TSH	16,500	4,400	1.38	0.63	9.69	2.81	6.25

VCOH Cobra - Eye Hoist Hooks

Eye Type Hoist Hook

Product details

Aapplication

- The Cobra hook with a ring connection and of course all the advantages of a RUD - clevis hook.
- A very robust design and without a protruding tip of the hook.
- The forged safety latch engaged in the tip of the hook, and is thus protected against lateral bending.
  With a triple coiled corrosion protected double leg spring.
- Thickened tip of the hook prevents improper use.
- Gauge marks for measuring the width of the hook opening .

Item Code	WLL [lbs]		Chain Size	Dimensions [in]									Net Weight
	4:1	5:1	[in]	T	A	B	C	D	E	F	G	H	Lbs
8502323	1,390	1,100	5/32	2.95	0.71	0.71	0.47	0.51	0.55	0.71	2.05	0.31	0.33
8502203	3,300	2,600	7/32	3.82	0.94	0.87	0.63	0.79	0.94	0.98	2.87	0.43	0.84
8502142	5,500	4,400	5/16	4.96	1.26	1.10	0.79	1.10	1.22	1.18	3.74	0.51	1.76
8502145	8,800	7,000	3/8	5.91	1.50	1.42	1.02	1.42	1.54	1.38	4.65	0.67	3.48
8502204	15,000	11,800	1/2	6.85	1.89	1.77	1.18	1.46	1.89	1.57	5.31	0.83	6.83
8502146	22,000	17,600	5/8	8.19	2.48	2.20	1.42	1.93	2.28	1.89	6.34	1.06	10.91

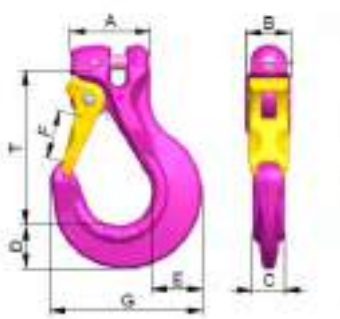
VCGH Cobra - Clevis Hoist Hooks

Clevis Type Hoist Hook

Product details

Aapplication

- A robust improved version without a protruding hook tip.
- The forged safety latch engages in the tip of the hook and is thus protected against lateral bending.
- With a triple coiled corrosion protected double leg spring.
- Thickened tip of the hook to prevent misuse.
- Wear marks on both sides.
- Gauge marks for measuring the width of the hook opening
- Connecting bolt and tensioning sleeve are pre-assembled.



Item Code	WLL [lbs]	Chain Size	Dimensions [in]								Net Weight
	4:1	[in]	T	A	B	C	D	E	F	G	Lbs
7984439	1,390	5/32	2.20	0.79	0.55	0.49	0.51	0.55	0.71	2.05	0.26
7100498	3,300	7/32	2.99	1.50	0.87	0.63	0.79	0.94	0.98	2.83	0.86
7100499	5,500	5/16	3.82	1.97	1.10	0.79	1.10	1.26	1.18	3.74	1.72
7100500	8,800	3/8	4.25	2.36	1.42	1.02	1.42	1.54	1.38	4.65	3.31
7100501	15,000	1/2	4.96	2.99	1.81	1.18	1.46	1.89	1.57	5.31	6.26
7100502	22,000	5/8	5.98	3.27	2.20	1.42	1.93	2.28	1.89	6.34	10.34

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death!

For full user manual please visit www.superslings.ca

Flat Webbing Choker. Code "FM"

Web Sling Choker Hook

Product details

Aapplication

- Material: Steel
- Finish: Powder Coated
- Design Factor: 4:1
- Identification: Trademark, Size/WLL, Batch Code
- Rated in Metric Ton(s)

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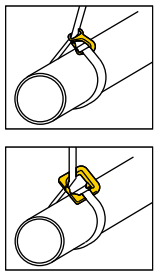

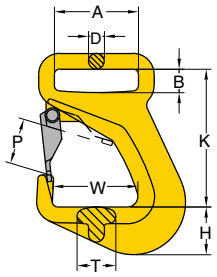

Item Code	WLL [lbs]		Dimensions [in]								Net Weight
	4:1	5:1	A	B	D	H	K	P	T	W	Lbs
8-031-02	4,400	3,500	3.19	0.94	0.55	1.73	5.51	1.73	1.57	3.15	4.85

Sliding Choker Hook

Sliding Choker Hook

Product details

Aapplication

- Material: Steel
- Finish: Powder Coated
- Design Factor: 5:1
- Identification: Trademark, Size/WLL, Batch Code
- Rated in Metric Ton(s)

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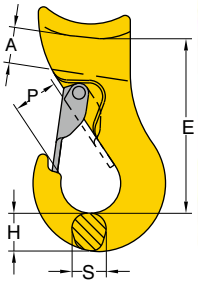
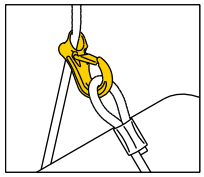


Item Code	WLL [lbs]	Wire Rope Size	Dimensions [in]					Net Weight
	5:1	mm	A	E	H	P	S	Lbs
8-074-09/13	3,300	3/8-1/2	0.63	3.43	0.94	0.71	0.71	1.32
8-074-14/16	4,900	9/16-5/8	0.83	3.86	1.14	0.79	0.87	1.98



8-063 Twist Eye Choke Hook Code "KE"

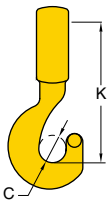
Sliding Choker Hook

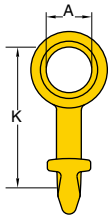
Product details

Aapplication

- Material: Steel
- Finish: Powder Coated
- Design Factor: 4:1
- Identification: Trademark, Size/WLL, Batch Code
- Rated in Metric Ton(s)

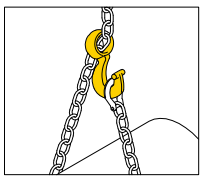
YOKE® Safety is our first priority™





Special Order

Item Code	WLL [lbs]	Dimensions [in]				Net Weight
	4:1	mm	A	C	K	Lbs
8-063-07	4,400	9/32-5/16	1.26	0.75	3.74	0.88
8-063-10	6,900	3/8	1.61	0.83	4.57	1.76
8-063-13	11,700	1/2	1.97	1.06	5.91	4.41
8-063-16	17,600	5/8	2.64	1.26	7.28	6.83



8-018 Omega Link Code "YO"

Connecting Link

Product details

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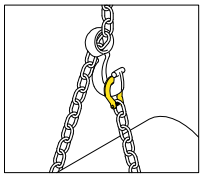
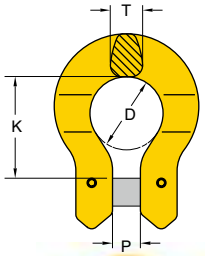
Special Order





Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	D	K	P	T	Lbs
8-018-06	2,100	7/32	0.83	1.18	0.31	0.35	0.22
8-018-07	4,500	9/32-5/16	1.06	1.42	0.35	0.43	0.44
8-018-10	7,100	3/8	1.26	1.73	0.47	0.59	0.88
8-018-13	12,000	1/2	1.65	2.17	0.63	0.67	1.76
8-018-16	18,100	5/8	1.97	2.72	0.71	0.87	3.53

X-043 G-100 Clevis Sling Hooks

Clevis Sling Hook

Product details

Aapplication

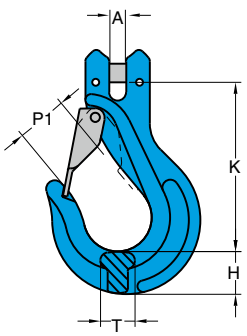
- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with EN 1677- 2 and ASME B30.26, ASME B30.10, PAS1061.
- Certified by DGUV GS-OA-15-05 & DGUV GS-MO-15-05

YOKE® *Safety is our first priority™*

- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Magnaflux crack detection is performed 100% on each batch.

X-P026
For load pin replacement

8-P044
For latch replacement



Item Code	WLL	Chain Size	Dimensions [in]					Net Weight
	4:1 lbs	[in]	A	H	K	P1	T	lbs
X-043/S-06	3,200	7/32	0.24	0.91	3.82	0.91	0.59	0.66
X-043/S-07	5,700	9/32-5/16	0.35	0.87	3.86	1.06	0.71	1.32
X-043/S-10	8,800	3/8	0.43	1.18	4.80	1.34	0.94	2.43
X-043/S-13	15,000	1/2	0.55	1.46	5.79	1.73	1.18	5.07
X-043/S-16	22,600	5/8	0.67	1.65	6.54	1.89	1.54	8.38
X-043/S-20	35,300	3/4	0.94	2.52	8.15	2.24	1.89	19.18
X-043/S-22	42,700	7/8	0.98	2.40	8.54	2.87	2.05	20.94

X-026 G-100 Self-Locking Clevis Hook

Clevis Self-Locking Hook

Product details

Aapplication

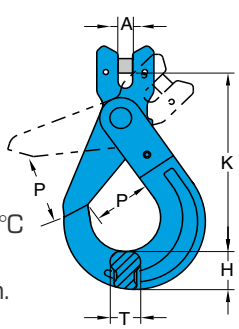
- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with EN 1677- 3 and ASME B30.26, ASME B30.10, PAS1061.
- Certified by DGUV GS-MO-15-05

YOKE® *Safety is our first priority™*

- Proof Load tested at 2.5 times the WLL with certification for
- each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature min 400°C
- Magnaflux crack detection is performed 100% on each batch.

X-P026
For load pin replacement

8-P025T
For trigger replacement



Item Code	WLL	Chain Size	Dimensions [in]					Net Weight
	4:1 lbs	[in]	A	H	K	P	T	lbs
X-026-06	3,200	7/32	0.24	0.75	3.66	1.10	0.59	0.88
X-026-07	5,700	9/32-5/16	0.35	0.94	4.69	1.34	0.79	1.98
X-026-10	8,800	3/8	0.43	1.18	5.59	1.73	1.02	3.09
X-026-13	15,000	1/2	0.55	1.54	7.01	2.01	1.18	6.61
X-026-16	22,600	5/8	0.71	1.93	8.39	2.36	1.42	11.02
X-026-20	35,300	3/4	0.83	2.56	9.61	2.76	2.09	24.25
X-026-22	42,700	7/8	0.94	2.48	10.75	3.15	1.93	29.76

X-042N G-100 Clevis Grab Hook

Clevis Sling Hook

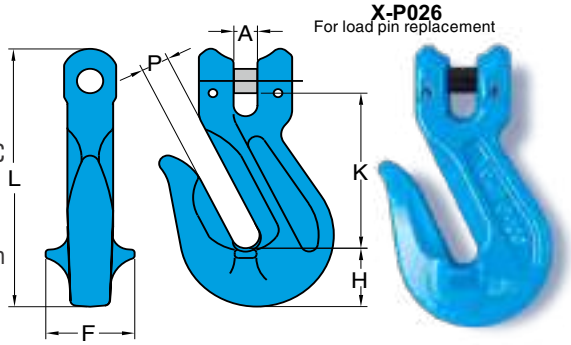
Product details

YOKE® Safety is our first priority™

X-P026
For load pin replacement

Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with DIN PAS 1061, EN 1677-1 and ASTM A952/A 952M.
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1, Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature min 400°C
- Not for use with Omega Link
- Enables full WLL while in use, thanks to supporting wings which prevent chain link deformation.
- Certified by DGUV GS-MO-15-05



Item Code	WLL	Chain Size	Dimensions [in]						Net Weight
	4:1 lbs	[in]	A	F	H	K	L	P	lbs
X-042-06	3,200	7/32	0.28	0.98	0.71	1.85	3.11	0.31	0.44
X-042-07	5,700	9/32-5/16	0.39	1.18	0.87	2.13	3.66	0.39	0.88
X-042-10	8,800	3/8	0.43	1.61	1.14	3.03	5.04	0.51	1.76
X-042-13	15,000	1/2	0.59	2.05	1.50	3.90	6.50	0.67	3.53
X-042-16	22,600	5/8	0.71	2.24	1.77	4.49	7.68	0.83	5.95
X-042-20	35,300	3/4	0.87	2.87	2.05	5.12	8.74	0.91	10.58
X-042-22	42,700	7/8	0.94	2.76	2.20	5.47	9.72	1.02	14.11

X-046 G-100 Clevis Foundry Hook

Clevis Foundry Hook

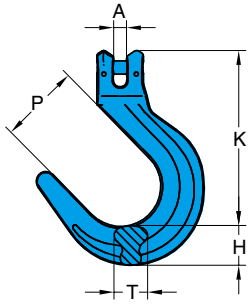
Product details

YOKE® Safety is our first priority™

X-P026
For load pin replacement

Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with DIN PAS 1061 and ASTM A952/A 952M,EN 1677- 1,
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature minimum 400°C
- Not used for general chain sling applications, rather for use where a large throat opening is necessary.
- Before using the hook, check whether hooks without safety latches are allowed to be used for the particular application.



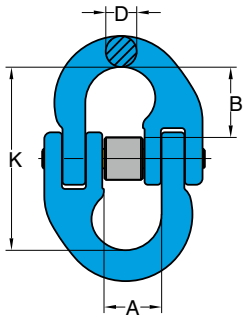
Item Code	WLL	Chain Size	Dimensions [in]					Net Weight
	4:1 lbs	[in]	A	H	K	P	T	lbs
X-046-07	5,700	9/32-5/16	0.35	1.06	5.24	2.44	0.75	2.09
X-046-10	8,800	3/8	0.43	1.26	6.42	2.91	0.91	3.97
X-046-13	15,000	1/2	0.55	1.54	7.87	3.46	1.26	7.94
X-046-16	22,600	5/8	0.71	1.85	9.41	3.86	1.61	14.11
X-046-20	35,300	3/4	0.83	2.44	12.01	4.45	1.81	24.69

X-015 G-100 Connecting Link.

YOKE Safety is our first priority™

Connecting Link

Product details



Item Code	WLL	Chain Size	Dimensions [in]				Net Weight
	4:1 lbs	[in]	A	B	D	K	lbs
X-015-06	3,200	7/32	0.59	0.71	0.28	1.77	0.18
X-015-07	5,700	9/32-5/16	0.71	0.98	0.35	2.32	0.44
X-015-10	8,800	3/8	0.98	1.10	0.43	2.72	0.66
X-015-13	15,000	1/2	1.18	1.50	0.63	3.62	1.54
X-015-16	22,600	5/8	1.42	1.61	0.75	3.98	2.65
X-015-20	35,300	3/4	1.65	1.97	0.91	4.80	4.63
X-015-22	42,700	7/8	1.93	2.48	0.94	5.98	7.72
X-015-26	59,700	1	2.17	2.60	1.18	6.38	10.58

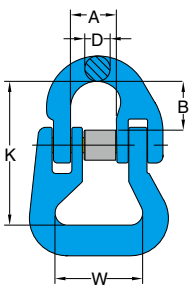
X-016 G-100 Web Sling Connector

YOKE Safety is our first priority™

Connecting Link

Product details

Item Code	WLL	Chain Size	Dimensions [in]					Net Weight
	4:1 lbs	[in]	A	B	D	K	W	lbs
X-016-06	3,200	7/32	0.59	0.67	0.28	2.17	1.50	0.44
X-016-07	5,700	9/32-5/16	0.71	0.87	0.35	2.44	1.57	0.66
X-016-10	8,800	3/8	0.98	1.02	0.43	3.07	1.85	1.32
X-016-13	15,000	1/2	1.18	1.38	0.63	3.74	2.09	2.43
X-016-16	22,600	5/8	1.42	1.50	0.75	4.53	2.64	4.41
X-016-20	35,300	3/4	1.65	1.81	0.87	5.20	3.15	7.05
X-016-22	42,700	7/8	1.93	2.32	0.94	7.36	4.92	16.98



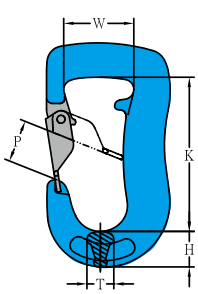
X-032 G-100 100 Web Sling Hook

YOKE Safety is our first priority™

Coupling Self-Locking Hook

Product details

Item No.	Working Load Limit (lbs)		Dimensions (mm)					Net Weight
	4:1	5:1	H	K	P	T	W	lbs
74-X-032-01	2,200	1,700	0.79	3.50	0.98	0.59	1.69	1.54
74-X-032-02	4,400	3,500	1.06	4.57	1.18	0.79	2.09	3.31
74-X-032-03	6,600	5,200	1.26	4.69	1.26	1.02	2.52	5.29
74-X-032-05	11,000	8,800	1.73	5.71	1.77	1.50	2.40	7.72



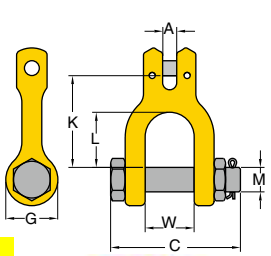
8-066 G-80 "YR" Clevis Shackle

YOKE Safety is our first priority™

Connecting Link

Product details

Special Order



Item Code	WLL [lbs]	Chain Size	Dimensions [in]							Net Weight
	4:1	[in]	A	C	G	K	L	M	W	lbs
8-066-07	4,500	9/32-5/16	0.35	3.11	1.34	2.32	1.38	0.63	1.30	0.88
8-066-10	7,100	3/8	0.43	3.66	1.57	3.07	1.89	0.79	1.34	1.76
8-066-13	12,000	1/2	0.55	4.65	1.73	3.86	2.52	0.87	1.93	3.09
8-066-16	18,100	5/8	0.71	5.55	2.13	4.41	2.72	1.10	2.36	5.29

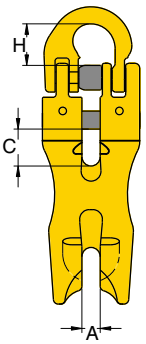
8-078 Grade 80 Shortening Clutch w/ Half-Link

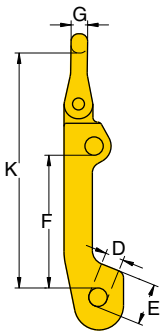
Chain Shortener

Product details

YOKE® Safety is our first priority™





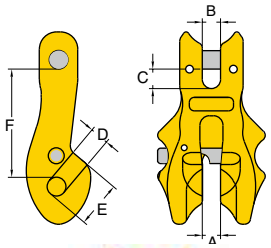
Item Code	WLL [lbs]	Chain Size	Dimensions [in]								Net Weight
	4:1	[in]	A	C	D	E	F	H	G	K	lbs
8-078-07	4,500	9/32-5/16	0.47	0.79	0.39	0.91	2.76	0.87	0.35	5.04	1.54
8-078-10	7,100	3/8	0.51	1.02	0.47	1.14	3.43	1.02	0.43	6.06	2.87
8-078-13	12,000	1/2	0.59	1.30	0.63	1.46	4.53	1.42	0.59	7.99	6.17
8-078-16	18,100	5/8	0.83	1.54	0.75	1.81	5.63	1.54	0.75	9.76	11.68

055 Grade 80 Coupling Sling Hook. Code "EB"

Chain Shortener

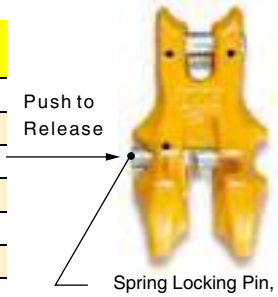
Product details

YOKE® Safety is our first priority™



Special Order

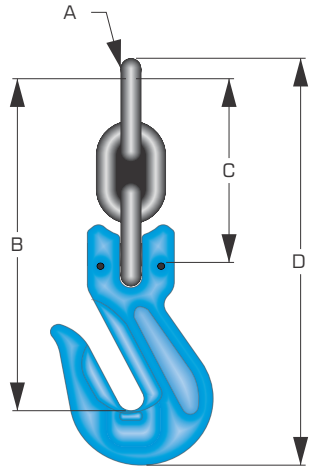
Item Code	WLL [lbs]	Chain Size	Dimensions [in]						Net Weight
	4:1	[in]	A	B	C	D	E	F	lbs
8-061-06	2,100	7/32	0.28	0.28	0.39	0.28	0.71	1.97	0.66
8-061-07	4,500	9/32-5/16	0.39	0.39	0.39	0.39	0.94	2.20	1.10
8-061-10	7,100	3/8	0.47	0.47	0.47	0.47	1.10	2.60	1.98
8-061-13	12,000	1/2	0.59	0.59	0.63	0.63	1.54	3.46	4.85
8-061-16	18,100	5/8	0.71	0.83	0.75	0.75	1.89	4.06	8.16
8-061-20	28,300	3/4	0.87	0.91	0.91	0.83	2.17	5.20	12.79



Grade 100 Grab Hook Shortening Leg

Chain Shortener

Product details



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	A	B	C	D	lbs
53-ADJ932	5,700	9/32-5/16	0.29	4.91	2.55	6.05	1.76
53-ADJ38	8,800	3/8	0.40	5.49	3.59	7.95	3.53
53-ADJ12	15,000	1/2	0.52	8.82	4.71	10.88	7.06
53-ADJ58	22,600	5/8	0.64	10.95	5.79	13.55	11.9

Midgrab Chain Shortener

Chain Shortener

Product details

Aapplication

- Instant mounting and positioning on any part of the chain.
- Designed to prevent inadvertent chain disengagement.
- Can be set idle on the chain leg when shortening is not required
- For high visibility in the field.
- Fatigue tested
- Forged alloy steel
- Quenched and tempered
- 100% proof load of each MIG
- Secure mounting with locking set on any desired part of the chain with one chain direction open for shortening
- Close-open function in both chain directions for safe retention of the chain
- Spring and trigger in stainless steel
- Easy-to-use shortening in either chain direction up-down
- The design makes it easy to place the MIG on the chain correctly.

Locking options

MIG C

MIG CC

MIG L

MIG LC

f-locking devices for MIG

Note! The MIG should be used with at least one locking devices.

L - fixed locking sel

for fixed mounting

Code:

L-8: B14905
L-10: B14915
L-13: B14917

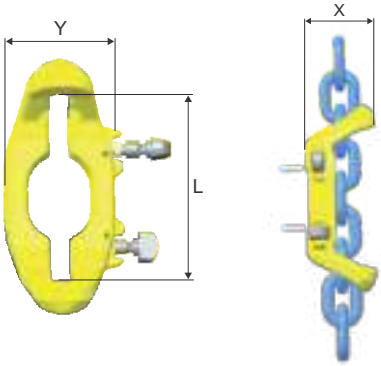
C - close/open locking set

Spring operated locking device. Can be placed either in open or closed position.

