

CATALOG 2024

MeshLoadTowLift-AllHoistSlingsHuggersProductsHoistsRings

Plate Clamps

Lifting Devices

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General Web nformation Slings

Round Sling Wire Slings Protection Rope

Chain Slings

Rigging Hardware



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DEFINITION



Warnings serve to indicate a potentially hazardous situation. Failure to read, understand and follow the accompanying instructions on how to avoid these situations could result in serious injury or death.

How To Use This Catalog

If you know the type of product you need, locate the section by looking for the colored page tab. When you move on to the section containing the product you need, you will find specific information regarding that item. Specific ordering instructions are shown in each section of the catalog.

Note: All dimensions and specifications are subject to change without notice. Hardware dimensions are nominal and may vary depending on source. If dimensions are critical to your application, please specify your requirements.

Introducing The Lift-All[®] Company

Company Profile

Started in 1964, Lift-All Company, Inc. has grown to be the largest sling manufacturer in North America with over 250 employees working in five manufacturing locations around the United States. Our corporate headquarters is located in Landisville, Pennsylvania.

Manufacturing facilities and warehouses are strategically located throughout the United States. We have Sales Representatives covering the entirety of the U.S., Canada, and Mexico.

Sound engineering principles and a serious concern for safety have been the standard by which Lift-All has been producing innovative lifting products for over 55 years.

Lift-All's Mission Statement

Our mission is to be the trusted name in quality lifting and securement products and services by dedicating ourselves to customer satisfaction while providing exceptional value. Our long-term success will be accomplished by a skilled workforce, committed to the principles of teamwork, integrity, and performance.

Disclaimer of Warranties and Limitation of Liability

Seller warrants that its goods are free from defects in materials and workmanship. Accordingly, Seller's liability is limited to replacing without charge or refunding the purchase price or making fair allowance for any noncompliance with any specifications or any defects in materials or workmanship in its products existing at the time of delivery. Seller requires written notice and the return of the product to establish any claim. SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER. EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE ABOVE OBLIGATION ARE HEREBY DISCLAIMED BY SELLER AND EXCLUDED. Seller will not be liable for any consequential damages, loss or expense arising in connection with the use or inability whatever, regardless of whether damage, loss or expense results from any act or failure to act by Seller, whether negligent or willful or from any other reason.







www.lift-all.com



Tow

Hoist Clamps Plate

Throughout this catalog trade names are shown in *italic type*. Throughout this catalog ton (or tons) = 2,000-lbs.

All trade names are the property of Lift-All Company unless specifically identified by footnote as the property of another company.

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WHY *LIFT-ALL*?

Safety Every Single Day

We are on a mission to advance safe lifting for every worker through our activity chairing the Web Sling and Tiedown Association (WSTDA) Roundsling Committee and being actively involved in developing standards for the lifting industry.

Proud U.S. Manufacturer For More Than Half A Century

- The largest domestic full range manufacturer of slings.
- Internationally recognized market leading brand.
- Five manufacturing / distribution / testing centers.
 - Landisville, PA Corporate Headquarters
 - Chicago, IL
 - Houston, TX
 - Las Vegas, NV
 - Atlanta, GA

In-House Industry Leading Design / Engineering Team

Internal Quality Assurance Program

Lift-All ensures top quality products through our in-house Quality Assurance Program, which includes:

- 1. Detailed specifications for each product.
- 2. Testing of raw material prior to product manufacturing.
- 3. Traceability of all slings through serial numbers.
- 4. Product testing in conformance with industry standards.
- 5. Proof testing as required (certificates available).
- 6. Final inspection of products prior to shipment.

Lift-All is dedicated to manufacturing and developing products that meet or exceed current industry and government requirements, including OSHA and ASME B30.9 for lifting slings. *Lift-All* products conform to the following standards:

Product Type	Standard/Specification	
Cargo Securement	U.S. DOT, FMCSA 393.102, WSTDA	
Chain Slings	OSHA 1910.184, ASME B30.9, NACM	
Hoists	ASME B30.16, B30.21	
Roundslings	ASME B30.9, WSTDA	
Webbing Slings	OSHA 1910.184, ASME B30.9, WSTDA	
Wire Mesh Slings	OSHA 1910.184, ASME B30.9	
Wire Rope Slings	OSHA 1910.184, ASME B30.9	

Custom Lifting Design Solutions Available

We take pride in providing a comprehensive catalog to fill all your needs. Don't see what you're looking for? Our dedicated team of engineers will design the custom solution to get your job done safely.

Local Sales and Application Support

Safety Seminars

Lift-All representatives are available to train your employees on safe lifting and inspection procedures at your location. Our safety driven focus educates users regarding warnings and use instruction. With professional training from *Lift-All*, your employees will be knowledgeable and safe.



Web Slings General

Round Slings

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow



General

Web

Round Slings

Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Huggers

Products

Lift-All Hoists

Load

Tow

Hoist

Sling

WHY LIFT-ALL?

Safety-in-Lifting Training

A 22-minute presentation is available in both English and Spanish at www.lift-all.com. The presentation covers all types of slings and suggests the best type of sling for common lifting applications. You will learn safe lifting procedures, proper inspection criteria, maintenance, and more (in accordance with OSHA and ASME B30.9 guidelines).

Sling Inspection Services

OSHA regulations require that all chain slings receive a thorough inspection at least once per year by a competent person. You now have the opportunity to have a thorough, documented inspection performed by a factory-trained *Lift-All* representative. Chain slings, wire rope slings, web slings, roundslings and wire mesh slings which can be inspected in one survey by a representative from the most recognized manufacturer of lifting and load securement products - *Lift-All* Company.

The Inspection Procedure

Each sling is individually recorded and reported by location, serial number (if available), size, type, reach and condition.

If desired, we will affix a warning to those slings found to be damaged.

A sling survey report will be submitted to you for your records, showing the above details and including graphs for a quick representation of your inspection.

Let us help you reduce your overall cost of slings and make your lifts safer by identifying recurring problems and offering solutions to keep your slings in service longer.

If you wish to repair or replace any of the damaged slings, we will provide cost estimates to do so.

Sling Inspections not only help to ensure safe lifting equipment but also increase employee awareness of sling safety, creating a safer workplace for all.

To inquire about or arrange for your sling inspection, please call us at 800-909-1964.

Virtual Meetings and Training Available

We are available via Microsoft Teams, Zoom, Skype and WebEx.

Joint Sales Call Support & On-Site Lifting Consultation

Lift-All District Sales Managers team up with our distributors to work with the end user to provide support and solutions.

Free Lift-All Sling Calculator Phone App

The link is available from our website or download directly from the App Store or Google Play.

Market Leading Customer Support

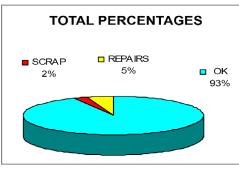
- Dedicated Customer Service Agents
- EDI and ACH capabilities
- E-Commerce Portal to serve our distributors

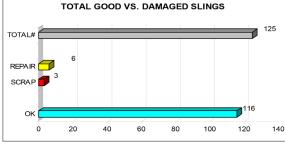
Customer Marketing Support

- Co-Op provided
- Ability to provide customized tagging and packaging
- E-Commerce/Digital Content Support

Lift-All Saves You Money

Our combination of uncompromising product quality, service and technology make *Lift-All* your best choice in long-term value.





SLING SELECTION

Which Type of Sling Should I Choose?

General Use of Different Types of Slings

Synthetic Slings — Lightweight and flexible, synthetic slings reduce fatigue and strain on riggers. Web slings can be ordered in a wide variety of materials and configurations, from eye/eye to wide-lifts to bridles. *Tuflex*[®] roundslings with color-coded capacities, *KeyFlex*[™] Aramid roundslings and *DynaFlex*[™] *Dyneema*[®] roundslings are easy to use, especially in choker hitch configurations.Synthetic slings offer the greatest range of lifting solutions for your application.

Wire Rope Slings — The most common and lowest cost sling per capacity. Wire rope slings are abrasion resistant, yet flexible. Perfect for the construction industry and anywhere heavy loads and rugged conditions exist.

Chain Slings — Alloy chain slings combine superior strength, ease of handling and durability. Chain slings are a great solution where elevated temperatures or severe lift conditions are present. Typical chain sling applications are found in steel mills, foundries and heavy machining operations.

Wire Mesh and Chain Mesh Slings — These slings excel in lifting objects that are hot or have sharp edges, such as bar stock or plate steel. Mesh slings greatly enhance load balancing due to their wide load bearing surface. You will find mesh slings used in machine shops and steel warehouses.





Load Huggers

ist Igs

Lift-All Hoists

Lifting Plate Devices Clamps

4







GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS

Safe Operating Practices

- 1. Sling users must be trained in operating practices, including sling selection, use, inspection, rigging practices, cautions to personnel, and effects of the environment.
- 2. Inspect sling before each use and remove from service if damaged.
- 3. Protect sling from being cut or damaged by corners, protrusions, or from contact with edges that are not well rounded, using material of sufficient strength, thickness and construction to prevent damage.
- 4. Use sling properly. Do not exceed a sling's rated capacities and always consider how the sling angle affects the amount of tension on the sling.
- 5. Stand clear of the load. Do not stand on, under, or near a load, and be alert to dangers from falling and moving loads, and the potential for snagging.
- 6. Maintain and store sling properly. The sling should be protected from mechanical, chemical and environmental damage.

1. TRAINING

Sling users must be trained and knowledgeable

Sling users must be knowledgeable about the safe and proper use of slings and be aware of their responsibilities as outlined in all applicable standards and regulations.

ASME B30.9 states, "Sling users shall be trained in the selection, inspection, cautions to personnel, effects of the environment, and rigging practices."

OSHA Sling Regulation 29 CFR 1910.184 states that a qualified person is one "who, by possession of a recognized degree or certificate of professional standing in an applicable field, or who, by extensive knowledge, training, and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter and work."

If you are unsure whether you are properly trained and knowledgeable, or if you are unsure of what the standards and regulations require of you, ask your employer for information and/or training - DO NOT use slings if you are unsure of what you are doing. Lack of skill, knowledge or care can result in severe INJURY or DEATH to you and others.

2. INSPECTIONS

Damaged or defective slings shall be immediately removed from service.

Inspection Frequency

Initial Inspection - Each new sling must be inspected by a designated person to help ensure that the correct sling has been received, is undamaged and meets applicable requirements for its intended use.

Frequent Inspection — Slings must be inspected for damage before each use by the user or other designated person. Refer to safety bulletin provided with each sling.

Periodic Inspection — Every sling must be inspected periodically. The designated person should be someone other than the person performing the frequent inspection.

The frequency of periodic inspections should be based on the sling's actual or expected use, the severity of service and experience gained during the inspection of other slings used in similar circumstances, but must not exceed a one-year interval. General guidelines for the frequency of periodic inspections are:

- Normal service yearly
- Severe service monthly to quarterly
- Special service as recommended

A written record of the most recent periodic inspection must be maintained. See WSTDA WS-1 for definitions of service conditions.

For specific inspection criteria for Lift-All slings, see the information at the end of each product section.

All sling users must read and understand the safety bulletin provided with each sling.



The Safety Bulletin that accompanies each sling must be read and understood by all sling users. See sling abuse illustrations in their respective section of this catalog. Damaged slings should never be used. It is possible (in some instances), to repair slings, proof-test and return them to service. Damaged components and sections of chain or wire mesh can be replaced. Hooks, links and other components that are in good condition can be salvaged from a damaged web or round sling; then re-webbed and proof-tested by Lift-All and returned to service.

Hoist

Clamps Plate

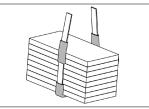
Lifting Devices

Tow



GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS

3. PROTECT SLINGS



The cutting of synthetic slings is the primary cause of sling failure, usually caused by a sharp or small diameter load edge against the sling. Proper protection must be used to avoid cutting. (See Sling Protection section).

Heavy abrasion will seriously degrade sling strength. Rough load surfaces and dragging slings on the ground will damage all slings, steel or synthetic. Use proper sling protection between slings and rough loads. Never drag slings on the ground or concrete floors.

Sling Protection

A qualified person must select materials and methods that adequately protect slings from edges or surfaces. The sling protection section of this catalog includes information on available cut protection products and wear protection products. No protective device is cut proof.

Some protection devices provide abrasion resistance but offer virtually no protection against cuts. Several test lifts (done in a non-consequence setting), may be necessary to determine the suitability of each protection device. After each test lift, inspect all slings and protection devices for damage.

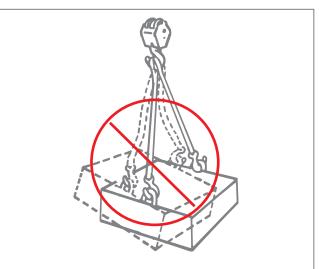
Foreign Matter

Material such as metal chips and heavy grit can damage slings, both internally and externally. Avoid contact with foreign matter whenever possible.

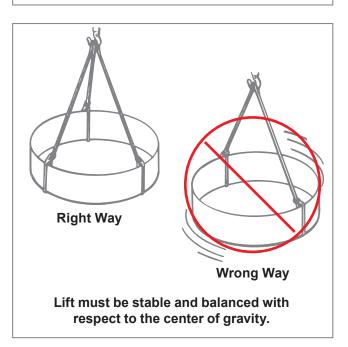
4. USE SLINGS PROPERLY

Improper Loading — Shock Loading, unbalanced loading, overloading and inadequate consideration for the effect of angle factors can adversely affect safety. Make sure the load weight is within the rated capacity of the sling(s) being used for both type of hitch, and angle of lift. OSHA wording.





Do not shock load. Jerking the load could overload the sling and cause it to fail.



Wire Rope

Chain Slings

Rigging Hardware

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting Devices



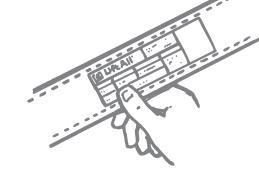
A qualified person must choose the quantity of slings, location of attachments, and the hitch types needed to effectively maintain load control.



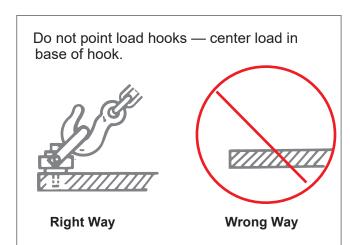


Angle of lift must be considered in all lifts. See Effect of Angle section of this catalog.

Slings shall not be loaded in excess of their rated capacities. OSHA wording.



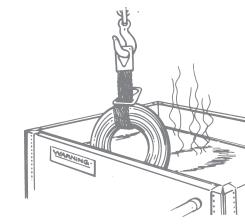
Rated Capacity (Working Load Limit) must be shown by markings or tags attached to all slings.

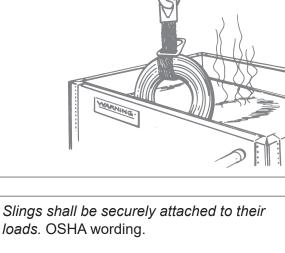


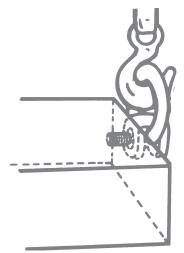
Temperature: Avoid loads and environments where temperatures exceed the limits of the slings being used. All slings can be damaged by excessive heat, including heat from welding torches and weld spatter.

Chemical Environment: Slings exposed to certain chemicals or the vapors of these chemicals can lose some or all of their strength. When using slings in a chemical environment, contact Lift-All to ensure sling compatibility.

Temperature and chemical environment must be considered. See specific sling types for data.









Hardware Rigging

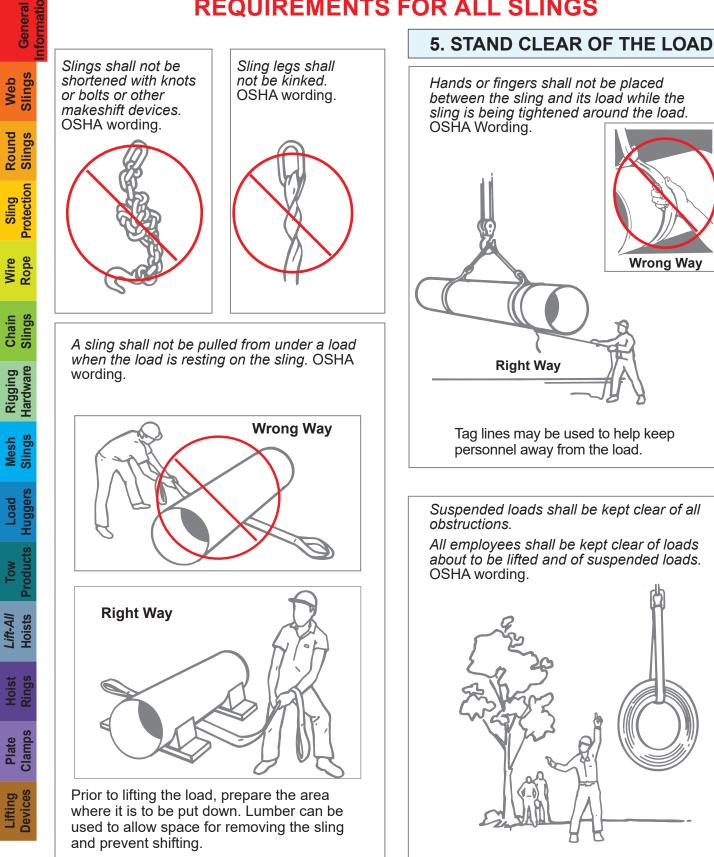
Huggers Product Load

Hoists

ifting



GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS



GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS

6. MAINTAIN & STORE SLINGS PROPERLY

Attempt to keep slings clean and free of dirt, grime, and foreign materials.

When not in use, slings should be stored in an area free from environmental or mechanical sources of damage, such as weld spatter; splinters from grinding or machining; or sources of UV, heat or chemical exposure; etc.

Additional Factors to consider when handling loads

- Integrity of the attachment points.
- Structural stability of the load.
- Loose parts that could fall from load.
- Power lines in the area.



Slings shall be stored in cool, dark, dry areas, preferably on racks.

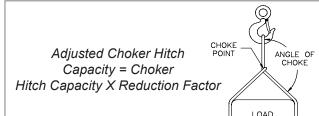
Secure a clear load path and avoid any contact with objects that would impede load movement.

• Tag lines can often be attached to the load and be used to aid in controlling load position.

CHOKER HITCH ANGLES

Choker Hitch Angles

When a choke hitch is used, and the angle of choke is less than 120°, the sling choker hitch capacity decreases. To determine the actual sling capacity at a given angle of choke, multiply the sling capacity choke rating by the appropriate reduction factor determined from the below. Sling capacity decreases as choke angle decreases.



REDUCTION IN RATED CAPACITY AS A FUNCTION OF ANGLE OF CHOKE

SYNTHETIC SLINGS			
Angle o	Factor		
> or =	<	Factor	
120	180	1.00	
105	120	.82	
90	105	.71	
60	90	.58	
0	60	.50	

WIRE ROPE SLINGS				
Angle o	Factor			
> or =	<	Factor		
120	180	1.00		
90	120	.87		
60	90	.74		
30	60	.62		
0	30	.49		

Lift-All is dedicated to manufacturing and developing products for material handling that meet or exceed current industry and government requirements (OSHA and ASME B30.9). Ultimately, the life and strength of any sling depend on those who inspect, use and maintain the product.

The ASME B30.9 Sling Safety Standard can be obtained from: ASME Customer Service Phone: 800-843-2763 www.asme.org Occupational Safety and Health Administration (OSHA) "Industrial Slings" Regulations are published by the Office of the Federal Register, National Archives and Records Administration — Part 29 1910.184 www.osha.gov



General Slings Web Slings Round Protection Sling Rope Wire Chain Slings Hardware Rigging Slings Mesh Huggers Load Products

cts Hoists



General

Web Slings

Slings

Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh

Lift-All Hoists

Plate

Load

Round

Sling

EFFECT OF SLING ANGLE

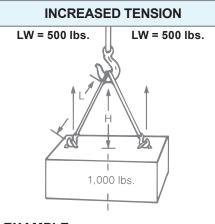
Using slings at an angle *can become deadly* if that angle is not taken into consideration when selecting the sling to be used. The tension on each leg of the sling is increased as the angle of lift, from horizontal, decreases. It is most desirable for a sling to have a larger angle of lift, approaching 90°. Lifts with angles of less than 30° from horizontal are not recommended. If you can measure the angle of lift or the length and height of the sling as rigged, you can determine the properly rated sling for your lift. The Increased Tension method provides the increased tension as a function of the sling angle. Alternatively, the sling Reduced Capacity method may be used to determine reduced lift capacity for any angle.