Code:

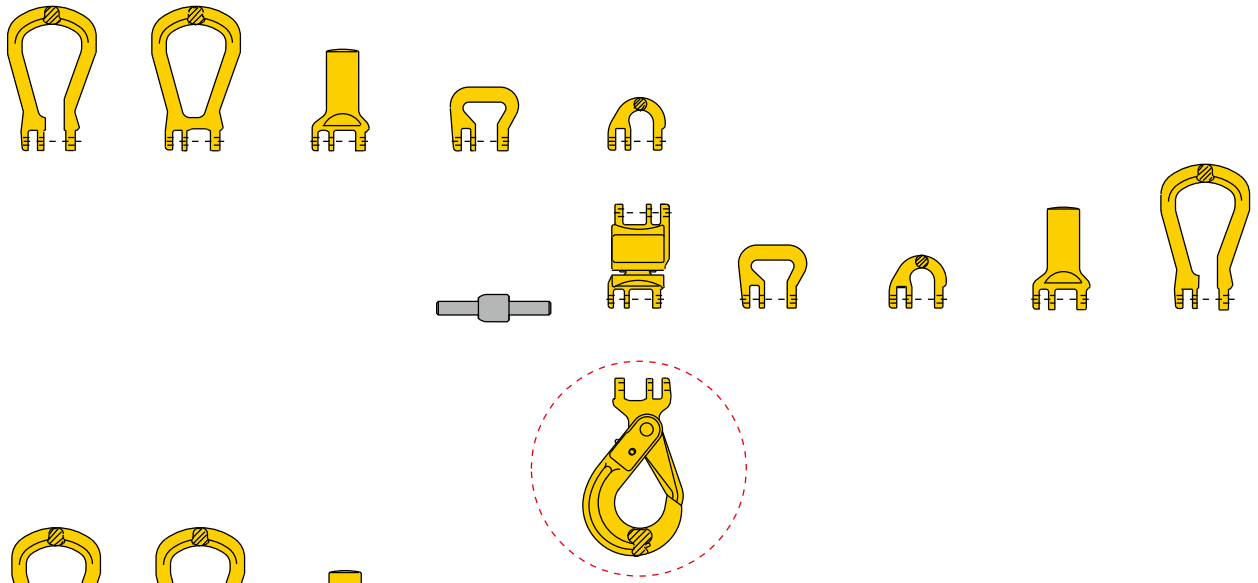
C-8: B14904
C-10: B14914
C-13: B14916

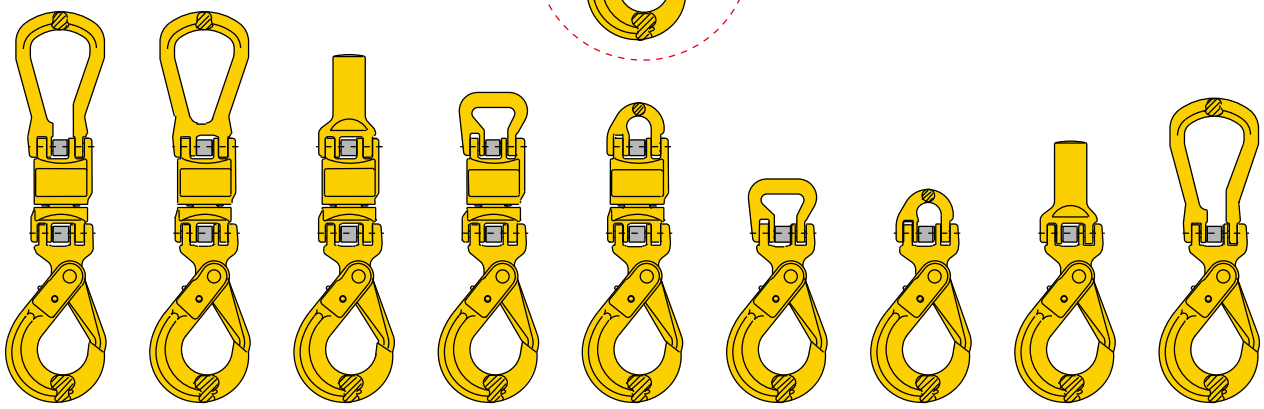
Item Code	WLL (lbs) 4:1	Dimensions (in)			Net Weight
	EN 1677-4	L	X	Y	lbs
MIG- 8-10	5,700.00	3.74	1.97	2.36	1.38
MIG-10-10	8,800.00	4.92	2.76	3.03	2.34
MIG-13-10	15,000.00	5.91	3.54	3.15	5.38
MIG CC-8-10	5,700.00	3.74	1.97	2.36	2.18
MIG CC-10-10	8,800.00	4.92	2.76	3.03	2.18
MIG CC-13-10	15,000.00	5.91	3.54	3.15	5.73

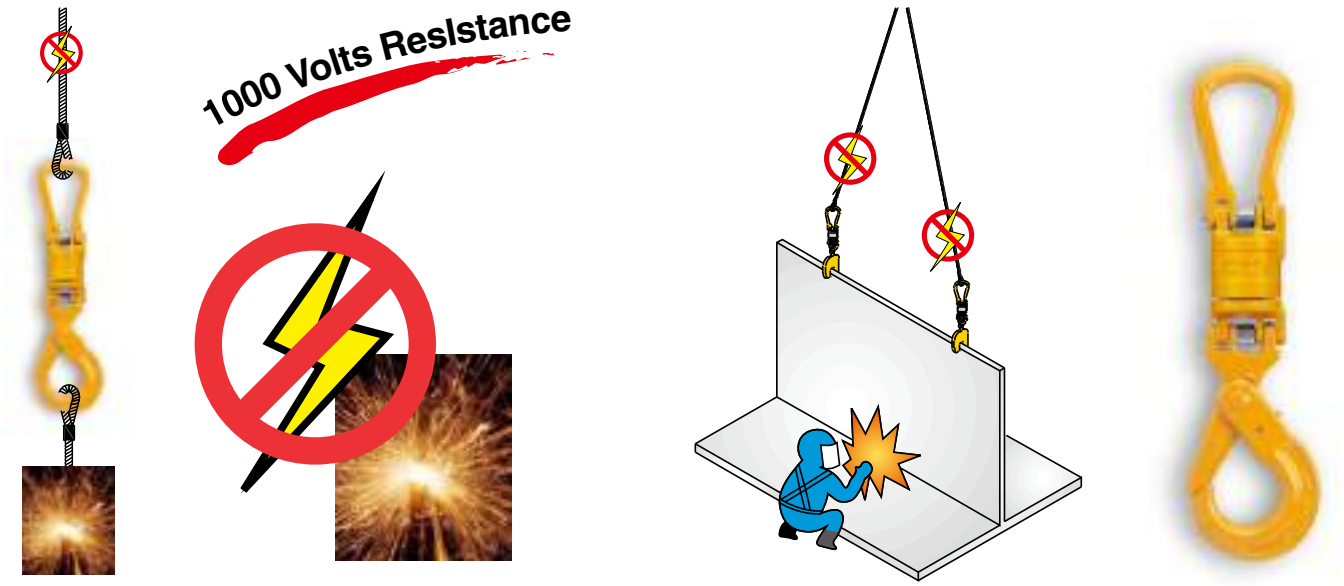


YOKE Insulation Solution

- YOKE Insulated Swivel is designed for winch protection in overhead crane during welding operations.
- Heavy hoisting with a strong but lightweight system.
- Individual swivels & components are 100% proof load tested to a minimum of 2.5 times the working load limit.
- All Swivels are individually tested during manufacturing to assure 1000 Volts insulating property. Test certificate is packaged with each unit shipped.
- YOKE Insulated Swivels are designed with ball bearing which performs to fully swivel under Load.
- Acquired (K 91) certificate approved by Deutsche Gesetzliche Unfallversicherung (DGUV) .







Yoke Coupling System

YOKE's innovative, fine design with " Coupling Pin " system hook is able to solve any of your problems in Chain, Wire Rope and Synthetic Slings. The hook :

- 1. Create safer lifting with the use of " Self Locking " system.
- 2. Assembly is fast and easy with only a hammer required.
- 3. Acquired certificate approved by BG German company.
- 4. Patent :Taiwan, China, France, Germany, Italy, Japan,USA, Switzerland.

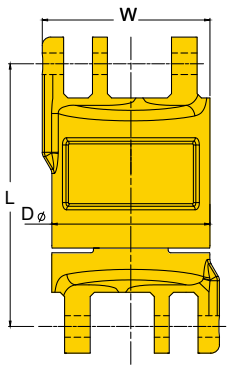
088N Grade 80 Insulated Blank Swivel

"BSI" Insulated Blank Swivel

Product details

YOKE® *Safety is our first priority™*

Item Code	WLL [lbs]	Chain Size	Dimensions [in]		Net Weight
	4:1	[in]	D	L	lbs
8-088N-07	4,500	9/32-5/16	1.97	2.95	1.32
8-088N-10	7,100	3/8	2.44	3.70	0.05
8-088N-13	12,000	1/2	3.03	4.84	0.09
8-088N-16	18,100	5/8	3.70	5.63	0.17
8-088N-20	28,300	3/4	4.29	6.46	0.26



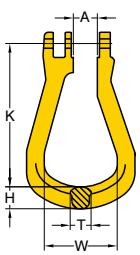
1000 Volts Resistance

051 Grade 80 Coupling Master Link. Code "EC"

Coupling Masterlink

Product details

YOKE® *Safety is our first priority™*



Item Code	WLL [lbs]	Chain Size	Dimensions [in]					Net Weight
	4:1	[in]	A	H	K	T	W	lbs
8-051-07	4,500	9/32-5/16	0.59	0.59	3.94	0.59	1.97	0.66
8-051-10	7,100	3/8	0.75	0.75	5.00	0.75	2.60	1.32
8-051-13	12,000	1/2	0.98	0.87	5.71	0.91	2.83	2.20
8-051-16	18,100	5/8	1.18	1.02	6.85	0.98	3.15	3.53
8-051-20	28,300	3/4	1.42	1.42	7.95	1.22	4.09	6.17

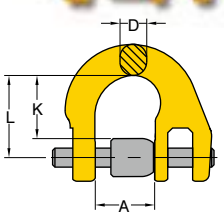
054 Grade 80 Half Coupling Link. Code "BST"

Half-Coupling Link

Product details

YOKE® *Safety is our first priority™*

Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	A	D	K	L	lbs
8-054-06	2,100	7/32	0.59	0.28	0.67	0.87	0.22
8-054-07	4,500	9/32-5/16	0.71	0.35	0.87	1.10	0.22
8-054-10	7,100	3/8	0.98	0.43	1.02	1.34	0.44
8-054-13	12,000	1/2	1.18	0.63	1.38	1.77	0.88
8-054-16	18,100	5/8	1.42	0.75	1.50	1.97	1.32
8-054-20	28,300	3/4	1.65	0.87	1.81	2.36	2.43
8-054-22	34,200	7/8	1.93	0.94	2.32	2.99	3.75
8-054-26	47,700	1	2.17	1.18	2.44	3.15	5.95
8-054-32	72,300	1-1/4	2.72	1.42	3.11	3.94	11.02



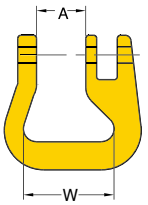
053 Grade 80 Round Sling Coupling. Code "YW"

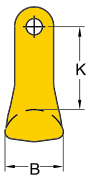
Round Sling Coupling

Product details

YOKE® *Safety is our first priority™*

Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	A	B	K	W	lbs
8-053-06	2,500	7/32	0.59	0.87	1.30	1.50	0.44
8-053-07	4,500	9/32-5/16	0.71	0.94	1.30	1.57	0.44
8-053-10	7,100	3/8	0.98	1.14	1.65	1.85	0.88
8-053-13	12,000	1/2	1.18	1.38	2.01	2.09	1.54
8-053-16	18,100	5/8	1.42	1.73	2.48	2.64	2.87
8-053-20	28,300	3/4	1.65	2.05	2.80	3.15	4.63
8-053-22	34,200	7/8	1.93	2.83	4.41	4.92	12.57
8-053-26	47,700	1	2.17	3.31	5.12	5.91	19.84
8-053-32	72,300	1-1/4	2.72	3.35	6.50	7.48	30.86





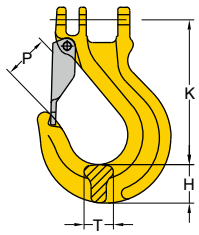
055 Grade 80 Coupling Sling Hook. Code "EB"

Coupling Sling Hook

Product details

YOKE® *Safety is our first priority™*

Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	H	K	P	T	lbs
8-055-07	4,500	9/32-5/16	0.91	3.66	1.18	0.75	0.88
8-055-10	7,100	3/8	1.22	4.53	1.42	0.91	1.98
8-055-13	12,000	1/2	1.42	5.55	1.65	1.10	3.97
8-055-16	18,100	5/8	1.77	6.54	1.85	1.26	6.61
8-055-20	28,300	3/4	1.89	7.52	2.05	1.69	10.36



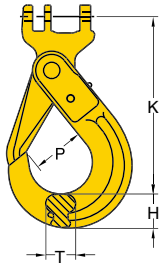
023 Grade 80 Coupling Self Locking Hook. Code "YL"

Coupling Self-Locking Hook

Product details

YOKE® *Safety is our first priority™*

Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	H	K	P	T	lbs
8-023-06	2,500	7/32	0.75	4.13	1.14	0.59	1.10
8-023-07	4,500	9/32-5/16	0.94	5.35	1.34	0.79	1.76
8-023-10	7,100	3/8	1.18	6.06	1.73	1.02	2.87
8-023-13	12,000	1/2	1.54	7.95	2.17	1.18	6.17
8-023-16	18,100	5/8	1.93	9.53	2.36	1.42	12.57
8-023-20	28,300	3/4	2.44	10.12	3.54	1.89	18.74
8-023-22	34,200	7/8	2.48	11.97	3.15	1.93	24.25
8-023-26	47,700	1	2.72	12.95	3.90	2.20	33.07



X-003 G-100 Masterlink

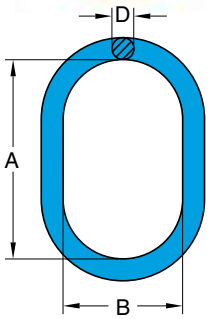
YOKE® *Safety is our first priority™*

Masterlink

Product details

Aapplication

- Quenched and Tempered Alloy Steel.
- At least 25% greater WLL than traditional G80 products.
- Manufactured in accordance with ASTM A906/A906M, ASTMA952/A952M, ASME B30.9, ASME B30.10, ASME B30.26 andOHSA 1910.184, EN-1677-4
- Proof Load tested at 2.5 times the WLL with certification for each batch manufactured.
- Design Factor 4:1.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- Tempering temperature at a minimum of 400°C.
- Designed for Wire Rope and Chain.
- Each link is marked with batch number that links to the test certificate with traceability to raw materials.



Item No.	WLL 0-45°		Chain Size Grade 100 (in)		Trade Size	Dimensions (in)			Net Weight
	4:1 lbs	5:1 lbs	1 Leg	2 Leg	(in)	D	IL	IW	lbs
X-003-06	3,100	2,500	7/32		3/8	0.43	3.94	2.36	0.44
X-003-0806	6,400	5,100	9/32-5/16	7/32	1/2	0.55	4.72	2.76	1.10
X-003-1008	12,000	9,000	3/8	9/32-5/16	5/8	0.67	5.51	3.15	1.54
X-003-13	15,000	12,300	1/2		3/4	0.75	5.91	3.54	2.43
X-003-1310	19,000	15,000	1/2	3/8	7/8	0.87	6.30	3.74	3.31
X-003-16	22,000	17,600	5/8		1	0.98	7.48	4.33	5.07
X-003-1613	31,100	24,900	5/8	1/2	1 1/8	1.10	7.09	4.13	5.95
X-003-19	35,300	28,200	3/4		1 1/4	1.18	7.87	4.72	7.72
X-003-2216	46,300	37,000	7/8	5/8	1 3/8	1.34	9.45	5.51	11.68
X-003-26	58,400	46,700	1		1 1/2	1.50	9.84	5.91	16.31

DNV 2.7-1 Master Link Assembly

OCEANSIDE EQUIPMENT LIMITED

Clevis Shackle

Product details

Aapplication

- Material: Alloy Steel
- Standard: EN 1677-4, ASME B30.26, DNV 2.7-1
- Finish: Painted Orange
- Design Factor: 5:1 (Wire Sling)
- Identification: Trademark, Size/WLL, Batch Code
- Rated in Metric Ton(s)

Item Code	WLL		Dimensions (in)						Weight
	lbs (4:1)	lbs (5:1)	D	IL	IW	d	il	lw	lbs
2-MA16QA	11,200	9,000	0.63	5.91	2.95	0.51	4.92	2.36	2.90
2-MA23QA	15,900	12,800	0.87	10.63	5.51	0.63	5.91	2.95	8.40
2-MA22QAS	24,200	19,500	0.87	6.38	3.54	0.79	5.51	2.76	7.90
2-MA25QA	24,200	19,500	0.98	10.63	5.51	0.79	5.51	2.76	11.70
2-MA26QA	32,400	26,000	1.10	10.63	5.51	0.79	5.51	2.76	13.00
2-MA28QAS	39,900	32,000	1.10	7.87	4.33	0.87	5.51	2.76	12.10
2-MA32QA	46,900	37,700	1.26	10.63	5.51	1.02	7.48	4.02	21.40
2-MA36QA	63,300	50,700	1.42	10.63	5.51	1.10	7.48	3.94	26.20
2-MA40QA	77,400	61,900	1.57	11.02	6.10	1.26	7.87	4.33	36.10
2-MA45QA	105,400	84,400	1.77	12.60	6.89	1.42	8.86	4.92	51.80
2-MA50QA	123,900	99,200	1.97	13.78	7.68	1.57	10.24	5.12	71.20

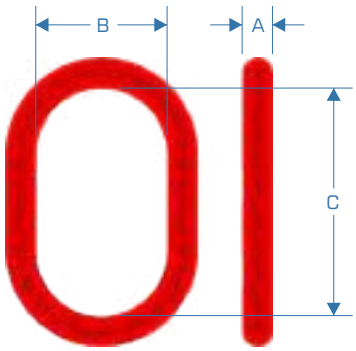
V-line Grade 80 Alloy Master Links

Masterlink

Product details

Application

- Alloy Steel – Quenched and Tempered
- Individually proof tested per ASTM 906/952 prescribed loads
- Meet EN1677 standard (20,000 cycle fatigue test)
- Permanently embossed with VGD, size, model number and trace code
- Approved for overhead lifting when all components are grade 80
- Proof tested to 2 times the Working Load Limit (WLL)
- Design factor 4:1



Item Code	Dimensions			WLL (lbs)		Weight	Chain Size Gr. 80	
	A	B	C	(4:1)	(5:1)	(lbs)	Single	Double
5983-00046	(1/2") 0.50	2.75	4.72	6,100	4,900	0.83	9/32-5/16	9/32
5983-10001	(5/8") 0.63	3.15	5.50	7,750	6,200	1.50	3/8	5/16
5983-10002	(3/4") 0.75	3.75	6.30	12,300	9,800	2.60	1/2	3/8
5983-10003	(1") 1.00	4.33	7.50	20,800	16,600	5.40	5/8	1/2
5983-10004	(1-1/4") 1.25	5.10	9.00	31,300	25,000	10.30	3/4	5/8
5983-10005	(1-1/2") 1.50	5.90	10.80	49,000	39,200	16.50	7/8	3/4
5983-10006	(1-3/4") 1.75	7.10	13.40	73,500	58,800	28.20	1	7/8

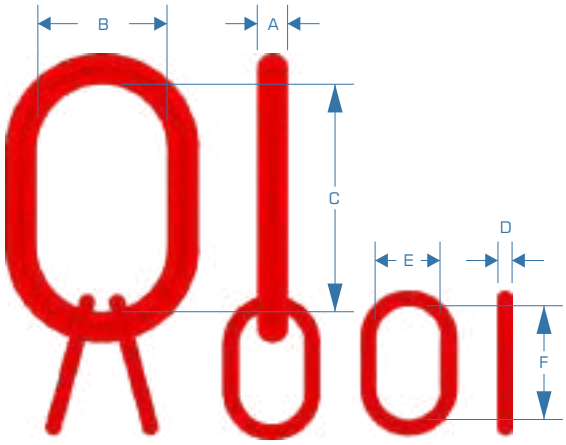
V-line Grade 80 Alloy Sub-assembly

Masterlink Assembly

Product details

Aapplication

- Alloy Steel – Quenched and Tempered
- Individually proof tested per ASTM 906/952 prescribed loads
- Meet EN1677 standard (20,000 cycle fatigue test)
- Permanently embossed with VGD, size, model number and trace code
- Approved for overhead lifting when all components are grade 80
- Proof tested to 2 times the Working Load Limit (WLL)
- Design factor 4:1



Item Code	Chain Size	Dimensions (in)						WLL @ 60°	Weight
		A	B	C	D	E	F	(lbs)	(lbs)
5994-00401	9/32	(3/4") 0.75	3.75	6.30	0.50	2.36	4.33	12,300	4.20
5994-00601	3/8	(1") 1.00	4.33	7.50	0.75	3.75	6.30	20,800	10.70
5994-00801	1/2	(1-1/4") 1.25	5.10	9.00	1.00	4.33	7.50	31,300	22.30
5994-01001	5/8	(1-1/2") 1.50	5.90	10.80	1.13	5.10	9.05	49,000	32.40
5994-01201	3/4	(1-3/4") 1.75	7.10	13.40	1.25	5.10	9.05	73,500	58.60

VGD WELDLESS PEAR SHAPED LINKS

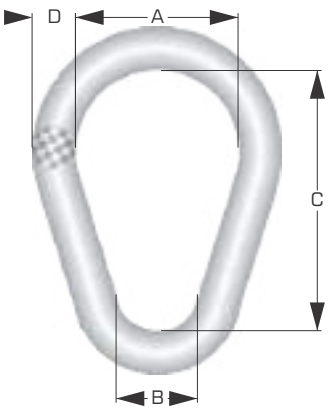
Pear Ring

Product details

Application

- Drop Forged - Alloy Steel – Quenched and Tempered
- Hot dipped galvanized finish
- Permanently embossed with Vanguard, size, Working Load Limit (WLL) and trace code
- Proof Load 2 times WLL
- Design factor 5 times WLL

NOTE!: Working Load Limit (WLL) is based upon single leg (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120°



Item Code	Dimension (in)				WLL	Net Weight
	D	A	B	C	lbs	lbs
75-1013897	3/8	1.50	0.75	2.25	1,800	0.23
75-1013913	1/2	2.00	1.00	3.00	7,000	0.55
75-1013931	5/8	2.50	1.25	3.75	9,000	1.10
75-1013959	3/4	2.75	1.38	4.50	12,300	1.95
75-1013977	7/8	3.50	1.75	5.25	15,000	2.78
75-1013995	1	3.75	1.88	6.00	24,360	4.30
75-1014011	1-1/4	5	2.50	7.75	16,750	7.60
75-1014039	1-3/8	5.50	2.75	8.25	20,500	11.30

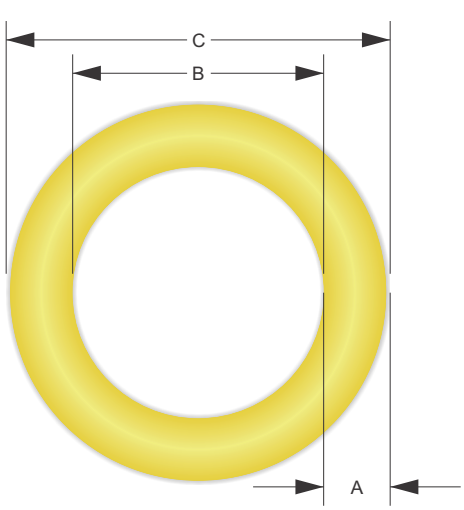
OCE WELDLESS ROUND RINGS

Pear Ring

Product details

Application

- Standard: RR-C-271F
- Finish: Painted Yellow
- Design Factor: 6:1
- Identification: Trademark, Size/WLL, Batch Code



Item Code	Size	Dimension (in)			WLL	Net Weight
		A	B	C	lbs	lbs
75-1013780	7/8 x 4	7/8	4.00	5.75	7200	2.72
75-1013806	7/8 x 5-1/2	7/8	5.50	7.25	5600	3.47
75-1013824	1 x 4	1	4.00	6.00	10,800	3.69
75-1013482	1-1/8 x 6	1-1/8	6.00	8.25	10,400	6.60
75-1013860	1-1/4 x 5	1-1/4	5.00	7.50	17,000	8.36
75-1013888	1-1/4 x 10	1-1/4	10.00	12.50	17,000	12.65

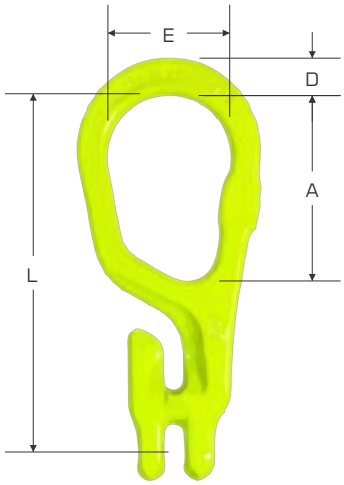
MG - Master Grab

Masterlink

Product details

GrabIQ GUNNEBO Industries

All-in-one compact top link.
Safety factor 4:1



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	A	E	D	lbs
MG-6-10	3,300	7/32	5.71	3.46	2.36	0.59	1.11
MG-8-10	5,700	9/32-5/16	6.73	3.62	2.36	0.71	2.12
MG-10-10	8,800	3/8	8.31	4.45	2.95	0.87	4.09
MG-13-10	15,000	1/2	10.28	5.43	3.54	1.02	7.88
MG-16-10	22,600	5/8	12.24	6.18	4.13	1.22	13.30

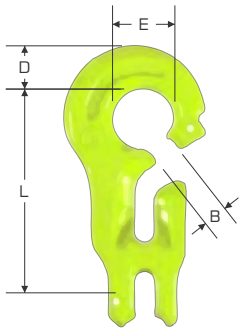
CG - C-Grab

Masterlink

Product details

GrabIQ GUNNEBO Industries

For use with master link, eye hooks and choke. All GrabiQ C-connectors can be equipped with Quick Pin.



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	B	E	D	lbs
CG-6-10	3,300	7/32	3.15	0.43	0.94	0.75	0.79
CG-8-10	5,700	9/32-5/16	4.21	0.47	1.26	0.94	1.74
CG-10-10	8,800	3/8	5.28	0.59	1.57	1.14	3.48
CG-13-10	15,000	1/2	6.77	0.71	2.05	1.50	7.28
CG-16-10	22,600	5/8	8.46	0.87	2.52	1.85	13.40

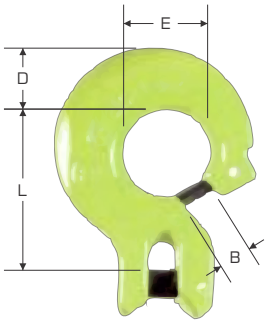
CL - C-Lok

Masterlink

Product details

GrabIQ GUNNEBO Industries

For use with master links, eye hooks and choke. All GrabiQ C-connectors can be equipped with Quick Pin.



Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	B	E	D	lbs
CL-6-10	3,300	7/32	1.69	0.43	0.94	0.71	0.49
CL-8-10	5,700	9/32-5/16	2.28	0.47	1.26	0.94	1.12
CL-10-10	8,800	3/8	2.91	0.59	1.57	1.14	2.10
CL-13-10	15,000	1/2	3.70	0.71	2.05	1.50	4.69
CL-16-10	22,700	5/8	4.69	0.87	2.52	1.89	8.20

MGD - Master Grab Duo

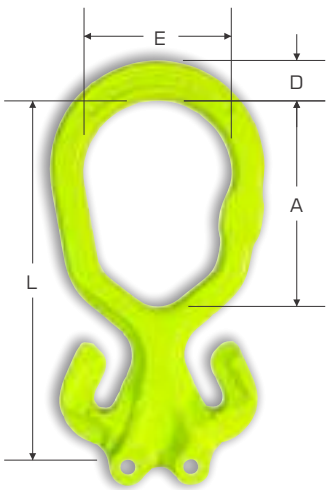
Masterlink

Product details

GrabIQ GUNNEBO Industries

All-in-one compact top link for 2-leg slings.
Safety factor 4:1

Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	A	E	D	lbs
MGD-6-10	4,600	7/32	5.67	3.54	2.36	0.67	1.46
MGD-8-10	7,700	9/32-5/16	6.73	3.94	2.95	0.83	2.97
MGD-10-10	12,300	3/8	8.31	4.88	3.54	0.94	5.32
MGD-13-10	20,900	1/2	10.31	5.87	4.13	1.22	10.46
MGD-16-10	30,900	5/8	12.20	6.89	4.72	1.38	17.98



CGD - C-Grab Duo

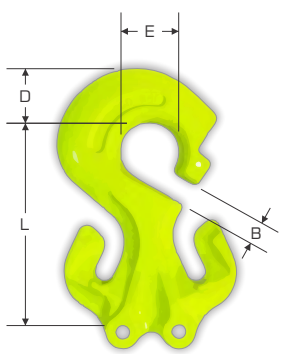
Masterlink

Product details

GrabIQ GUNNEBO Industries

For use with master links. All GrabiQ C-connectors can be equipped with Quick Pin.

Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	B	E	D	lbs
CGD-6-10	4,600	7/32	3.11	0.43	0.94	0.87	1.12
CGD-8-10	7,700	9/32-5/16	4.21	0.47	1.26	1.14	2.61
CGD-10-10	12,300	3/8	5.28	0.59	1.57	1.46	5.20
CGD-13-10	20,900	1/2	6.81	0.75	1.89	1.89	12.06
CGD-16-10	30,900	5/8	8.46	0.87	2.52	2.24	20.70



CLD - C-Lok Duo

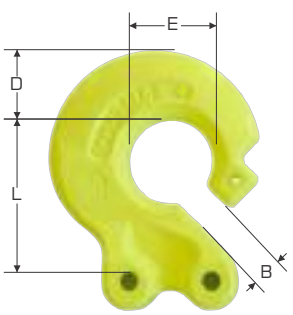
Masterlink

Product details

GrabIQ GUNNEBO Industries

For use with master links. All GrabiQ C-connectors can be equipped with Quick Pin.

Item Code	WLL [lbs]	Chain Size	Dimensions [in]				Net Weight
	4:1	[in]	L	B	E	D	lbs
CLD-6-10	4,600	7/32	1.69	0.43	0.94	0.87	0.70
CLD-8-10	7,700	9/32-5/16	2.28	0.47	1.26	1.14	1.55
CLD-10-10	12,300	3/8	2.91	0.59	1.57	1.46	3.00
CLD-13-10	20,900	1/2	3.70	0.71	2.05	1.81	5.85
CLD-16-10	30,900	5/8	4.69	0.98	2.52	2.24	11.91



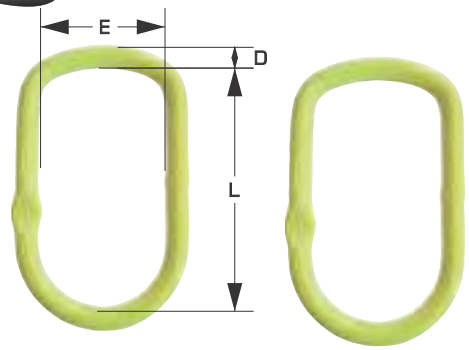
MFH - Masterlink Hybrid

Masterlink

Product details

GrabIQ GUNNEBO Industries

Designed for crane hooks DIN 15401 and 15402. Designed for use with CL, CLD, CG and CGD. 3- and 4-leg chain slings require CLD / CGD.



Item Code	WLL [lbs]		Chain Size [in]			Dimensions [in]			Net Weight
	(SF 5:1) EN 1677-4	(SF 5:1) ASTM A-952	1-leg	2-leg	3-4-leg	L	E	D	lbs
MFH-1310-10	16,500	17,600	1/2	3/8	9/32-5/16	9.06	4.92	0.87	4.63
MFH-1613-10	22,000	30,000	5/8	1/2	3/8	9.84	5.31	1.10	8.09
MFH-2016-10	37,500	45,400	3/4	5/8	1/2	11.02	5.31	1.26	11.62
MFH-2220-10	61,700	68,100	1	3/4	5/8	12.60	6.89	1.57	21.50
MFHW-2220-10	58,600	61,700	1	3/4	5/8	13.98	8.86	1.57	24.43

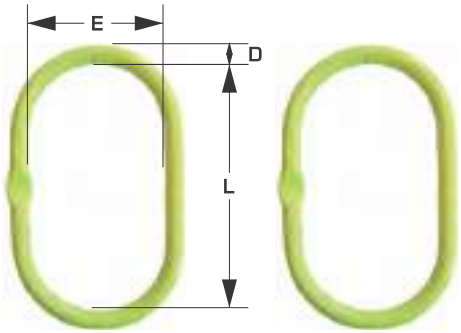
MFX - Oversized Masterlink

Masterlink

Product details

GrabIQ GUNNEBO Industries

Oversized, for 1- and 2-leg sling. Designed for use with CL, CLD, CG and CGD.



Item Code	WLL [lbs]		Chain Size [in]		Dimensions [in]			Net Weight
	(SF 5:1) EN1677-4	(SF 5:1) ASTM A-952	1-Leg	2-Leg	L	E	D	lbs
MFX-108-10	9,400	11,500	-	9/32-5/16	13.39	7.09	0.98	8.06
MFX-1310-10	16,500	17,600	1/2	3/8	13.39	7.09	1.10	10.18
MFX-1613-10	24,700	30,000	5/8	1/2	13.39	7.09	1.34	15.43
MFX-2016-10	35,300	45,400	3/4	5/8	13.39	7.09	1.57	21.29

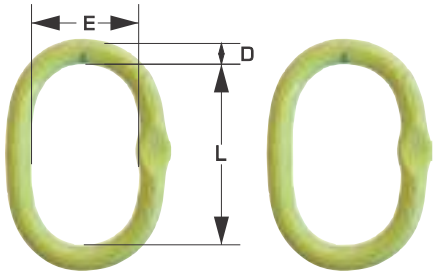
MF - Masterlink w/ Engineered Flat

Masterlink

Product details

GrabIQ GUNNEBO Industries

For 1-, 2-, 3- and 4-leg slings. Designed for use with CL, CLD, CG and CGD. 3- and 4-leg chain slings require CLD / CGD.



Item Code	WLL [lbs]		Chain Size [in]			Dimensions [in]			Net Weight
	(SF 5:1) EN 1677-4	(SF 5:1) ASTM A-952	1-leg	2-leg	3-4-leg	L	E	D	lbs
MF-6-10	3,300	3,300	7/32	-	-	3.94	2.36	0.43	0.51
MF-86-10	5,500	7,100	7/32, 5/16	7/32	-	4.92	2.76	0.55	0.97
MF-108-10	8,800	11,500	3/8	9/32-5/16	7/32	5.51	3.15	0.67	1.70
MF-1310-10	16,500	17,600	1/2	3/8	9/32-5/16	6.30	3.74	0.87	3.26
MF-1613-10	22,000	30,000	5/8	1/2	3/8	7.48	4.33	1.10	6.17
MF-2016-10	37,500	45,400	3/4	5/8	1/2	9.45	5.51	1.34	11.64
MF-2220-10	55,100	68,100	7/8	3/4	5/8	9.84	5.91	1.57	17.13

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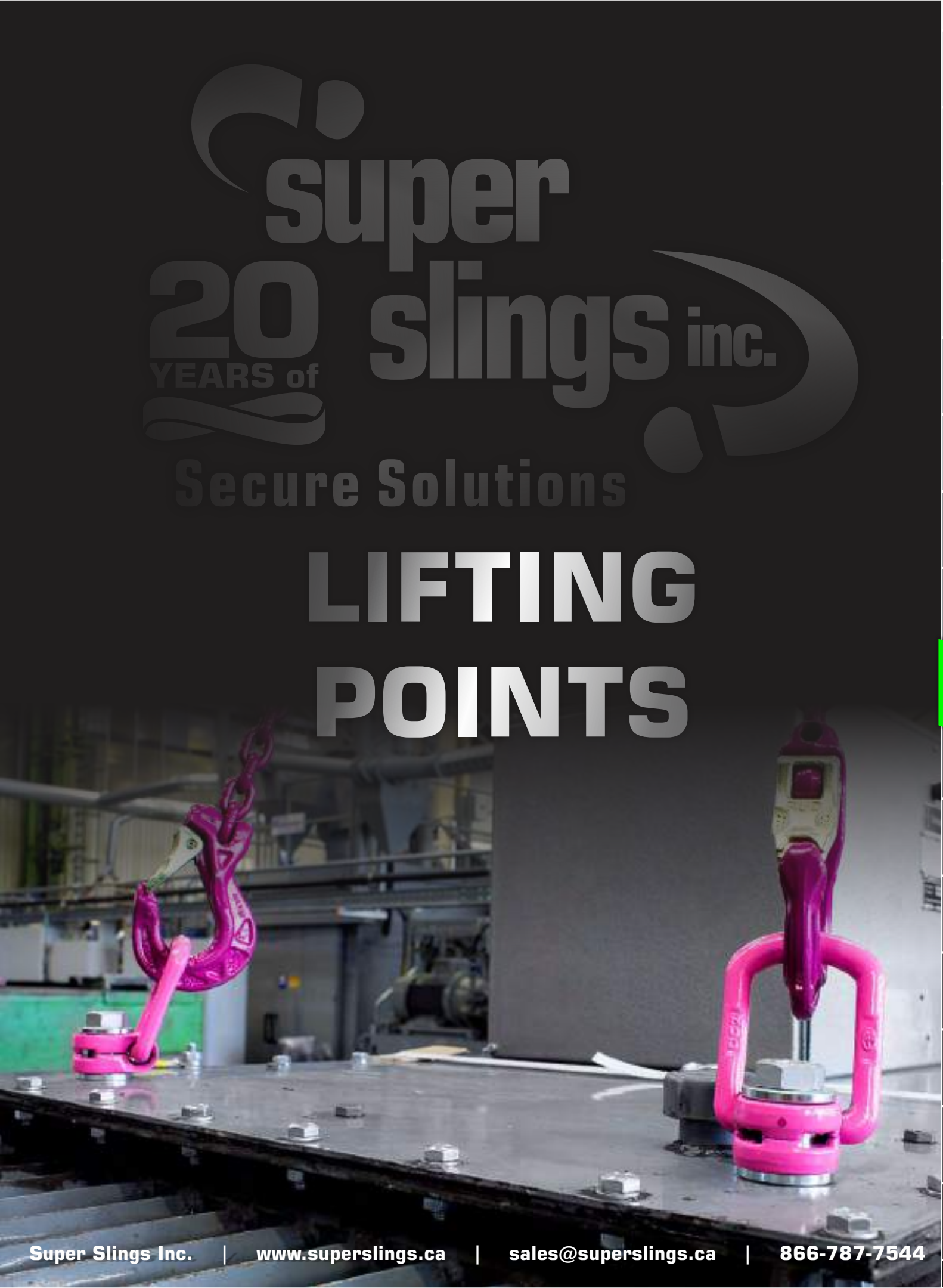
20 YEARS of

Secure Solutions

LIFTING POINTS



RUD Lifting Points

As a family-owned company, and operating internationally, we provide future-oriented solutions with chain systems and components for a wide range of applications.
In lifting technology and load securing, our mountable lifting points attest to our top quality, ergonomics and safety.
More than 700 different, tested, threaded and weldable lashing point models in load ranges up to 250 tonnes together with the unique application variety of our ICE and VIP chain systems meet the highest requirements in all areas of application.
Our constant pursuit of innovative product designs, coupled with the highest standards in production technology and quality management, are benchmarks recognized worldwide.
Today, the **RUD Group** is a global player. Its main development and production facility in Aalen, offers future-oriented solutions with chain systems and components for a wide range of applications.
For hoisting, moving, pulling, driving and conveying, our RUD lifting means, are a guarantee of quality, innovation and safety.



RUD®
Tradition in Dynamic Innovation

Overview

ICE-LBG-SR

VWBG-V / VWBG

ACP TURNADO

VLBG-PLUS, VLBG

VRS, VRM

RS / RM

VLBS

ABA

RUD Tradition in Dynamic Innovation

OVERVIEW – LIFTING POINTS FOR BOLTING.

	Ideal for rotating and turning	Ball bearing mounted	Double ball bearing mounted	Safety factor	Safety factor	Able to bear load on all sides	Retaining spring	Turning range	Pivoting area/hook-in link	Metric thread	Metric fine thread	UNC inch thread	8UN inch thread	UNF inch thread	BSW – British Standard Whitworth	G – pipe inch (according to ISO 228)	Variable thread lengths	Operating temperature range **without** reduction in working load limit	Max. operation temperature **with** reduction in working load limit	Equipped with ICE-BOLT	RUD BLUE-ID SYSTEM	DGUV-approved	Certified according to DNGVL guideline	Safety standard for lifting equipment
				4:1	lbs 5:1			360°	XXX°	M	MF	UNC	8-UN	UNF	BSW	G	VARIO	-XX° XXX°C	XXX°C max.		BLUE-ID	DGUV TEST	DNVGL TEST	ASME B30.26
ACP-TURNADO 1. 35t–8t				■	■	■		■	■	■		■					■	■	■	■	■			■
VLBG-PLUS 0.63t–20t				■		■	■	■	■	■		■					■	■	■	■	■	■	■	
PP-S / -B / -VIP 0.63t–10t	■	■	■	■		■		■	■	■	■	■					■	■	■		■	■		
VWBG-V / VWBG 0.3t–5t / 6t–50t	■	■		■		■		■	■	■	■	■					■	■	■	■	■	■		
VRS-STARPOINT 0.1t–20t				■		■		■		■	■	■	■				■	■	■	■	■	■		
VRM-STARPOINT 0.1t–4.5t				■		■		■		■								■	■		■			
RS / RM 0.1t–8t				■						■	■	■	■	■	■	■		■	■		■			
ICE-LBG-SR 0.6 t – 6.7 t	■	■	■	■	■	■	■	■	■	■							■	■	■	■	■	■		■
WBPG 85t-250t	■	■		■				■	■	■								■	■		■			
VABH-B / VCGH-G 1.5t–6.7t / 10t–20t				■						■								■	■	■	■			
B-ABA 1.6t–31.5t				■		■				■								■	■	■	■	■		
RBG / VRBG 3t–50t				■		■	■		■	■								■	■		■			
T-FRB / B-FRB	■			■		■			■	■							■	■	■		■			
INOX-STAR 0.5t–2.5t				■		■		■		■								■			■	■		
PSA INOX-STAR / PSA VRS-STARPOINT 1– 2 people				■		■		■		■								■				■		

VWBG-V Load ring, metric thread

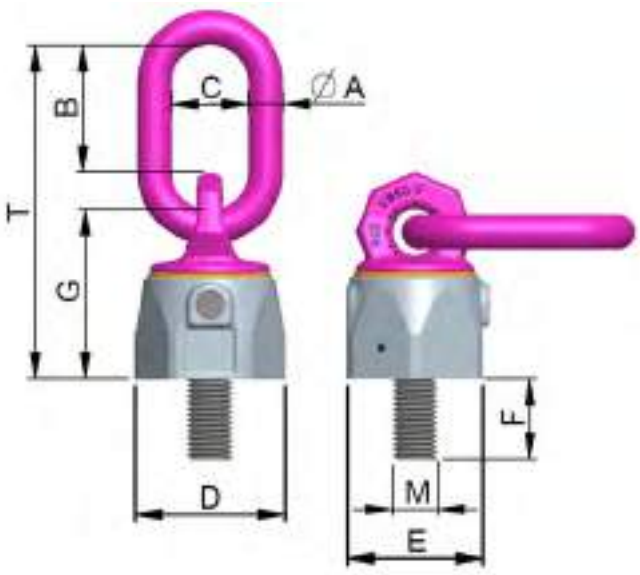
VIP Load ring for bolting - Vario / VIP Load ring for bolting

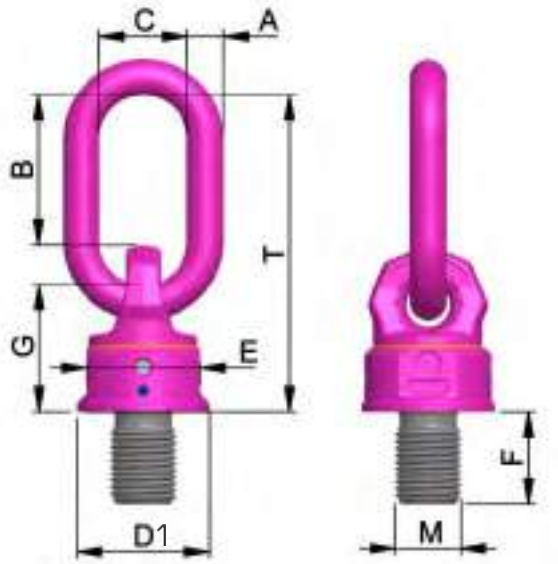
Product details

METRIC

Highlights

- Rotating 360°, pivoting 230°
- Optical markings for easy determination for withdraw from service
- Ball bearing





CAD RFID

Type	Item No.	WLL-X	WLL-Y	WLL-Z	Weight	T	A	B	C	D	E	F	G	M	Torque
		[t]	[t]	[t]	[kg/pc.]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[Nm]
VWBG-V Load Ring - Metric															
0.3t-M8	7103720	0.3	0.4	0.6	0.18	76	8	31	29	30	28	13	36	M8	10
0.45t-M10	7103715	0.45	0.6	0.9	0.29	78	8	31	29	33.5	30	17	38	M10	10
0.6t-M12	7100180	0.6	0.75	1.2	0.41	107	10	49	35	42	36	21	47	M12	10
1.0t-M14(F=21)	8600337	1	1.25	2	0.63	114	13	46	38	48	41	21	56	M14	25
1.3t-M16	7100430	1.3	1.5	2.6	0.59	114	13	46	38	48	41	25	56	M16	30
1.8t-M18(F=27)	8600338	1.8	2	3.6	1.18	137	13	54	35	62	55	27	67	M18	50
2.0t-M20	7100800	2	2.5	4	1.42	137	13	54	35	62	55	33	67	M20	70
2.0t-M22(F=33)	8600334	2	2.5	4	1.45	137	13	54	35	62	55	33	67	M22	100
3.5t-M24	7100640	3.5	4	7	2.63	173	18	66	40	81	70	40	88	M24	150
3.5t-M27(F=41)	8600335	3.5	4	7	2.65	173	18	66	40	81	70	41	88	M27	200
5.0t-M30	7100650	5	6	10	5.09	221	22	90	50	99	85	50	106	M30	225
VWBG Load Ring - Metric															
6(7.5)t-M33(F=50)	8600150	6	7.5	15	5.6	208	22	86	50	90	80	50	96	M33	350
8(10)t-M36	7999059	8	10	15	4.7	208	22	86	50	90	80	54	94	M36	410
12(13)t-M42	7999044	12	13	17	6.1	234	26	111	65	98	85	63	95	M42	550
12(15)t-M45	7900455	12	15	18	6.24	234	26	111	65	98	85	67	95	M45	550
13(16)t-M48	7999045	13	16	18	6.37	234	26	111	65	98	85	68	95	M48	550
14(20)t-M52	7901081	14	20	25	10.55	271	32	119	70	120	95	78	120	M52	750
16(22)t-M56	7999004	16	22	28	10.68	271	32	119	70	120	95	84	120	M56	800
16(22)t-M60(F=90)	8600454	16	22	28	11.37	271	32	119	70	120	95	90	120	M60	800
16(25)tM64	7999043	16	25	28	11.4	271	32	119	70	120	95	94	120	M64	800
31.5(40)tM72	7900097	31.5	40	50	29.96	338	46	130	90	170	145	108	159	M72	1200
35(48)tM80	7900100	35	48	50	31.19	338	46	130	90	170	145	120	159	M80	1500
40(50)tM90	7903408	40	50	50	34.53	378	46	168	110	170	145	135	159	M90	2000
40(50)tM100(F=150)	8600458	40	50	50	6.5	378	46	168	110	170	145	150	159	M100	2000

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the warning information found in the hardware section of this catalogue

VWBG-V Load ring, metric thread Vari Length

RUD®

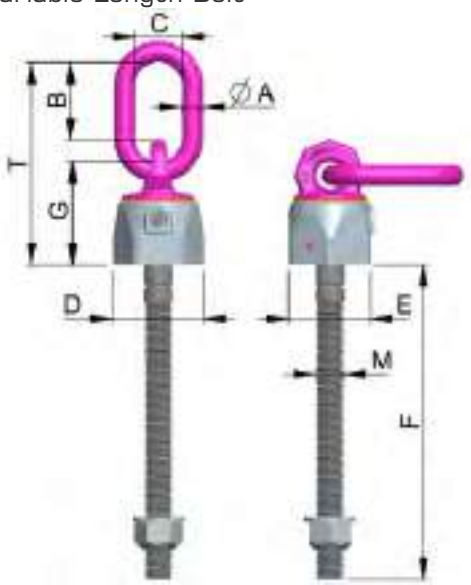
METRIC

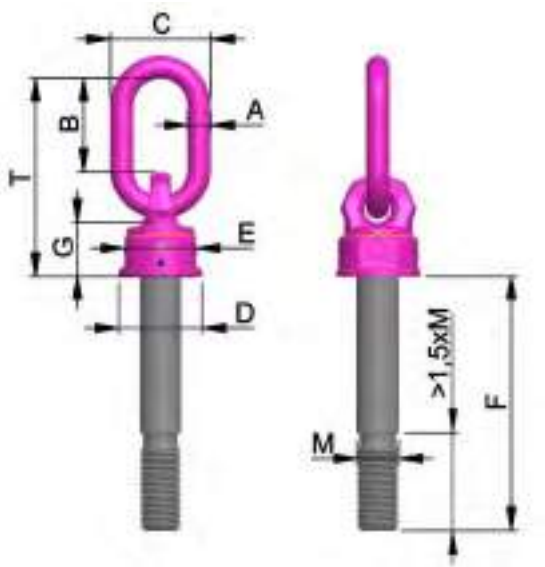
VIP Vario / VIP Load ring for bolting

Product details

Highlights

- Rotating 360°, pivoting 230°
- Optical markings for easy determination for withdraw from service
- Ball bearing
- Variable Length Bolt





CAD RFID

Type	Item No.	WLL-X	WLL-Y	WLL-Z	Weight	T	A	B	C	D	E	F	G	M	Torque
		[t]	[t]	[t]	[kg/pc.]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[Nm]
VWBG-V Load Ring - Metric															
0.3t-M8	8600330	0.3	0.4	0.6	*	76	8	31	29	30	28	8-102	36	M8	10
0.45t-M10	8600331	0.45	0.6	0.9	*	78	8	31	29	33.5	30	10-122	38	M10	10
0.6t-M12	8600332	0.6	0.75	1.2	*	107	10	49	35	42	36	12-140	47	M12	10
1t-M14	8600337	1	1.25	2	*	114	13	46	38	48	41	14-160	56	M14	25
1.3t-M16	8600333	1.3	1.5	2.6	*	114	13	46	38	48	41	16-180	56	M16	30
1.8t-M18	8600338	1.8	2	3.6	*	137	13	54	35	62	55	18-83	67	M18	50
2t-M20	8600334	2	2.5	4	*	137	13	54	35	62	55	20-223	67	M20	70
2t-M22	8600334	2	2.5	4	*	137	13	54	35	62	55	22-94	67	M22	100
3.5t-M24	8600335	3.5	4	7	*	173	18	66	40	81	70	24-255	88	M24	150
3.5t-M27	8600335	3.5	4	7	*	173	18	66	40	81	70	27-92	88	M27	200
5t-M30	8600336	5	6	10	*	221	22	90	50	99	85	30-330	106	M30	225
VWBG Load Ring - Metric															
6t-M33	8600150	6	7.5	15	*	208	23	86	50	90	80	33-300	94	M33	350
8t-M36-M39	8600451	8	10	15	*	208	23	86	50	90	80	36-300	94	M36-M39	410
12t-M42-M45	8600452	12	13	17	*	234	26	111	65	98	85	42-300	95	M42-M45	550
13t-M48-M52	8600453	13	16	18	*	234	26	111	65	98	85	48-300	95	M48-M52	550
14t-M52	8600158	14	20	25	*	271	32	119	70	120	95	52-300	120	M52	550
16t-M56-M60	8600454	16	22	28	*	271	32	119	70	120	95	56-300	120	M56-M60	750
16t-M64-M76	8600455	16	25	28	*	271	32	119	70	120	95	64-300	120	M64-M76	800
31.5t-M72-M76	8600456	31.5	40	50	*	338	46	130	90	170	145	72-300	159	M72-M76	800
35t-M80-M85	8600457	35	48	50	*	338	46	130	90	170	145	80-300	159	M80-M85	800
40t-M90-M150	8600458	40	50	50	*	378	46	168	110	170	145	90-300	159	M90-M150	1200

WARNING: NEVER EXCEED WORKING LOAD LIMIT!
Failure to follow instructions can result in serious property damage, injury or death! For more information please see the warning information found in the hardware section of this catalogue

VWBG-V Load ring, UNC inch thread

VIP Load ring for bolting - Vario / VIP Load ring for bolting

Product details

RUD®

UNC

Highlights

- Rotating 360°, pivoting 230°
- Optical markings for easy determination for withdraw from service
- Ball bearing

CAD RFID

Type	Item No.	WLL-X	WLL-Y	WLL-Z	Weight	T	A	B	C	D	E	F	G	M	Torque
		[t]	[t]	[t]	[lbs/pc.]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]		[Nm]
VWBG-V Load Ring - UNC inch thread															
0.3t-5/16"	7991090	0.3	0.4	0.6	0.4	2.99	0.31	1.22	1.14	1.18	1.10	0.51	1.42	5/16"	10
0.45t-3/8"	7991091	0.45	0.6	0.9	0.64	3.07	0.31	1.22	1.14	1.32	1.18	0.67	1.50	3/8"	10
0.6t-1/2"	7991092	0.6	0.75	1.2	0.9	4.21	0.39	1.93	1.38	1.65	1.42	0.83	1.85	1/2"	10
1.3t-5/8"	7991093	1.3	1.5	2.6	1.15	4.49	0.51	1.81	1.50	1.89	1.61	1.14	2.20	5/8"	30
2t-3/4"	7991094	2	2.5	4	3.13	5.39	0.51	2.13	1.38	2.44	2.17	1.10	2.64	3/4"	70
3.5t-1"	7991095	3.5	4	7	5.81	6.81	0.71	2.60	1.57	3.19	2.76	1.50	3.46	1"	150
5t-1-1/4"	7991096	5	6	10	1.22	8.70	0.87	3.54	1.97	3.90	3.35	1.85	4.17	1-1/4"	225
VWBG-V Load Ring - UNC inch thread w/ Vario bolt															
0.6t-1/2"	8600332	0.6	0.75	1.2	*	4.21	0.39	1.93	1.38	1.65	1.42	1.6"-5.9"	1.85	1/2"	10
1.3t-5/8"	8600333	1.3	1.5	2.6	*	4.49	0.51	1.81	1.50	1.89	1.61	2.0"-7.1"	2.20	5/8"	30
2t-3/4"	8600334	2	2.5	4	*	5.39	0.51	2.13	1.38	2.44	2.17	2.2"-8.7"	2.64	3/4"	70
3.5t-1"	8600335	3.5	4	7	*	6.81	0.71	2.60	1.57	3.19	2.76	2.5"-9.7"	3.46	1"	150
5t-1-1/4"	8600336	5	6	10	*	8.70	0.87	3.54	1.97	3.90	3.35	3.0"-13"	4.17	1-1/4"	225
VWBG Load Ring - UNC inch thread															
8t-1-1/2"	8600451	8	10	15	10.56	8.19	0.87	3.39	1.97	3.54	3.15	2.24	3.70	1-1/2"	410
12t-1-3/4"	8600452	12	13	17	13.54	9.21	1.02	4.37	2.56	3.86	3.35	2.60	3.74	1-3/4"	550
13t-2"	8600453	13	16	18	13.67	9.21	1.02	4.37	2.56	3.86	3.35	2.99	3.74	2"	550
16t-2-1/4"	8600454	16	22	28	24.25	10.67	1.26	4.69	2.76	4.72	3.74	3.35	4.72	2-1/4"	800
16t-2-1/2"	8600454	16	22	28	25.35	10.67	1.26	4.69	2.76	4.72	3.74	3.74	4.72	2-1/2"	800
16t-2-3/4"	8600455	16	25	28	26.46	10.67	1.26	4.69	2.76	4.72	3.74	4.09	4.72	2-3/4"	800
31.5t-3"	8600456	31.5	40	50	57.98	13.31	1.81	5.12	3.54	6.69	5.71	4.49	6.26	3"	1200
35t-3-1/2"	8600457	35	48	50	61.73	13.31	1.81	5.12	3.54	6.69	5.71	5.24	6.26	3-1/2"	1500
40t-4"	8600458	40	50	50	80.91	14.88	1.81	6.61	4.33	6.69	5.71	5.91	6.26	4"	2000
40t-4-1/2"	8600458	40	50	50	89.51	14.88	1.81	6.61	4.33	6.69	5.71	6.69	6.26	4-1/2"	2000
40t-5"	8600458	40	50	50	100.3	14.88	1.81	6.61	4.33	6.69	5.71	7.48	6.26	5"	2000

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

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VLBG-PLUS Load ring, metric thread

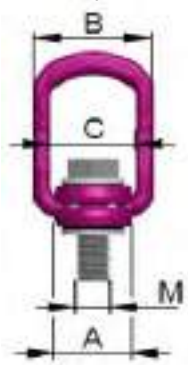
VIP Load ring for bolting PLUS

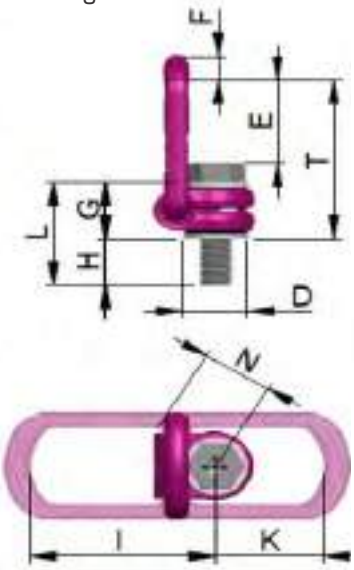
Product details

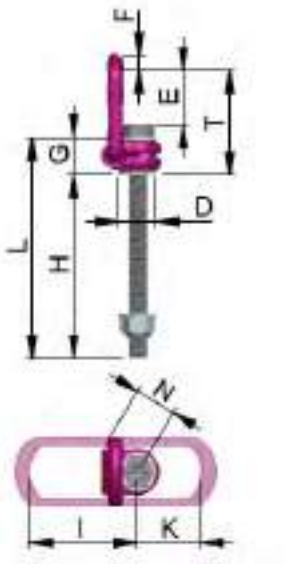
RUD® METRIC

Highlights

Optimum WLL with captive but exchangable ICE-Bolt
Bracket adjustable in force direction
Comprehensive range of threads







CAD RFID

	Type	Item No.	WLL-X	Wght	T	A	B	C	D	E	F	G	H	J	K	L	M	N	Torque
			[t]	kg/pc.	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[Nm]
VLBG-PLUS	**VLBG-PLUS VIP Load ring for bolting PLUS – metric**																		
	0.63t-M8	8504651	0.63	0.3	75	30	54	34	24	40	10	29	11	75	45	40	M8	32	30
	0.9t-M10	8504652	0.9	0.3	75	30	54	34	24	39	10	29	15	75	45	44	M10	32	60
	1.35t-M12	8504653	1.35	0.3	75	32	54	34	26	38	10	29	18	75	45	47	M12	32	150
	2t-M16	8504655	2	0.6	85	33	56	36	30	39	13.5	36	22	86	47	58	M16	38	150
	3.5t-M20	8504657	3.5	1.3	110	50	82	54	45	55	16.5	43	32	113	64	75	M20	48	400
	4.5t-M24	8504659	4.5	1.5	125	50	82	54	45	67	18	43	37	130	78	80	M24	48	760
	6.7t-M30	8504661	6.7	3.3	147	60	103	65	60	67	22.5	61	49	151	80	110	M30	67	1000
	8t-M36	7983553	8	6.2	197	77	122	82	70	97	26.5	77	63	205	110	140	M36	87	800
	10t-M42	7983554	10	6.7	197	77	122	82	70	94	26.5	77	73	205	110	150	M42	70	1000
	15t-M42	7982966	15	10.9	222	95	156	100	85	109	36	87	63	230	130	150	M42	100	1500
	20t-M48	7982967	20	11.6	222	95	156	100	95	105	36	87	73	230	130	160	M48	100	2000
VLBG	**VLBG Load ring for bolting – metric intermediate thread sizes with longer Vario bolt**																		
	1.2t-M14	8600399	1.2	*	85	33	56	36	30	39	13.5	36	14-34	86	47	50-70	M14	38	120
	2t-M18	8600384	2	*	110	50	82	54	45	55	16.5	43	18-47	113	64	61-90	M18	48	200
	2.5t-M22	8600385	2.5	*	110	50	82	54	45	54	16.5	43	22-57	113	64	65-100	M22	48	250
	4t-M27	8600387	4	*	147	60	103	65	60	69	22.5	61	27-239	151	80	88-300	M27	67	400
	7t-M36	8500829	7	3.4	146	60	103	65	60	74	22.5	55	52	151	80	107	M36	67	700

WARNING: NEVER EXCEED WORKING LOAD LIMIT!
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VLBG-PLUS Load ring, metric , longer Vario bolt / Fine thread Vario

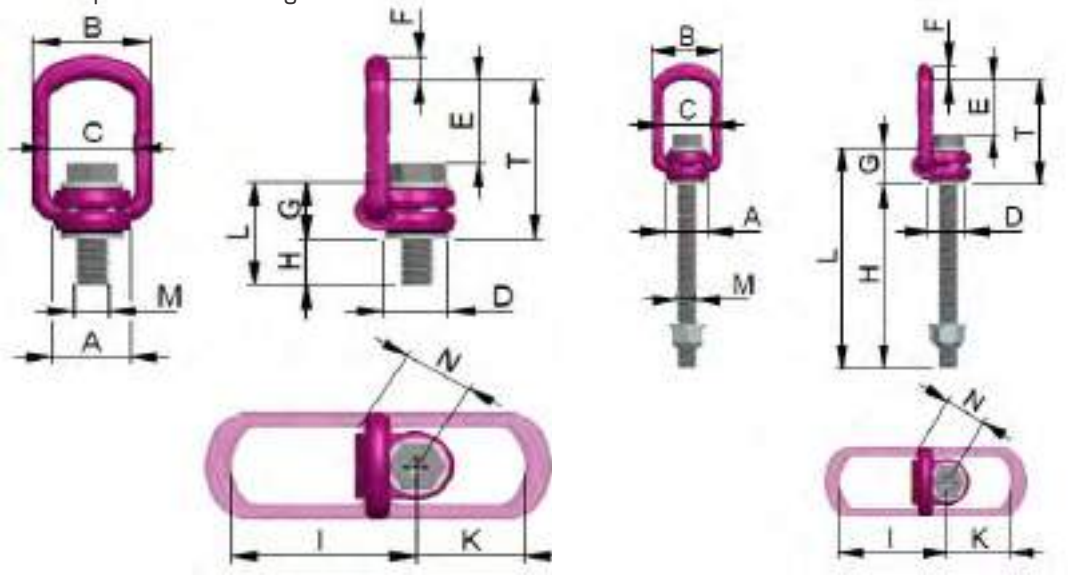
VIP Load ring for bolting PLUS

Product details

METRIC

Highlights

Optimum WLL with captive but exchangable ICE-Bolt
Bracket adjustable in force direction
Comprehensive range of threads



CAD RFID

Type	Item No.	WLL-X	Wght	T	A	B	C	D	E	F	G	H	J	K	L	M	N	Torque
		[t]	kg/pc.	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[Nm]
VLBG-PLUS VIP Load ring for bolting PLUS – metric with longer Vario bolt																		
VLBG-PLUS 0.63t-M8	8504651	0.63	*	75	30	54	34	24	40	10	29	8-76	75	45	37-105	M8	32	30
VLBG-PLUS 0.9t-M10	8504652	0.9	*	75	30	54	34	24	39	10	29	10-96	75	45	39-125	M10	32	60
VLBG-PLUS 1.35t-M12	8504653	1.35	*	75	32	54	34	26	38	10	29	12-116	75	45	41-145	M12	32	150
VLBG-PLUS 2t-M16	8504655	2	*	85	33	56	36	30	39	13.5	36	16-149	86	47	52-185	M16	38	150
VLBG-PLUS 3.5t-M20	8504657	3.5	*	110	50	82	54	45	55	16.5	43	20-187	113	64	63-230	M20	48	400
VLBG-PLUS 4.5t-M24	8504659	4.5	*	125	50	82	54	45	67	18	43	24-222	130	78	67-265	M24	48	760
VLBG-PLUS 6.7t-M30	8504661	6.7	*	147	60	103	65	60	67	22.5	61	30-279	151	80	91-340	M30	67	1000
VLBG-PLUS 8t-M36	7983553	8	*	197	77	122	82	70	97	26.5	77	36-223	205	110	113-300	M36	87	800
VLBG-PLUS 10t-M42	7983554	10	*	197	77	122	82	70	94	26.5	77	42-273	205	110	119-350	M42	70	1000
VLBG-PLUS 15t-M42	7982966	15	*	222	95	156	100	85	109	36	87	42-263	230	130	129-350	M42	100	1500
VLBG-PLUS 20t-M48	7982967	20	*	222	95	156	100	95	105	36	87	48-303	230	130	135-350	M48	100	2000
VLBG VIP Load ring for bolting PLUS – metric fine thread with longer Vario bolt																		
VLBG 1.2t-M14	8600399	1.2	*	85	33	56	36	30	39	13.5	36	14-34	86	47	50-70	M14	38	120
VLBG 2t-M18	8600384	2	*	110	50	82	54	45	55	16.5	43	18-47	113	64	61-90	M18	48	200
VLBG 2.5t-M22	8600385	2.5	*	110	50	82	54	45	54	16.5	43	22-57	113	64	65-100	M22	48	250
VLBG 4t-M27	8600387	4	*	147	60	103	65	60	69	22.5	61	27-239	151	80	88-300	M27	67	400
VLBG 7t-M36	8500829	7	3.4	146	60	103	65	60	74	22.5	55	52	151	80	107	M36	67	700

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VLBG-Z Load ring, UNC inch thread / UNC with longer Vario bolt

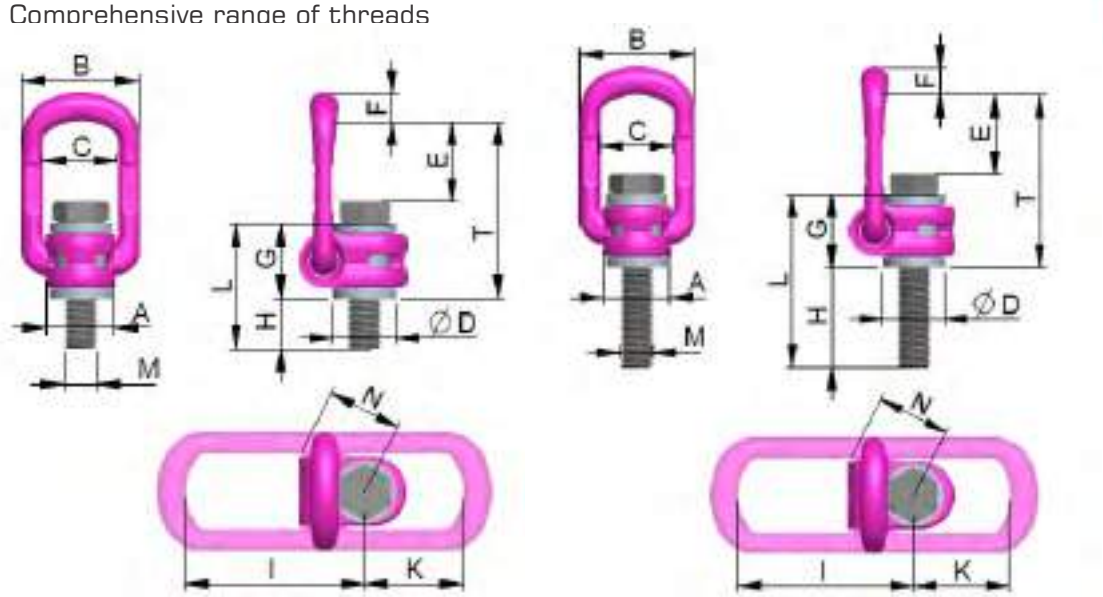
VIP Load ring for bolting

Product details

UNC

Highlights

Optimum WLL with captive but exchangable ICE-Bolt
Bracket adjustable in force direction
Comprehensive range of threads



CAD RFID

Type	Item No.	WLL-X	Wght	T	A	B	C	D	E	F	G	H	J	K	L	M	N	Torque
		[t]	kg/pc.	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]		[inch]	[ft-lb]
VLBG-Z VIP Load ring for bolting – UNC inch thread																		
0.63t-3/8"	8504256	0.63	0.29	2.95	1.18	2.13	1.34	0.94	1.54	0.39	1.14	0.63	2.95	1.77	1.77	3/8"	1.26	44
1t-1/2"	8502349	1	0.36	2.95	1.26	2.13	1.34	1.02	1.50	0.39	1.14	0.87	2.95	1.77	1.97	1/2"	1.26	74
1.5t-5/8"	8502350	1.5	0.50	3.35	1.3	2.20	1.42	1.18	1.54	0.53	1.42	0.94	3.39	1.85	2.36	5/8"	1.5	111
2.5t-3/4"	8502351	2.5	1.3	4.33	1.97	3.23	2.13	1.77	2.17	0.65	1.69	1.10	4.45	2.52	2.8	3/4"	1.89	184
2.5t-7/8"	8502352	2.5	1.25	4.33	1.97	3.23	2.13	1.77	2.17	0.65	1.69	1.06	4.45	2.52	2.76	7/8"	1.89	184
4t-1"	8502353	4	1.50	4.92	1.97	3.23	2.13	1.77	2.64	0.71	1.69	1.61	5.12	3.07	3.31	1"	1.89	295
5t-1-1/4"	8503187	5	3.33	5.79	2.36	4.06	2.56	2.36	2.52	0.89	2.40	1.61	5.94	3.15	4.02	1-1/4"	2.64	369
5t-1-1/4"	8502354	5	3.33	5.79	2.36	4.06	2.56	2.36	2.52	0.89	2.40	1.61	5.94	3.15	4.02	1-1/4"	2.64	369
8t-1-1/2"	8504257	8	6.2	7.76	3.03	4.80	3.23	2.76	3.82	1.04	3.03	2.44	8.07	4.33	5.51	1-1/2"	3.43	590
20t-2"	8504258	20	11.7	8.74	3.74	6.14	3.94	3.74	4.13	1.42	3.43	2.72	9.06	5.12	6.14	2"	3.94	1,475
VLBG-Z VIP Load ring for bolting – UNC inch thread with longer Vario bolt																		
0.63t-3/8"	8600440	0.63	*	2.95	1.18	2.13	1.34	0.94	1.54	0.39	1.14	0.4-3.9	2.95	1.77	1.5-5	3/8"	1.26	44
1t-1/2"	8600441	1	*	2.95	1.26	2.13	1.34	1.02	1.50	0.39	1.14	0.5-4.8	2.95	1.77	1.7-6	1/2"	1.26	74
1.5t-5/8"	8600442	1.5	*	3.35	1.3	2.20	1.42	1.18	1.54	0.53	1.42	0.6-5.8	3.39	1.85	2-7.2	5/8"	1.5	111
2.5t-3/4"	8600443	2.5	*	4.33	1.97	3.23	2.13	1.77	2.17	0.65	1.69	0.7-7.3	4.45	2.52	2.4-9	3/4"	1.89	184
2.5t-7/8"	8600444	2.5	*	4.33	1.97	3.23	2.13	1.77	2.17	0.65	1.69	0.9-8.3	4.45	2.52	2.6-10	7/8"	1.89	184
4t-1"	8600445	4	*	4.92	1.97	3.23	2.13	1.77	2.64	0.71	1.69	1-8.3	5.12	3.07	2.7-10	1"	1.89	295
5t-1-1/4"	8600446	5	*	5.79	2.36	4.06	2.56	2.36	2.52	0.89	2.40	1.3-10.9	5.94	3.15	3.7-13.3	1-1/4"	2.64	369
8t-1-1/2"	8600447	8	*	7.76	3.03	4.80	3.23	2.76	3.82	1.04	3.03	1.5-10.6	8.07	4.33	0.4-13.7	1-1/2"	3.43	590
20t-2"	8600448	20	*	8.74	3.74	6.14	3.94	3.74	4.13	1.42	3.43	2-11.9	9.06	5.12	0.5-15.3	2"	3.94	1,475

VLBG

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VRS-F metric thread with STAR KEY

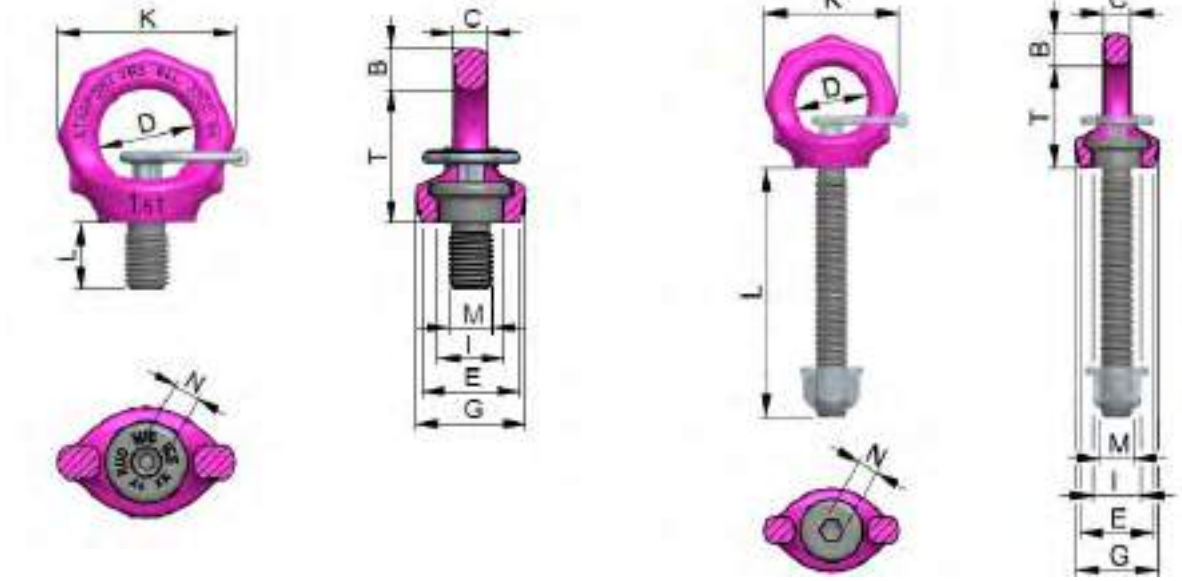
Swivelling Eye Bolt for bolting

Product details

METRIC

Highlights

360° adjustable in force direction
several times higher WLL than the DIN 580 eye bolt
Easy-Fit-Key for easy assembly and disassembly



CAD RFID

Type	Item No.	WLL-X	Wght	T	B	C	D	E	G	I	K	L	M	N	Torque
		[t]	kg/pc.	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[Nm]
VRS-F STARPOINT – metric with (VRS-F) STAR KEY															
0.1t-M6	7900906	0.1	0.07	28	9	7	20	23	28	13	37	9	M6	6	5
0.3t-M8	8500911	0.3	0.12	35	11	9	25	25	30	16.3	47	12	M8	6	10
0.4t-M10	7104029	0.4	0.12	35	11	9	25	25	30	16.3	47	15	M10	6	10
0.75t-M12	7101313	0.75	0.2	42	13	10	30	30	34	19.8	56	18	M12	8	25
0.75t-M14	7999330	0.75	0.21	42	13	10	30	30	34	19.8	56	18	M14	8	30
1.5t-M16	7101314	1.5	0.3	49	15	13	35	36	40	23.5	65	24	M16	10	60
1.5t-M18	7903387	1.5	0.35	49	15	13	35	36	40	23.5	65	24	M18	10	60
2.3t-M20	7101315	2.3	0.5	58	17	16	40	41	50	29.3	76	30	M20	12	115
2.3t-M22	7992197	2.3	0.5	58	17	16	40	41	50	29.3	76	30	M22	12	125
3.2t-M24	7101316	3.2	0.8	70	20	19	49	51	60	35	92	36	M24	14	190
3.2t-M27	7994138	3.2	1	70	20	19	49	51	60	35	92	36	M27	14	250
4.5t-M30	7101317	4.5	1	87	26	24	60	66	75	44	114	45	M30	17	330
4.5t-M33	7993439	4.5	1.8	87	26	24	60	66	75	44	114	45	M33	17	350
7t-M36	7984201	7	3.5	103	32	29	72	76	97	53	135	54	M36	22	590
VRS-F STARPOINT – metric with Longer Vario bolt															
0.4t-M10	8600270	0.4	*	35	11	9	25	25	30	16.3	47	16-70	M10	6	10
0.75t-M12	8600271	0.75	*	42	13	10	30	30	34	19.8	56	19-150	M12	8	25
1.5t-M16	8600272	1.5	*	49	15	13	35	36	40	23.5	65	16-120	M16	10	60
2.3t-M20	8600273	2.3	*	58	17	16	40	41	50	29.3	76	31-160	M20	12	115
3.2t-M24	8600274	3.2	*	70	20	19	49	51	60	35	92	37-140	M24	14	190
4.5t-M30	8600275	4.5	*	87	26	24	60	66	75	44	114	46-190	M30	17	330

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VRS-F UNC inch thread with STAR KEY

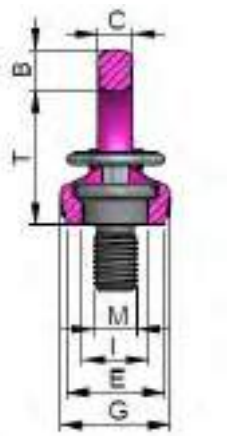
RUD® UNC

Swivelling Eye Bolt for bolting

Product details

Highlights

360° adjustable in force direction
several times higher WLL than the DIN 580 eye bolt
Easy-Fit-Key for easy assembly and disassembly



CAD RFID

Type	Item No.	WLL-X	Wght	T	B	C	D	E	G	I	K	L	M	N	Torque
		[t]	lbs/pc.	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]		[inch]	[ft. lbs]
VRS-F STARPOINT – metric with (VRS-F) STAR KEY															
0.3t-5/16"-18	7999106	0.3	0.29	1.38	0.43	0.35	0.98	0.98	1.18	0.64	1.85	0.47	5/16"-18	1/4"	7.4
0.1t-1/4"-20	7999105	0.1	0.53	1.10	0.35	0.28	0.79	0.91	1.10	0.51	1.46	0.35	1/4"-20	1/4"	3.7
0.4t-3/8"-16	7104480	0.4	0.26	1.38	0.43	0.35	0.98	0.98	1.18	0.64	1.85	0.75	3/8"-16	1/4"	7.4
0.4t-7/16"-14	7904195	0.4	0.26	1.38	0.43	0.35	0.98	0.98	1.18	0.64	1.85	0.75	7/16"-14	1/4"	7.4
0.75t-1/2"-13	7104481	0.75	0.49	1.65	0.51	0.39	1.18	1.18	1.34	0.78	2.20	0.75	1/2"-13	5/16"	18.4
1.5t-5/8"-11	7104482	1.5	0.73	1.93	0.59	0.51	1.38	1.42	1.57	0.93	2.56	0.94	5/8"-11	3/8"	44.3
1.5t-3/4"-10	7104483	1.5	0.99	1.93	0.59	0.51	1.38	1.42	1.57	0.93	2.56	0.94	3/4"-10	1/2"	84.8
2.3t-7/8"-9	7104484	2.3	1.41	2.28	0.67	0.63	1.57	1.61	1.97	1.16	2.99	1.30	7/8"-9	1/2"	84.8
3.2t-1"-8	7104485	3.2	2.16	2.76	0.79	0.75	1.93	2.01	2.36	1.38	3.62	1.50	1"-8	9/16"	140.1
3.2t-1-1/8"-8	7903386	3.2	2.16	2.76	0.79	0.75	1.93	2.01	2.36	1.38	3.62	1.42	1-1/8"-8	9/16"	184.4
3.2t-1-1/8"-7	7903383	3.2	2.16	2.76	0.79	0.75	1.93	2.01	2.36	1.38	3.62	1.42	1-1/8"-7	9/16"	184.4
4.5t-1-1/4"-7	7104486	4.5	4.01	3.43	1.02	0.94	2.36	2.60	2.95	1.73	4.49	1.89	1-1/4"-7	3/4"	243.4
7t-1-1/2"-6	7104487	7	7.94	4.06	1.26	1.14	2.83	2.99	3.82	2.09	5.31	2.13	1-1/2"-6	7/8"	435.2
9t-1-3/4"-5	7104488	9	10.91	4.76	1.46	1.30	3.31	3.39	4.37	2.44	6.22	2.48	1-3/4"-5	1"	682.2
12t-2"-4.5	7104469	12	16.76	5.43	1.65	1.65	3.70	3.94	5.04	2.76	7.09	2.83	2"-4.5	1-1/8"	1032.6

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VRS / socket wrench

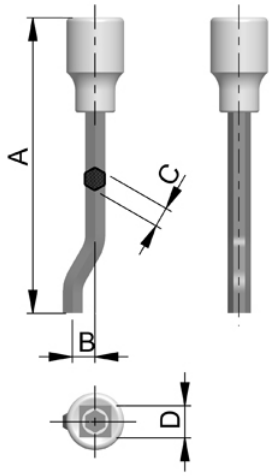
Starpoint Accessories

Product details

Socket Wrench

The safety against the disengaging of the bolt connection of lifting points is mainly influenced by the torque of the bolt. Lifting points, which permanently remain on the point of the force introduction, must be tightened according to the corresponding user manual. For permanent use, the lifting points for bolting must be checked regularly for tightness. The cranked socket wrench for the Starpoint-Vario-eye bolt enables an easy tightening with a suitable torque.