INCREASED TENSION Determine capacity of sling needed

- 1. Determine the load weight (LW).
- 2. Calculate the tension factor (TF):
 - a. Determine the sling angle as measured from the horizontal, and the corresponding tension factor (TF) from the effect of angle chart.

OR

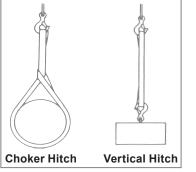
- **b.** Length* (L) divided by height* (H)
- Determine the share of the load applied to each sling leg (LW).
- 4. Multiply (LW) by (TF) to determine the sling leg tension. The capacity of the selected sling or sling leg must meet the calculated tension value.
- * Measured from a common horizontal plane to the hoisting hook.

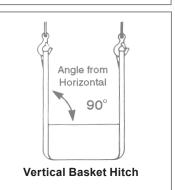


EXAMPLE

Load weight: 1,000 lbs. Rigging: Two slings in vertical hitch Lifting weight (LW) per sling: 500 lbs. Measured sling length (L): 10 ft. Measured Sling Height (H): 5 ft. Tension factor (TF): $10(L) \div 5(H) = 2.0$ Minimum vertical rated capacity required for this lift:

500(LW) X 2.0(TF) = 1,000 lbs. per sling





REDUCED CAPACITY Calculate rating of each sling rigged at this angle

- 1. Calculate the reduction factor (RF).
 - **a.** Using the angle from horizontal, read across the angle chart to the corresponding number in the Reduction Factor column.

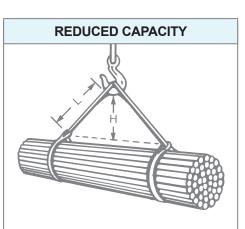
OR

- **b.** Divide sling height* (H) by sling length* (L).
- Reduction factor (RF) x the sling's rated capacity for the type hitch that will be used = sling's reduced rating.
 - * Measured from a common horizontal plane to the hoisting hook.

EFFECT OF ANGLE CHART				
Tension Factor (TF)	Angle From Horizontal	Reduction Factor (RF)		
1.000	90°	1.000		
1.004	85°	0.996		
1.015	80°	0.985		
1.035	75°	0.966		
1.064	70°	0.940		
1.104	65°	0.906		
1.155	60°	0.866		
1.221	55°	0.819		
1.305	50°	0.766		
1.414	45°	0.707		
1.555	40°	0.643		
1.742	35°	0.574		
2.000	30°	0.500		
Sling capacity decreases as the				

Sling capacity decreases as the angle from horizontal decreases.

Sling angles of less than 30° are not recommended.



EXAMPLE

Vertical choker rating of ea. sling: 6,000 lbs. Measured sling length (L): 6 ft. Measured sling height (H): 4 ft. Reduction factor (RF): $4(H) \div 6(L) = .667$ Reduced sling rating in this configuration: **667(RF) X 6,000 lbs. = 4,000 lbs. of lifting capacity per sling**

Lifting Devices



General

Slings Web

Slings Round

Protection

Rope Wire

Chain Slings

Mesh

Load

Tow

Lift-All

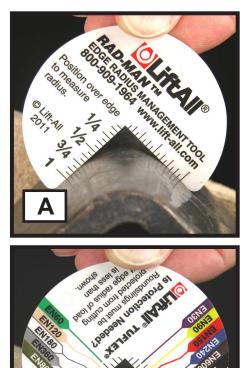
Hoist

Plate

Sling

EDGE RADIUS MANAGEMENT TOOL RAD-MAN™

The Lift-All Edge Radius Management tool (RAD-MAN) assists in the evaluation of loads to be lifted with either roundslings or web slings by providing an easy way to measure the radius of a load edge. This document conforms to Lift-All requirements and the WSTDA RS-1 polyester roundsling standard. Lift-All minimum edge radius tables are available for web slings, and also for *Tuflex*[®] polyester, *DynaFlex[™] Dyneema*[®] and *KeyFlex[™]* Aramid roundslings.



How to Use RAD-MAN

- 1. RAD-MAN can be used to either measure the radius (Photo A), or be used to directly check the suitability of a particular Tuflex size (Photo B).
- 2. Choose Side A or B and then position *RAD-MAN* over the edge that will be in contact with the sling.
- 3. RAD-MAN can be used to measure edges of 90° or less. When positioned correctly, both sides of the load edge will first touch RAD-MAN at the same point on each side. The radius of this edge appears to be 3/4 of an inch.
- 4. This side of *RAD-MAN* shows the required minimum radius for the various *Tuflex*[®] roundslings to be used without additional protection. In this photo, the load edge appears to first touch RAD-MAN at the EN800. This means that an EN800 or any smaller size would be good to use against this edge. An EN1000 would need to have suitable sling cut protection.

If you are having difficulty in reading the measurement, always err on the safe side. In this case, if you think that the first touch might be at the EN800 but aren't sure, and you are using it to its' full rated capacity, then use sling protection.

Application Examples and Best Practices

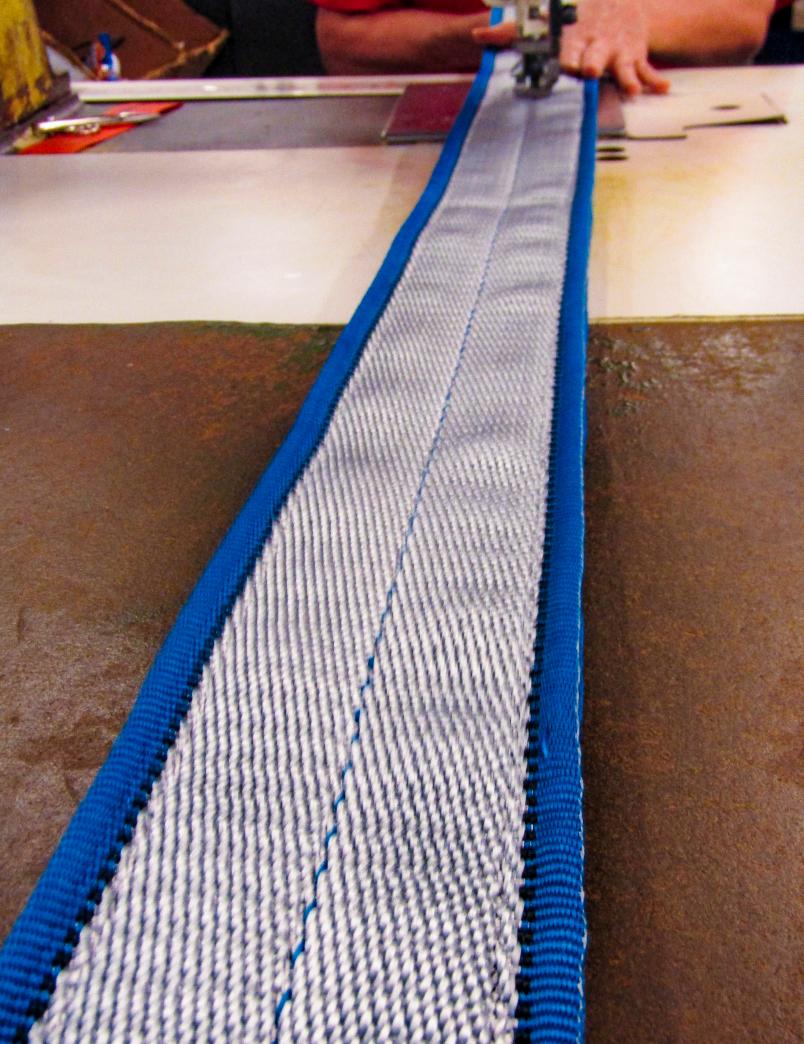
As another example, the measurement here looks like 3/16 of an inch. The only *Tuflex* size that can lift to capacity against this edge would be an EN30. All others would need additional protection.

When using any web sling or roundsling at less than its' rated capacity, the minimum edge radius allowed may be reduced by the same percentage as the slings tension is to its' rated capacity.

For instance, an EN150 sling at full capacity needs a radius of 3/8" or greater. An EN150 being used at only 1/2 of its' rated capacity could be used on a 3/16" radius without needing additional protection (i.e. 3/8" x .50 = 3/16").

For additional information on calculating allowable minimum edges when using a sling at less than its' rated capacity, please refer to Lift-All Technical Bulletin RS-48 or contact the Lift-All Engineering Department.





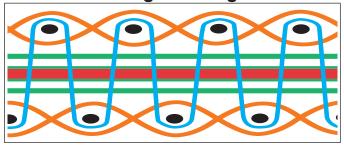


WHY LIFT-ALL WEB SLINGS?

Lift-All web slings meet or exceed OSHA, ASME B30.9 and WSTDA standards and regulations

All sling webbing contained in this catalog is recommended for general purpose lifting. Sling webbing has surface yarns connected from side to side, which not only protect the core yarns, but position surface and tensile yarns to work together to support the load. Wear or damage to sling webbing face yarns cause an immediate strength loss. Sling webbing has red core yarns to visually reveal damage which is one indicator for sling rejection. Please read warning sheet provided with each sling for additional details.

Sling Webbing



- Transverse pick yarns inter-relate with binder/surface yarns.
- Woven surface yarns cover each side and carry a portion of the load.
- Strip of longitudinal core yarns bears majority of load.
- Binder yarns secure the surface yarns to web core varns.
- Red core warning yarns.

TUFF-TAG[™]

OSHA requires all web slings to show rated capacities and type of material. The Lift-All Tuff-Tag is made from an abrasion resistant polymer that will remain legible far longer than any leather or vinyl tag. In fact, Tuff-Tags will consistently outlast the useful life of slings.



SAFETY BULLETIN

A safety bulletin is packaged with every web sling from Lift-All. The bulletin includes:

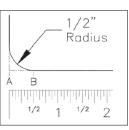
- Inspection and removal from service criteria.
- Environmental considerations.
- Inspection frequency.
- Effect of angles.
- Rigging configuration.
- Sling protection.
- Exposure of slings to edges.



WARNING

Exposure of web slings to edges with a radius that is too small can cause sling failure and loss of load

Edges do not need to be sharp to cause failure of the sling. The table shows the minimum allowable edge radii suitable for contact with unprotected webbing slings. Chamfering or cutting off edges is not an acceptable substitute for fully rounding the edges to the minimum radius. Slings can also be damaged from contact with the edges or burrs at the sling connections.



Measure the edge radius. The radius is equal to the distance between points A and B.

Number of			
Minimum edge radii suitable for contact with unprotected web slings.			

Sling Web Plies	Minimum Edge Radii (in.)	
1 Ply	.18	3/16
2 Plies	.50	1/2
3 Plies	.75	3/4
4 Plies	1.00	1

For further information on minimum edge radii, contact Lift-All.

Mesh

Hoists



Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Tow Load Products Huggers

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting Devices

LIFT-ALL WEB SELECTOR

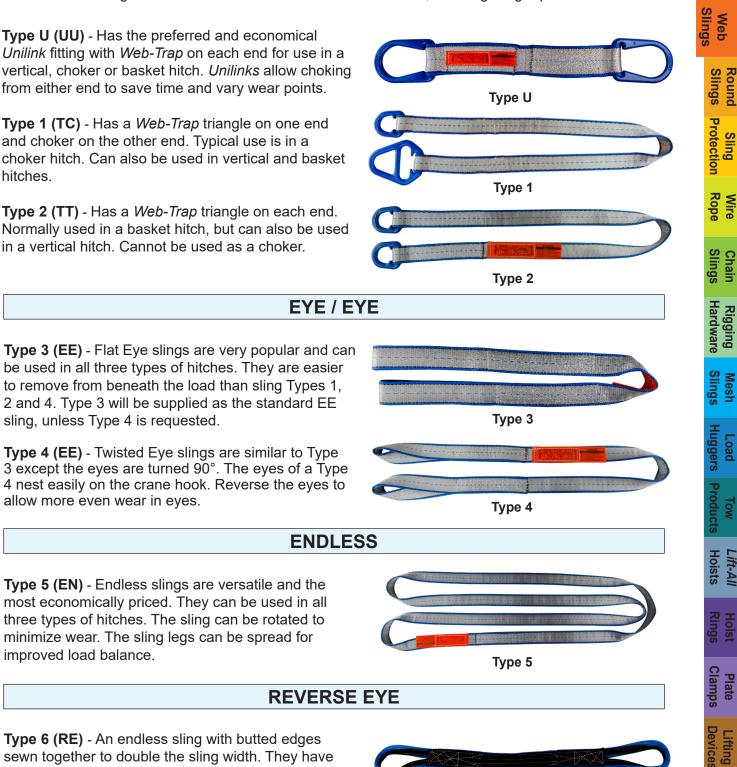
7	Tuff-Ed	ge [®] III	
Webn	naster®	⁾ 1600 Pc	oly
Webm	aster®	1600 Nyl	on
Webn	naster®	⁾ 1200 Po	ly
Webm	aster®	1200 Nyl	on
Dı	ıra-Wel	b™ 2000	
			1
Du	ıra-Wel	b [™] 1000	

Approx. Thickness	Single-Ply Capacity Per Inch of Width	Material	Identifier	Applications*
0.156"	1600-lbs.	Polyester	Blue E dge D amage Limit (EDL) Blue center stripe Silver surface	Daily use under good to rugged lifting conditions. 30% more resistant to edge damage than our <i>Tuff-Edge</i> II webbing.
0.156"	1600-lbs.	Polyester	Blue center stripe	Daily use under good to moderate lifting conditions. Polyester stretches less for better load control, reduced abrasion.
0.156"	1600-lbs.	Nylon	No center stripe	Daily use under good to moderate lifting conditions. Nylon stretches more to help avoid shock loading.
0.125"	1200-lbs.	Polyester	Blue center stripe Black yarn one edge	Light use under good lifting conditions. Polyester stretches less for better load control, reduced abrasion.
0.125"	1200-lbs.	Nylon	No center stripe Black yarn on one edge	Light use under good lifting conditions. Nylon stretches more to help avoid shock loading.
0.3125"	2000-lbs.	Nylon	Two black center stripes	Heavy use under moderate to rugged lifting conditions. Abrasion resistant yarns cover entire surface.
0.1875"	1000-lbs.	Nylon	One black center stripe	Daily use under moderate lifting conditions. Abrasion resistant yarns cover entire surface.
* WARNING Always protect synthetic slings from being cut by corners and edges. See Sling Protection section in this catalog.				

STANDARD WEB SLING TYPES

HARDWARE SLINGS

Unilink[™] and *Web-Trap*[™] hardware can help to extend sling life by protecting the webbing from abrasion on rough crane hooks. Hardware can often be reused, lowering sling replacement costs.



sewn together to double the sling width. They have reinforced eyes and wear pads on both sides of body and eyes for premium wear resistance.





General

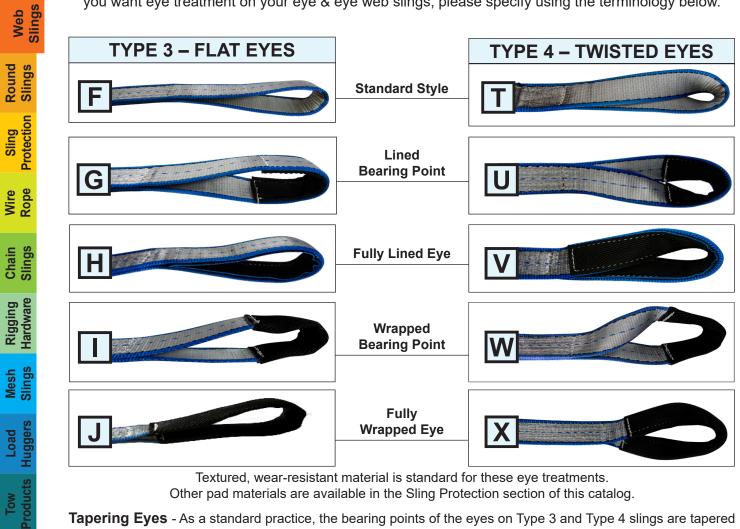


Information General

Web

WEB SLING EYE TREATMENTS

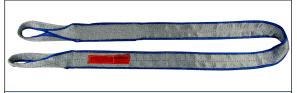
The eyes of web slings are often subjected to the harsh treatment of rough crane hooks. Specialty eye treatments are available to help reduce the wear in that area, thereby extending sling life. The following photos illustrate the more common eye treatments using wear-resistant webbing in various forms. Should you want eye treatment on your eye & eye web slings, please specify using the terminology below.



Textured, wear-resistant material is standard for these eye treatments. Other pad materials are available in the Sling Protection section of this catalog.

Tapering Eyes - As a standard practice, the bearing points of the eyes on Type 3 and Type 4 slings are tapered to accommodate a crane hook on slings 3" and wider. Untapered eyes are available upon request. Type 5 (endless) slings are NOT tapered unless specified on order. Dura-Web[™] 2000 slings are NOT tapered in any width.





Type 3 - Flat Eyes

Type 4 - Twisted Eyes

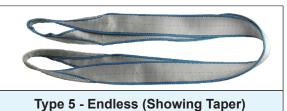


Plate Clamps

Load

To⊌

Lift-All

Hoists

Hoist Rings



ENVIRONMENTAL CONSIDERATIONS

Exposure to sunlight and other environmental factors can result in accelerated deterioration of web slings. The rate of this deterioration varies with the level of exposure and with the thickness of the sling material.

Visible indication of such environmental deterioration can include the following:

- Fading of webbing color.
- Uneven or disoriented surface yarn of the
- webbing.
- Shortening of the sling length.
- Reduction in elasticity of the sling.
- Accelerated abrasive damage to the surface yarns of the sling.
- Breakage or damage to yarn fibers is often evident by a fuzzy appearance on the web.
- Stiffening of the web.

Anti-Abrasion Treatment

Lift-All webbing is treated for abrasion. Heavy duty treatments are available as a supplemental process for greater protection. Natural, untreated webbing is available upon request.

Elasticity

The stretch characteristics of web slings depends on the type of yarn and the web treatment. Approximate stretch at rated sling capacity:

NYLC	N	POLYES	STER
Treated	10%	Treated	7%
Untreated	6%	Untreated	3%

TOLERANCES FOR WEB SLINGS

Length Tolerance*		
± (1.5" + 1.5% of sling length)		
± (2.0" + 2% of sling length)		
± (3.0" + 3% of sling length)		

* For web sling widths wider than 6", add 1/2" to these values. For tighter tolerance or matched set lengths, please consult with Customer Service prior to ordering.

Sunlight / UV Exposure Service Life

Nylon and polyester web slings possess a limited useful service life due to the degradation caused by exposure to sunlight or other measurable sources of UV radiation.

Lift-All web slings that are regularly exposed to UV radiation should be identified with the date they are placed into service and should be proof-tested to twice their rated capacity every six months.

Lift-All nylon and polyester web slings shall be permanently removed from service when the cumulative UV or outdoor exposure has reached these limits:

- 1-Ply and 2-Ply web slings 2 years:
- 3 years: 3-Ply and 4-Ply web slings

Temperature

Nylon and polyester slings degrade at temperatures above 200°F.

Chemical Environment Data

Many chemicals have an adverse effect on nylon and polyester. The chemical chart below is a general guide only. For specific temperature, concentration and time factors, please consult Lift-All prior to purchasing or use.