Observe the user manual for Starpoint VRS and socket wrench.
Socket wrench is nickel-plated - therefore also suitable for INOX-STAR.



Type	Item No.	Wght	A	B	C	D	M
		kg/pc.	[mm]	[mm]	[mm]	[inch]	[mm]
VRS-F Socket Wrench							
VRS SOCKET WRENCH	7997749	0.09	118	7.5	6	1/2"	M6+M8+M10
VRS SOCKET WRENCH	7997750	0.11	118	9	8	1/2"	M12+M14
VRS SOCKET WRENCH	7997751	0.15	138	12	10	1/2"	M16+M18
VRS SOCKET WRENCH	7997752	0.2	137	14	12	1/2"	M20+M22
VRS SOCKET WRENCH	7997753	0.24	140	16.5	14	1/2"	M24+M27
VRS SOCKET WRENCH	7902078	0.47	152	22	17	1/2"	M30+M33
VRS SOCKET WRENCH	7902079	1.0	192	26	22	1"	M36
VRS SOCKET WRENCH	7902080	1.2	276	2933	24	1"	M42
VRS SOCKET WRENCH	7902081	2.0	304		27	1"	M48

VRS / STAR KEY

Socket Wrench

Replacement Key With Spring

Type	Item No.	Wght	M
		kg/pc.	
VRS STAR KEY – Metric			
STAR KEY	7983986	0.02	M6+M8+M10
STAR KEY	7905453	0.02	M12+M14
STAR KEY	7903254	0.03	M16+M18
STAR KEY	7904282	0.04	M20+M22
STAR KEY	7904283	0.08	M24+M27
STAR KEY	7904284	0.12	M30+M33
STAR KEY	7904285	0.15	M36
STAR KEY	7904286	0.3	M42
STAR KEY	7904287	0.4	M48
VRS STAR KEY – UNC inch thread			
STAR KEY	7983995	0.02	5/16"-18UNC+3/8"-16UNC+7/16"-14UNC
STAR KEY	7983996	0.02	1/2"-13UNC
STAR KEY	7983997	0.03	5/8"-11UNC
STAR KEY	7983998	0.04	3/4"-10UNC+7/8"-9UNC
STAR KEY	7983999	0.08	1"-8UNC+1-1/8"-8UN+1-1/8"-7UNC
STAR KEY	7984000	0.12	1-1/4"-7UNC
STAR KEY	7984001	0.15	1-1/2"-6UNC
STAR KEY	7984002	0.3	1-3/4"-5UNC
STAR KEY	7984003	0.4	2"-4.5UNC

VRM metric thread

RUD®

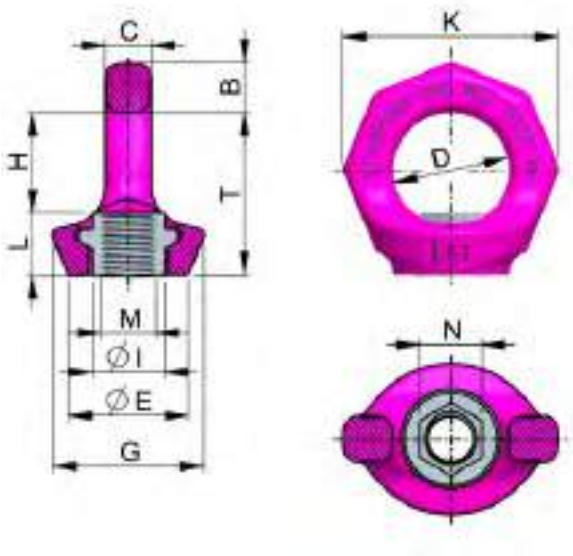
METRIC

Swivelling Eye Nut for bolting

Product details

Highlights

pivots 360° for adjustment in load direction
clear marking of the minimum WLL
quick and easy installation



CAD RFID

Type	Item No.	WLL-X	Wght	T	B	C	D	E	G	H	I	K	L	M	N
		[t]	kg/pc.	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
VRS-F STARPOINT – metric with (VRS-F) STAR KEY															
0.1t-M6	7900786	0.1	0.05	28	9	7	20	23	28	17	13	37	11	M6	9
0.3t-M8	7992989	0.3	0.1	35	11	9	25	25	30	21	16	47	14	M8	12
0.4t-M10	7990311	0.4	0.1	35	11	9	25	25	30	21	16	47	14	M10	12
0.75t-M12	7990312	0.75	0.2	42	13	10	30	30	34	25	20	56	17	M12	14
1.5t-M16	7990314	1.5	0.3	49	15	13	35	36	40	31	22	65	21	M16	19
2.3t-M20	7990315	2.3	0.5	58	17	16	40	41	50	35	29	76	23	M20	24
3.2t-M24	7990316	3.2	0.9	70	20	19	49	51	60	41	35	92	29	M24	30
4.5t-M30	7993008	4.5	1.5	87	26	24	60	66	75	51	44	114	36	M30	36

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ACP-Turnado

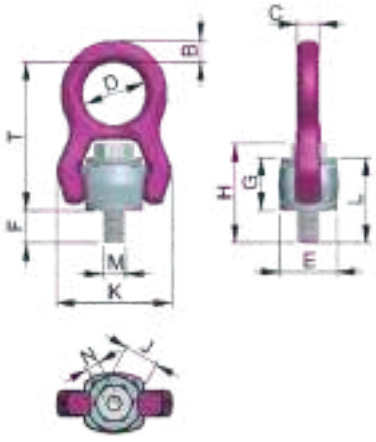
Automatic-Center Lifting Point

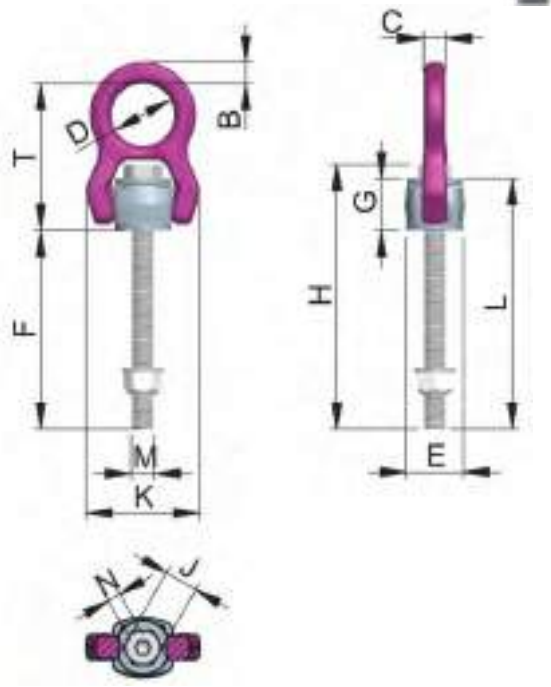
Product details

UNC METRIC

Highlights

- No kinking
- RUD's ingenious spring mechanism
- Higher working load limits (WLL) compared to hoist rings oft the same size





Special Order

CAD RFID

Type	Item No. w/ Bolt	WLL	Wgt	B	C	D	E	F std	F max	G	H	K	L	L max	M	N	J	T	Trqe
		[t]	[lbs]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	ft/lbs
1.1t - 1/2"	7909417	1.1	0.83	0.43	0.41	1.50	1.18	0.71	4.90	1.10	2.13	2.28	1.81	6.00	1/2"	5/16"	3/4"	3.27	60
2t - 5/8"	7909418	2.0	1.80	0.55	0.55	1.97	1.57	0.87	5.85	1.42	2.68	2.99	2.28	7.24	5/8"	3/8"	15/16"	4.21	110
3.2t - 3/4"	7909419	3.2	2.96	0.67	0.68	1.97	1.77	1.00	7.28	1.71	3.17	3.50	2.72	9.00	3/4"	1/2"	1-1/8"	4.65	220
5t - 1"	7909420	5.0	6.93	0.91	0.91	2.60	2.36	1.42	7.83	2.17	4.19	4.74	3.58	10.00	1"	9/16"	1-1/2"	6.06	370
6.4t -1-1/4"	7909421	6.4	12.70	1.14	1.06	2.95	2.95	1.83	10.67	2.70	5.30	5.83	4.53	13.37	1-1/4"	5/8"	1-7/8"	7.20	590

CAD RFID

Type	Item No. w/ Bolt	WLL	Wgt	B	C	D	E	F std	F max	G	H	K	L	L max	M	N	J	T	Trqe
		[t]	[kg/pc]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[Nm]
1.1t - M12	7909314	1.1	0.375	11	10.5	38	30	19	117	28	54.5	58	47	145	12	8	19	83	80
2t - M16	7909316	2.0	0.815	14	14	50	40	22	149	36	68	76	58	185	16	10	24	107	150
3.2t - M20	7909317	3.2	1.342	17	17.3	50	45	26.5	186.5	43.5	82	89	70	230	20	12	30	118	300
5t - M24	7909318	5.0	3.03	23	23	66	60	34	210	55	104	120.5	89	265	24	14	36	154	500
6.4t - M30	7909319	6.4	5.66	29	27	75	75	41.5	271.5	68.5	128	148	110	340	30	17	46	183	800

*

WARNING: NEVER EXCEED WORKING LOAD LIMIT!
Failure to follow instructions can result in serious property damage, injury or death! For more information please see the warning information found in the hardware section of this catalogue

ICE-Load Ring for bolting - ICE-LBG-SR

RUD®

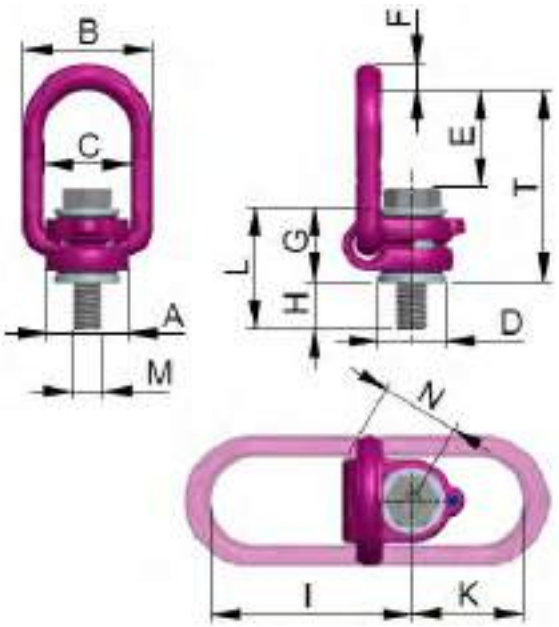
ICE Load ring for bolting Super Rotation

Product details

SUPER ROTATION®

Highlights

- ICE-bolt with revolutionary mechanical characteristics
- No loosening thanks to Super Rotation®
- Double SR-ball bearing, rotating 360° under load



CAD RFID

Special Order

Type	Item No.	WLL	Wgt	T	A	B	C	D	E	F	G	H	I	K	L	M	N	Torque
		[t]	[kg/pc]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[Nm]
0.6t M8	8504284	0.6	0.3	75	32	50	34	24	40	10	29	12	75	43	41	M8	32	30
0.9t M10	8504285	0.9	0.31	74	32	50	34	24	39	10	29	15	75	43	44	M10	32	60
1.35t M12	8504286	1.35	0.34	74	32	50	34	26	38	10	29	18	75	43	47	M12	32	150
2.5t M16	8504287	2.5	0.52	84	36	54	40	30	39	13.5	34	24	86	46	58	M16	38	150
3.5t M20	8504288	3.5	1.3	110	54	82	60	45	53	17	45	30	113	61	75	M20	48	400
4.5t M24	8504289	4.5	1.4	125	54	82	60	45	66	18	45	36	130	76	80	M24	48	760
6.7t M30	8504290	6.7	3.2	145	63	102	69	55	66	22.5	60	50	151	79	110	M30	66	1000
0.6t M8	8600500	0.6	0.3	75	32	50	34	24	40	10	29	8-76	75	43	37-105	M8	32	30
0.9t M10	8600501	0.9	0.31	74	32	50	34	24	39	10	29	10-96	75	43	39-125	M10	32	60
1.35t M12	8600502	1.35	0.34	74	32	50	34	26	38	10	29	12-116	75	43	41-145	M12	32	150
2.5t M16	8600504	2.5	0.52	84	36	54	40	30	39	13.5	34	16-149	86	46	50-185	M16	38	150
3.5t M20	8600506	3.5	1.3	110	54	82	60	45	53	17	45	20-187	113	61	65-230	M20	48	400
4.5t M24	8600508	4.5	1.4	125	54	82	60	45	66	18	45	24-222	130	76	69-265	M24	48	760
6.7t M30	8600510	6.7	3.2	145	63	102	69	55	66	22.5	60	30-279	151	79	90-340	M30	66	1000

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Other Available Models from RUD

PP- PowerPoint®

Highlights

Rotating 360°, pivoting 230°
Universal hook, ring or chain connection
Double ball bearing for turning/rotating operations

INOX-STAR®, metric thread

Highlights

pivots 360° for adjustment in load direction
clear marking of the minimum WLL
material: duplex steel 1.4462

RS Eye bolt / RM Eye Nut / IRS-LT ICE Eye Bolt

Highlights

considerably higher WLL in comparison to DIN 580
clear marking of the minimum WLL
comprehensive range of threads

RBG 3 | VRBG 10-16 | VRBG 31-50 | WBPG | B-ABA | VABH-B

For more information please visit www.rud.com

directions of pull…	…for 1 lifting point		…for 2 lifting point	…for 3/4 lifting point
designation thread size	G	G	G	G
ICE-LBG-SR 0.6 t M8	0.6	0.6	0.8	1.2
ICE-LBG-SR 0.9 t M10	0.9	0.9	1.2	1.9
ICE-LBG-SR 1.35 t M12	1.35	1.35	1.9	2,8
ICE-LBG-SR 2.5 t M16	2.5	2.5	3.5	5.3
ICE-LBG-SR 3.5 t M20	3.5	3.5	4.9	7.4
ICE-LBG-SR 4.5 t M24	4.5	4.5	6.3	9.5
ICE-LBG-SR 6.7 t M30	6.7	6.7	9.4	14.2

directions of pull…	…for 1 lifting point		…for 2 lifting point	…for 3/4 lifting point
designation thread size	G	G	G	G
VLBG-PLUS-0.63 t-M8	0.63	0.63	0.88	1.32
VLBG-PLUS-0.9 t-M10	0.9	0.9	1.3	1.9
VLBG-PLUS-1.35 t-M12	1.35	1.35	1.9	2.8
VLBG-1.2 t-M14	1.2	1.2	1.68	2.52
VLBG-PLUS-2 t-M16	2	2	2.8	4.2
VLBG-2 t M18	2	2	2.8	4.2
VLBG-PLUS-3.5 t-M20(M22)	3.5 (2.5)	3.5 (2.5)	4.9 (3.5)	7.4 (5.25)
VLBG-PLUS-4,5 t-M24(M27)	4.5 (4)	4.5 (4)	6.3 (5.6)	9.5 (8.4)
VLBG-PLUS-6,7 t-M30	6.7	6.7	9.4	14.2
VLBG-7 t-M36	7	7	9.8	14.7
VLBG-PLUS-8 t-M36	8	8	11.2	16.8
VLBG-PLUS-10 t-M42	10	10	14	21
VLBG-PLUS-15 t-M42	15	15	21	31.5
VLBG-PLUS-20 t-M48	20	20	28	42

directions of pull…	…for 1 lifting point		…for 2 lifting point	…for 3/4 lifting point
designation thread size	G	G	G	G
VRS-0.1 t-M6	0.5	0.1	0.14	0.21
VRS-0.3 t-M8	1	0.3	0.42	0.63
VRS-0.4 t-M10	1	0.4	0.56	0.84
VRS-0.75 t-M12/M14	2	0.75	1	1.6
VRS-1.5 t-M16/M18	4	1.5	2.1	3.15
VRS-2.3 t-M20/M22	6	2.3	3.22	4.83
VRS-3.2 t-M24/M27	8	3.2	4.48	6.7
VRS-4.5 t-M30/M33	12	4.5	6.3	9.4
VRS-7 t-M36	16	7	9.8	14.7
VRS-9 t-M42	24	9	12.6	18.9
VRS-12 t-M48	32	12	16.8	25.2

designation thread size	G	G	G	G
VWBG-V-0.3 t-M8	0.6	0.3	0.42	0.63
VWBG-V-0.45 t-M10	0.9	0.45	0.63	0.94
VWBG-V-0.6 t-M12	1.2	0.6	0.84	1.26
VWBG-V-1 t-M14	2	1	1.4	2.1
VWBG-V-1.3 t-M16	2.6	1.3	1.81	2.73
VWBG-V-1.8 t-M18	3.6	1.8	2.52	3.78
VWBG-V-2 t-M20/M22	4	2	2.8	4.2
VWBG-V-3.5 t-M24/M27	7	3.5	4.9	7.35
VWBG-V-5 t-M30	10	5	7	10.5
VWBG-6 t-M33	15	6	8.4	12.6
VWBG-8 t-M36–M39	15	8	11.2	16.8
VWBG-12 t-M42–M45	17	12	16.8	25.2
VWBG-12 t-M45	18	12	16.8	25.2
VWBG-13 t-M48–M52	18	13	18.2	27.3
VWBG-14 t-M52	25	14	19.6	29.4
VWBG-16 t-M56–M62	28	16	22.4	33.6
VWBG-16 t-M64–M76	28	16	22.4	33.6
VWBG-31.5 t-M72–M76	50	31.5	44.1	66.15
VWBG-35 t-M80–M85	50	35	49	73.5
VWBG-35 t-M90–M150	50	40	56	84

directions of pull…	…for 1 lifting point		…for 2 lifting point	…for 3/4 lifting point
designation thread size	G	G	G	G
PP-0.63 t-M12	0.63	0.63	0.88	1.32
PP-1.5 t-M16	1.5	1.5	2.1	3.15
PP-2.5 t-M20	2.5	2.5	3.5	5.25
PP-4 t-M24	4	4	5.6	8.4
PP-5 t-M30	6.7	5	7	10.5
PP-8 t-M36	10	8	11.2	16.8

directions of pull…	…for 1 lifting point		…for 2 lifting point	…for 3/4 lifting point
designation	G	G	G	G
VLBS / VLBS-U-1.5 t	1.5	1.5	2.1	3.15
VLBS / VLBS-U-2.5 t	2.5	2.5	3.5	5.25
VLBS / VLBS-U-4 t	4	4	5.6	8.4
VLBS / VLBS-U-6.7 t	6.7	6.7	9.5	14
VLBS / VLBS-U-10 t	10	10	14	21
VLBS-16 t	16	16	22.4	33.6
LBS-(1)-RS-0.5 t	0.5	0.5	0.7	1.05
LBS-(3)-RS-1 t	1	1	1.4	2.1

directions of pull…	…for 1 lifting point		…for 2 lifting point	…for 3/4 lifting point
designation	G	G	G	G
ABA-1.6 t	1.6	1.6	2.2	3.4
ABA-3.2 t	3.2	3.2	4.5	6.8
ABA-5 t	5	5	7.1	10.6
ABA-10 t	10	10	14.1	21.2
ABA-20 t	20	20	28	42
ABA-31.5 t	31.5	31.5	45	67

Yoke® 8-204 UNC Thread / Hoist Ring

YOKE
Safety is our first priority™

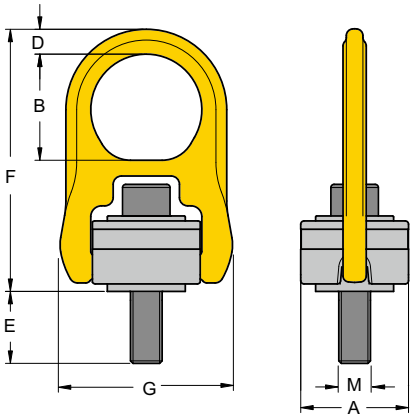
UNC

Swivelling Hoist Ring for bolting

Product details

Highlights

- Rotates through 360° and pivot 180°, rated at 100% at 90°angle.
- Manufactured from forged alloy steel, quenched and tempered.
- Manufactured and tested in accordance with EN1677-1.
- Load rated parts are 100% magnaflux crack detected.
- Individual forged parts and cap screw are traceable to Test Certification.
- Bolt are UNC thread (ASME/ ANSI B18.31M).
- Proof tested to 2.5 times the WLL.
- Fatigue rated to 1.5 times the WLL.
- All YOKE Lifting points meet or exceed all the requirements of ASME B30.26.
- Quick and simple assembly, just a tapped hole is required.