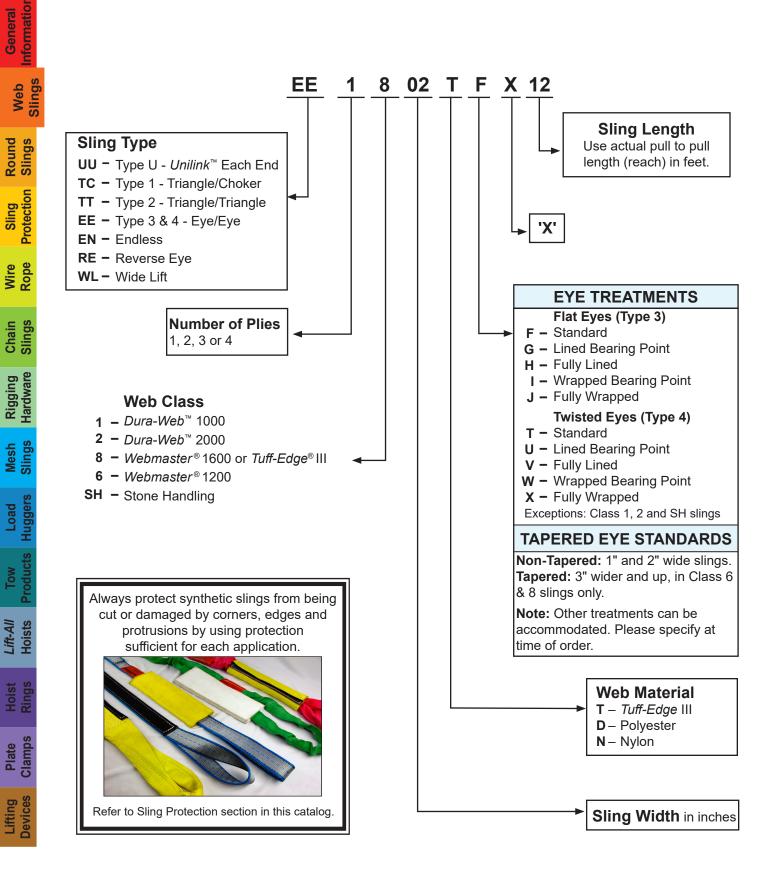
CHEMICAL	NYLON	POLYESTER
Acids	NO	OK⁺
Alcohols	ОК	ОК
Aldehydes	ОК	NO
Alkalis	ОК	NO
Bleaching Agents	NO	ОК
Dry Cleaning Solvents	ОК	ОК
Ethers	ОК	ОК
Halogenated Hydro-Carbons	ОК	ОК
Hydro-Carbons	ОК	ОК
Ketones	ОК	ОК
Oils Crude	ОК	ОК
Oils Lubricating	ОК	ОК
Soap & Detergents	ОК	ОК
Water & Seawater	ОК	ОК
Weak Alkalis	OK	ОК

* Disintegrated by concentrated sulfuric acid.

Web



HOW TO ORDER WEB SLINGS





Patent # 10,494,231 Out of Service Marker 11,021,346 Edge Protection D908,362 Web Design

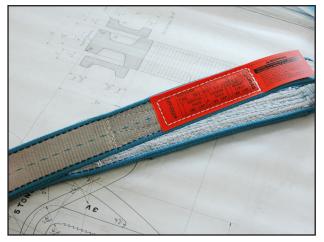
The patented design changes to the body and edge of our new *Tuff-Edge* III translates to a softer web with increased abrasion and edge-cut resistance.

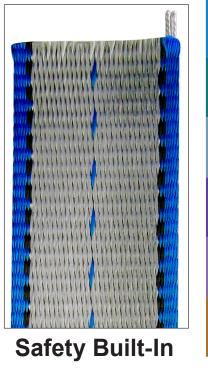
Introducing the Edge Damage Limit (EDL) out-ofservice marker. The EDL tool both simplifies the inspection process and also extends the life of the web slings, saving you money. Whenever sling damage is concentrated along the edge of the webbing, the sling may continue to remain in service until the damage has reached the EDL black line marker, assuming the sling is otherwise in good operating condition. If there is any question as to the serviceability to the sling, remove from service.

Features and Benefits

- 30% more resistant to edge damage than our *Tuff-Edge* II webbing.
- Tubular edge design with damage-resistant core helps protect the body fibers from cutting, keeping the integrity of the sling intact without compromising its strength.
- Edge Damage Limit (EDL), out-of-service marker aids in sling inspection (refer to TEIII Web Sling Safety Bulletin).
- Soft twill weave body.
- Improved handling characteristics with no coated edge yarns.
- Easy to identify by the blue tubular edges and EDL marker.
- Available in 1" to 12" widths.

WEB EDGE CUT PERFORMANCE CHART										
Webbing Design	Edge Construction	•	Web Edge Cut mance Rating							
		Poor	Superior							
Tuff-Edge III	Tubular with Reinforced Core									
Tuff-Edge II	Polymer									
<i>Webmaster</i> 1600 Polyester	Standard									







Sling Protection

Wire

Chain Slings H

Rigging Hardware

Lift-All Hoists

PRODUCTS FOR BETTER LIFTING

Web Slings

WEBMASTER® 1600 NYLON & POLYESTER SLINGS

The Traditional Standard for Heavy Duty Slings

Webmaster 1600 is our most popular web due to strength and service life. This versatile workhorse can be designed in many configurations for a wide variety of lifting applications. Many industries appreciate the value versus strength capabilities of this product line, making it the go-to solution.

Features and Benefits

Promotes Safety

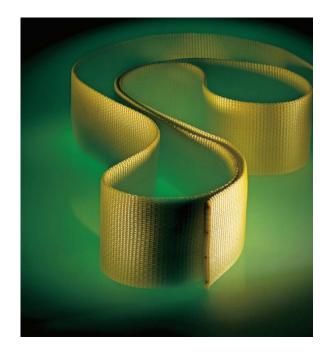
- Red core yarn warning system aids in the inspection process.
- *Tuff-Tag*[™] provides serial numbered identification for traceability.
- Proven reliability.

Saves Money

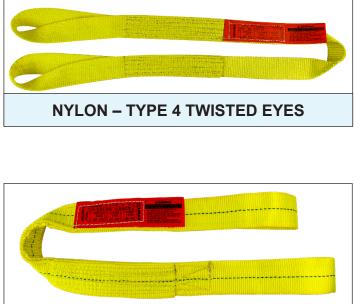
- Yellow treatment for abrasion resistance and extended sling life.
- *Tuff-Tag* provides required OSHA information for the life of the sling.

Saves Time

 Polyester web is identified by a single blue surface stripe.







POLYESTER – TYPE 3 FLAT EYES

For details on characteristics of nylon versus polyester webbing, see 'Environmental Considerations' in this section.

Wire Rope

Lift-All Tow Hoists Produ

Plate Clamps

Lifting Devices



General

Web Slings

> Round Slings

> Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Huggers Products

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting Devices

TUFF-EDGE® III & WEBMASTER® 1600 SLINGS

		EYE /	EYE SLI	NGS	**		
Ply	<i>Tuff-Edg</i> e III Part No.	<i>Webmaster</i> 1600 Polyester	<i>Webmaster</i> 1600 Nylon	Web Width	Ra	ted Capac (lbs.)	ity*
	rattivo.	Part No.	Part No.	(in.)	Vertical	Choker	V. Basket
	EE1801TF	EE1801DF	EE1801NF	1	1,600	1,280	3,200
	EE1802TF	EE1802DF	EE1802NF	2	3,200	2,500	6,400
	EE1803TF	EE1803DF	EE1803NF	3	4,800	3,800	9,600
	EE1804TF	EE1804DF	EE1804NF		6,400	5,000	12,800
ľ	EE1806TF EE1808TF	EE1806DF EE1808DF	EE1806NF EE1808NF	6 8	9,600 12,800	7,700 10,200	19,200 25,600
	EE1808TF EE1810TF	EE1808DF EE1810DF	EE1808NF EE1810NF	10	12,800	12,800	25,600
ſ	EE1812TF	EE1812DF	EE1812NF	12	19,200	15,400	38,400
	EE2801TF	EE2801DF	EE2801NF	1	3,200	2,500	6,400
	EE2802TF	EE2802DF	EE2802NF	2	6,400	5,000	12,800
	EE2803TF	EE2803DF	EE2803NF	3	8,800	7,040	17,600
	EE2804TF	EE2804DF	EE2804NF	4	11,500	9,200	23,000
	EE2806TF	EE2806DF	EE2806NF	6	16,500	13,200	33,000
	EE2808TF EE2810TF	EE2808DF EE2810DF	EE2808NF EE2810NF	8 10	19,200 22,400	15,400 17,900	38,400 44,800
	EE2810TF	EE2812DF	EE2812NF	10	26,900	21,500	53,800
	EE3801TF	EE3801DF	EE3801NF	1	4,100	3,300	8,200
	EE3802TF	EE3802DF	EE3802NF	2	8,300	6,600	16,600
	EE3803TF	EE3803DF	EE3803NF	3	12,500	10,000	25,000
	EE3804TF	EE3804DF	EE3804NF	4	16,000	12,800	32,000
	EE3806TF	EE3806DF	EE3806NF	6	23,000	18,400	46,000
	EE3808TF	EE3808DF	EE3808NF	8	30,700	24,500	61,400
	EE3810TF EE3812TF	EE3810DF EE3812DF	EE3810NF EE3812NF	10 12	36,800 44,000	29,400 35,200	73,600 88,000
	EE4801TF	EE4801DF	EE4801NF	1	5,000	4,000	10,000
	EE4802TF	EE4802DF	EE4802NF	2	10,000	8,000	20,000
	EE4803TF	EE4803DF	EE4803NF	3	14,900	11,900	29,800
	EE4804TF	EE4804DF	EE4804NF	4	19,800	15,800	39,600
	EE4806TF	EE4806DF	EE4806NF	6	29,800	23,800	59,600
	EE4808TF	EE4808DF	EE4808NF	8	39,700	31,700	79,400
	EE4810TF EE4812TF	EE4810DF EE4812DF	EE4810NF EE4812NF	10 12	49,600 59,500	39,600 47,600	99,200 119,000
		Twisted Eves (Type 4)		12	59,500	47,000	119,000

** Replace the F with a T for Twisted Eyes (Type 4).

Eyes on Type 3 and Type 4 slings are tapered at 3" and wider, unless otherwise specified.

	EYE LENGTH – APPLIES TO ALL SLINGS													
Plies of Sling Width (in.)														
Web	1	1 2 3 4 6 8 10 12												
1	8.5	10	11	12	16	20	24	24						
2	8.5	10	11	12	16	20	24	24						
3	10.0	12	14	16	18	24	24	24						
4	10.0	12	14	16	18	24	24	24						



Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.



General nformatior

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Lift-All Hoists

Plate Clamps

Lifting Devices

To⊌

Hoist

TUFF-EDGE® III & WEBMASTER® 1600 SLINGS

			ENDLESS	5			
Ply	Tuff-Edge III	Webmaster 1600 Polyester	<i>Webmaster</i> 1600 Nylon	Web Width	Rateo	d Capacity*	(lbs.)
,	Part No.	Part No.	Part No.	(in.)	Vertical	Choker	V. Basket
	EN1801T	EN1801D	EN1801N	1	3,200	2,500	6,400
	EN1802T EN1803T	EN1802D EN1803D	EN1802N EN1803N	23	6,400 8,800	5,000 7,040	12,800 17,600
One	EN1804T	EN1804D	EN1804N	4	11,500	9,200	23,000
Ply	EN1806T	EN1806D	EN1806N	6	16,500	13,200	33,000
	EN1808T	EN1808D	EN1808N	8	19,200	15,400	38,400
	EN1810T EN1812T	EN1810D EN1812D	EN1810N EN1812N	10 12	22,400 26,900	17,900 21,500	44,800 53,800
	EN2801T	EN2801D	EN2801N	1	6,200	4,900	12,400
	EN2802T	EN2802D	EN2802N	2	12,400	9,900	24,800
Two	EN2803T EN2804T	EN2803D EN2804D	EN2803N EN2804N	3 4	16,300 20,700	13,000 16,500	32,600 41,400
Ply	EN2806T	EN2806D	EN2806N	6	30,500	24,400	61,000
	EN2808T	EN2808D	EN2808N	8	40,000	32,000	80,000
	EN2810T EN2812T	EN2810D EN2812D	EN2810N EN2812N	10 12	47,000 56,000	37,600 44,800	94,000 112,000
	EN3801T	EN3801D	EN3801N	1	8,000	6,400	16,000
	EN3802T	EN3802D	EN3802N	2	16,000	12,800	32,000
Three	EN3803T EN3804T	EN3803D EN3804D	EN3803N EN3804N	3	21,500 28,700	17,200 23,000	43,000 57,400
Ply	EN3806T	EN3806D	EN3806N	6	40,700	32,500	81,400
	EN3808T	EN3808D	EN3808N	8	46,000	36,800	92,000
	EN3810T EN3812T	EN3810D EN3812D	EN3810N EN3812N	10 12	51,500 59,200	41,200 47,300	103,000 118,400
	EN4801T	EN4801D	EN4801N	1	10,000	8,000	20,000
	EN4802T	EN4802D	EN4802N	2	19,800	15,800	39,600
	EN4803T EN4804T	EN4803D EN4804D	EN4803N EN4804N	3	26,700 35,600	21,300 28,400	53,400 71,200
Four Ply	EN4806T	EN4806D	EN4806N	6	50,500	40,400	101,000
	EN4808T	EN4808D	EN4808N	8	57,600	46,000	115,200
	EN4810T	EN4810D	EN4810N	10	67,200	53,700	134,400
	EN4812T	EN4812D	EN4812N	12	80,700	64,500	161,400

Note: Type 5 (Endless) slings are not tapered unless specified.

Tuflex[®] is an Alternative...

For 3-ply and 4-ply slings wider than 6", *Tuflex* Roundslings should be seriously considered. *Tuflex* offers increased flexibility, ease of use and lower cost.



Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. **Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.**

*



Best in Abrasion Resistance

Available in two strength classes, all *Dura-Web* slings feature premium abrasive resistant yarns covering all surfaces for extended sling life and long term value.

Features and Benefits

Promotes Safety

- Red core yarn warning system aids in the inspection process.
- Striped webbing helps identify proper capacity.
- *Tuff-Tag*[™] provides serial numbered identification for traceability.

Saves Money

- Abrasion resistant fibers cover both faces and edges for greater sling life.
- *Tuff-Tag* provides required OSHA information for the life of the sling.

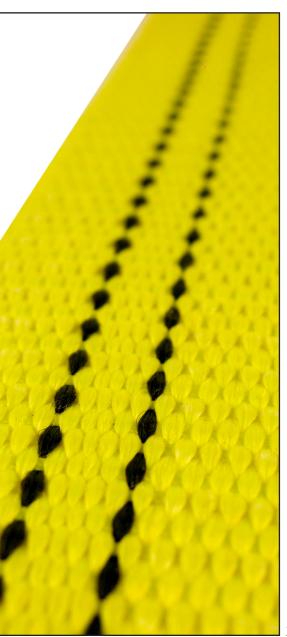
Saves Time

• Easily identified by stripes.

DURA-WEB 2000

- Two black stripes: 2,000-lbs. per inch of width. 25% stronger than other webbing.
- The strongest abrasion resistant sling available.
- *Dura-Web* 2000 slings cannot have tapered eyes.
- *Dura-Web* slings meet or exceed OSHA and ASME B30.9 requirements.
- Available in 1", 2", and 3" widths.

	Part	Web	Rate	d Capacit	y (lbs.)			
Ply	Number	Width (in.)	Vertical	Choker	V. Basket			
	\bigcirc			Type U				
One Ply	UU1202N UU1203N	2 3	4,000 6,000	3,200 4,800	8,000 12,000			
Two Ply	UU2202N UU2203N	2 3	8,000 10,800	6,400 8,600	16,000 21,600			
(Carrie					
	Туре 3 –	(F)	Туре 4 – (Т)					
One Ply	EE1201NF EE1202NF EE1203NF	1 2 3	2,000 4,000 6,000	1,600 3,200 4,800	4,000 8,000 12,000			
Two Ply	EE2201NF EE2202NF EE2203NF	1 2 3	4,000 8,000 10,800	3,200 6,400 8,600	8,000 16,000 21,600			
			Ту	vpe 5				
One Ply	EN1201N EN1202N EN1203N	1 2 3	4,000 8,000 12,000	3,200 6,400 9,600	8,000 16,000 24,000			
Two Ply	EN2201N EN2202N EN2203N	1 2 3	7,800 15,200 20,400	6,200 12,200 16,300	15,600 30,400 40,800			





Chain Slings

Rigging Hardware

Mesh Slings

Huggers

Lift-All Hoists

Plate Clamps

Lifting Devices



nformation General

> Web Slings

Round Slings

Lifting

DURA-WEB[™] NYLON SLINGS

DURA-WEB 1000

- One black stripe: 1,000-lbs. per inch of width.
- The only light-duty web sling with an abrasive resistant surface.
- Wider bearing surface per capacity, helps protect load surface.
- Dura-Web slings meet or exceed OSHA and ASME B30.9 requirements.
- Available in 1" and 2" widths.

2							
Sling Protection			Part	Web	Rate	ed Capacity	/ (Ibs.)
	PI	У	Number	Width (in.)	Vertical	Choker	V. Basket
Wire Rope					T (Гуре U	
Chain Slings							
	On Pl	I	UU1102N	2	2,000	1,600	4,000
Rigging Hardware	Tw Pl	I	UU2102N	2	4,000	3,200	8,000
Mesh Slings			Type 3 -	· (E)	Ç	Type 4 -	
(0			Type 5 -	· (F)		Type 4 -	(1)
Load Huggers	On Pl	I	EE1101NF EE1102NF	1 2	1,000 2,000	800 1,600	2,000 4,000
		,		2	2,000	1,000	1,000
Tow Products	Tw	/0	EE2101NF	1	2,000	1,600	4,000
	Pl	У	EE2102NF	2	4,000	3,200	8,000
Lift-All Hoists		I			ту	/pe 5	
Hoist Rings					0.000	1 000	4 000
Ho	On Pl	I	EN1101N EN1102N	1 2	2,000 4,000	1,600 3,200	4,000 8,000
te Ips							
Plate Clamps	Tw	I	EN2101N	1	3,900	3,100	7,800
fting vices	Pl	У	EN2102N	2	7,600	6,100	15,200
vic	<u> </u>						





WEBMASTER® 1200 SLINGS

Standard duty Webmaster 1200 is designed as an economical sling for less frequent use.

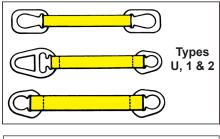
Features and Benefits

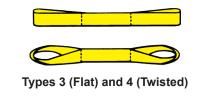
Promotes Safety

- Red core yarn warning system aids in • the inspection process.
- Proven reliablity. •
- *Tuff-Tag*[™] provides serial numbered • identification for traceability.

Saves Money

- Economical option for less frequent use.
- Yellow treatment for abrasion resistance and extended sling life.
- Tuff-Tag provides required OSHA information for the life of the sling.







Note: Types 3 and 4 slings are tapered at 3" and wider unless otherwise specified. Type 5 (Endless) slings are NOT tapered unless specified.

Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.