8-204 Hoist Ring

Item NO.	WLL 5:1	Thread	Dimensions(inch)						Torque in	N.W.
	lbs	TPI	A	B	D	E	F	G	ft.lbs	lbs
8-204-004	800	5/16-18UNC	1.57	1.61	0.35	0.71	4.02	2.56	7	0.9
8-204-005	1,000	3/8-16UNC	1.57	1.61	0.35	0.71	4.02	2.56	12	0.9
8-204-010	2,500	1/2-13UNC	2.56	2.32	0.59	0.75	6.26	4.13	28	3.7
§ 8-204-010L	2,500	1/2-13UNC	2.56	2.32	0.59	1.26	6.26	4.13	28	3.7
8-204-019	4,000	5/8-11UNC	2.56	2.32	0.59	0.74	6.26	4.13	60	4
§ 8-204-019L	4,000	5/8-11UNC	2.56	2.32	0.59	1.75	6.26	4.13	60	4
8-204-021	5,000	3/4-10UNC	2.56	2.87	0.59	1.24	6.26	4.13	100	4
§ 8-204-021L	5,000	3/4-10UNC	2.56	2.87	0.59	1.73	6.26	4.13	100	4.2
8-204-030	7,000	3/4-10UNC	3.35	2.87	0.59	0.87	6.26	5.28	100	8.8
§ 8-204-030L	7,000	3/4-10UNC	3.35	2.87	0.87	1.87	8.03	5.28	100	9.5
8-204-042	8,000	7/8-9UNC	3.35	2.87	0.87	1.43	8.03	5.28	160	9.3
§ 8-204-042L	8,000	7/8-9UNC	3.35	2.87	0.87	2.37	8.03	5.28	160	9.7
8-204-045	10,000	1-8UNC	3.35	2.87	0.87	1.36	8.03	5.28	230	9.5
§ 8-204-045L	10,000	1-8UNC	3.35	2.87	0.87	2.36	8.03	5.28	230	10.1
8-204-070	15,000	1 1/4-7UNC	3.95	3.15	1	2.25	8.58	6.3	470	14.5
8-204-125	24,000	1 1/2-6UNC	4.72	4.29	1.38	2.17	12.09	8.66	800	35.2
8-204-135	30,000	2-4.5UNC	4.72	4.29	1.38	3.01	12.09	8.66	1,100	35.2

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death! For more information please see the warning information found in the hardware section of this catalogue

Yoke® 8-203 Metric Thread / Hoist Ring

YOKE
Safety is our first priority™

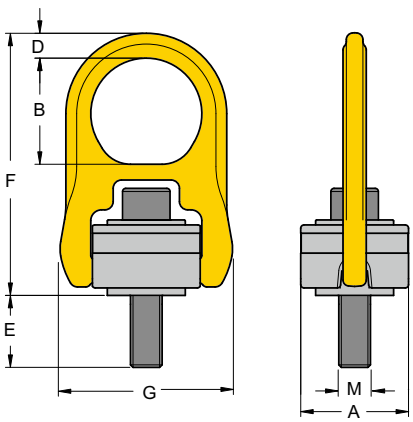
METRIC

Swivelling Hoist Ring for bolting

Product details

Highlights

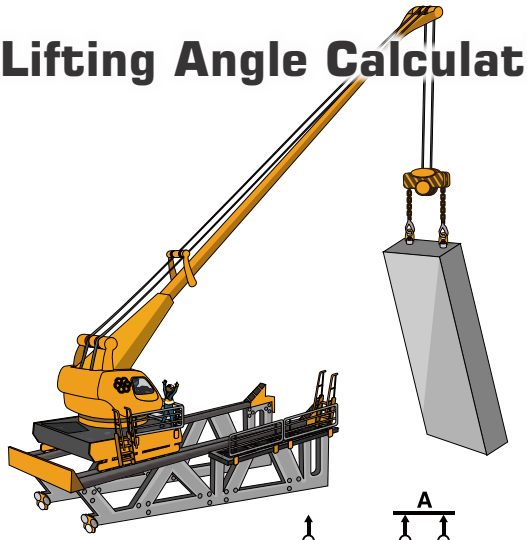
- Rotates through 360° and pivot 180°, rated at 100% at 90°angle.
- Manufactured from forged alloy steel, quenched and tempered.
- Manufactured and tested in accordance with EN1677-1.
- Load rated parts are 100% magnaflux crack detected.
- Individual forged parts and cap screw are traceable to Test Certification.
- Bolt are Metric thread (ASME / ANSI B18.3.1M).
- Proof tested to 2.5 times the WLL.
- Fatigue rated to 1.5 times the WLL.
- All YOKE Lifting points meet or exceed all the requirements of ASME B30.26.
- Quick and simple assembly, just a tapped hole is required



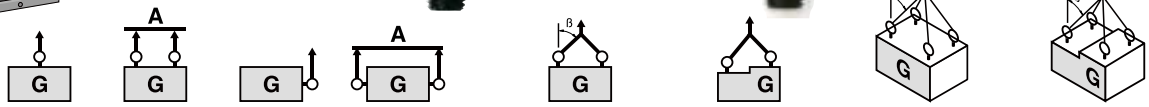
8-203 Hoist Ring

Item NO.	WLL 5:1	Thread	Dimensions (mm)						Torque in	N.W.
	tonne	mm	A	B	D	E	F	G	Nm	kg
8-203-004	0	M8 x 1.25	40	41	9	17	102	65	10	0.4
8-203-005	0	M10 x 1.5	40	41	9	11	102	65	16	0.5
§ 8-203-005L	0	M10 x 1.5	40	41	9	26	102	65	16	0.5
8-203-010	1	M12 x 1.75	65	64	15	15	158	105	38	1.7
§ 8-203-010L	1	M12 x 1.75	65	64	15	30	158	105	38	1.7
8-203-019	2	M16 x 2	65	64	15	20	158	105	81	1.8
§ 8-203-019L	2	M16 x 2	65	64	15	35	158	105	81	1.8
8-203-021	2	M20 x 2.5	65	64	15	25	158	105	136	1.8
§ 8-203-021L	2	M20 x 2.5	65	64	15	45	158	105	136	1.9
8-203-030	3	M20 x 2.5	85	79	19	25	204	134	136	4
§ 8-203-030L	3	M20 x 2.5	85	79	19	45	204	134	136	5.2
8-203-042	4	M24 x 3	85	79	19	26	204	134	312	4.2
§ 8-203-042L	4	M24 x 3	85	79	19	56	204	134	312	4.3
8-203-070	7	M30 x 3.5	100	100	25	81	241	160	637	6.6
8-203-110	11	M36 x 4	120	111	30	76	286	194	1005	15
8-203-125	13	M42 x 4.5	120	111	30	65	286	220	1005	16
8-203-135	13.5	M48 x 5	120	111	30	70	286	220	1350	16

Lifting Angle Calculations

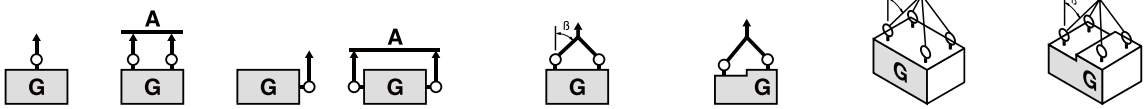


8-204 Hoist Ring



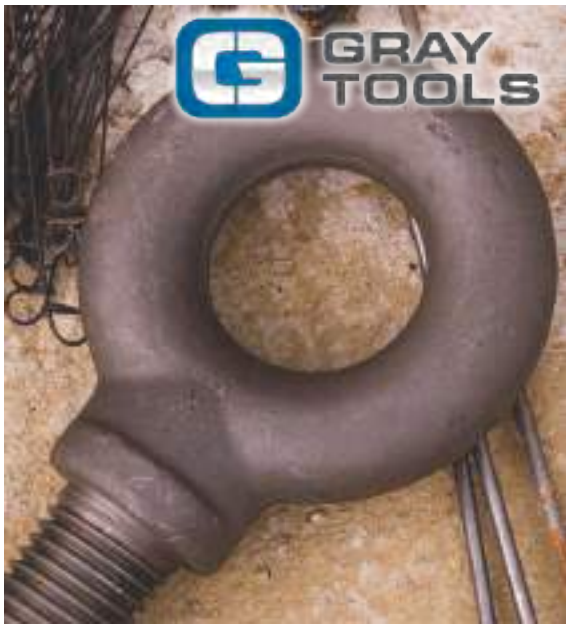
Number of Legs		1	2	1	2	2	2	2	3-4	3-4	3-4
Load Direction		0°	0°	90°	90°	0-45°	45°-60°	unsymm	0-45°	45°-	60°
Item No.	Thread	RATED LOAD lbs.									
8-204-004	5/16	800	1,600	800	1,600	1,200	800	800	1,700	1,200	800
8-204-005	3/8	1,000	2,000	1,000	2,000	1,400	1,000	1,000	2,100	1,500	1,000
8-204-010	1/2	2,500	4,900	2,500	4,900	3,400	2,500	2,500	5,100	3,700	2,500
8-204-019	5/8	4,000	8,000	4,000	8,000	5,600	4,000	4,000	8,400	6,000	4,000
8-204-021	3/4	4,900	9,800	4,900	9,800	6,800	4,900	4,900	10,200	7,300	4,900
8-204-030	3/4	6,900	13,700	6,900	13,700	9,600	6,900	6,900	14,400	10,300	6,900
8-204-042	7/8	8,000	15,900	8,000	15,900	11,200	8,000	8,000	16,700	12,000	8,000
8-204-045	1	10,000	19,900	10,000	19,900	13,900	10,000	10,000	20,900	14,900	10,000
8-204-070	1-1/4	15,000	30,000	15,000	30,000	21,000	15,000	15,000	31,500	22,500	15,000
8-204-125	1-1/2	24,100	48,100	24,100	48,100	33,700	24,100	24,100	50,500	36,100	24,100
8-204-135	2	30,000	60,000	30,000	60,000	42,000	30,000	30,000	63,000	45,000	30,000

8-203 Hoist Ring



Number of Legs		1	2	1	2	2	2	2	3-4	3-4	3-4
Load Direction		0°	0°	90°	90°	0-45°	45°-60°	unsymm	0-45°	45°-	60°
Item No.	Thread	RATED LOAD kgs.									
8-203-004	M8	1,000	2,300	1,200	2,300	1,600	1,200	1,200	2,400	1,700	1,200
8-203-005	M10	1,300	2,500	1,300	2,500	1,700	1,300	1,300	2,600	1,900	1,300
8-203-010	M12	2,900	5,800	2,900	5,800	4,100	2,900	2,900	6,100	4,300	2,900
8-203-019	M16	5,300	10,600	5,300	10,600	7,500	5,300	5,300	11,200	8,000	5,300
8-203-021	M20	6,000	12,000	6,000	12,000	8,400	6,000	6,000	12,600	9,000	6,000
8-203-030	M20	8,300	16,600	8,300	16,600	11,600	8,300	8,300	17,400	12,500	8,300
8-203-042	M24	11,600	23,200	11,600	23,200	16,300	11,600	11,600	24,400	17,400	11,600
8-203-070	M30	19,300	38,600	19,300	38,600	27,100	19,300	19,300	40,600	29,000	19,300
8-203-110	M36	30,400	60,700	30,400	60,700	42,500	30,400	30,400	63,700	45,500	30,400
8-203-125	M42	34,400	68,800	34,400	68,800	48,200	34,400	34,400	72,300	51,600	34,400
8-203-135	M48	37,300	74,600	37,300	73,900	52,200	37,300	37,300	78,300	55,900	37,300
8-203-155	M56	42,800	85,600	42,800	85,600	59,900	42,800	42,800	89,900	64,200	42,800
8-203-223	M64	61,600	123,100	61,600	123,100	86,200	61,600	61,600	129,200	92,300	61,600

Gray Tools Machinery Eye Bolts
Eye Bolts are used to attach a securing eye to a structure, so that slings or other hardware can be attached for lifting. Eye Bolts are load rated and made from forged steel that has been quenched and tempered. Super Slings offers Regular Eyebolts along with Shoulder Eye Bolts, and Shoulder Type Machinery Eye Bolts. All of our eye bolts meet or exceed the requirements of ASME B30.26 including identification, ductility, design factor, proof load, and temperature requirements.

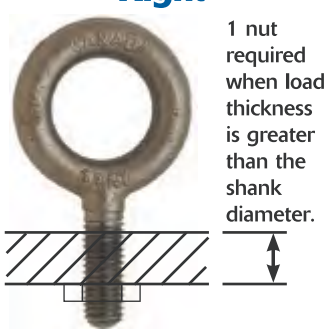


Shouldered- Eye Bolts with a shoulder can be used for angular lifting as long as the shoulder is properly seated. You need to check the manufacturers information to see how much capacity is lost a different angles of loading.

Non-Shouldered- Eye Bolts with no shoulder can only be used for completely vertical or inline lifts. They are not designed for side or angular loading.

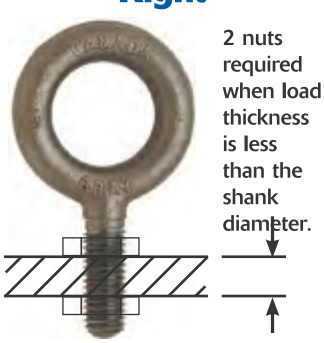
EYE BOLT INSTALLATION GUIDELINES

Right

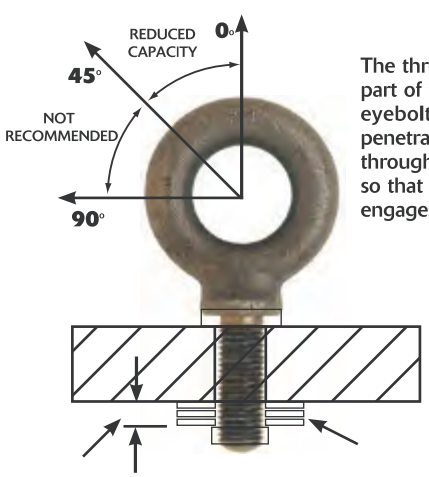


Tighten hex nut securely against load.

Right

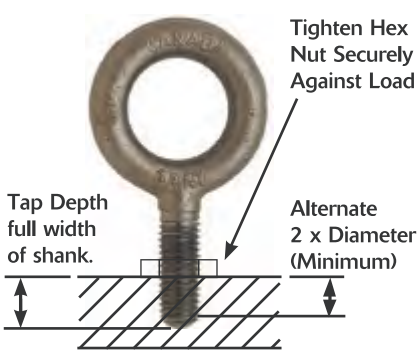


Tighten hex nut securely against load.

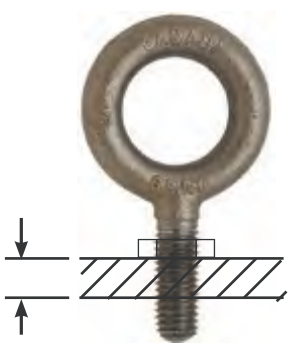


The threaded part of the eyebolt must penetrate through the load so that the nut engages fully.

Right

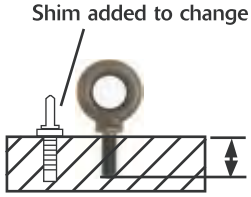


Wrong



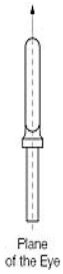
One eyebolt diameter or less.

- As shown in the diagram, place washer or spacers between the nut and the load.
- When threading eyebolt into non-chambered hole, a washer should be used.



Minimum tap depth is basic shank length plus one-half the normal eyebolt diameter.

Application / Installation



- The receiving hole should be counter-sunk and be free and clear of any debris to assure proper seating.
- LOADS SHOULD ALWAYS BE ALIGNED TO THE PLANE OF THE EYE, not at an angle to the plane. A steel washer or spacer may be used in conjunction with Shoulder Eyebolts to attain proper load alignment. The thickness of the steel washer or spacer must not exceed one thread pitch.
- Angular lifting should be avoided. Angular lifts significantly reduce rated capacities. See Rated Capacities/Guidelines.
- Check seating after applying an angular lift since the initial lift may cause the bolt to back away from the load. If such occurs, the Eyebolt should be unloaded & properly reseated.
- For applications with untapped through-holes, longer length Shoulder Eyebolts are recommended, using a steel washer and nut for the required thread length of engagement.
- Shoulder Eyebolt tapped holes are to have a threaded length which allows for full length of shank engagement and clearance for the unthreaded portion of shank.
- Shoulder Eyebolts must be firmly seated and flush against the mating surface; otherwise, the rated capacity is reduced significantly. The use of a steel washer or spacer is permissible and may be required; however, the thickness must not exceed one thread pitch.
- Plain Eyebolt tapped holes are to be threaded for full length engagement of the Eyebolt.
- Plain Eyebolts must have full thread shank engagement, allowing for one-half turn for proper eye-alignment to obtain rated capacities.

Inspection / Maintenance Safety

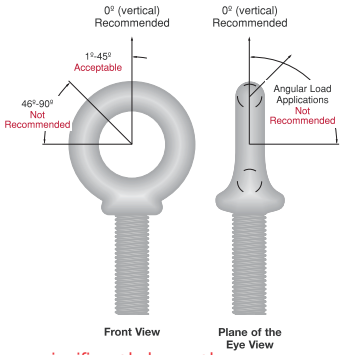
- Eyebolts should be inspected and installed by a competent person who is knowledgeable about the application and installation of Eyebolts.
- Each Eyebolt must be completely inspected BEFORE each use for possible defects such as: distortion, bent shank/threads, or incomplete/incorrectly formed threads. Periodic inspection of Eyebolts is highly recommended.
- Eyebolts should not be painted or otherwise coated when used for lifting; such coatings make it difficult to inspect for defects or wear indicators.
- Eyebolts should not be left where they can incur mechanical damage or corrosion.
- Destroy Eyebolts when signs of bend, elongation, wear or damage are visible. Such signs indicate that the Eyebolt has been stressed (overloaded) beyond rated capacity. Never attempt to repair a stressed Eyebolt.
- Destroy Eyebolts when they show any signs of alteration. Signs include: gouging, undercutting, welding, etc.
- Proper Destruction of an Eyebolt: crushing or cuttin clear across the eye of the Eyebolt.

Safety Precautions

- DO NOT work, stand or crawl around the load of the Eyebolt. Ensure a safe distance from the load.
- DO NOT use wrenches, crowbars, etc. to tighten Eyebolts. Hand tightening is recommended.
- DO NOT use a single Eyebolt to lift a load that can rotate. Safety Swivel Hoist Rings are recommended for such loads.
- DO NOT force hooks or any other fittings into the eye; they must fit freely.
- DO NOT exceed the Rated Capacity.
- DO NOT SHOCK LOAD EYEBOLTS. Gradually increase lifting of the load to minimize load-shock.
- DO NOT weld Eyebolts, or perform any weld-repair on Eyebolts.
- DO NOT machine Eyebolts on the shank or shoulder to achieve proper seating.
- DO NOT expose Eyebolts to extreme environmental conditions, as they may adversely affect the Rated Capacity.

Rated Capacities

Size	0° Lbs.	45° Lbs.	46° +
1/4	500	125	SWIVEL EYE BOLT/
5/16	900	225	HOIST RING RECC,
3/8	1,300	325	
7/16	1,800	450	
1/2	2,400	600	
9/16	3,000	800	
5/8	4,000	1,000	
3/4	5,000	1,250	
7/8	7,000	1,750	
1	9,000	2,250	
1 1/8	12,000	3,000	
1 1/4	15,000	3,750	
1 1/2	21,000	5,250	
1 3/4	28,000	7,000	
2	38,000	9,500	
2 1/2	56,000	14,000	



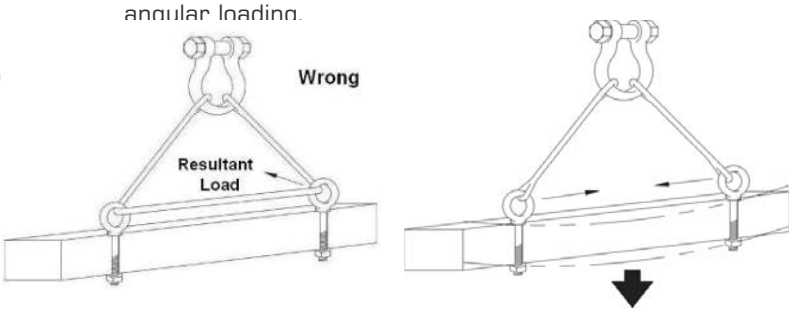
NOTE: Plain Eyebolt angular rated capacities are significantly lower than Shoulder Eyebolt rated capacities; therefore, angular lifting is not recommended.

Rated Capacity Guidelines

- Eyebolts are designed with a 5:1 Safety Factor.
- The minimum threaded shank length of Eyebolts must be one thread diameter to attain the rated capacity.
- No greater load should be applied to an Eyebolt than the Rated Capacity listed.
- Angular lifts significantly reduce Shoulder Eyebolt Rated Capacities. Shoulder Eyebolts should not be used for angular lifts greater than 45†; Safety Swivel Hoist Rings are recommended for such applications.
- Plain Eyebolts are not recommended for angular load applications. Safety Swivel Hoist Rings are recommended for such applications.

Reeving Of A Sling Through An Eye Bolt

- Slings should never be reeved through an eye bolt or through a pair of eye bolts. Reeving will alter the angle of the loading on the eye bolts. Only one leg should be attached to each eye bolt.
- After properly attaching the slings to the eye bolts, slowly lift the load. Watch the load carefully and be prepared to stop lifting the load if it starts to buckle.
- Buckling can occur if the load is not stiff enough to resist the compressive forces which result from the angular loading.



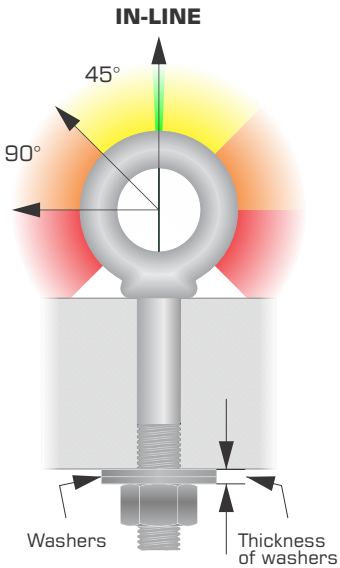
Shoulder & Regular Nut Eyebolts

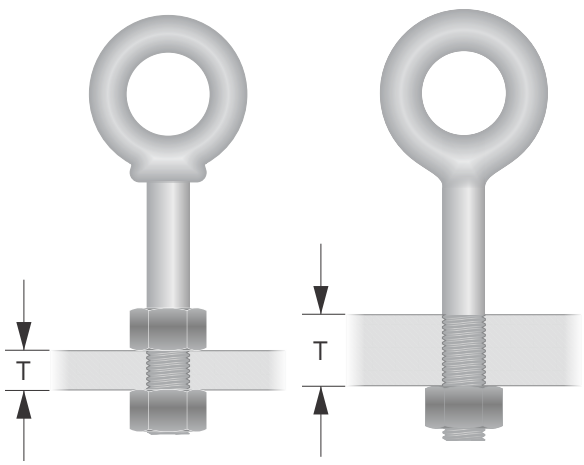
FORGED EYE BOLT WARNINGS AND INFORMATION

It is very important to read and understand all information shown before using eye bolts

CAPACITY ADJUSTMENT FOR ANGULAR LOADING

Lift Angle in-line pull	Maximum Load
45°	30% of the working load limit (WLL)
90°	25% of the working load limit (WLL)





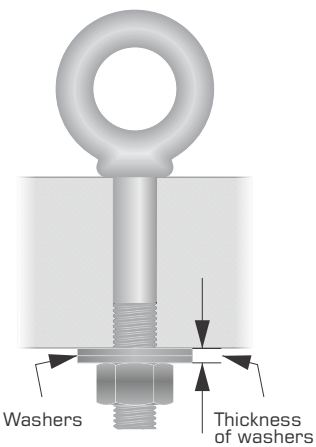
EYE BOLT INSTALLATION

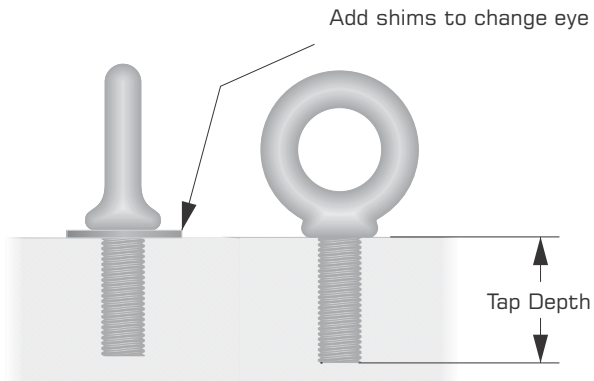
Use one nut if the thickness is more than one eye bolt diameter (*T*>). Use two nuts if the thickness is less than or equal to the eye bolt diameter (*T*≤) as shown.

Always tighten nut securely against the load.

INSTALLATION FOR ANGULAR LOADING

Use shoulder nut eye bolts for angular loading. If the eye bolt protrudes so far through the load that the nut cannot be tightened securely against the load, use properly sized washers/spacer to take up the excess space between the nut and the load (as shown). The thickness of the washers/spacer must exceed the distance between the bottom of the load and the last thread of the eye bolt.





INSTALLATION OF MACHINERY EYE BOLTS

These eye bolts are primarily intended to be installed in tapped holes. For installation, tap the load (tap depth) to a minimum depth of one-half the eye bolt size beyond the shank length of the machinery eye bolt.

If the plane of the machinery eye bolt is not aligned with the sling line, add shims (washers/spacers) of proper thickness to adjust the angle of the plane of the eye to match the sling line (as shown).

WARNING: NEVER EXCEED WORKING LOAD LIMIT!

Failure to follow instructions can result in serious property damage, injury or death!