	Н	ARDWARE	SLINGS	,		nformation
		TYPES U,	1 & 2			nat
Ply	Webmaster 1200 Polyester	<i>Webmaster</i> 1200 Nylon	Rated	d Capacity*	(lbs.)	ion
Fiy	Part No.	Part No.	Vertical	Choker	V. Basket	S
	UU1602D	UU1602N	2,400	1,900	4,800	Slings
One	UU1603D	UU1603N	3,600	2,900	7,200	S S G
Ply	UU1604D	UU1604N	4,800	3,800	9,600	
•	TC1606D	TC1606N	7,200	5,800	14,400	S
	TT1606D	TT1606N	7,200	-	14,400	Slings
	UU2602D	UU2602N	4,800	3,800	9,600	SG
Two	UU2603D	UU2603N	6,600	5,280	13,200	
Ply	UU2604D TC2606D	UU2604N TC2606N	8,600 12,600	6,900 10,100	17,200 25,200	o ro
	TT2606D	TT2606N	12,600	10,100	25,200	rotectio
	1120000	1120001	12,000	-	23,200	Protection
	EYE	/ EYE (TYP	ES 3 & 4	1)**		
_	EE1601DF	EE1601NF	1,200	950	2,400	Rope
One	EE1602DF	EE1602NF	2,400	1,900	4,800	pe
Ply	EE1603DF	EE1603NF	3,600	2,900	7,200	
	EE1604DF	EE1604NF EE1606NF	4,800	3,800	9,600	
	EE1606DF		7,200	5,800	14,400	Slin
	EE2601DF	EE2601NF	2,400	1,900	4,800	Slings
Two	EE2602DF	EE2602NF	4,800	3,800	9,600	
Ply	EE2603DF EE2604DF	EE2603NF EE2604NF	6,600 8,600	5,280 6.900	13,200 17,200	문
	EE2606DF	EE2606NF	12,300	9,840	24,600	Ird
	EE3601DF	EE3601NF	3,500	2,800	7,000	Hardware
	EE3602DF	EE3602NF	7,000	5,600	14,000	-Ge
Three	EE3603DF	EE3603NF	9,400	7,500	18,800	
Ply	EE3604DF	EE3604NF	12,000	9,600	24,000	
	EE3606DF	EE3606NF	18,000	14,400	36,000	Slings
	EE4601DF	EE4601NF	4,200	3,400	8,400	
Four	EE4602DF	EE4602NF	8,000	6,400	16,000	문
Ply	EE4603DF	EE4603NF	12,000	9,600	24,000	361
,	EE4604DF	EE4604NF	16,000	12,800	32,000	Huggers
	EE4606DF	EE4606NF	23,500	18,800	47,000	
Replac		I IWISLEU EVES.				
Replac		•	TYPE 5)			nodu
Replac	E	ENDLESS (1	,	1.900	4.800	Products
	EN1601D	ENDLESS (T	2,400 4,800	1,900 3,800	4,800 9,600	roducts
One	E	ENDLESS (1	2,400	1,900 3,800 5,200	4,800 9,600 13,000	ស
	EN1601D EN1602D	ENDLESS (EN1601N EN1602N	2,400 4,800	3,800	9,600	ស
One	EN1601D EN1602D EN1603D	ENDLESS (EN1601N EN1602N EN1603N	2,400 4,800 6,500	3,800 5,200	9,600 13,000	ស
One	EN1601D EN1602D EN1603D EN1604D	ENDLESS (EN1601N EN1602N EN1603N EN1604N	2,400 4,800 6,500 8,600	3,800 5,200 6,900	9,600 13,000 17,200	ស
One Ply	EN1601D EN1602D EN1603D EN1604D EN1606D EN2601D EN2602D	ENDLESS (EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N	2,400 4,800 6,500 8,600 12,200 4,800 9,600	3,800 5,200 6,900 9,800 3,800 7,700	9,600 13,000 17,200 24,400 9,600 19,200	ts Hoists
One Ply Two	EN1601D EN1602D EN1603D EN1604D EN1606D EN2601D EN2602D EN2603D	ENDLESS (1 EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2603N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700	3,800 5,200 6,900 9,800 3,800 7,700 9,400	9,600 13,000 17,200 24,400 9,600 19,200 23,400	ts Hoists
One Ply	EN1601D EN1602D EN1603D EN1604D EN1606D EN2601D EN2602D EN2603D EN2604D	ENDLESS (1 EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2603N EN2604N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500	3,800 5,200 6,900 9,800 3,800 7,700 9,400 12,400	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000	ts Hoists
One Ply Two	EN1601D EN1602D EN1603D EN1604D EN1606D EN2601D EN2602D EN2603D EN2604D EN2606D	ENDLESS (EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2603N EN2604N EN2606N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500 22,500	3,800 5,200 6,900 9,800 3,800 7,700 9,400 12,400 18,000	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000 45,000	ts Hoists Rings
One Ply Two	EN1601D EN1602D EN1603D EN1604D EN1606D EN2601D EN2602D EN2603D EN2604D EN2606D EN3601D	ENDLESS (EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2603N EN2604N EN2606N EN3601N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500 22,500 6,200	3,800 5,200 6,900 9,800 7,700 9,400 12,400 18,000 4,900	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000 45,000 12,400	ts Hoists Rings
One Ply Two Ply	EN1601D EN1602D EN1603D EN1604D EN1606D EN2601D EN2602D EN2603D EN2604D EN2606D EN3601D EN3601D EN3602D	ENDLESS (EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2604N EN2606N EN3601N EN3602N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500 22,500 6,200 12,500	3,800 5,200 6,900 9,800 7,700 9,400 12,400 18,000 4,900 10,000	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000 45,000 12,400 25,000	ts Hoists Rings
One Ply Two Ply	EN1601D EN1602D EN1603D EN1604D EN1606D EN2601D EN2602D EN2603D EN2604D EN2606D EN3601D EN3602D EN3603D	ENDLESS (1 EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2604N EN2606N EN3601N EN3602N EN3603N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500 22,500 6,200 12,500 16,300	3,800 5,200 6,900 9,800 7,700 9,400 12,400 18,000 4,900 10,000 13,000	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000 45,000 12,400 25,000 32,600	ts Hoists
One Ply Two Ply	EN1601D EN1602D EN1603D EN1604D EN1606D EN2601D EN2603D EN2604D EN2606D EN3601D EN3602D EN3603D EN3603D EN3604D	ENDLESS (1 EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2604N EN2606N EN3601N EN3602N EN3603N EN3603N EN3604N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500 22,500 6,200 12,500 16,300 20,600	3,800 5,200 6,900 9,800 7,700 9,400 12,400 18,000 4,900 10,000 13,000 16,400	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000 45,000 12,400 25,000 32,600 41,200	ts Hoists Rings Clamps
One Ply Two Ply	EN1601D EN1602D EN1603D EN1604D EN1604D EN2601D EN2602D EN2604D EN2606D EN3601D EN3602D EN3603D EN3604D EN3604D EN3606D	ENDLESS (1 EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2606N EN3601N EN3602N EN3603N EN3604N EN3604N EN3606N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500 22,500 6,200 12,500 16,300 20,600 29,300	3,800 5,200 6,900 9,800 3,800 7,700 9,400 12,400 18,000 4,900 10,000 13,000 16,400 23,400	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000 45,000 12,400 25,000 32,600 41,200 58,600	ts Hoists Rings Clamps
One Ply Two Ply Fhree Ply	EN1601D EN1602D EN1603D EN1604D EN1604D EN2601D EN2602D EN2603D EN2606D EN3601D EN3602D EN3603D EN3604D EN3604D EN3606D EN3606D	ENDLESS (1 EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2604N EN2606N EN3601N EN3602N EN3603N EN3604N EN3606N EN3606N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500 22,500 6,200 12,500 16,300 20,600 29,300 7,700	3,800 5,200 6,900 9,800 3,800 7,700 9,400 12,400 18,000 4,900 10,000 13,000 16,400 23,400 6,200	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000 45,000 12,400 25,000 32,600 41,200 58,600 15,400	ts Hoists Rings Clamps
One Ply Two Ply Three Ply Four	EN1601D EN1602D EN1603D EN1604D EN1604D EN2601D EN2602D EN2603D EN2604D EN3601D EN3602D EN3603D EN3604D EN3604D EN3606D EN4601D EN4602D	ENDLESS (1 EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2604N EN2606N EN3601N EN3602N EN3603N EN3604N EN3606N EN3606N EN4601N EN4602N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500 22,500 6,200 12,500 6,200 12,500 16,300 20,600 29,300 7,700 15,500	3,800 5,200 6,900 9,800 3,800 7,700 9,400 12,400 18,000 4,900 10,000 13,000 16,400 23,400 6,200 12,400	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000 45,000 12,400 25,000 32,600 41,200 58,600 15,400 31,000	ts Hoists Rings
One Ply Two Ply Fhree Ply	EN1601D EN1602D EN1603D EN1604D EN1604D EN2601D EN2602D EN2603D EN2606D EN3601D EN3602D EN3603D EN3604D EN3604D EN3606D EN3606D	ENDLESS (1 EN1601N EN1602N EN1603N EN1604N EN1606N EN2601N EN2602N EN2604N EN2606N EN3601N EN3602N EN3603N EN3604N EN3606N EN3606N	2,400 4,800 6,500 8,600 12,200 4,800 9,600 11,700 15,500 22,500 6,200 12,500 16,300 20,600 29,300 7,700	3,800 5,200 6,900 9,800 3,800 7,700 9,400 12,400 18,000 4,900 10,000 13,000 16,400 23,400 6,200	9,600 13,000 17,200 24,400 9,600 19,200 23,400 31,000 45,000 12,400 25,000 32,600 41,200 58,600 15,400	ts Hoists Rings Clamps



REVERSE EYE SLINGS

The Reverse Eye Sling is engineered with reinforcing panels on both sides of the sling. It is the most rugged and versatile of all web slings. The sling incorporates premium wear-resistant material for protection on all surfaces.

Features and Benefits

Promotes Safety

- Superior choke hitch performance grips load security.
- Reinforced eyes improve strength.
- The red core yarn warning system aids in the inspection process.
- *Tuff-Tag*[™] provides serial numbered identification for traceability.

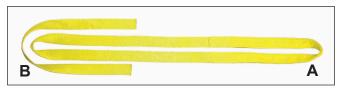
Saves Money

- An additional wear-resistant layer offers superior abrasion resistance.
- Reversible eyes reduce wear and increase sling life.
- Top grade slings using *Tuff-Edge[®]* webbing are armored on all four sides resulting in the toughest web sling available.

Saves Time

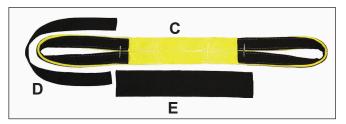
- Eyes nest well on crane hook for easy rigging.
- Flat eye construction is available to facilitate removal from under loads.

The reverse eye sling is not just an endless sling with wear pads.



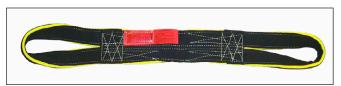
Single ply endless with reinforced eyes

- A. Extended web length makes 2-ply eyes.
- B. Reinforcing web piece sewn-on to make 2-ply eyes.



Add wear pads to both sides of body and eyes

- **C.** Single ply endless sling with butted sides.
- **D.** Texturized wear pads on both sides of eyes.
- E. Texturized wear pads sewn on both sides of body.



Completed RE sling may be a 1, 2 or 3 ply endless sling with reinforcing webbing for each loop, and texturized wear pad on each side of eyes and sling body.

He	Heavy-Duty RE Slings: Tuff-Edge III Web					Standard-Duty RE Slings <i>: Webmaster</i> ® 1200						
	Part	Rated Capacity* (Ibs.)			Sling	Sling		Part	Rateo	d Capacity	y* (lbs.)	Sling
Ply	Number	Vertical	Choker	er V. Basket (in.) (in	Width (in.)	Length (in.)	Number	Vertical	Choker	V. Basket	Thickness (in.)	
One Ply	RE1802T RE1804T RE1806T	4,500 7,700 11,000	3,600 6,200 8,800	9,000 15,400 22,000	5/16 5/16 5/16	2 4 6	9 12 15	RE1602N RE1604N RE1606N	3,600 6,800 8,000	2,900 5,400 6,400	7,200 13,600 16,000	1/4 1/4 1/4
Two Ply	RE2802T RE2804T RE2806T	6,500 13,000 20,000	5,200 10,400 16,000	13,000 26,000 40,000	1/2 1/2 1/2	2 4 6	9 12 15	RE2602N RE2604N RE2606N	5,200 10,500 14,400	4,200 8,400 11,500	10,400 21,000 28,800	3/8 3/8 3/8
Three Ply	RE3804T RE3806T	16,400 25,500	13,100 20,400	32,800 51,000	11/16 11/16	4 6	14 18	RE3604N RE3606N	14,000 20,000	11,200 16,000	28,000 40,000	1/2 1/2

Reverse Eye Slings using Webmaster 1600 webbing are available by special order.



Do not exceed rated capacities. Sling tension increases asthe angle from horizontal decreases. Slings should be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.

Web

Round Slings

Protection

Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Lift-All Hoists

Plate Clamp

Lifting Devices

¶0≷

Wire

Sling

General

Slings

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Hoist

Huggers Products

Lift-All Hoists

Plate Clamps

Lifting

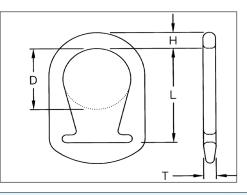
UNILINK[™] SLING HARDWARE

Unilink Web Sling Hardware

Unilinks area a forged, high carbon steel fitting that function as both a triangle and choker.

Features and Benefits

- Forged steel for strength and reliability.
- Smooth rounded profile helps protect sling, worker, and load.
- Can be re-webbed to reduce cost.
- Powder-coated finish for longer life.
- *Unilinks* cost less than triangle/choker combinations.
- Large crane hook opening speeds rigging.
- Web-Trap[™] feature keeps web aligned on hardware.
- Functions both as a triangle and a choker, allowing you to choke from either end.
- *Unilink* has the same rated capacities as TT or TC slings.



Unilink Hardware Specifications

Web		Dimensi		Weight	WLL		
Width (in.)	L	D	н	т	(in.)	(lbs.)	
2	3.69	2.0	0.69	0.56	1.1	4,000	
3	5.06	3.0	0.88	0.63	2.4	6,000	
4	6.19	4.0	1.00	0.75	4.0	8,000	

Avoid contact of hardware with load edges.

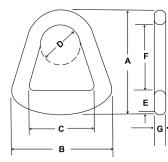
Forged Aluminum Triangles and Chokers

Aluminum is severely degraded by alkali, caustic environments, acids and salt water.

Aluminum triangles and chokers are available but may only be used with single-ply web slings within the rated capabilities shown in the table. They should not be used with *Dura-Web*[™] 2000 webbing.

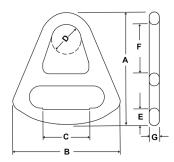
Forged form aircraft aluminum, this tough alloy is stronger than mild steel. Aluminum has the advantages of being lightweight, non-sparking and does not rust.

Note: Aluminum triangles and chokers **DO NOT** offer the advantages of the *Web-Trap* feature. Aluminum fittings are not as durable and cost more than steel.



	Forged Aluminum Triangles												
Part	Approx.												
Number	Α	В	С	D	Е	F	G	Wt. (Ibs.)	WLL				
2ALT1	4.0	3.625	2.25	1.75	0.9375	2.375	0.5625	0.31	3360				
3ALT1	5.25	5.0	3.25	2.0	1.1875	3.3125	0.625	0.75	5000				
4ALT1	6.25	6.625	4.375	2.375	1.4375	4.0	0.6875	1.1	6700				
6ALT1	8.3125	8.875	6.375	3.125	1.75	5.50	0.9375	2.7	9700				

	Forged Aluminum Chokers													
Part	Approx.													
Number	Α	В	Wt. (Ibs.)	WLL										
2ALC1	6.125	5.25	2.125	1.75	0.9375	2.375	0.5625	0.73	3360					
3ALC1	7.5	7.125	3.125	2.0	1.125	3.3125	0.625	1.3	5000					
4ALC1	8.75	8.75	4.125	2.375	1.4375	4.0	0.6875	1.9	6700					
6ALC1	11.3125	11.75	6.125	3.125	1.75	5.50	0.9375	5.1	9700					



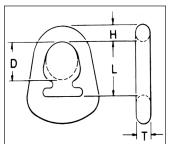


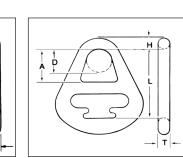
WEB SLING HARDWARE

WEB-TRAP[™] STEEL SLING HARDWARE - TRIANGLES & CHOKERS

A significant improvement in triangle/choker design, Web-Trap fittings feature positive web capture to eliminate web slippage. These fittings are manufactured from alloy steel for lighter sling weight and a powder-coated finish to inhibit rust.









Webbing can slip with ordinary fittings.

L

2.38

3.44

4.13

5.56

Web

Web-Trap locks webbing to center of hardware.

	ALLOY STEEL FOR 1-PLY & 2-PLY SLINGS										
eb-Trap Triangles							Web-	<i>Trap</i> Ch	okers		
Dimensi	ons (in.)		Weight		Web Dimensions (in.)				Weight		
D	т	н	(lbs.)		Width	L	Α	D	т	н	(lbs.)
1.75	.56	0.63	1.0		*2"	5.00	2.44	1.75	.56	0.69	1.9
2.00	.50	0.75	1.9		*3"	6.25	3.38	2.00	.50	0.75	3.6
2.38	.50	0.81	2.8		*4"	7.00	4.00	2.38	.50	0.81	5.1
3.13	.50	1.06	6.3		6"	8.88	4.75	3.13	.50	1.06	12
tting - triar	ale and ch	okers avai	lable on sp	ecial ord	er only.						

* Unilink is standard fitting

			ALLC	DY STE						
Web-Trap Triangles										
	Weight									
L	D	т	н	(lbs.)						
6.50	4.0	.50	1.25	8						
8.25	5.0	.75	1.44	16						
8.75	5.5	.75	1.75	20						
	L 6.50 8.25	Dimensi L D 6.50 4.0 8.25 5.0	Dimensions (in.) L D T 6.50 4.0 .50 8.25 5.0 .75	Web-Trap Triangles Dimensions (in.) L D T H 6.50 4.0 .50 1.25 8.25 5.0 .75 1.44						

EL FOR 1-PLY SLINGS

	Web-Trap Chokers									
Web		Weight								
Width	L	Α	D	Т	н	(lbs.)				
8"	11.25	7.50	4.00	.50	1.44	16				
10"	12.88	8.25	5.00	.75	1.50	28				
12"	14.50 10.0 5.50 .75 1.75 40									

ALLOY STEEL FOR 2-PLY SLINGS

Web-Trap Triangles										
Web Width		Weight								
	L	D	т	н	(lbs.)					
8"	6.50	4.0	.75	1.25	12					
10"	8.25	5.0	1.0	1.438	21					
12"	8.75	5.5	1.0	1.75	27					

	Web-Trap Chokers									
Web		Weight								
Width	L	Α	D	т	н	(lbs.)				
8"	11.25	7.50	4.0	.75	1.438	25				
10"	12.88	8.25	5.0	1.0	1.50	38				
12"	14.50	14.50 10.0 5.50 1.0 1.75 54								

Web Width

*2"

*3"

*4"

6"

Hoists Lift-All

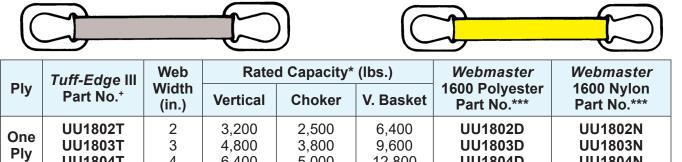
Hoist

Plate Clamps

Devices Lifting

TUFF-EDGE® & WEBMASTER® 1600 POLYESTER SLINGS

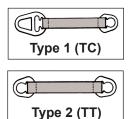
TYPE U - UNILINK[™] HARDWARE SLINGS

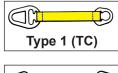


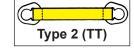
UU1804T 4 6,400 5.000 12,800 UU1804D UU1804N UU2802T 2 6,400 5.000 12,800 UU2802D **UU2802N** Two UU2803T 3 8,800 7,040 17,600 UU2803D UU2803N Ply UU2804T 11.500 9.200 UU2804D UU2804N 4 23.000

*Replace the UU with TT or TC in part number above if Type 1 or Type 2 is required.

TYPE 1 (TC) & TYPE 2 (TT) WEB-TRAP[™] HARDWARE SLINGS







Ply		<i>Tuff-Edge</i> III Part No.		Rated Capacity* (lbs.)			<i>Webmaster</i> 1600 Polyester Part No.***		<i>Webmaster</i> 1600 Nylon Part No.***	
	Type 1	Туре 2**	(in.)	Vertical	Choker	V. Basket	Type 1	Туре 2**	Type 1	Туре 2**
	TC1806T	TT1806T	6	9,600	7,700	19,200	TC1806D	TT1806D	TC1806N	TT1806N
	TC1808T	TT1808T	8	12,800	10,200	25,600	TC1808D	TT1808D	TC1808N	TT1808N
One Ply	TC1810T	TT1810T	10	16,000	12,800	32,000	TC1810D	TT1810D	TC1810N	TT1810N
	TC1812T	TT1812T	12	19,200	15,400	38,400	TC1812D	TT1812D	TC1812N	TT1812N
	TC1816T	TT1816T	16	25,500	20,400	51,000	TC1816D	TT1816D	TC1816N	TT1816N
	TC2806T	TT2806T	6	16,800	13,400	33,600	TC2806D	TT2806D	TC2806N	TT2806N
-	TC2808T	TT2808T	8	22,400	17,900	44,800	TC2808D	TT2808D	TC2808N	TT2808N
Two Ply	TC2810T	TT2810T	10	28,000	22,400	56,000	TC2810D	TT2810D	TC2810N	TT2810N
	TC2812T	TT2812T	12	33,600	26,800	67,200	TC2812D	TT2812D	TC2812N	TT2812N
	TC2816T	TT2816T	16	44,800	35,800	89,600	TC2816D	TT2816D	TC2816N	TT2816N

** Type 2 (TT) cannot be used in a choker hitch.

*** To order aluminum hardware, single ply 2" - 6" only, add A after TC or TT.

Custom configurations available.



Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. **Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.**



General



SYNTHETIC WEB BRIDLE SLINGS

Bridle Slings are useful when fixed lifting points are available

Features and Benefits

Promotes Safety

- *Tuff-Edge*[®] III web material is standard; helps prevent sling damage.
- Better load control and balance by using fixed connection points and multiple legs.
- Standard oblong links and hooks are forged from alloy steel for strength and reliability.
- Red core yarn warning system aids in the inspection process.
- Use of hardware prevents cutting and abrasion of sling at bearing points.
- *Tuff-Tag*[™] provides serial numbered identification for traceability.
- Proven reliability.
- Wide widths available up to 12".

Saves Time

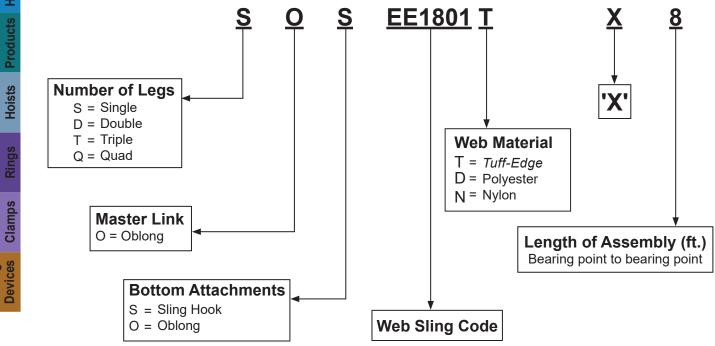
- Lighter weight and easier to use than chain or wire rope.
- Sling hooks quickly connect to loads having hoist rings or eye bolts.

Saves Money

- Soft web sling legs protect load.
- Endless configuration allows shifting of wear points.
- *Tuff-Edge* III material extends sling life.
- Sling hooks and links can be re-webbed.
- *Tuff-Tag* provides required OSHA information for the life of the sling.
- Tapered eyes for better sling leg equalization, standard for 2" or wider.



HOW TO ORDER WEB BRIDLE SLINGS



Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

To⊌

Lift-All

Hoist

Plate

Lifting



General

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Huggers Products

Lift-All Hoists

Plate Clamps

Lifting Devices



				We	b Bri	dle S	Sling	S			
Part No. For Web	Web	Web	Number	Rated Capacity* (lbs.)						Alloy Sling Hook	Oblong Link
Sling Legs	Width (in.)	Plies	of Legs	Vertical	Choker	Basket	60°	45°	30°	Size	Dia. (in.)
	1	1	Single	1,600	1,280	3,200	_	—	_	1-Ton Alloy	1/2
EE1801*	1	1	Double	_	_	_	2,700	2,200	1,600	1-Ton Alloy	1/2
LEIOUI	1	1	Triple	_	_	_	4,100	3,300	2,400	1-Ton Alloy	3/4
	1	1	Quad	_	_	_	5,500	4,500	3,200	1-Ton Alloy	1
EE2801*	1	2	Single	3,000	2,400	6,000	-	-	-	1-1/2 Ton Alloy	1/2
	1	2	Double	_	-	-	5,100	4,200	3,000	1-1/2 Ton Alloy	1/2
	1	2	Triple	-	-	-	7,700	6,300	4,500	1-1/2 Ton Alloy	3/4
	1	2	Quad	-	-	-	10,300	8,400	6,000	1-1/2 Ton Alloy	1
	2	1	Single	3,000	2,400	6,000	_	-	-	1-1/2 Ton Alloy	1/2
EE1802*	2	1	Double	_	-	_	5,100	4,200	3,000	1-1/2 Ton Alloy	1/2
EETOUZ	2	1	Triple	_	-	_	7,700	6,300	4,500	1-1/2 Ton Alloy	3/4
	2	1	Quad	-	-	-	10,300	8,400	6,000	1-1/2 Ton Alloy	1
	2	2	Single	6,000	4,800	12,000	-	-	-	3-Ton Alloy	3/4
EE2802*	2	2	Double	-	_	-	10,300	8,400	6,000	3-Ton Alloy	1
EEZOUZ	2	2	Triple	-	_	_	15,500	12,700	9,000	3-Ton Alloy	1
	2	2	Quad	-	_	_	20,700	16,900	12,000	3-Ton Alloy	1-1/4

Note: Hardware capacities correspond to the appropriate sling capacities. See hardware dimensions in Rigging Hardware section in this catalog. Import hooks with latches are standard. Contact *Lift-All* for domestic hook and latch options.



Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.



WIDE-LIFT SLINGS

Lift-All Wide-Lift slings support the load over a wide area to offer better balance – whether heavy or light. The wide bearing area reduces marring of soft load surfaces. Stiffeners at the base of the eyes deter the body webbing from folding down the middle. Wide-Lift slings are for use in a basket hitch only. The standard web material is Webmaster® 1600 nylon; polyester is available upon request.

Features and Benefits

Promotes Safety

- Red core yarn warning system aids in the inspection process.
- *Tuff-Tag*[™] provides serial numbered identification for traceability.
- Improved load stabilization.

Saves Money

- Wide bearing area reduces marring of soft load surfaces.
- Yellow treatment for abrasion resistance and extended sling life.
- Tuff-Tag provides required OSHA information for the life of the sling.



ATTACHED EYE WIDE-LIFT

CONTINUOUS EYE WIDE-LIFT



For Heavy Loads - Constructed from one endless sling with the two body lengths butted and joined side by side.

For Light Loads

Ply	Body Width (in.)	Part Number	Rated Capacity* Vertical Basket (Ibs.)	Eye Length (in.)	Minimum Sling Length (in.)	Ply	Body Width (in.)	Part Number	Rated Capacity* Vertical Basket (Ibs.)	Eye Length (in.)	Minimum Sling Length (in.)
	6	WLA1806N	5,000	6	42		6	WL1806N	15,400	9	40
	8	WLA1808N	5,000	8	46		8	WL1808N	20,400	12	45
One	10	WLA1810N	5,000	10	52		10	WL1810N	25,500	15	54
Ply	12	WLA1812N	5,000	12	56	One Ply	12	WL1812N	30,800	18	60
Eye	16	WLA1816N	10,000	14	58		16	WL1816N	38,000	24	72
_,.	20	WLA1820N	10,000	16	62		20	WL1820N	45,000	30	88
	24	WLA1824N	10,000	20	72		24	WL1824N	52,000	36	100
							30	WL1830N	45,000	45	120
	6	WLA2806N	10,000	10	50		36	WL1836N	45,000	54	144
	8	WLA2808N	10,000	10	50		6	WL2806N	28,600	9	40
	10	WLA2810N	10,000	12	54		8	WL2808N	38,000	12	45
Two	12	WLA2812N	10,000	12	56	_	12	WL2812N	57,200	18	60
Ply	16	WLA2816N	18,000	12	56	Two	16	WL2816N	75,000	24	72
Eye	20	WLA2820N	18,000	18	68	Ply	20	WL2820N	90,000	30	88
-	24 30	WLA2824N WLA2830N	18,000	18 22	72 74		24	WL2824N	110,000	36	100
	30	WLA2830N WLA2836N	18,000 18,000	22	74 84	-	30	WL2830N	90,000	45	120
	48	WLA2030N	18,000	36	04 102		36	WL2836N	90,000	54	144

Note:

Â

1. Never use Wide-Lift slings in a choker hitch.

WARNING

2. Tuff-Edge® III may be used for the attached eyes.

3. Custom slings with higher capacities are available. 4.

Tuflex[®] slings can also be designed in a Wide-Lift configuration. See specialty roundslings section.

Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.

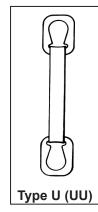
Web

Slings Round

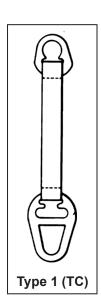
Lifting



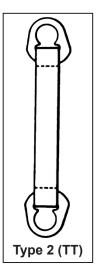
WEB SLING WEIGHTS*



Part Number		imum d Length	Additional Foot					
Number	ft.	wt.** (lbs.)	wt. (lbs.)					
UNILINK™								
UU1802	3	2.70	0.12					
UU1803	3	5.60	0.18					
UU1804	4	9.20	0.24					
UU2802	3	2.90	0.25					
UU2803	3	5.80	0.38					
UU2804	3	9.20	0.50					



T	RIANGL	<u>E / CHOK</u>	ER
TC1802	3	3.50	0.12
TC1803	3	6.30	0.18
TC1804	4	9.00	0.24
TC1806	4	21.00	0.36
TC1808	5	27.00	0.48
TC1810	5	48.00	0.60
TC1812	6	65.00	0.72
TC2802	3	3.60	0.25
TC2803	3	6.50	0.38
TC2804	3	9.10	0.50
TC2806	4	21.00	.76
TC2808	4	39.00	1.00
TC2810	5	63.00	1.30
TC2812	5	86.00	1.50



TF	TRIANGLE / TRIANGLE									
TT1802	3	2.60	0.12							
TT1803	3	4.60	0.18							
TT1804	3	6.70	0.24							
TT1806	4	15.00	0.36							
TT1808	5	19.00	0.48							
TT1810	5	36.00	0.60							
TT1812	5	44.00	0.72							
TT2802	3	2.70	0.25							
TT2803	3	4.80	0.38							
TT2804	3	7.00	0.50							
TT2806	3	15.00	0.76							
TT2808	4	28.00	1.00							
TT2810	4	46.00	1.30							
TT2812	5	60.00	1.50							

* Weights will vary. Published weights are average weights for *Webmaster*[®] 1600 slings. ** Approximate weight for the minimum standard length as shown.





WEB SLING WEIGHTS*



Roun	Sling
5	tion

o o

e Protect

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Tow Products

Lift-All Hoists

Hoist Rings

Lifting Plate Devices Clamps

EE4804

EE4806

EE4808

EE4810

EE4812

5

6

7

7

7

16

18

24

24

24

Type	3 -	Flat	Eye	

Type 4 - Twisted Eye

EYE / EYE Minimum Standard Length Additional Part **Foot Weight** Sling Length (ft.) Eye Length (in.) Wt.** Number (lbs.) (lbs.) EE1801 3 8.5 0.40 0.06 EE1802 3 10 0.90 0.12 EE1803 4 11 1.40 0.18 EE1804 4 12 1.90 0.24 EE1806 5 16 3.40 0.36 EE1808 6 20 5.30 0.48 EE1810 7 24 8.00 0.60 EE1812 7 24 9.80 0.72 EE2801 3 7 0.40 0.13 EE2802 3 7 0.90 0.25 EE2803 4 11 1.70 0.38 EE2804 4 12 2.30 0.50 5 EE2806 16 4.90 0.76 EE2808 6 20 6.50 1.00 EE2810 6 24 9.40 1.30 EE2812 7 24 13.0 1.50 4 EE3801 10 1.00 0.20 4 12 EE3802 2.10 0.40 5 3.70 EE3803 14 0.59 EE3804 5 5.00 0.79 16 6 7.60 1.20 EE3806 18 EE3808 7 24 13.00 1.60 7 24 2.00 EE3810 16.00 EE3812 7 24 20.00 2.40 EE4801 4 10 1.10 0.26 EE4802 4 12 2.20 0.53 5 14 4.10 0.79 EE4803



Type 5

ENDLESS					
Part Number	Mi Standa	Additional			
	Sling Length (ft.)	Wt.** (Ibs.)	Foot Weight (Ibs.)		
EN1801	3	0.40	0.12		
EN1802	3	0.80	0.24		
EN1803	3	1.30	0.36		
EN1804	3	1.70	0.48		
EN1806	3	2.50	0.72		
EN1808	3	3.40	0.96		
EN1810	3	4.20	1.20		
EN1812	3	5.00	1.40		
EN2801	3	0.80	0.25		
EN2802	3	1.60	0.50		
EN2803	3	2.50	0.76		
EN2804	3	3.30	1.00		
EN2806	3	4.90	1.50		
EN2808	3	6.60	2.00		
EN2810	3	8.20	2.50		
EN2812	3	9.90	3.00		
EN3801	3	1.20	0.38		
EN3802	3	2.40	0.76		
EN3803	3	3.60	1.10		
EN3804	3	4.80	1.50		
EN3806	3	7.20	2.30		
EN3808	3	9.60	3.00		
EN3810	3	12.00	3.80		
EN3812	3	14.00	4.50		
EN4801	3	1.60	0.52		
EN4802	3	3.20	1.00		
EN4803	3	4.90	1.60		
EN4804	3	6.50	2.10		
EN4806	3	9.70	3.10		
EN4808	3	13.00	4.20		
EN4810	3	16.00	5.20		
EN4812	3	19.00	6.20		

* Weights will vary. Published weights are average weights for Webmaster® 1600 slings.

1.10

1.60

2.10

2.60

** Approximate weight for the minimum standard length as shown.

5.50

8.30

15.00

19.00

23.00

Web Slings

WEB SLING WEIGHTS*



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iftAll

ATTACI	HED EYE W	IDE-LIFT
Part Number	10-ft. Sling Weight (Ibs.)	Additional Foot Weight (Ibs.)
WLA1806	3.80	0.36
WLA1808	4.80	0.48
WLA1810	5.60	0.60
WLA1812	6.20	0.72
WLA1816	9.50	1.10
WLA1820	12.00	1.30
WLA1824	14.00	1.60
WLA2806	4.20	0.36
WLA2808	5.40	0.48
WLA2812	7.40	0.72
WLA2816	12.00	1.10
WLA2820	15.00	1.30
WLA2824	16.00	1.60
WLA2830	17.00	2.00
WLA2836	17.00	2.40
WLA2848	20.00	3.20

CONTIN	UOUS EYE	WIDE-LIFT
Part Number	10-ft. Sling Weight (Ibs.)	Additional Foot Weight (lbs.)
WL1806	5.80	0.54
WL1808	7.10	0.66
WL1810	8.40	0.78
WL1812	9.70	0.90
WL1816	12.00	1.10
WL1820	15.00	1.40
WL1824	17.00	1.60
WL1830	23.00	2.20
WL1836	27.00	2.50
WL2806	9.40	0.90
WL2808	12.00	1.10
WL2812	17.00	1.60
WL2816	22.00	2.10
WL2820	27.00	2.60
WL2824	31.00	3.00
WL2830	41.00	4.00
WL2836	48.00	4.60

* Weights will vary. Published weights are average weights using Webmaster® 1600 webbing.

Round Sling Slings Protection

Rope Wire

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting Devices

Huggers Products





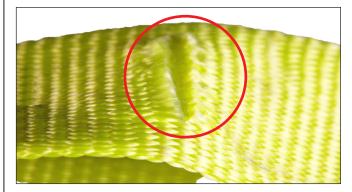
INSPECTION CRITERIA FOR WEB SLINGS

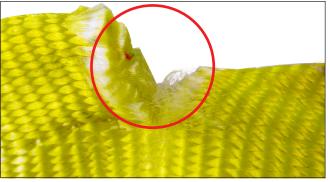
The following photos illustrate some of the common damage that occurs to web slings, indicating that the sling should be taken out of service. For inspection frequency requirements, see the General Information section of this catalog and the safety bulletin provided with each sling.

SURFACE AND EDGE CUTS

WHAT TO LOOK FOR: Broken fibers of equal length indicate that the sling has been cut by an edge. Red core warning yarns may or may not be visible and are not required to show before removing slings from service. It is important to realize that all of the fibers in web slings contribute to the strength of that sling.

TO PREVENT: Always protect synthetic slings from being cut by corners and edges by using cut protection. See the Sling Protection section in this catalog.

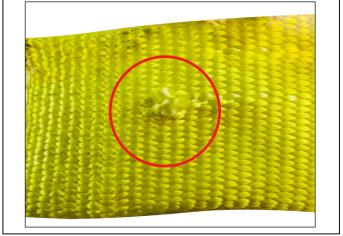




HOLES, SNAGS & PULLS

WHAT TO LOOK FOR: Punctures or areas where fibers stand out from the rest of the sling surface.

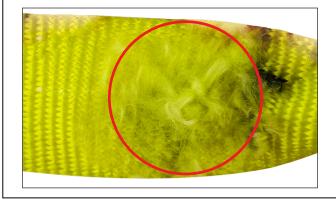
TO PREVENT: Avoid sling contact with protrusions, both during lifts and while transporting or storing. See the Sling Protection section in this catalog.



ABRASIVE WEAR

WHAT TO LOOK FOR: Areas of the sling that look and feel **fuzzy** indicate that the fibers have been broken due to contact and movement against a rough surface. Affected areas are usually stained.

TO PREVENT: Never drag slings along the ground. Never pull slings from under loads that are resting on the sling. Use wear pads between slings and rough surface loads. See the Sling Protection section in this catalog.



Web

Round Slings

Protection

Sling

Wire Rope

Chain Slings

Tow

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting Devices

Inspection Criteria

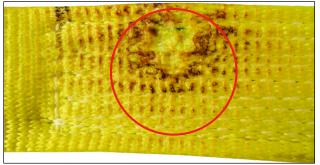
INSPECTION CRITERIA FOR WEB SLINGS

HEAT / CHEMICAL

WHAT TO LOOK FOR: Melted or charred fibers

anywhere along the sling. Heat and chemical damage can look similar and they both have the effect of damaging sling fibers and compromising the sling's strength. Look for discoloration and/or fibers that have been fused together and often feel hard or crunchy.

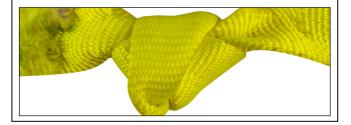
TO PREVENT: Never use nylon or polyester slings where they can be exposed to temperatures in excess of 200°F. Never use nylon or polyester slings in or around chemicals without confirming that the sling material is compatible with the chemicals being used.



KNOTS

WHAT TO LOOK FOR: Knots are rather obvious problems as shown below. Knots compromise the strength of slings by not allowing all fibers to contribute to the lift as designed. Knots may reduce sling strength by up to 50%.

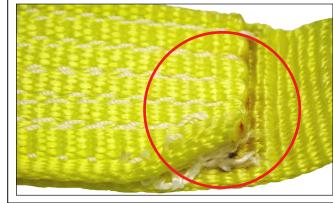
TO PREVENT: Never tie knots in slings and never use slings that are knotted.



BROKEN / WORN STITCHING

WHAT TO LOOK FOR: Loose or broken threads in the main stitch patterns. The stitch patterns in web slings have been engineered to produce the most strength out of the webbing. If the stitching is not fully intact, the strength of the sling may be affected.

TO PREVENT: Never pull slings from beneath loads where stitch patterns can get hung up or snagged. Never overload the slings or allow the load edge to directly contact the stitch pattern while lifting. Never place a sling eye over a hook or other attachment whose width/diameter exceeds 1/3 of the eye length.



ILLEGIBLE OR MISSING TAGS

WHAT TO LOOK FOR: If you cannot find or read all of the information on a sling tag, OSHA requires that the sling shall be taken out of service.

TO PREVENT: Never set loads down on top of slings or pull sling from beneath loads if there is any resistance. Load edges should never contact sling tags during the lift. Avoid paint or chemical contact with tags.

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	CIP.	A A A A A A A A A A A A A A A A A A A	THE SOL STREET

Red Core Yarns are an additional aid to warn of dangerous sling damage. All standard Lift-All Web Slings have this warning feature. The red core yarns become exposed when the sling surface is cut or worn through the woven face yarns. When red yarns are visible, the sling should be removed from service immediately. For other inspection criteria see OSHA/Manufacturer regulations in the General Information section of this catalog and the safety bulletin provided with each sling.

Lift-Al

Devices Lifting

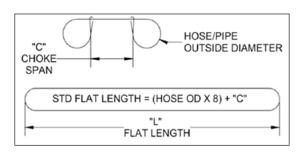


HOSE HALTERS[™]

Help protect your workers from injury and your equipment from damage

When pipe or hose couplings fail under pressure, Lift-All Hose Halters minimize thrashing to reduce equipment damage and personal injury. Suitable for use on pneumatic, water, and hydraulic pipes and hoses, these easy to install straps are made from strong, flexible nylon webbing. Slide the rubber grommets to keep choked eyes snug on the hose. The standard lengths will accommodate pipes and hoses with inside diameters of 1/4" up to 6". Meets both OSHA and Canada OHS requirements for restraining devices on pipe and hose connections.

Available in Four Different Strengths DLiftAll

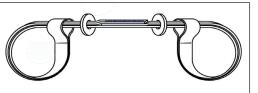


Hose Halter Selection and Use

When securing hoses and pipe connections, do not exceed the specified pressure ratings.

The length of Hose Halters are ordered as a flat length based on a value equal to 8 times the hose outside diameter (OD), plus the desired span or gap between the choke points and rounded up to standard sizes shown below.