For more information please see the eye bolt warning information found in the hardware section of this catalogue

BS SAE Shoulder Pattern Eyebolt

GRAY TOOLS

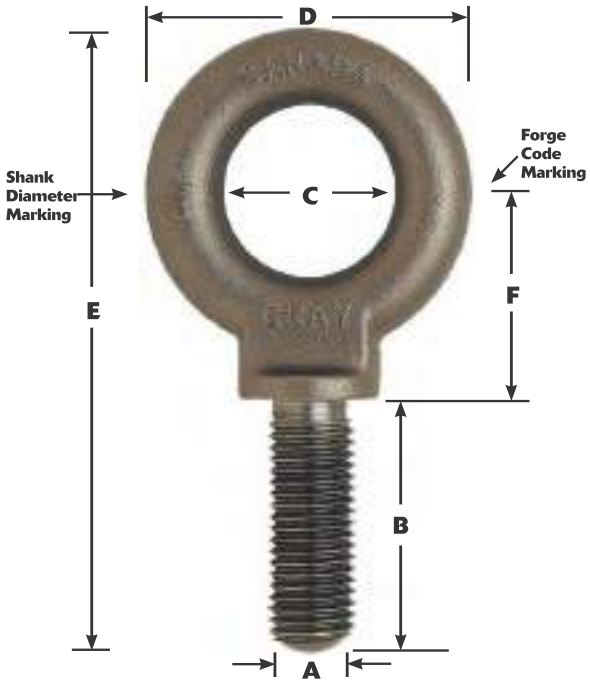
UNC

Fixed Eye Bolt for bolting

Product details

Highlights

Grade	C1030
Grain Size	5 or Finer
Tens. Strgth	65,000 psi min
Yield	50,000 psi min
Elongation	30% min
Reduc. Area	60% min
Temp Range:	-1°C - 135°C



Type	Item No.	Thread Size	Wght	B Shank Length	C I.D. Eye	D O.D. Eye	E Overall Length	F Center Of Eye To Shoulder	Rated Capacity
			lb/pc.	[inch]	[inch]	[inch]	[inch]	[inch]	(lbs)
Carbon Steel Eye Bolts inch									
0.33T - 1/4"	BS08	1/4-20	0.04	0.75	0.75	1.19	2.38	0.75	650
0.6T - 5/16'	BS10	5/16-18	0.09	0.88	0.88	1.44	2.81	1.00	1,200
'0.78T - 3/8"	BS12	3/8-16	0.17	1.00	1.00	1.69	3.28	1.13	1,550
1.0T - 7/16"	BS14	7/16-14	0.24	1.06	1.06	1.81	3.56	1.25	2,000
1.3T - 1/2"	BS16	1/2-13	0.38	1.19	1.19	2.13	3.97	1.38	2,600
1.6T - 9/16"	BS18	9/16-12	0.51	1.25	1.25	2.31	4.50	1.56	3,200
2.6T - 5/8"	BS20	5/8-11	0.71	1.38	1.38	2.56	4.75	1.66	5,200
3.6T - 3/4"	BS24	3/4-10	0.99	1.50	1.50	2.81	5.25	1.81	7,200
5.3T - 7/8"	BS28	7/8-9	1.48	1.69	1.69	3.19	5.97	2.13	10,600
6.65T - 1"	BS32	1-8	2.20	1.81	1.81	3.56	6.63	2.31	13,300
8.5T - 1 1/8"	BS36	1 1/8-7	3.20	2.00	2.00	4.06	7.53	2.69	17,000
10.5T - 1 1/4"	BS40	1 1/4-7	4.40	2.19	2.19	4.44	8.22	2.94	21,000
12T - 1 1/2"	BS48	1 1/2-6	7.40	2.50	2.50	5.19	9.47	3.31	24,000
16T - 1 3/4"	BS56	1 3/4-5	11.80	2.88	2.88	6.00	1.81	4.00	32,000
20T - 2"	BS64	2-4 1/2	17.20	3.38	3.38	6.88	1.88	4.38	40,000

WARNING: NEVER EXCEED WORKING LOAD LIMIT!
Failure to follow instructions can result in serious property damage, injury or death! For more information please see the eye bolt warning information found in the hardware section of this catalogue

BS Metric Shoulder Pattern Eyebolt

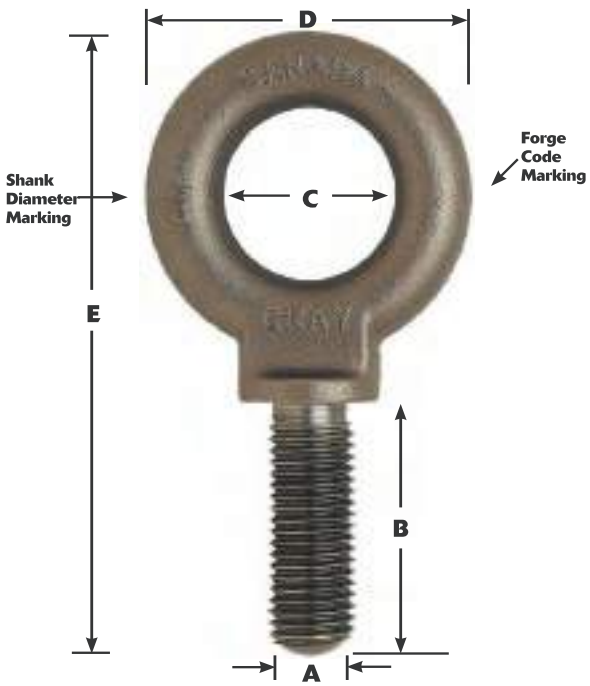
GRAY TOOLS

METRIC

Fixed Eye Bolt for bolting
Product details

Highlights

Grade	C1030
Grain Size	5 or Finer
Tens. Strgth	65,000 psi min
Yield	50,000 psi min
Elongation	30% min
Reduc. Area	60% min
Temp Range:	-1°C - 135°C



Type	Item No.	Thread Size	Wght	B Shank Length	C I.D. Eye	D O.D. Eye	E Overall Length	Rated Capacity
			kgs/pc.	[mm]	[mm]	[mm]	[mm]	(kgs)
Carbon Steel Eye Bolts metric								
0.21T - M6	BS6M	M6 x 1.0	0.06	25.40	19.00	30.00	60.30	210
0.37T - M7	BS7M	M7 x 1.0	0.10	28.50	22.00	36.50	71.40	370
0.5T - M8	BS8M	M8 x 1.25	0.17	31.70	25.00	43.00	82.50	500
0.74T - M10	BS10M	M10 x 1.5	0.24	35.00	27.00	46.00	90.50	740
1.03T - M12	BS12M	M12 x 1.75	0.36	38.00	30.00	54.00	100.80	1,030
1.6T - M14	BS14M	M14 x 2.0	0.48	44.50	35.00	65.00	120.70	1,600
1.6T - M16	BS16M	M16 x 2.0	0.69	44.50	35.00	65.00	120.70	1,600
3.14T - M18	BS18M	M18 x 2.5	1.10	51.00	38.00	71.50	133.30	3,140
2.86T - M20	BS20M	M20 x 2.5	1.51	57.00	41.00	81.00	152.40	2,860
3.85T - M24	BS24M	M24 x 3.0	2.36	63.50	44.00	90.40	168.30	3,850
5.2T - M27	BS27M	M27 x 3.0	3.41	70.00	51.00	103.00	191.30	5,200
6.4T - M30	BS30M	M30 x 3.5	4.68	76.00	55.00	112.70	208.80	6,400
8.97T - M36	BS36M	M36 x 4.0	7.77	89.00	63.00	131.80	240.50	8,970
11.96T - M42	BS42M	M42 x 4.5	11.10	95.00	73.00	152.40	274.70	11,960
12.72T - M45	BS45M	M45 x 4.5	11.35	95.00	73.00	152.40	274.70	12,720
16.4T - M48	BS48M	M48 x 5.0	15.90	101.60	82.00	174.60	301.60	16,400
16.3T - M52	BS52M	M52 x 5.0	16.70	101.60	82.00	174.60	301.60	16,300

WARNING: NEVER EXCEED WORKING LOAD LIMIT!
Failure to follow instructions can result in serious property damage, injury or death! For more information please see the eye bolt warning information found in the hardware section of this catalogue

BS SAE Shoulder Pattern Alloy Eyebolt

GRAY TOOLS

UNC

Fixed Alloy Eye Bolt for bolting

Product details

ALLOY -40°C

Highlights

Grade	8260
Grain Size	5 or Finer
Tens. Strgth	95,000 psi min
Yield	70,000-100,000 psi min
Elongation	22% min
Reduc. Area	55% min
Temp Range:	-40°C - 135°C

Rated capacity is for 0° vertical pulls. Never apply loads greater than Rated Capacity to any eyebolt. Stamped with the letter "A" to identify them as low temperature specific.
Proof tested in accordance with ASTM F 541 and Federal Spec. ANSI B18.15. Traceability and Mechanical test values are available with each shipment upon request.

Type	Item No.	Thread Size	Wght	B Shank Length	C I.D. Eye	D O.D. Eye	E Overall Length	F Center Of Eye To Shoulder	Rated Capacity
			lb/pc.	[inch]	[inch]	[inch]	[inch]	[inch]	(lbs)
Alloy Steel Eye Bolts inch									
0.74T - 3/8"	AS12	3/8-16	0.18	1.25	1.00	1.66	3.28	1.13	1,480
1.35T - 1/2"	AS16	1/2-13	0.35	1.50	1.19	2.06	4.00	1.38	2,700
2.15T - 5/8"	AS20	5/8-11	0.70	1.75	1.38	2.50	4.75	1.66	4,300
3.2T - 3/4"	AS24	3/4-10	1.10	2.00	1.50	2.81	5.28	1.82	6,400
4.4T - 7/8"	AS28	7/8-9	1.70	2.25	1.69	3.25	5.97	2.13	8,800
5.8T - 1"	AS32	1-8	2.36	2.50	1.81	3.56	6.66	2.32	11,600
9.2T - 1 1/4"	AS40	1 1/4-7	4.68	3.00	2.19	4.44	8.22	2.94	18,400
13.3T - 1 1/2"	AS48	1 1/2-6	7.77	3.50	2.50	5.19	9.47	3.32	26,600
23.8T - 2"	AS64	2-4 1/2	16.70	4.00	3.25	6.88	11.88	4.38	47,600

WARNING: NEVER EXCEED WORKING LOAD LIMIT!
Failure to follow instructions can result in serious property damage, injury or death! For more information please see the eye bolt warning information found in the hardware section of this catalogue

SAE Shoulder Nut Eyebolt

VGD

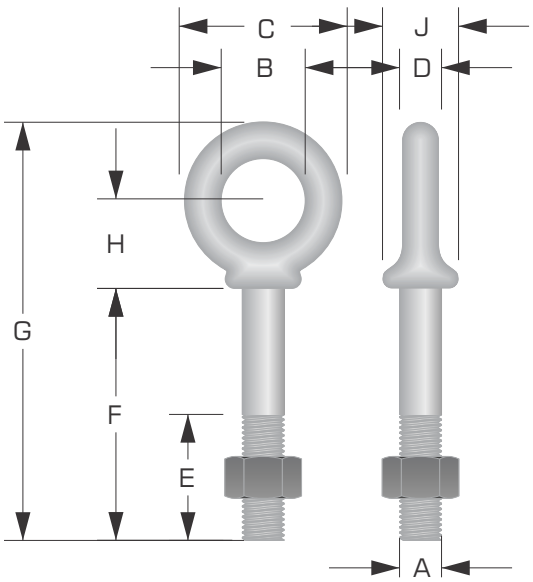
UNC

Shoulder Nut Eye Bolts
Product details

Highlights

- Permanently embossed with VGD© and size for traceability to meet ASME B30.26
- Forged carbon steel
- Quenched and tempered
- Hot dipped galvanized with heavy hex nut
- UNC Threads
- Design factor proof load 2:1 WLL, ultimate load 5:1 WLL

Rated capacity is for 0° vertical pulls. Never apply loads greater than Rated Capacity to any eyebolt.



WARNING: NEVER EXCEED WORKING LOAD LIMIT!
Failure to follow instructions can result in serious property damage, injury or death! For more information please see the eye bolt warning information found in the hardware section of this catalogue

Item Code	Shank Dia & Length	WLL	Dimensions (in)									Weight ea.
	(in)	(lbs)	A	B	C	D	E	F	G	H	J	(lbs)
75-1045014	1/4 x 2	650	0.25	0.50	0.88	0.19	1.50	2.00	2.94	0.50	0.47	6.5
75-1045032	1/4 x 4	650	0.25	0.50	0.88	0.19	2.50	4.00	4.94	0.50	0.47	6.5
75-1045050	5/16 x 2-1/4	1,200	0.31	0.62	1.12	0.25	1.50	2.25	3.50	0.69	0.56	12.0
75-1045078	5/16 x 4-1/4	1,200	0.31	0.62	1.12	0.25	2.50	4.25	5.50	0.69	0.56	12.0
75-1045096	3/8 x 2-1/2	1,550	0.38	0.75	1.38	0.31	1.50	2.50	3.97	0.78	0.66	15.5
75-1045112	3/8 x 4-1/2	1,550	0.38	0.75	1.38	0.31	2.50	4.50	5.97	0.78	0.66	15.5
75-1045130	1/2 x 3-1/4	2,600	0.50	1.00	1.75	0.38	1.50	3.25	5.12	1.00	0.91	26.0
75-1045158	1/2 x 6	2,600	0.50	1.00	1.75	0.38	3.00	6.00	7.88	1.00	0.91	26.0
75-1045176	5/8 x 4	5,200	0.62	1.25	2.25	0.50	2.00	4.00	6.44	1.31	1.12	52.1
75-1045194	5/8 x 6	5,200	0.62	1.25	2.25	0.50	3.00	6.00	8.44	1.31	1.12	52.1
75-1045210	3/4 x 4-1/2	7,200	0.75	1.50	2.75	0.62	2.00	4.50	7.44	1.56	1.38	72.1
75-1045238	3/4 x 6	7,200	0.75	1.50	2.75	0.62	3.00	6.00	8.94	1.56	1.38	72.1
75-1045256	7/8 x 5	10,600	0.88	1.75	3.25	0.75	2.50	5.00	8.46	1.84	1.56	106.1
75-1045292	1 x 6	13,300	1.00	2.00	3.75	0.88	3.00	6.00	9.97	2.09	1.81	133.1
75-1045318	1 x 9	13,300	1.00	2.00	3.75	0.88	4.00	9.00	12.97	2.09	1.81	133.1
75-1045336	1-1/4 x 8	21,000	1.25	2.50	4.50	1.00	4.00	8.00	12.72	2.47	2.28	210.2
75-1045354	1-1/4 x 12	21,000	1.25	2.50	4.50	1.00	4.00	12.00	16.72	2.47	2.28	210.2
75-1045372	1-1/2 x 15	24,000	1.50	3.00	5.50	1.25	6.00	15.00	20.75	3.00	2.75	240.2

SAE Regular Nut Eyebolt

Regular Nut Eye Bolts

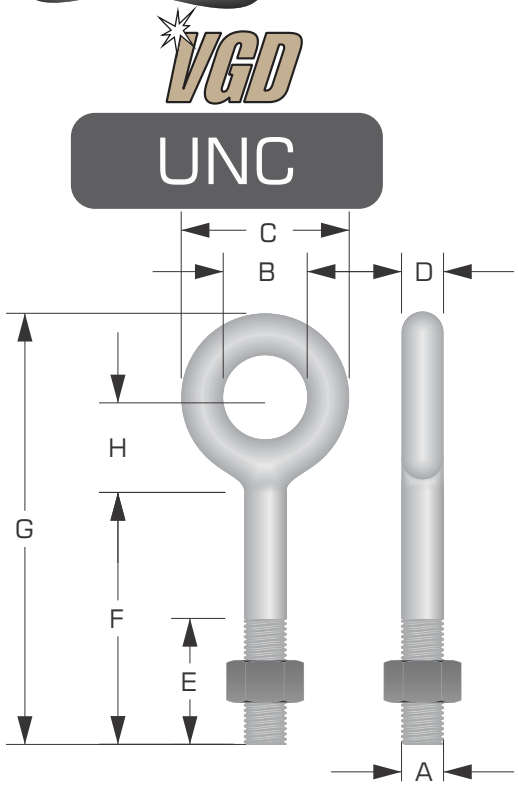
Product details

Highlights

- Permanently embossed with VGD© and size for traceability to meet ASME B30.26
- Forged carbon steel
- Quenched and tempered
- Hot dipped galvanized with heavy hex nut
- UNC Threads
- Design factor proof load 2:1 WLL, ultimate load 5:1 WLL

Rated capacity is for 0° vertical pulls. Never apply loads greater than Rated Capacity to any eyebolt.

DO NOT SIDE LOAD REGULAR NUT EYE BOLTS



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Item Code	Shank Dia & Length	WLL	Dimensions (in)								Weight ea.
	(in)	(lbs)	A	B	C	D	E	F	G	H	(lbs)
75-1043230	1/4 x 2	8.20	0.25	0.50	1.00	0.25	1.50	2.00	3.06	0.56	6.5
75-1043258	1/4 x 4	11.70	0.25	0.50	1.00	0.25	2.50	4.00	5.06	0.56	6.5
75-1043276	5/16 x 2-1/4	13.30	0.31	0.62	1.25	0.31	1.50	2.25	3.56	0.69	12.0
75-1043294	5/16 x 4-1/4	25.00	0.31	0.62	1.25	0.31	2.50	4.25	5.56	0.69	12.0
75-1043310	3/8 x 2-1/2	23.30	0.38	0.75	1.50	0.38	1.50	2.50	4.12	0.88	15.5
75-1043338	3/8 x 4-1/2	29.50	0.38	0.75	1.50	0.38	2.50	4.50	6.12	0.88	15.5
75-1043356	3/8 x 6	35.20	0.38	0.75	1.50	0.38	2.50	6.00	7.62	0.88	15.5
75-1043374	1/2 x 3-1/4	50.30	0.50	1.00	2.00	0.50	1.50	3.25	5.38	1.12	26.0
75-1043392	1/2 x 6	66.10	0.50	1.00	2.00	0.50	3.00	6.00	8.12	1.12	26.0
75-1043418	1/2 x 8	82.00	0.50	1.00	2.00	0.50	3.00	8.00	10.12	1.12	26.0
75-1043436	1/2 x 10	88.00	0.50	1.00	2.00	0.50	3.00	10.00	12.12	1.12	26.0
75-1043454	1/2 x 12	114.20	0.50	1.00	2.00	0.50	3.00	12.00	14.12	1.12	26.0
75-1043472	5/8 x 4	103.10	0.62	1.25	2.50	0.62	2.00	4.00	6.69	1.44	52.1
75-1043490	5/8 x 6	118.20	0.62	1.25	2.50	0.62	3.00	6.00	8.69	1.44	52.1
75-1043515	5/8 x 8	135.10	0.62	1.25	2.50	0.62	3.00	8.00	10.69	1.44	52.1
75-1043533	5/8 x 10	153.6	0.62	1.25	2.50	0.62	3.00	10.00	12.69	1.44	52.1
75-1043551	5/8 x 12	167.1	0.62	1.25	2.50	0.62	4.00	12.00	14.69	1.44	52.1
75-1043579	3/4 x 4-1/2	168.6	0.75	1.50	3.00	0.75	2.00	4.50	7.69	1.69	72.1
75-1043597	3/4 x 6	184.5	0.75	1.50	3.00	0.75	3.00	6.00	9.19	1.69	72.1
75-1043613	3/4 x 8	207.9	0.75	1.50	3.00	0.75	3.00	8.00	11.19	1.69	72.1
75-1043631	3/4 x 10	235.0	0.75	1.50	3.00	0.75	3.00	10.00	13.19	1.69	72.1
75-1043659	3/4 x 12	257.5	0.75	1.50	3.00	0.75	4.00	12.00	15.19	1.69	72.1
75-1043677	3/4 x 15	298.0	0.75	1.50	3.00	0.75	5.00	15.00	18.19	1.69	72.1
75-1043695	7/8 x 5	270.0	0.88	1.75	3.50	0.88	2.50	5.00	8.75	2.00	106.1
75-1043711	7/8 x 8	308.0	0.88	1.75	3.50	0.88	4.00	8.00	11.75	2.00	106.1
75-1043739	7/8 x 12	400.0	0.88	1.75	3.50	0.88	4.00	12.00	15.75	2.00	106.1
75-1043757	1 x 6	421.0	1.00	2.00	4.00	1.00	3.00	6.00	10.31	2.31	133.1
75-1043775	1 x 9	468.5	1.00	2.00	4.00	1.00	4.00	9.00	13.31	2.31	133.1
75-1043793	1 x 12	540.0	1.00	2.00	4.00	1.00	4.00	12.00	16.31	2.31	133.1
75-1043819	1 x 18	650.0	1.00	2.00	4.00	1.00	7.00	18.00	22.31	2.31	133.1
75-1043837	1-1/4 x 8	750.0	1.25	2.50	5.00	1.25	4.00	8.00	13.38	2.88	210.2
75-1043855	1-1/4 x 12	900.0	1.25	2.50	5.00	1.25	4.00	12.00	17.38	2.88	210.2
75-1043873	1-1/4 x 20	1,210.0	1.25	2.50	5.00	1.25	6.00	20.00	25.38	2.88	210.2

Forged Eye Nuts

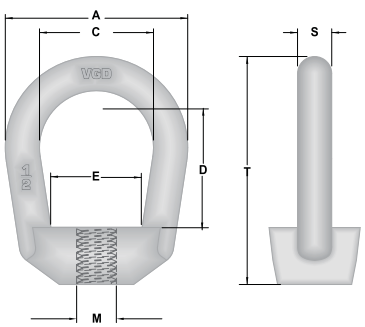
Forged Eye Nuts for lifting
Product details

VGD
UNC

Highlights

- Permanently embossed with trace code, VGD© and size for traceability to meet ASME B30.26
- Forged carbon steel
- Quenched and tempered
- Hot dipped galvanized
- UNC Threads
- Design factor proof load 2:1 WLL, ultimate load 5:1 WLL

Rated capacity is for 0º vertical pulls.
Never apply loads greater than
Rated Capacity to any eye nut.
DO NOT SIDE LOAD
REGULAR EYE NUTS



Item No.	Size#	Nominal	Tap Size	Dimensions (in)							WLL 5:1	Net Weight
		(in)	(in)	A	C	D	E	S	T	M	(lbs)	(lbs)
75-1090438	2	5/16	3/8	1.60	0.97	1.21	0.75	0.33	2.07	0.31	1,250	0.18
75-1090474	3	3/8	1/2	2.01	1.23	1.48	0.98	0.39	2.51	0.43	2,250	0.28
75-1090517	4	1/2	5/8	2.52	1.49	1.95	1.19	0.52	3.24	0.54	3,600	0.58
75-1090535	5	5/8	3/4	3.00	1.73	2.43	1.33	0.65	3.88	0.67	5,200	1.00
75-1090553	6	3/4	7/8	3.51	1.99	2.64	1.59	0.78	4.33	0.77	7,200	1.70
75-1090571	7	7/8	1	3.89	2.23	3.02	1.80	0.83	4.95	0.89	10,000	2.75
75-1090599	8	1	1-1/4	4.51	2.48	3.50	1.93	1.02	5.76	1.10	15,500	3.90
75-1090633	10	1-1/4	1-1/2	5.62	3.10	4.03	2.37	1.25	6.74	1.36	22,500	6.70
75-1090704	11	1-1/2	2	7.18	3.99	6.13	3.96	1.59	10.25	1.79	40,000	18.70

***Order by tap size, marking on the eye nut are for the body stock size**

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Forged Eye - Eye Swivels

VGD

UNC

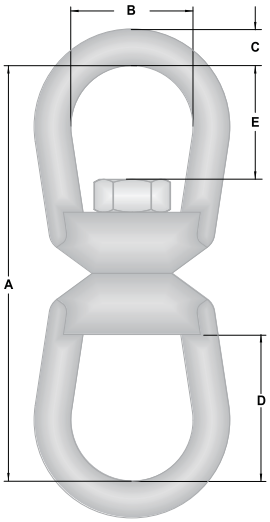
Eye-Eye Swivels for lifting

Product details

Highlights

- Manufactured to U.S. Fed. Spec. RR-C-271D Type VII, Class 2
- Forged steel - quenched and tempered
- Hot dip galvanized
- Swivel size permanently embossed
- Proof Load: 2 Times the Working Load Limit (WLL)
- Ultimate Load: 5 Times the Working Load Limit (WLL)

Rated capacity is for 0° vertical pulls.
Never apply loads greater than Rated Capacity to any eyebolt.
DO NOT SIDE LOAD
EYE-EYE SWIVELS



Item No.	Size#	Dimensions (in)					WLL
	A	B	C	D	E	(lbs)	
75-1016019	1/4	2.94	0.75	0.25	1.00	0.69	850
75-1016037	5/16	3.56	1.00	0.32	1.25	0.81	1,250
75-1016055	3/8	4.31	1.25	0.38	1.50	0.94	2,250
75-1016073	1/2	5.44	1.50	0.50	2.00	1.31	3,600
75-1016091	5/8	6.56	1.75	0.63	2.38	1.56	5,200
75-1016117	3/4	7.19	2.00	0.75	2.63	1.75	7,200
75-1016135	7/8	8.38	2.25	0.96	3.06	2.06	10,000
75-1016153	1	9.63	2.50	1.00	3.50	2.31	12,500
75-1016199	1-1/4	11.44	3.13	1.25	3.69	2.69	18,000
75-1016215	1-1/2	17.13	4.00	1.50	4.19	3.88	45,200

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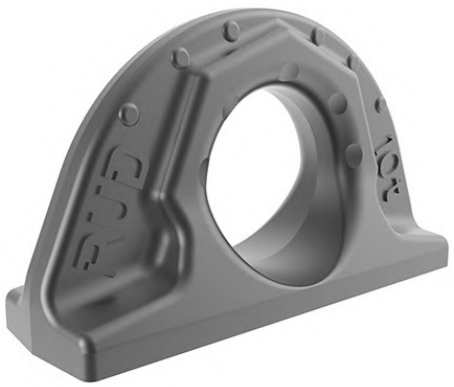
LIFTING POINTS – READY FOR WELDING.



OVERVIEW – LIFTING POINTS FOR WELDING.