	Re	commen	ded for	Use on t	the Follo	owing Pi	pe and	Hose Ir	side Di	ameters	5
	Part	Length	Color	1/4"	1/2"	3/4"	1"	2"	3"	4"	6"
	Number	(in.)	00101	Hose	Maximu	ım Intern	al Press	ure (PS	I) at abc	ve hose	I.D.
. 20	HH122*	22"									
HH430	HH130	30"									
	HH140	40"	0	26,000	6,500	2,900	1,650	400	175	100	50
	HH144	44"	R								
	HH164	64"	A N								
	HH230*	30"	G								
OSHA	HH244	44"	E	52,000	12 000	5,800	2 200	750	350	200	90
6.603(a)(10)	HH264	64"		52,000	13,000	5,600	3,300	750	300	200	90
states:	HH274	74"									
aina ar aguivalant	HH330*	30"	Y								
ains, or equivalent hall be provided	HH344	44"	Ē	n/a	29,000	13,000	7,300	1,800	820	460	200
ose connection to	HH364	64"	L								
line from thrashing	HH430*	30"	L								
case the coupling	HH444	44"	0	n/a	37,000	16,000	9,400	2,300	1,040	580	260
s disconnected"	HH464	64"	W								
	*Minimum L	ength									





Information

Slings Web

General

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General

Slings

Web

Round Slings

Protection

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Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Products

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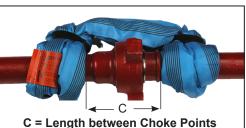
Sling

ROUNDONE[™]

The Heavy Duty Solution for Coupling Safety

Help protect your workers from injury and your equipment from damage when pipe or hose couplings fail under pressure.

RoundOne pipe and *Hose Halters*[™] offer protection for a wide range of pipe and hose sizes and pressures. Suitable for use on pneumatic, water, and hydraulic pipes and hoses. Available sizes cover inside diameters from 1/2" through 8", with pipe/ hose pressures up to 85,100 psi. Complies with OSHA, Canada OHS and Work Safe BC requirements for restraining devices on pipe and hose connections.



What size do you need?

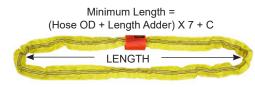
- 1. In the chart below, find the row for your pipe/hose inside diameter (ID).
- 2. Read across that row until you come to a **maximum hose pressure** that exceeds the maximum pressure that will go through your pipe/hose.
- 3. The appropriate halter part number for that assembly is at the top of that column.

PART NO	HHS3	HHS6	HHS9	HHS12	HHS15	HHS18	HHS24	HHS28	HHS36
Minimum Length	20"	20"	24"	36"	36"	36"	36"	36"	44"
Pipe/Hose ID			MAX		E / HOSE P	RESSUR	E (PSI)		
0.50"	23,500	47,900	76,000	-	-	-	-	-	-
0.75"	10,400	21,300	33,700	42,600	53,100	67,400	85,100	-	-
1"	5,800	11,900	19,000	23,900	29,800	37,900	47,800	57,400	70,100
1.5"	2,600	5,300	8,400	10,600	13,200	16,800	21,200	25,500	31,100
2"	1,470	2,900	4,700	5,900	7,400	9,400	11,900	14,300	17,500
3"	650	1,300	2,100	2,660	3,300	4,200	5,300	6,300	7,700
4"	360	740	1,180	1,490	1,860	2,370	2,900	3,500	4,300
5"	230	470	760	950	1,190	1,510	1,910	2,200	2,800
6"	160	330	520	660	820	1,050	1,320	1,500	1,940
8"	90	180	290	370	460	590	740	800	1,090
Length Adder	.3	.6	0.9	1.2	1.5	1.8	2.4	2.8	3.6

What Length Do You Need - Order Halters by the Flat Length

- 1. Order Halters by the flat length. To determine the minimum length, add the hose diameter (OD) to the length adder (per chart), then multiply by 7 and add the minimum desired length between the choke points (C).
- 2. Round up to the next even 6" increment (42", 48", 54", 60", etc.).
- Example: Your 1" ID hose carries 30,000 psi. Using the chart above, the first *Hose Halter* to exceed that rating is an HHS18. The OD of your hose is 1.5", and you want 16" between choke points. The calculation is follows:

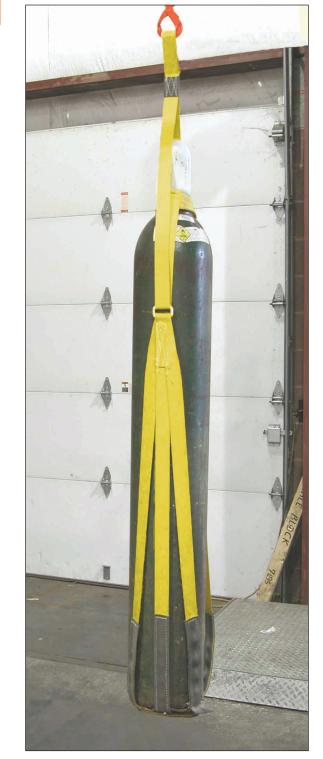
 $(1.5 + 1.8) \times 7 + 16 = 39.1$ " (rounded up to 42"). The complete part number is **HHS18X42IN.**





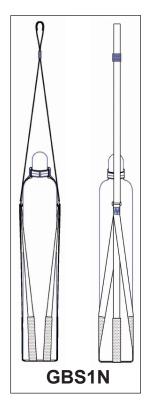
GAS BOTTLE WEB CRADLES

These specialty web cradles allow easy and secure lifting of your gas bottle cylinders into position. Two standard versions are available. **GBS1N** automatically adjusts to accommodate 9" Dia. X 50" H to 13" Dia. X 39" H bottles. **GBS2N** is designed for the convenient tandem lifting of one oxygen and one acetylene bottle as used in most welding operations. Each assembly is rated to lift 1,000-lbs.



- Leather reinforced eyes for extended life.
- Top assembly collar fits around standard valve caps to secure top of cylinder.
- Square rings connect bottom and top assemblies and allow for automatic adjustment.
- Six legs on bottom assembly surround and secure base of cylinder.
- Abrasion resistant webbing lines both sides of legs at bottom for longer life.
- 2-ply leather base provides additional protection from abrasion and cutting.

The **GBS2N** has the same construction features as the **GBS1N**, but is designed specifically to lift one each of the standard size oxygen and acetylene bottles commonly used in welding operations.





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Rigging Hardware

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Lift-All drum handling slings provide an easy, inexpensive way to handle steel drums. Available in two styles to suit your needs for handling drums in the vertical or horizontal position.

Ve	ertical Drum I	Handling Slin	gs
Part Number	Web Width (in.)	Drum Diameter (in.)	Sling Capacity (lbs.)
	STANDARD	HEAVY DUTY	
DSV602DX24IN	2	24	850
DSV602DX30IN	2	30	850
DSV602DX36IN	2	36	850
	LIGHT	DUTY	
DSV601DX24IN	1	24	300

Standard 55-gallon drum is 24" diameter. Other sizes available.

- Easily lift standing drums for transport.
- Tilt suspended drums to pour from open top or spigot.
- For use with ribbed steel drums, the ratcheting belly band tightens securely below the first rib.
- A wear pad is sewn on the inside of the lifting strap to prevent damage.
- Ratchet tightens and locks securely.
- The free end of ratchet strap is sewn to stay properly threaded.
- Vertical legs are sewn to an adjustable belly band to maintain proper position.



Horizontal Drum Handling Slings

Ideal for the quick and easy lifting of steel drums in the horizontal position.

Part number **DSH601D** uses 1" polyester sling webbing and is rated for 1,500 lbs.

- Strong 1" polyester webbing pulls drum hooks securely into rims at both ends of the drum during the lift.
- One sling fits multiple-size drums.
- Easy to hook up and disconnect.
- Uses a 1/2" diameter oblong link at the top for easy connection to hook.

Note: If used in a chemical environment, contact *Lift-All* for sling material options.



General

Slings

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Round Slings

Sling Protection

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Rigging Hardware

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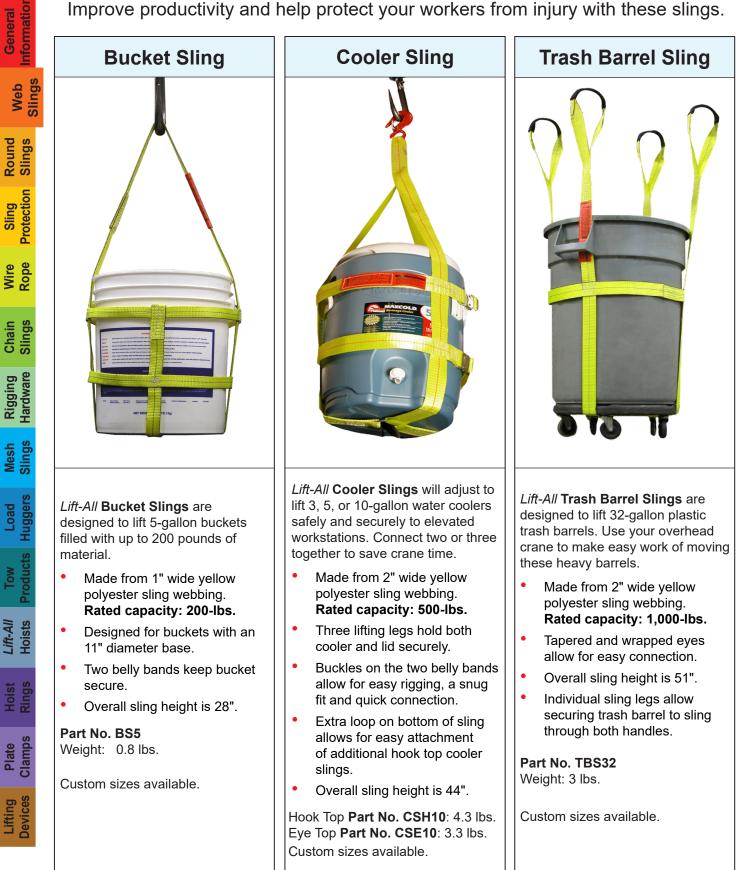
Load

Tow



BUCKET, COOLER & TRASH BARREL SLINGS

Improve productivity and help protect your workers from injury with these slings.





FORK SLEEVES

Lift-All fork sleeves protect your loads from damage caused by the sharp edges of forklift forks. These sleeves are made from heavy-duty Webmaster® 1600 polyester webbing, easy to install, and long-lasting.



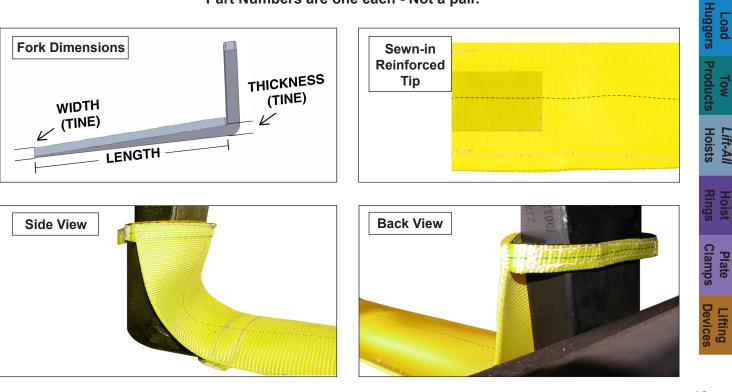
Features and Benefits

- Soft Webmaster 1600 polyester sling webbing cushions load to avoid damage.
- 12" long rear flap protects the load from vertical member of fork to avoid damage.
- Retaining straps keep sleeve on forks, saving time.
- Quick and easy to install.
- Sewn-in reinforced tip available to prolong life of sleeve, saving you money.

Sta	ndard Sleeve -	Fork Dime	nsions
Part Number*	Fork Width	Fork Length	Fork Thickness
FKSL4A	3" and 4"	48"	1.5"
FKSL5B	5"	54"	1.5" up to 2"
FKSL6D	6"	84"	1.5" up to 4"
FKSL8B	8"	84"	1.5" up to 2"

Reinforc	ed Tip Sleeve	- Fork Din	nensions
Part Number*	Fork Width	Fork Length	Fork Thickness
FKSLT4A	3" and 4"	48"	1.5"
FKSLT5B	5"	54"	1.5" up to 2"
FKSLT6D	6"	84"	1.5" up to 4"
FKSLT8B	8"	84"	1.5" up to 2"

*Part Numbers are one each - Not a pair.



Web

Round Slings

Sling Protection

Rope Wire

Chain Slings

Hardware Rigging

Mesh Slings



General

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Slina

Special Web Product



GRIPHOOK[™]

Lift-All's patent pending *GripHook* design converts your forklift into a below the fork lifting device in a matter of seconds. These should be obtained for every forklift to avoid the unsafe/disallowed practice of hanging loose slings over forks. The *GripHook* replaces older style, heavy metal attachments.

The self-gripping design allows the *GripHook* to tighten around the fork when a load is applied. The easy to attach *GripHook* does not require any tools to install.

This economical solution is made from high quality synthetic materials saving you money, without compromising lift capacity.



Patent Pending

Features And Benefits

- The *GripHook* is a lightweight alternative to metal attachments.
- Quick to install, remove and store.
- Self-gripping to the fork so there is no need to tighten attachment to the fork, saving you time.
- Turns your forklift into a hoist in a matter of seconds.
- Allows forklift to lift from the bottom of the forks.
- Quick and easy load control.
- The *GripHook* is designed with patented built-in cut protection technology.
- Sewn in the United States.
- 1-Ton and 2-Ton options available.
- A lightweight device with a multitude of uses.
- Order with optional lanyard Part Number: 60111

Part Number	Capacity	Description
GH4S-1	1-TON	GripHook w/Swivel Hook for 4" Fork
GH5S-1	1-TON	GripHook w/Swivel Hook for 5" Fork
GH6S-1	1-TON	GripHook w/Swivel Hook for 6" Fork
GH5S-2	2-TON	GripHook w/Swivel Hook for 5" Fork
GH6S-2	2-TON	GripHook w/Swivel Hook for 6" Fork
GH8S-2	2-TON	GripHook w/Swivel Hook for 8" Fork



Shown With Optional Lanyard Part Number: 60111



GLASS HANDLING SLING

Features And Benefits

- Made in various sizes to fit your specfic glass lifting application.
- Select from a variety of materials to protect glass from marring and protect the sling from sharp e-dges.
- Sold in pairs.

		PRIMARY WEB SLING	- 18		
		W. Sling Width (in.): 2 3 4	- 14		
ł		L. Sling Length (in.):			
	AW	Plies: 1 2	- 16		
		Material: Natural Polyester* Webmaster® 1600 Tuff-Edge® I	11		
		DESIGN OPTIONS			
		Cross Pieces			
		Qty: 2 3 Dimensions: A: B: C: E: F: F: F: C:			
		Eye			
		☐ Yoke: ☐Inverted Bridge* ☐Collar ☐ No Yoke ↓ F Eye Size (G): in.	Vertica	I Endles	S
		Wear Padding Material: PVC* Nylon Leather Cordura	Ply	Width (in.)	0
	│	E 1. Inside Primary: Length in.		2	
		2. Inside Cross Piece: Length in.	One	3	-
		3. Bottom Inside: Length in. D 4. Bottom Outside: Length in.	Ply	4	-
	 4	5. Eye Lining: Length in.		2	-
'	$\left[\right]$	Placement: Top Bottom Both	Two	3	-
		* Recommended Selection (As Shown) _ Note: Cross piece widths are the same material and width as the main sling. 4 - 1 - 3	Ply	4	-
		Contact Lift-All Customer Service Agents to finalize order.		4	

HYDRANT SLING

This synthetic sling is used to grasp fire hydrants in a safe and secure manner. The self-choking feature offers additional security and safety. It fits over any size discharge outlet or side valve system and is designed to lift under the valve body, not the valve stem.

Features And Benefits

- Perfect for safe handling of fire hydrants.
- Lightweight and available in two lengths; 4'-6" and 7'-6".
- Will not rust and protects the hydrant finish while lifting.
- Easy to store.
- 4,000-lb capacity.
- Part Number's **HEN60** and **HEN6076**.







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Web Slings
Round Slings
Sling Protection
Wire Rope
(A)
Chain Slings
Rigging Hardware
Rigging Hardware
Rigging Mesh Hardware Slings H
Rigging Hardware

Lift-All Hoists

Plate lamps

ifting



LIFT-ALL HULL SAVER[™] BOAT SLINGS

Polyester** web slings designed especially for use with travel lifts to lower and retrieve large boats. Features and Benefits

- 2-ply Hull Savers are the standard for improved durability and UV resistance.
- *Tuff-Tag*[™] provides required OSHA information for the life of the sling in a marine environment.
- *Lift-All* trained professionals are available for recommended seasonal inspection.
- Optional keel pad lead weights accelerate sinking to required lift depth.
- Quick disconnects are available to improve productivity.

- Low-stretch polyester webbing helps to avoid scuff damage to hulls**.
- Optional chine & keel pads protect boat and increase sling life.
- Edge guard wear resistant material available to protect sling from abrasion.



Extra eye	e offers versatility.						₩ ₩					
	Hull Saver	Width		Optional Pull Pin Shackles								
Ply	Part Number	Width (in.)	¹ Rated Capacity* (Ibs.)	Shackle Part Number	W (in.)	L (in.)	Weight (Ibs.)					
	HS2804	4	23,000	4WSH	4	3.75	3.2					
-	HS2806	6	32,600	6WSH			6.8					
Two Ply	HS2808	8	38,400	6WSHHD	C	4 75						
i iy	HS2810	10	44,800	6WSHHD	6	4.75	9.8					
	HS2812	12	48,000/53,800 ²	6WSHHD ²								

Rated capacity is the rating of one sling in a vertical basket hitch.

² De-rate sling to 48,000 when used with 6" HD Shackle (6WSHHD).

** Nylon webbing is available, but will stretch about 50% more than polyester and should not be used near acids. Polyester should not be used near caustics.

Note: Lift-All will manufacture boat slings to fill your particular needs for width, length and capacity.

Safe Operating Practices

- Inspect slings prior to each use and do not use if damaged.
- Never allow people aboard the boat while it is suspended by slings.
- Never work under or near a boat suspended by slings.
- Boats must be properly blocked and stabilized before removing slings.
- Hull Saver boat slings are capacity rated for vertical basket lifts. Do not exceed rated capacities.
- When lifting with extra eyes, direction of pull must always be away from center point of the original sling length.

Environmental Considerations

- Nylon and polyester degrade at temperatures above 200°F.
- Prolonged exposure to ultraviolet light adversely affects nylon and polyester. Slings become bleached and stiff when exposed to sunlight or arc welding.
- Many acids, alkali and chemicals have an adverse effect on nylon and polyester. See Chemical Environment Data chart in Web section of this catalog.

Remove from service if any of the following is visible:

- ٠ Sling is bleached or stiff due to sunlight exposure.
- Capacity tag is missing or illegible.
- Red core warning yarns are visible.
- Sling shows signs of melting, charring or chemical damage.
- End fittings are excessively pitted, corroded, distorted, cracked or broken.
- Cuts on the face or edge of webbing.
- Holes, tears, snags or crushed web.
- Signs of excessive abrasive wear.
- Broken or worn threads in the stitch patterns.
- Any other visible damage.

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart in General Information section. Always protect WARNING synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.

Slings Protection Sling

Round

nformation General

Web

Rope Wire

Chain Slinds

Rigging Hardware

Mesh

Load

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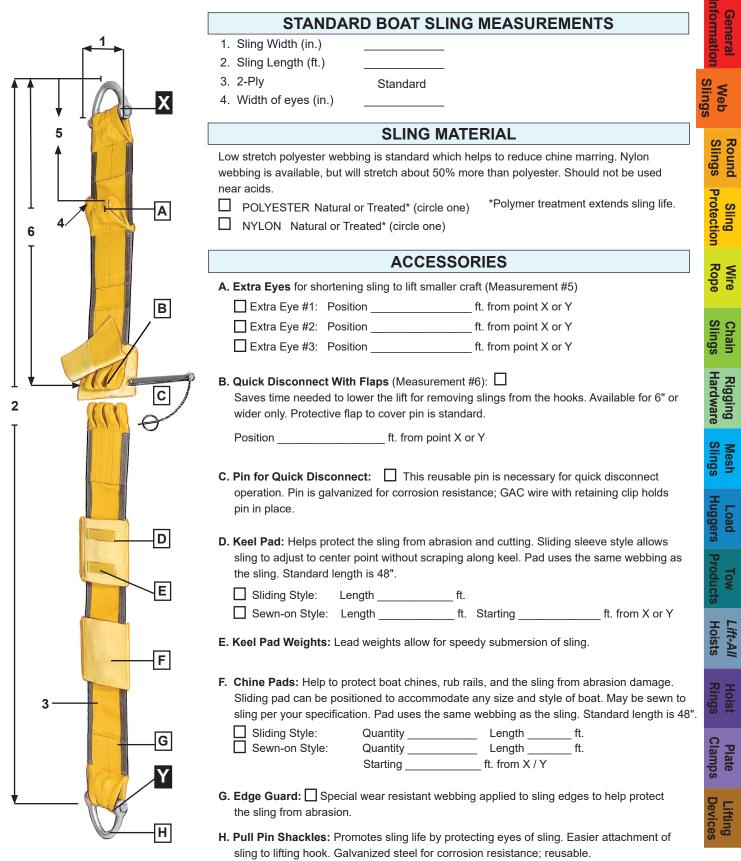
Lift-All

Plate

Lifting

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LIFT-ALL HULL SAVER[™] BOAT SLINGS



Quantity



STONE HANDLING SLINGS

Special abrasion resistant 4-inch wide nylon webbing for handling stone, concrete and building panels.

Lift-All stone handling slings feature a soft abrasion-resistant wear pad woven onto the load side of the webbing, providing outstanding protection for both the sling and the polished stone surfaces.

Note: Eye/Eye style slings with flat eyes only. Untapered and 12" eye length.

Features and Benefits

Promotes Safety

- Red core yarn warning system aids in the inspection process.
- Tuff-Tag[™] provides serial numbered identification for traceability.
- Proven reliability.

Saves Money

- Heavy, soft yarns on load side to help protect the sling from abrasion.
- White pile yarns prevent color transfer to load.
- 2-ply version results in an abrasion resistant face on both sides.
- *Tuff-Tag* provides required OSHA information for the life of the sling.

Saves Time

- 2-ply version with abrasion resistance on both sides
- Does

s not require o	not require orientation by the rigger.												
Ply	Part	Rated Capacity* (lbs.)											
i iy	Number	Vertical	Choker	V. Basket									
One Ply	UU1SH4N EE1SH4N EN1SH4N	5,400 5,400 10,800	4,000 4,000 8,600	10,800 10,800 21,600									
Two Ply	UU2SH4N EE2SH4N EN2SH4N	9,400 9,400 10,800	7,000 7,000 8,600	18,800 18,800 21,600									



Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.



Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Huggers

Load

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Plate Clamp

Lifting Devices

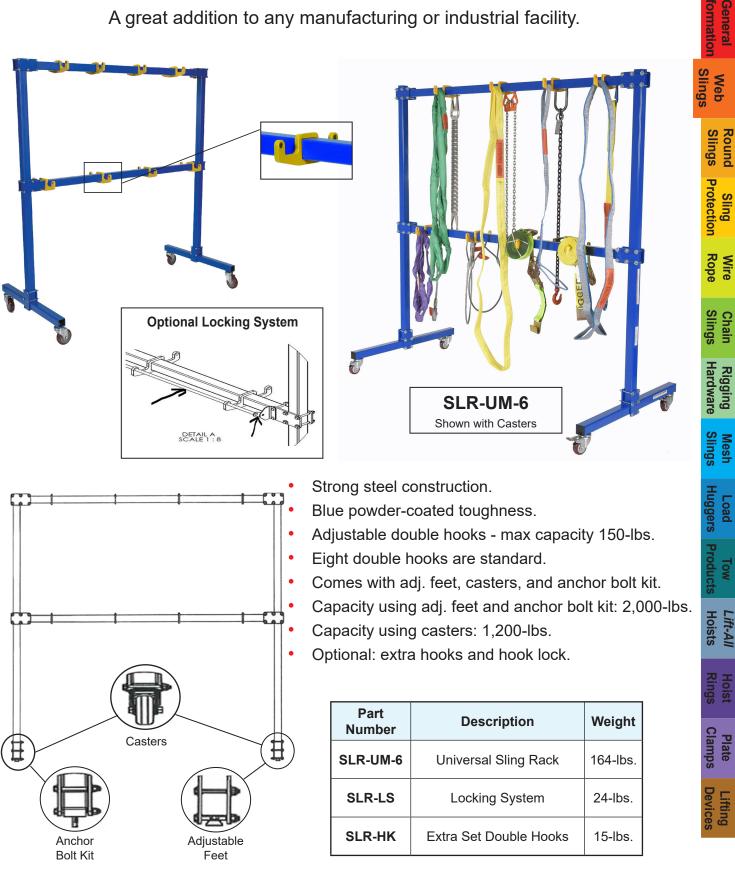
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Hoists Lift-All



GANTRY SLING RACK

A great addition to any manufacturing or industrial facility.



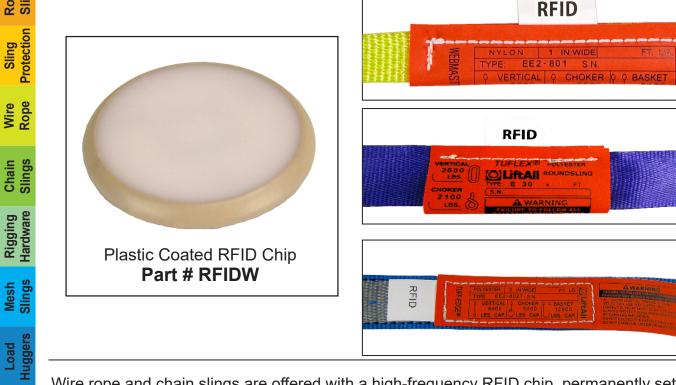


RFID TAGGING

Lift-All offers a high-frequency passive RFID tagging service for new slings.

RFID chips allow end users with RFID readers to electronically track a sling's history to assist with the maintenance, inspection, traceability, and compliance of their slings.

Synthetic slings will have a 5/8" diameter (plastic-coated) high-frequency chip inserted underneath the standard *Tuff-Tag*[™]. The sling will be labeled as containing an RFID chip.



Wire rope and chain slings are offered with a high-frequency RFID chip, permanently set into a machined teardrop shaped piece of steel, and attached to the sling with a wire cable.

Wire rope sling placement is between the *Tuff-Tag* and the swaged sleeve. Chain sling attachment is beside the ID tag on the connector link.

Tag Information

RF Protocol: Operating Frequency: IC Type: Memory Config.: Functionality: Security: Read Range: Quality Guarantee: IP Classification:

ISO15693 / ISO10443 HF - 13.56 MHz SLI Icode 1024 Bit 64 UID Bits (16 digits) Read and Write 64 Bit Kill Access Password Less than 1.0" 100% 68



Plate Clamps

Lifting Devices

Tow Products





THE TUFLEX® DIFFERENCE

All Lift-All slings meet or exceed OSHA and ASME B30.9 standards and regulations.

What is a *Tuflex* Roundsling?

A *Tuflex* roundsling is an endless synthetic sling made from a skein of polyester yarn covered by a double-wall tubular jacket. The roundsling body can be compared to sling webbing with the tubular jacket face yarns woven without binder yarns. This allows the core yarns to move independently within the jacket.

Tufhide[™] Jacket on EN360 and Larger Slings

The double-wall *Tufhide* jacket (made from bulked nylon fibers) offers better abrasion resistance for our larger capacity *Tuflex* roundslings. Additionally, *Tufhide* reduces the heat buildup that can damage other high capacity roundslings when used in a choker hitch.

Features and Benefits

Promotes Safety

- Lightweight to reduce fatigue and strain on riggers.
- Synthetic materials will not cut hands.
- Consistent matched lengths for better multiple sling load control.
- No loss of capacity from abrasive wear to the cover.
- *Tuff-Tag* provides serial numbered identification for traceability.
- Low stretch (about 3% at rated capacity).
- Synthetic web resists marring of the load.
- Good for low headroom lifts.
- Extremely flexible, conforms to shape of load to grip securely.
- Tubular jacket protects load bearing yarns from UV degradation.
- Red core yarns provide added visual warning of sling damage.
- Color-coding provides positive sling capacity information.

Saves Money

- Double-wall cover for greater sling life.
- The soft cover will not scratch the load surface.
- Conforms to shape of the load for reduced load damage.
- The cover is seamless with no sewn edges, preventing rupture which requires removal from service.
- EN360 and larger *Tuflex* roundslings feature *Tufhide* wear-resistant nylon jacket for extra sling life.
- *Tuff-Tag* provides required OSHA information for the life of the sling.

Saves Time

- Color-coded capacities for quick identification.
- Lightweight and pliable for easy rigging and storage.
- Independent core yarns choke tightly but release easily after use.
- Easy to store and carry.

Always protect synthetic slings from being cut or damaged by corners, edges and protrusions by using protection sufficient for each application.



Refer to Sling Protection section in this catalog.

Follow temperature and chemical information located in the Web section of this catalog.

Sling Protection

Rope

Chain Slings

Rigging Hardware

Mesh Slinds

Load

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Lift-All Hoists

Plate Clamos

Lifting Devices

Wire



CONSTRUCTION COMPARISONS

Tuflex[®] versus Sling Webbing

Tuflex

- Transverse pick yarns position surface yarns and protects core yarns.
- Woven surface yarns protect core yarns but carry no load.
- Longitudinal core yarns carry 100% of load.
- Red core warning yarns.

Roundsling construction (as shown above) protects all load carrying core yarns from abrasion with an independent, woven jacket. Replacement is not necessary until the red or white core yarns can be seen through holes in the jacket. When core yarns are visible, the sling must be removed from service. Tuflex roundslings provide double-wall protection for extended sling life.

Sling Webbing

- Transverse pick yarns inter-relate with binder yarns.
- Woven surface yarns cover each side and carry a portion of the load.
- Strip of longitudinal core yarns bears the majority of the load.
- Binder yarns secure the surface yarns to web core yarns.
- Red core warning yarns.

Sling webbing (as graphically demonstrated) has its surface yarns connected from side to side to not only protect the core varns but to position all surface and tensile varns to work together to support the load. Wear or damage to sling webbing face yarns cause an immediate strength loss. This is the reason why sling webbing has red core varns to visually reveal damage and act as a basis for sling rejection.

HOW TO ORDER

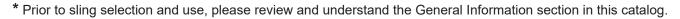
- 1. Specify sling part number found in the charts throughout the *Tuflex* section.
- 2. Specify sling length in feet (bearing point to bearing point). Refer to footnotes under Tuflex tables for specific sling lengths and tolerances.
- 3. Matched lengths of slings must be specified at time of order.

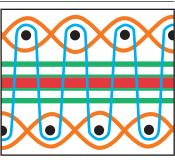
TOLERANCES FOR ENDLESS ROUNDSLINGS

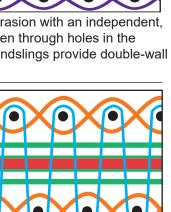
The following sling length tolerances apply to roundslings when new, at the time of final manufacture. Standard Length Tolerance - Endless and Eye & Eye style Roundslings should be made in conformance with the length tolerance values listed in the table below. Matched Set Length Tolerance – When multiple legs of a bridle sling are made, or when multiple slings are prescribed to be made within a Matched Set Tolerance, their length variance from their nominal length shall remain within a dimension equal to one-half of their corresponding Standard Length Tolerance Values listed in the table below.

Braided Tuflex length tolerance is ± (2" + 5% of the ordered length with sling at rest). At its rated capacity, braided Tuflex will stretch approximately 9%.

Roundsling Size / Vertical Capacity Range	Tolerance*
30,000 lbs. or Less	± (1" + 1% of sling length)
Higher than 30,000 lbs., up to 90,000 lbs.	± (2" + 1% of sling length)
Higher than 90,000 lbs., up to 175,000 lbs.	± (3.0" + 1% of sling length)
Higher than 175,000 lbs.	± (Sling Body Diameter + 1% of sling length)





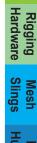


Sling Webbing (Side View)

Tuflex

(Side View)





General formation

Web

Slings

Round Slings

Protection

Rope Wire

Chain Slings

Sling

Tow

Hoists Lift-All

Rings Hoist

Clamps Plate

Lifting





USING TUFLEX® ROUNDSLINGS

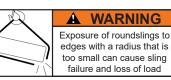
Protect Sling from Damage

ALWAYS protect roundslings from being cut or damaged by corners, edges and protrusions using protection sufficient for each application.

Do not ignore warning signs of misuse. Cut marks detected during any sling inspection serve as a clear indication that cut protection is needed. Refer to Sling Protection section of our catalog.

Exposure of Slings to Edges

Edges do not need to be sharp to cause failure of the sling. The following table



shows the minimum allowable edge radii suitable for contact with unprotected roundslings.

Chamfering or cutting off edges is not an acceptable substitute for fully rounding the edges to the minimum radius. Slings can also be damaged from contact with edges or burrs at the sling connection.

Μ ra b



leasure the edge radius. The	
adius is equal to the distance	
etween points A and B.	

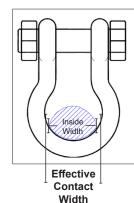
Unpro Rated Capacity Vertical (Ibs.) EN30 EN400 EN120 EN150 EN180 EN240 EN280 EN280 EN360 EN460	Minimum* Edge Radii (in.)	Sling Width @ Load (in.)				
EN30	0.14	1.00				
EN60	0.21	1.38				
EN90	0.26	1.75				
EN120	0.30	1.88				
EN150	0.33	2.00				
EN180	0.40	2.13 2.63				
EN240	0.41					
EN280	0.44	3.00				
EN360	0.50	3.25				
EN460	0.56	3.75				
EN600	0.67	4.00				
EN800	0.72	4.63				
EN900	0.80	5.00				
EN1000	0.87	5.25				
EN1100	0.92	5.50				

WSTDA-RS-1.

Sling Hardware and Connections

Connection surfaces must be smooth to avoid abrading or cutting slings. Roundslings can be damaged or weakened by excessive compression between the sling and the connection points. Select and use proper connection hardware that conforms to the size requirements listed for choker, vertical, or basket hitches in the charts below.

Contact Lift-All (or see WSTDA-RS-1), for information about how to calculate whether a smaller connection size is allowable when tension on a roundsling is less than its capacity.







Single Part (Vertical)

Minimum Hardware Dimensions Suitable

Double Part (Basket)**

	For Use V	Vith <i>Tuflex</i> Ro	oundslings	
	Single	e Part	Double	e Part**
<i>Tuflex</i> Size	Minimum Stock Diameter (in.)	Minimum Contact Width (in.)	Minimum Stock Diameter (in.)	Minimum Contact Width (in.)
EN30	0.44	1.00	0.57	1.38
EN60	0.63	1.38	0.88	1.88
EN90	0.75	1.75	1.06	2.38
EN120	0.88	1.88	1.25	2.50
EN150	1.00	2.00	1.38	2.88
EN180	1.13	2.13	1.63	3.00
EN240	1.19	2.63	1.63	3.75
EN280	1.25	3.00	1.88	4.25
EN360	1.50	3.25	2.00	4.50
EN460	1.62	3.75	2.38	5.25
EN600	2.00	4.00	2.75	5.63
EN800	2.13	4.63	3.00	6.50
EN900	2.25	5.00	3.25	7.00
EN1000	2.50	5.25	3.50	7.38
EN1100	2.62	5.5	3.75	8.00

** For hardware connected to the body of Eye/Eye Tuflex Roundslings, use the double part columns.

For Temperature and Chemical Information refer to the Environmental Consideration page in the WEB section of this catalog.

Slings Web

> Round Slings

> > Protection

Rope Wire

Chain Slinds

Rigging Hardware

Mesh

Load

Lift-All Hoists

Plate

Lifting

Sling



General

Web Slings

Round Slings

> Sling Protection

> Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Tow Products

Hoists

Plate Clamps

Lifting

.ift-A

DIRECT CONNECT HOOKS

Direct Connect hooks are the quickest and easiest way to add hooks to *Tuflex*[®] roundslings and web slings at your job site. No tools or extra parts are needed.

For *Tuflex* slings, just match the color-coded hook to the same color *Tuflex* sling, and you're ready to go. Rated capacities are the same for both the hook and the *Tuflex* roundsling.

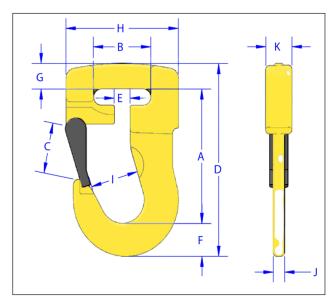
Features and Benefits

- Rugged: The alloy steel hook and latch are forged for superior toughness.
- Color-coded hook matches *Tuflex* color and capacity.
- Web-Trap[™] design keeps sling in place, ready to use.
- Four hook sizes to match *Tuflex* sizes EN30 (Purple), EN60 (Green), EN90 (Yellow) and EN150 (Red).
- Can be used with 1" and 2" web slings.
- Quick connections with no tools needed.
- Increases the life of the sling by reducing wear at the bearing point.

Part		Rated Capacity (Ibs.)						Web S	lings	А	в	с	D	Е	F	G	н		J	к	Weight
No.*	No.* Color		Tuflex	Width	Plies	(in.)	1 1	(in.)	(in.)	(in.) (lbs.)											
DCH1	Purple	2,600	EN30	1	1	3.38	1.56	0.91	4.84	0.47	0.81	.67	3.07	1.22	0.70	1.13	1.54				
DCH2	Green	5,300	EN60	1	2	4.00	1.75	1.28	5.83	0.75	1.07	.83	3.58	1.57	0.88	1.39	2.65				
DCH3	Yellow	8,400	EN90	2	1 & 2	4.63	2.13	1.40	6.89	0.83	1.26	.98	4.45	1.97	1.00	1.76	4.85				
DCH4	Red	13,200	EN150	_	—	5.75	2.34	1.83	8.78	1.63	1.60	1.42	5.21	2.34	1.23	2.21	9.90				

* Add an 'L' to end of part number to order replacement latch.





Polyester Roundslings

Information General

- Sling Protection
- Wire Rope
- Chain Slings
- Rigging Hardware
- Mesh Slings
- Load
- To⊌
- Hoists Lift-All
- Plate Clamps Lifting Devices

Web Slings **Promotes Safety** Round Slings Saves Money

Wear points can be shifted to extend sling life.

Maintains all the basic *Tuflex* features plus...

Load stability and balance can be achieved by

The Most Versatile Tuflex Roundsling

The most flexible style of sling.

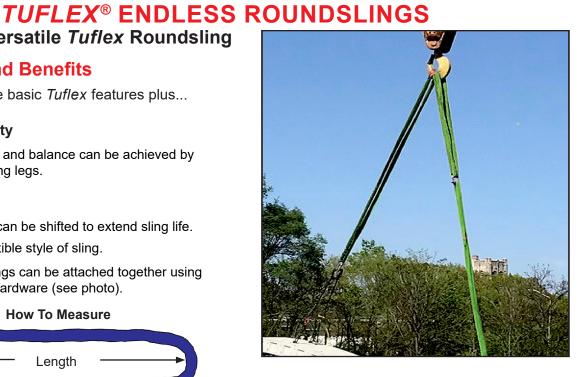
spreading sling legs.

Features and Benefits

Individual slings can be attached together using appropriate hardware (see photo).