	Ideal for rotating and turning	Ball bearing mounted	Double ball bearing mounted	Safety factor 4:1	Safety factor lbs 5:1	Able to bear load on all sides	Retaining spring	Turning range 360°	Pivoting area/hook-in link	Operating temperature range **without** reduction in working load limit -XX° XXX°C	Max. operation temperature **with** reduction in working load limit XXX°C max.	Equipped with ICE-BOLT	RUD BLUE-ID SYSTEM BLUE-ID	DGUV-approved DGUV TEST	Certified according to DNVGL guideline DNVGL TEST	Safety standard for lifting equipment ASME B30.26
VLBS / VLBS-U 1.5 t – 16 t				■		■	■		■	■	■			■	■	
VRBS 4 t – 50 t				■		■			■	■	■					
VRBS-FIX 4 t – 100 t				■		■	■		■	■	■			■		
VRBK-FIX 4 t – 50 t				■		■	■		■	■	■			■		
ABA 0.8 t – 31.5 t				■		■				■	■			■	■	
VABH-W / VCGH-S 1.5 t – 20 t				■						■	■					
WPP(H)-S / -B / -VIP 0.63 t – 50 t	■	■		■		■		■	■	■	■					

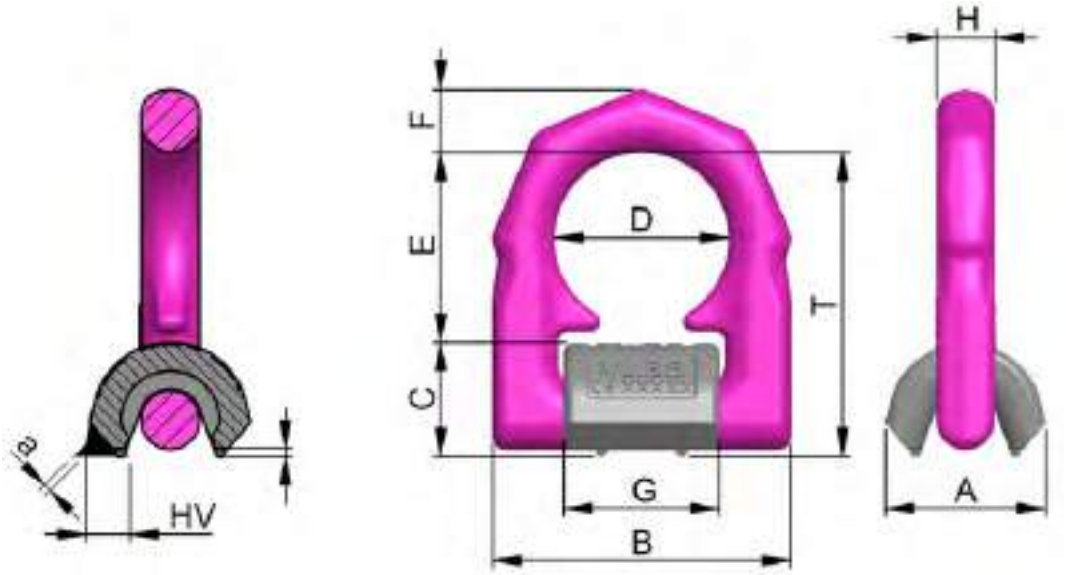
VLBS

Lifting points – ready for welding

Product details

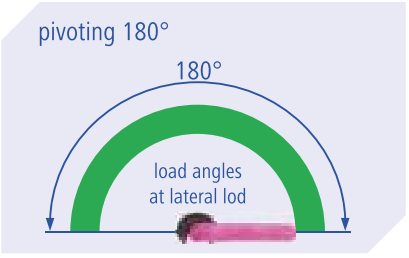
Highlights

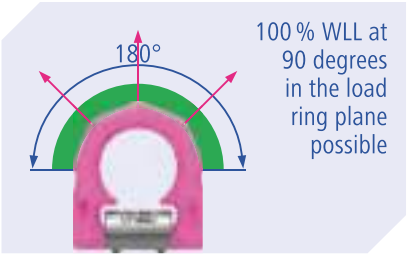
Suspension ring pivots 180°
Suspension ring & weld-on-block of the VLBS-U are undetachable
Suspension ring can be angled into position (VLBS-U)



CAD RFID

Type	Item No.	WLL	Weld Seam	Weight	T	A	B	C	D	E	F	G	H
		[t]	[t]	[kg/pc.]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
VLBS-U – VIP Load ring for welding undetachable (with clamping spring)													
VLBS-U 1.5t	7993035	1.5	HV5+a3	0.35	65	33	66	25	38	40	14	33	14
VLBS-U 2.5t	7994830	2.5	HV7+a3	0.47	75	36	77	27	45	48	16	40	14
VLBS-U 4t	7993036	4	HV8+a3	0.76	83	42	87	31	51	52	18	46	16
VLBS-U 6.7t	7993037	6.7	HV12+a4	1.9	117	61	115	44	67	73	24	60	22
VLBS-U 10t	7993040	10	HV16+a4	2.9	126	75	129	55	67	71	26.5	60	26
VLBS-U 16t	7906640	16	HV25+a6	6.8	174	96	190	69	100	105	40	90	26
VLBS-U-LT – VIP Load ring for welding for low temeprature													
VLBS-U-LT 2.5t	7903522	2.5	HV7+a3	0.47	75	36	77	27	45	48	16	40	14
VLBS-U-LT 4t	7903400	4	HV8+a3	0.76	83	42	87	31	51	52	18	46	16
VLBS-U-LT 6.7t	7903684	6.7	HV12+a4	1.9	117	61	115	44	67	73	24	60	22
VLBS-U-LT 10t	7903135	10	HV16+a4	2.9	126	75	129	55	67	71	26.5	60	26





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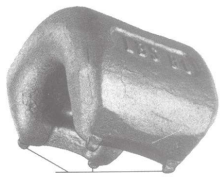
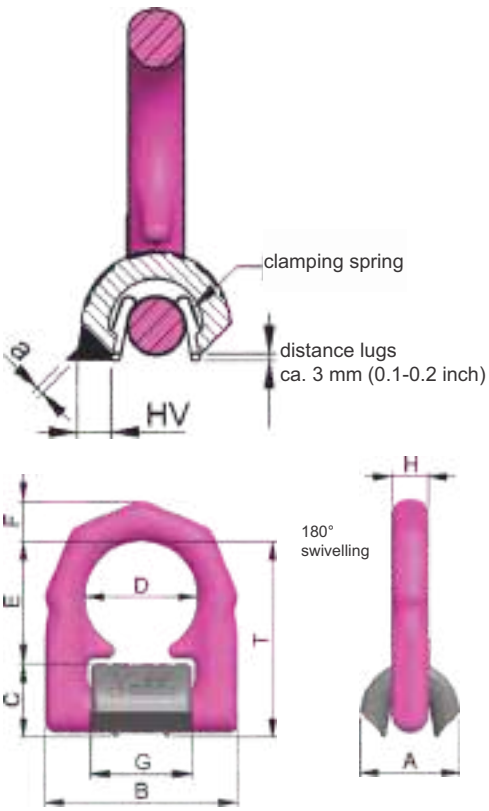
	weld		
	size	length	volume
VLBS 1.5 t	HV 5 + a 3 ◺	2 x 33 mm	approx. 1.2 cm³
VLBS 2.5 t	HV 7 + a 3 ◺	2 x 40 mm	approx. 2.6 cm³
VLBS 4 t	HV 8 + a 3 ◺	2 x 46 mm	approx. 3.2 cm³
VLBS 6.7 t	HV 12 + a 4 ◺	2 x 60 mm	approx. 8.7 cm³
VLBS 10 t	HV 16 + a 4 ◺	2 x 60 mm	approx. 15.5 cm³
VLBS 16 t	HV 25 + a 6 ◺	2 x 90 mm	approx. 56 cm³

chart 2



distance lugs for root welding

Welding seam definition:



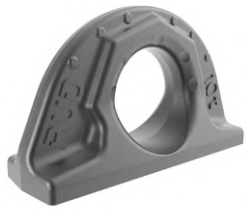
Welding procedure + Welding filler metals:	Europe, USA, Asia, Australia, Africa
	Baustähle, niedrig legierte Stähle EN 10025 Mild steels, low alloyed steel
MIG / MAG (135) **Gas shilded wire welding (135)**	DIN EN ISO 14341: G4Si1 (G3Si1) z.B. PEGO G4Si1
E-Hand Gleichstrom (111, =) **Stick Electrode direct current**	DIN EN ISO 2560-A: E 42 6 B 3 2 H10 DIN EN ISO 2560-A: E 38 2 B 1 2 H10 z.B. PEGO B Spezial*/ PEGO BR Spezial*
E-Hand (Wechselstrom 111, ~) **Stick Electrode alternating current**	DIN EN ISO 2560-A: E 38 2 RB 1 2 DIN EN ISO 2560-A: E 42 0 RC 1 1 z.B. PEGO RC 3 / PEGO RR B 7 Alternativ: DIN EN ISO 3581: E 23 12 2 L R 3 2 z.B. PEGO 309 MoL
WIG (141) **TIG Tungsten arc welding**	DIN EN ISO 636-A: W 3 Si 1 (W2 Si 1) DIN EN ISO 636-A: W 2 Ni 2 z.B. PEGO WSG 2 / PEGO WSG2Ni2

chart 3 ** Stick dry weld*

The specific processing informations of the welding fillers have to be attended.

Method of lift	G	G β	G A	G A β	G β		G	G β		G
Number of legs	1	1	2	2	2	2	2	3 / 4	3 / 4	3 / 4
Angle of inclination <ß	0°	90°	0 °	90°	0-45°	>45-60°	Un-symm.	0-45°	>45-60°	Un-symm.
Factor	1	1	2	2	1.4	1	1	2.1	1.5	1
Type	**max. weight of load**									
VLBS 1.5 t	**1.5 t** 3300 lbs	**1.5 t** 3300 lbs	**3 t** 6600 lbs	**3 t** 6600 lbs	**2.12 t** 4620 lbs	**1.5 t** 3300 lbs	**1.5 t** 3300 lbs	**3.15 t** 6930 lbs	**2.24 t** 4950 lbs	**1.5 t** 3300 lbs
VLBS 2.5 t	**2.5 t** 5500 lbs	**2.5 t** 5500 lbs	**5 t** 11000 lbs	**5 t** 11000 lbs	**3.5 t** 7700 lbs	**2.5 t** 5500 lbs	**2.5 t** 5500 lbs	**5.25 t** 11550 lbs	**3.75 t** 8250 lbs	**2.5 t** 5500 lbs
VLBS 4 t	**4 t** 8800 lbs	**4 t** 8800 lbs	**8 t** 17600 lbs	**8 t** 17600 lbs	**5.6 t** 12320 lbs	**4 t** 8800 lbs	**4 t** 8800 lbs	**8.4 t** 18500 lbs	**6 t** 13200 lbs	**4 t** 8800 lbs
VLBS 6.7 t	**6.7 t** 14750 lbs	**6.7 t** 14750 lbs	**13.4 t** 29500 lbs	**13.4 t** 29500 lbs	**9.4 t** 20650 lbs	**6.7 t** 14750 lbs	**6.7 t** 14750 lbs	**14.1 t** 30980 lbs	**10 t** 22100 lbs	**6.7 t** 14750 lbs
VLBS 10 t	**10 t** 22000 lbs	**10 t** 22000 lbs	**20 t** 44000 lbs	**20 t** 44000 lbs	**14.0 t** 30800 lbs	**10 t** 22000 lbs	**10 t** 22000 lbs	**21.2 t** 46200 lbs	**15 t** 33000 lbs	**10 t** 22000 lbs
VLBS 16 t	**16 t** 35200 lbs	**16 t** 35200 lbs	**32 t** 70400 lbs	**32 t** 70400 lbs	**22.4 t** 49300 lbs	**16 t** 35200 lbs	**16 t** 35200 lbs	**33.6 t** 73920 lbs	**24 t** 52800 lbs	**16 t** 35200 lbs

ABA Lifting point for welding

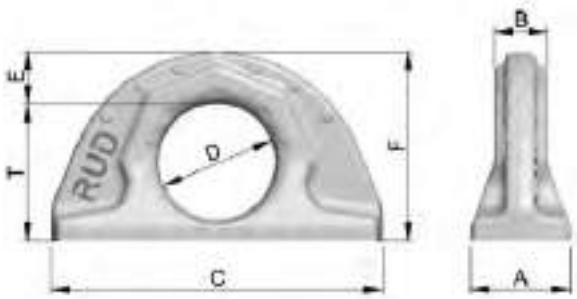


Weld-On Lifting Point

Product details

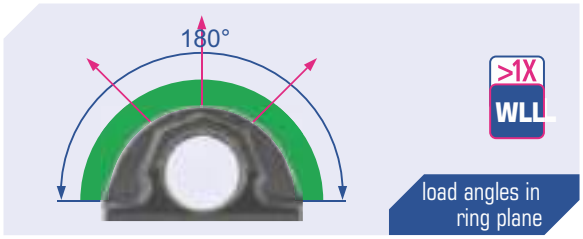
Highlights

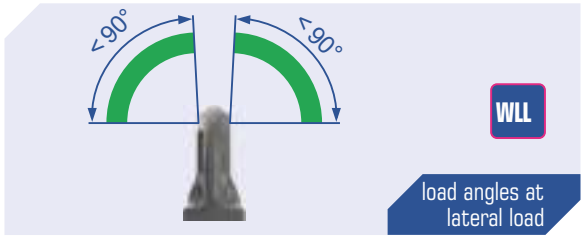
4:1 safety against breaking
Patented markings for easy determination for withdraw of service
Tempered base body, therefore wear-resistant



CAD RFID

Type	Item No.	WLL-X	Wght	T	A	B	C	D	E	F	Weld Seam
		[t]	kg/pc.	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
ABA Lifting Point - For Welding											
ABA 0.8t	7907698	0.8	0.2	32	22	12	70	32	12	50	a3
ABA 1.6t	7900352	1.6(4)	0.45	42	30	16	100	35	16	57	a4
ABA 3.2t	7900353	3.2(9)	1.15	59	41	23	137	50	21	80	a6
ABA 5t	7900354	5(12)	2.26	72	51	27	172	60	28	99	a7
ABA 10t	7900355	10(20)	5.37	95	70	38	228	80	35	130	a8
ABA 20t	7902174	20	10.72	135	90	52	272	115	40	175	a12
ABA 31.5t	7902175	31.5	18.33	154	108	64	320	130	50	204	a15





WARNING: NEVER EXCEED WORKING LOAD LIMIT!
Failure to follow instructions can result in serious property damage, injury or death! For more information please see the warning information found in the hardware section of this catalogue

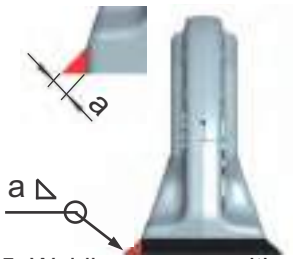
	Europe, USA, Asia, Australia, Africa
	Mild steels, low alloyed steel EN 10025-2
MIG / MAG (135) **Gas shilded wire welding**	DIN EN ISO 14341: G4Si1 (G3Si1) e.g. PEGO G4Si1
E-Hand Gleichstrom (111, =) **Stick Electrode direct current**	DIN EN ISO 2560-A: E 42 6 B 3 2 H10 DIN EN ISO 2560-A: E 38 2 B 1 2 H10 e.g. PEGO B Spezial*/PEGO BR Spezial*
E-Hand Wechselstrom (111, ~) **Stick Electrode alternating current**	DIN EN ISO 2560-A: E 38 2 RB 1 2 DIN EN ISO 2560-A: E 42 0 RC 1 1 e.g. PEGO RC 3 / PEGO RR B 7 Alternative: DIN EN ISO 3581: E 23 12 2 L R 3 2 e.g. PEGO 309 MoL
WIG (141) (TIG (141)) **Tungsten arc welding**	DIN EN ISO 636-A: W 3 Si 1 (W2 Si 1) DIN EN ISO 636-A: W 2 Ni 2 e.g. PEGO WSG 2 / PEGO WSG2Ni2

Table 3: Welding procedure and Welding filler metals

HINT

Please note the correspon ding user hint in regard of the welding filler materials and the drying requirements.*

*For welding the ABA 20 t & ABA 31.5 t the **preheat tem - perature** has to be between 150° and 170° C.*

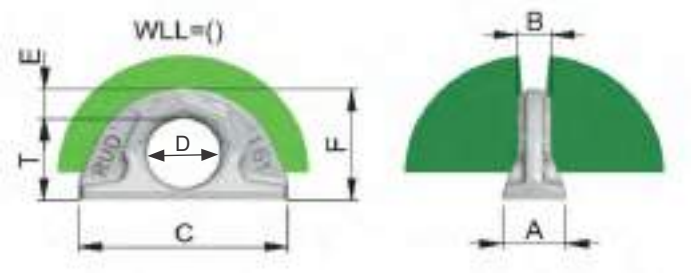


Picture 5: Welding seam position

Type	size fillet weld	length	volume
ABA 0.8 t	a = 3	177 mm	1.593 cm³
ABA 1.6 t	a = 4	251 mm	4.016 cm³
ABA 3.2 t	a = 6	344 mm	12.38 cm³
ABA 5 t	a = 7	431 mm	21.1 cm³
ABA 10 t	a = 8	576 mm	36.86 cm³
ABA 20 t	a = 12	697 mm	100.3 cm³
ABA 31.5 t	a = 15	824 mm	185.4 cm³

Table 4: Weld seam

Nominal WLL



Picture 6: Dimensioning

Type	WLL [t]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	T [mm]	weight [kg/pc]	ref-no.
ABA 0.8 t	0.8	22	12	70	32	12	50	38	0.20	7907698
ABA 1.6 t	1.6	30	16	100	35	16	57	41.5	0.44	7900352
ABA 3.2 t	3.2	41	23	137	50	21	80	59	1.1	7900353
ABA 5 t	5	51	27	172	60	27.5	99	71.5	2.3	7900354
ABA 10 t	10	70	38	228	80	35	130	95	5.3	7900355
ABA 20 t	20	90	52	272	115	40	175	135	10.7	7902174
ABA 31.5 t	31.5	108	64	320	130	50	204	154	18.3	7902175

Table 5: Dimensioning

Subject to technical alterations

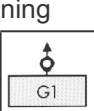
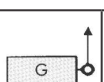
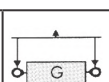
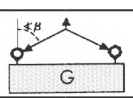
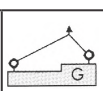
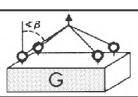
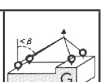
Method of lift										
Number of legs	1	1	2	2	2	2	2	3 / 4	3 / 4	3 / 4
Angle of inclination	0°	90°	0 °	90°	0-45°	>45-60°	Un-symm.	0-45°	>45-60°	Un-symm.
Factor	1	1	2	2	1.4	1	1	2.1	1.5	1
Type	For the max. total load weight >G< in metric tons									
ABA 0.8 t	0.8 (2)	0.8 (2)	1.6 (4)	1.6 (4)	1.12 (2.8)	0.8 (2)	0.8 (2)	1.6 (4.25)	1.18 (3)	0.8 (2)
ABA 1.6 t	1.6 (4)	1.6 (4)	3.2 (8)	3.2 (8)	2.2 (5.6)	1.6 (4)	1.6 (4)	3.4 (8.4)	2.4 (6)	1.6 (4)
ABA 3.2 t	3.2 (9)	3.2 (9)	6.4 (18)	6.4 (18)	4.5 (12.6)	3.2 (9)	3.2 (9)	6.7 (18.9)	4.8 (13.5)	3.2 (9)
ABA 5 t	5 (12)	5 (12)	10 (24)	10 (24)	7 (16.8)	5 (12)	5 (12)	10.5 (25.2)	7.5 (18)	5 (12)
ABA 10 t	10 (20)	10 (20)	20 (40)	20 (40)	14 (28)	10 (20)	10 (20)	21.2 (42)	15 (30)	10 (20)
ABA 20 t	20	20	40	40	28	20	20	42	30	20
ABA 31.5 t	31.5	31.5	63	63	45	31.5	31.5	67	47.5	31.5

Table 2: WLL overview ( ) = WLL X planar to the ring WLL Y = Nominal Working Load

Other Available Models from RUD

PP- PowerPoint®

Highlights

Rotating 360°, pivoting 230°
Universal hook, ring or chain connection
Double ball bearing for turning/rotating operations

VRBS-FIX / VRBS 90 / VRBK

Highlights

No complex leveling of the components to each other
No crevice corrosion: endless HY weld seam
Clamping spring holds all parts together

VABH-W / VCGH-S

Highlights

As weldable lifting point on cross bars and beams
For wire rope slings and round slings
For lifting means with loop or oval suspension ring

For more information please visit www.rud.com

Yoke® 8-057 Weld-on Lifting Point

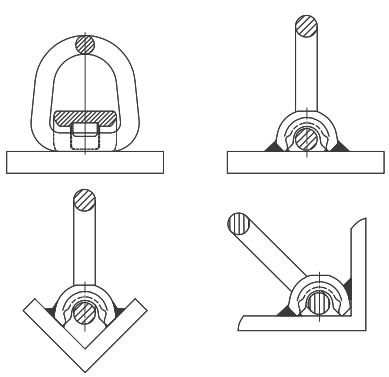
YOKE
Safety is our first priority™

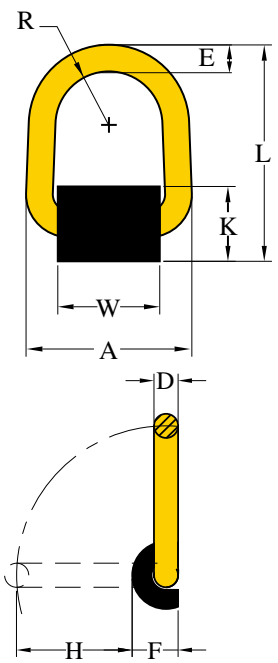
Weld-on Lifting Point

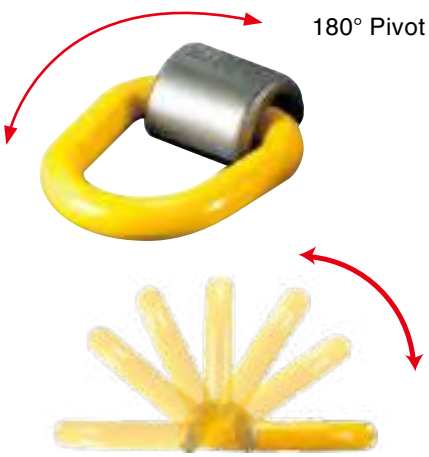
Product details

Highlights

- Pivots through 180°.
- Manufactured from forged alloy steel, quenched and tempered.
- Manufactured and tested in accordance with EN1677-1.
- Load rated parts are 100% magnaflux crack detected.
- Individual forged parts are traceable to Test Certification.
- Proof tested to 2.5 times the WLL.
- Fatigue rated to 1.5 times the WLL.
- All YOKE Lifting points meet or exceed all the requirements of ASME B30.26.
- WLL forged onto each product for quick and easy identification.
- Lugs designed to assist the welding process.
- A protected spring keeps the load ring in a required position. The parts are connected in such a way that they remain captive. The spring also reduces noise caused by vibrations







Stop at Any Angle

8-057 Weld-On Ring "DAA"

Item No.	WLL	Dimensions (mm)												Net Weight
	lbs*	A	B	C	D	E	F	G	H	L	W	HV	a	lb
8-057-1T	2,200	3.27	1.46	1.89	0.55	0.55	2.95	1.02	1.93	4.13	1.89	0.2	0.12	1.1
8-057-3T	6,600	3.86	1.89	2.28	0.67	0.67	3.35	1.22	2.13	4.41	2.13	0.24	0.12	2
8-057-5T	11,000	4.72	2.2	2.6	0.87	0.87	3.62	1.46	2.17	6.06	2.2	0.25	0.12	2.9
8-057-8T	17,600	4.76	2.68	2.68	1.02	1.02	4.8	1.85	2.95	6.65	2.17	0.39	0.16	5.7
8-057-10T	22,000	5.75	2.68	3.23	0.79	1.18	4.92	1.85	3.07	7.52	2.76	0.39	0.16	6.2

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WELDING INSTRUCTIONS

The welding should only be carried out by qualified welder according to Standards, e.g. EN 287 or AWS.

Support material

Material of the welding block is S355J2+N (1.0577+N, St 52-3N, B.S. 4360.50D, AISI 1019 etc.).
Prior to welding, the contact areas must be free from impurities, oil, paint, rust, scale, etc., for example by grinding. If the surface is at all corroded, all rust must be completely removed from the weld area. Painted surface must be prepared in the same way.
The steel support member must have a carbon content of no more than 0.40%.
In ambient temperature of 10°C and below, pre-heating of the weld area prior to welding must be carried out.

Seam welding

The welds must be sufficiently strong to take the required loads.
Before starting the final weld pass, clean well the root pass to avoid inclusions.
The complete welding operation must be carried out continuously so that the parts do not have time to cool.

Effects of temperature

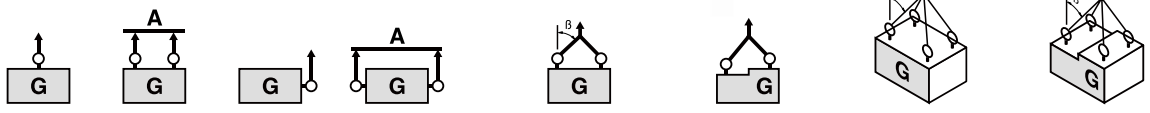
- The complete construction can be annealed stress release at <600°C without reduction of WLL.
- Do not rapidly cool the weld.

A thorough inspection of the weld should be performed. No cracks, pitting, inclusions, notches or undercuts are allowed. If doubt exists, use a suitable NDT method, such as magnetic particle or liquid penetrant to verify.
If repair is required, grind out the defect and re-weld using the original qualified procedure.

Welding materials

Weld materials must have a minimum tensile strength of 70,000 PSI (such as AWS A5.1 E-7018), following the electrode manufacturer's recommendations. Reference information as below:
MIG arc welding:

- Wire diameter 0.8 - 1.2 as per DIN 8559-SG 3, AWS A 5.18.
- Important: do not weld in the open air during bad weather



Number of Legs		1	2	1	2	2	2	2	3-4	3-4	3-4
Load Direction		0°	0°	90°	90°	0-45°	45°-60°	unsymm	0-45°	45°-	60°
Item No.	Size	RATED LOAD kgs.									
8-057	1T	2,300	4,500	2,300	4,500	3,100	2,300	2,300	4,700	3,400	2,300
8-057	3T	6,700	13,300	6,700	13,300	9,300	6,700	6,700	13,900	10,000	6,700
8-057	5T	11,100	22,100	11,100	22,100	15,500	11,100	11,100	23,200	16,600	11,100
8-057	8T	17,700	35,300	17,700	35,300	24,700	17,700	17,700	37,100	26,500	17,700
8-057	10T	22,100	44,100	22,100	44,100	30,900	22,100	22,100	46,300	33,100	22,100


Secure Solutions

Secure Solutions

North Office

Address
505 - 11 Avenue
Nisku, Alberta
Canada, T9E 7N5
Phone
780-955-7111
Fax
780-955-7199

South Office

Address
7620 Edgar Industrial Drive
Red Deer, Alberta
Canada, T4P 3R2
Phone
403-406-4996
Fax
403-406-4997

Secure Solutions

info@superslings.ca

www.superslings.ca