How To Measure





				Tufle	x Endle	ess Ro	undsli	ngs			
					Approximate Measurements						
			Vertical	Choker	Basket @ 90°	Basket @ 45 [°]					
Part Number	Coloi	r	U	Ø	U		Minimum Length (ft.)	Weight (Ibs./ft.) (ft.)	Body Diameter Relaxed (in.)	Body Width @ Load (W) (in.)	Minimum Hardware Dia.** (in.)
EN30	Purple		2,600	2,100	5,200	3,600	1.5	0.20	0.63	1.00	0.44
EN60	Green		5,300	4,200	10,600	7,400	1.5	0.30	0.88	1.38	0.63
EN90	Yellow		8,400	6,700	16,800	11,800	3.0	0.52	1.13	1.75	0.75
EN120	Tan		10,600	8,500	21,200	14,000	3.0	0.60	1.13	1.88	0.88
EN150	Red		13,200	10,600	26,400	18,000	3.0	0.76	1.38	2.00	1.00
EN180	White		16,800	13,400	33,600	23,000	3.0	0.87	1.38	2.13	1.13
EN240	Blue		21,200	17,000	42,400	29,000	3.0	1.10	1.75	2.63	1.19
EN280	Orange		25,000	20,000	50,000	35,000	3.0	1.25	1.87	3.00	1.25
EN360	Gray		31,000	24,800	62,000	43,000	3.0	1.70	2.25	3.25	1.50
EN460	Orange		40,000	32,000	80,000	56,000	3.0	2.30	2.50	3.75	1.62
EN600	Brown		53,000	42,400	106,000	74,000	8.0	2.90	2.75	4.00	2.00
EN800	Olive		66,000	52,800	132,000	93,000	8.0	3.40	3.13	4.63	2.13
EN900	Orange		77,000	61,600	154,000	108,000	8.0	3.90	3.42	5.00	2.25
EN1000	Black		90,000	72,000	180,000	127,000	8.0	4.40	3.63	5.25	2.50
EN1100	Orange		100,000	80,000	200,000	140,000	8.0	4.80	4.10	5.50	2.62

** This is the minimum recommended diameter for the connection hardware to be used for a vertical hitch.



Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

TUFLEX® EYE AND EYE

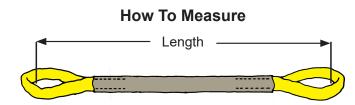
A More Rugged and Durable *Tuflex* Roundsling

The Eye and Eye Advantage

An additional jacket of texturized, abrasion resistant nylon covers the Tuflex body forming two color-coded lifting eyes.

Maintains all the basic Tuflex features plus...

Saves money by extending sling life in abrasive environments.





	Tuflex Eye/Eye Roundslings													
		Rated Capacity (lbs.)*						Approximate Measurements						
Part Number			Vertical	Choker Basket @ 90° D D D D		Basket @ 45°	Minimum Length⁺ (ft.)	Weight (Ibs./ft.) (ft.)	Body Width @ Load (W) (in.)	Standard Eye Length (EL) (in.)	Minimum Hardware Dia** (in.)			
EE30	Purple		2,600	2,100	5,200	3,600	4	0.25	2.25	10	0.44			
EE60	Green		5,300	4,200	10,600	7,400	4	0.35	2.50	10	0.63			
EE90	Yellow		8,400	6,700	16,800	11,800	4	0.55	2.50	12	0.75			
EE120	Tan		10,600	8,500	21,200	14,000	5	0.66	3.50	12	0.88			
EE150	Red		13,200	10,600	26,400	18,000	5	0.81	3.50	14	1.00			
EE180	White		16,800	13.400	33,600	23,000	7	0.93	3.50	16	1.13			
EE240	Blue		21,200	17,000	42,400	29,000	7	1.20	3.50	16	1.19			
EE280	Orange		25,000	20,000	50,000	35,000	7	1.30	4.25	18	1.25			
EE360	Gray		31,000	24,800	62,000	43,000	7	1.75	4.50	20	1.50			
EE460	Orange		40,000	32,000	80,000	56,000	7	2.35	6.00	22	1.62			
EE600	Brown		53,000	42,400	106,000	74,000	8	2.90	7.00	24	2.00			
EE800	Olive		66,000	52,800	132,000	93,000	10	3.45	8.00	30	2.13			
EE900	Orange		77,000	61,600	154,000	108,000	10	3.95	8.00	32	2.25			
EE1000	Black		90,000	72,000	180,000	127,000	12	4.45	9.00	36	2.50			
EE1100	Orange		100,000	80,000	200,000	140,000	12	4.85	9.00	36	2.62			

** This is the minimum recommended diameter for the connection hardware to be used for a vertical hitch.

Shorter lengths available using reduced eye lengths.

WARNING * Â

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

General

Web

Round

Protection Sling

Rope Wire

Chain Slings

Hardware Rigging

Mesh Slings

Load

Tow

Hoist

Huggers Products

Hoists .ift-Al

Slings

Clamps Plate

Devices Lifting



Rated Capacity (lbs.)*

Choker

2 100

4.200

6.700

8,500

10,600

13,400

17.000

24.800

42,400

52,800

72 000

All Legs @

45°

3,600

7.400

11.800

14,900

18.600

23,700

29,900

43,800

74,900

93.300

127,200

5.500

11.200

17 800

22,400

27.900

35,600

44 900

65,700

112,400

139 900

190.800

7.300

14,900

23.700

29,900

37,300

47 500

59,900

87.600

149,900

186 600

254,500

Rasket

5 200

10.600

16.800

21,200

26,400

33,600

42.400

62.000

106,000

132.000

180.000

309

2,600

5.300

8.400

10,600

13.200

16,800

21,200

31,000

53,000

66.000

90,000

3.900

7.900

12 600

15,900

19.800

25,200

31 800

46,500

75,900

99 000

135.000

5.200

10,600

16.800

21,200

26,400

33 600

42,400

62.000

106,000

132 000

180,000

Tuflex

Size

EN30

EN60

EN90

EN120

EN150

EN180

FN240

EN360

EN600

EN800

EN1000

One Leg

@ 90°

2,600

5.300

8.400

10,600

13.200

16.800

21,200

31,000

53,000

66.000

90,000

2,600

5.300

8 4 0 0

10,600

13.200

16,800

21 200

31,000

53,000

66 000

90.000

2,600

5,300

8.400

10,600

13,200

16 800

21,200

31.000

53,000

66 000

90,000

Tuflex

Size

EN30

EN60

EN90

EN120

EN150

EN180

EN240

EN360

EN600

EN800

EN1000

EN30

EN60

EN90

EN120

EN150

EN180

FN240

EN360

EN600

EN800

EN1000

EN30

EN60

EN90

EN120

EN150

EN180

EN240

EN360

EN600

EN800

EN1000

LEGS

DOUBLE

FRIPLE

QUAD

Vertical

2 600

5.300

8.400

10,600

13,200

16,800

21.200

31.000

53,000

66.000

90.000

60°

4,500

9.100

14.500

18,300

22.800

29,100

36,700

53,700

91,800

114.300

155,800

6.700

13,700

21 800

27,500

34.200

43,600

55 000

80,500

137,600

171 400

233.800

9.000

18,300

29.100

36.700

45,700

58 200

73.400

107.300

183,600

228 600

311,700

LEGS

ш

SINGL

Hardware**

Masterlink

Stock Dia

(in.)

1/2

3/4

3/4

1

1

1-1/8

1-1/4

1 - 1/2

2

2-1/4

2-1/2

Masterlink

Stock Dia.

(in.)

1/2

3/4

1

1-1/4

1-1/4

1-1/2

1-1/2

2

2-1/2

3

3-1/4

3/4

1

1-1/4

1-1/2

1-1/2

1-3/4

2

2-1/4

3-1/4

3-1/2

4-1/4

3/4

1-1/4

1-1/2

1-1/2

1-3/4

2

2-1/4

2-3/4

3-1/2

4-1/4

4-3/4

Hardware*

Hook

A - Alloy

C - Carbon

2TA

4.5TA

7TA

11TA

11TA

15TA

22TA

20TC

30TC

40TC

Hook

A - Allov C - Carbor

2TA

4.5TA

7TA

11TA

11TA

15TA

22TA

20TC

30TC

40TC

2TA

4.5TA

7TA

11TA

11TA

15TA

22TA

20TC

30TC

40TC

2TA

4.5TA

7TA

11TA

11TA

15TA

22TA

20TC

30TC

40TC

TUFLEX® BRIDLE ROUNDSLINGS

Features and Benefits

Promotes Safety

- Bridle slings provide better load control and balance.
- Use of hardware prevents cutting and abrasion of sling at bearing points.

Saves Money

Reduces damage by protecting load between pick-up point and crane hook.

Saves Time

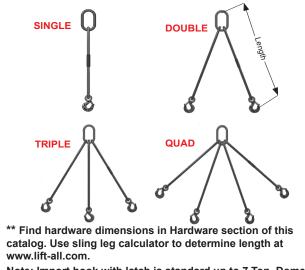
- Lightweight and pliable for easy rigging and storage
- Sling hooks quickly connect to loads having hoist rings or eye bolts.

How to Order Specify:

- 1. Number of legs:
 - S (Single), D (Double), T (Triple), Q (Quad)
- 2. Master Link: O (Oblong)
- 3. Bottom Attachments: S (Sling Hook), O (Oblong)
- 4. Tuflex Code: EN30, EN90, etc.
- 5. Length of Assembly Feet (Bearing point to bearing point)

Example:

DOSEN90 X 10' is a double leg bridle, with an oblong master link at the top, and sling hooks on each leg of the Tuflex EN90. Bearing to bearing length is 10-ft.



Note: Import hook with latch is standard up to 7 Ton. Domestic hook/latch options used over 7 Ton or upon request.

WARNING A

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

Web	Slings

ormatio General

Load Huggers

§ §

Lift-All

Hoist

Plate

Lifting Devices

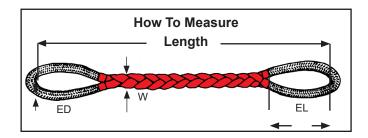
*

BRAIDED TUFLEX® ROUNDSLINGS

For multi-part heavy lifting, braided *Tuflex* roundslings offer you additional security.

Safety Built-In

Tuflex braids are made from three (6-Part), or four (8-Part) individual *Tuflex* roundslings. Should one of these component slings be damaged while in use, the remaining undamaged slings will be able to assist in safely returning the load to the ground.



Features and Benefits

Maintains all the basic Tuflex features plus...

Promotes Safety

- Braided construction offers engineered safety.
- Lightweight and more flexible than chain slings.

Saves Money

- Large capacity slings are generally purchased for one major lift, then rarely used again. Braided *Tuflex* roundslings can be returned to *Lift-All* for disassembly, inspection, and re-tagging as individual slings.
- 6-part flat braid offers wide-body for load stability.

Saves Time

Easy to transport and hook-up.

					6-P	art Fla	t Bra	nid ((B6E)					
				Rated Ca	pacity (lbs.)*				Approx	imate Meas	ureme	ents	
Part Number	Color	r	Vertical	Choker	Basket	Basket @ 45°	Min. Sling Length ⁺ (ft.)	Wt. (Ibs. per ft.)	Standard Eye Length (EL) (in.)	Width @ Load (W) (in.)	Thickness at Load (in.)	Eye Dia. (ED) (in.)	Minimum Hardware Dia.** (in.)	Minimum Edge Contact Radii (in.)
B6E30	Purple		6,700	5,300	13,400	9,400	4.50	0.8	15	3.25	0.75	1.75	0.63	0.313
B6E60	Green		13,500	10,800	27,000	19,000	5.00	1.2	15	3.75	1.13	2.00	1.00	0.438
B6E90	Yellow		21,400	17,100	42,800	30,000	5.50	1.6	15	4.25	1.25	2.00	1.25	0.500
B6E120	Tan		27,000	21,600	54,000	38,000	5.50	2.0	15	4.50	1.31	2.25	1.38	0.625
B6E150	Red		33,600	26,800	67,200	47,000	6.50	2.7	20	5.25	1.75	2.50	1.50	0.688
B6E180	White		42,800	34,200	85,600	60,000	7.00	3.2	20	5.50	2.00	2.75	1.75	0.813
B6E240	Blue		54,000	43,200	108,000	76,000	9.00	4.4	20	6.63	2.25	3.50	1.75	0.813
B6E360	Gray		79,000	63,200	158,000	111,000	9.50	6.5	30	8.25	2.50	4.25	2.50	1.00
B6E600	Brown		135,100	108,000	270,200	191,000	10.50	9.7	30	11.00	2.75	5.00	3.00	1.313
B6E800	Olive		168,300	134,600	336,600	230,000	13.00	12.0	30	12.00	4.00	5.25	3.50	1.375
B6E1000	Black		229,500	183,600	459,000	320,000	14.50	15.6	31	13.50	4.50	5.75	4.00	1.750

** This is the minimum recommended diameter for the connection hardware to be used for a vertical hitch.

* Shorter lengths available using reduced eye lengths.

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

General Web Round formation Slings Slings F

Sling Protection

Load

Lift-All

Lifting Devices





General

Web

Round

Sling

Mesh Slings

Huggers Load

Hoists Lift-All

Hoist Rings

Plate Clamps

Lifting Devices

Tow

Polyester Roundslings

BRAIDED TUFLEX® ROUNDSLINGS



Order Information

Ordering length should be based on the sling at rest. Braided *Tuflex* length tolerance is $\pm 2"+5\%$ of the ordered length, with the sling at rest. At it's rated capacity, braided Tuflex will stretch approximately 9%.



					8-Pa	rt Rou	ind B	rai	d (B8l	E)						
				Rated Cap	oacity (lbs.)	*		Approximate Measurements								
Part Number Color		or	Vertical	Choker	Basket	Basket @ 45°	Min. Sling Length ⁺ (ft.)	Wt. (Ibs. per ft.)	Standard Eye Length (EL) (in.)	Width @ Load (W) (in.)	Thickness at Load (in.)	Eye Dia. (ED) (in.)	Minimum Hardware Dia. ** (in.)	Minimum Edge Contact Radii (in.)		
B8E30	Purple		8,800	7,100	17,600	12,400	4.50	1.1	15	3.50	1.00	1.75	0.75	0.313		
B8E60	Green		18,000	14,400	36,000	25,000	5.00	1.5	15	4.00	1.38	2.00	1.13	0.500		
B8E90	Yellow		28,500	22,800	57,000	40,000	5.50	2.2	15	4.75	1.63	2.50	1.50	0.563		
B8E120	Tan		36,000	28,800	72,000	50,000	5.50	2.6	15	5.00	1.75	2.50	1.50	0.688		
B8E150	Red		44,900	35,900	89,800	63,000	6.50	3.6	20	6.00	2.13	2.75	1.75	0.750		
B8E180	White		57,100	45,600	114,200	80,000	7.00	4.1	20	6.25	2.50	3.25	2.00	0.875		
B8E240	Blue		72,000	57,600	144,000	101,000	9.00	5.6	20	7.50	2.75	3.75	2.00	0.938		
B8E360	Gray		105,400	84,300	210,800	149,000	9.50	8.3	30	9.50	3.25	4.50	2.50	1.125		
B8E600	Brown		180,200	144,100	360,400	250,000	10.50	12.0	30	13.00	3.75	5.50	3.50	1.500		
B8E800	Olive		224,400	179,500	448,800	310,000	13.00	16.0	30	13.50	4.50	6.00	4.00	1.625		
B8E1000	Black	_	306,000	244,000	612,000	430,000	14.50	20.0	31	15.75	5.25	6.50	4.75	2.00		

** This is the minimum recommended diameter for the connection hardware to be used for a vertical hitch.

* Shorter lengths available using reduced eye lengths.



Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

*



The solution for lifting the heaviest loads using the lightest, most flexible, and ergonomic slings available!

Promotes Safety

- *Lift-All* slings with high performance core fibers are ergonomically engineered providing the lightest sling weight to lifting capacity ratio of our product line. This ergonimic solution reduces rigger fatigue and injury.
- Non-blended core fibers provide more consistent sling performance.
- Low stretch (1%) is especially helpful when working in low headroom areas.
- Double-wall *Tufhide*[™] jacket is abrasion resistant, protecting the core fibers from wear and degradation from UV light.
- Flexible, conforms to the shape of load.
- Consistent matched lengths for better multiple sling control.
- Tuff-Tag[™] provides serial numbered identification for traceability of manufacturing components and process.
- Lift-All maintains the same design criteria for the entire product line, and does not lower design requirements for roundslings rated above 100,000 lbs.

Saves Time

- Independent core yarns choke tightly but release easily after use.
- The single component round body profile makes for faster rigging, avoiding any need to keep the sling body flat.
- Round bearing surface makes for easier hook-up to connection point.
- Meet capacity requirements with a smaller diameter sling to fit more easily into tight work areas.

Saves Money

- Roundslings with damaged outer covers may be returned for inspection and possible cover repair and proof-test.
- Double-wall seamless cover has no sewn edges preventing rupture, which requires removal from service.
- Endless style allows wear points to be shifted extending sling life.

Inspection Criteria

Remove from service when:

- Cuts to the sling cover that expose core yarns.
- Holes, tears, snags or abrasion that expose core yarns.
- The sling shows signs of melting, charring or chemical damage.
- Capacity tag is illegible or missing.
- Other visible damage that causes doubt as to strength of the sling.

Environmental Considerations

• **Chemical:** Do not use in a non-compatible chemical environment. For confirmation, contact *Lift-All* and provide specific chemical, concentration, temperature, and time factors.

Temperature

- KeyFlex[™] slings are approved for use up to 350°F.
- **DynaFlex**[™] slings are approved for use up to 158°F.

Clamps

Plate

*

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.



General

Web

Slings

Round Slings

Protection

Rope

Sling

Wire

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Lift-All

Huggers Products

Hoists

Hoist Rings

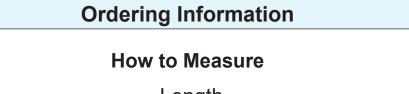


HIGH PERFORMANCE ROUNDSLINGS

The Lift-All Difference

The *Lift-All* Difference - Why Compromise Work Safety? Here's Why All High Performance Roundslings are not the same:

- **Load-Bearing Core Yarn:** Non-blended core fibers provide more consistent sling performance, regardless of the application.
- Verified Strength: *Lift-All* regularly completes strength verification of all sizes of roundslings using test pins that are smaller than required by the industry to represent actual loading conditions more closely.
- Single Path Core is Our Standard: Multi-path slings exhibit an advantage during strength verification testing as test pins allow for tension forces to be spread over a wider, flat bearing surface. Our single path round design fits naturally in narrow, rounded bearing surfaces of connection hardware. We designed our high performance roundslings with the understanding of how the sling is used in the field. This is validated during strength verification testing.
- **The Cover Sleeve:** Roundslings are typically removed from service due to cover wear. *Lift-All*'s design contains a durable, double layer cover that offers rotational benefits for even wear and ease of feeding through connections.





Specify the sling code and length in feet (bearing point to bearing point).

Slings are made to a tolerance of \pm 1"+1% of the specified length, and can stretch 1% at rated capacity.

Notes:

- 1. Matched lengths of slings must be specified at time of order.
- 2. Available in endless style only.
- 3. Not to be used in a towing application.

Round Web General Slings Information

Lift-All Hoists

10 ≷

Hoist

Plate

*

Lifting Devices



DYNAFLEX[™] ROUNDSLING

Dyneema[®] High-Performance Core Ultra-Lightweight Roundsling

DynaFlex is manufactured with a load bearing core of Dyneema, the world's strongest fiber, yet remains soft and flexible to allow for easy rigging. This high capacity, ultra-lightweight roundsling is a safe and ergonomic alternative to steel and other forms of synthetic slings.



Features and Benefits

- **Ultra-Lightweight** Approximately 20% lighter than *KeyFlex*[™] and 52% lighter than *Tuflex*[®] for the same capacity, reducing the probabilities of hand and shoulder strains and sprains.
- Good Chemical Resistance with Reduced Water Absorption A 10' DynaFlex sling will increase 6 pounds in water weight when rigged wet vs. 13 pounds for the same capacity and length Tuflex roundsling. Users will appreciate the weight reduction, minimizing rigger fatigue and increasing safety.
- **Neutral Buoyancy** DynaFlex slings are a great choice for water recovery and lifting applications.
- 100% Dyneema Core (non-blended) We use the most advanced high tenacity fiber on the market for lifting slings. The homogeneous core fiber reacts uniformly regardless of lift application. Designed with your safety in mind.
- DynaFlex Single Component Twisted Core Single path design allows higher strength retention around common rigging hardware. This saves time during hook up to the connection point and rigging vs. dual path slings. No need to worry about sling body orientation.
- Promotes Safety Customized designs are available, including higher capacity and/or shorter length versions.

Note: DynaFlex slings are approved for use up to 158°F.

Mesh

Devices Lifting



Information

Slings

General

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Lift-All Hoists

To⊌

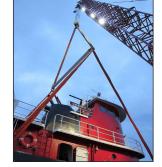
Hoist

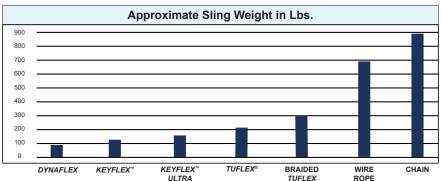
Plate Clamps

Lifting Devices

High Performance Roundslings

DYNAFLEX™ ROUNDSLING





Iten	ı	Approximate Sling Weight (lbs.)	Vertical Capacity (Ibs.)
DynaFlex Roundsling:	DEN200K x 25-ft.	99	200,000
<i>KeyFlex</i> [™] Roundsling:	KEN200K x 25-ft.	130	200,000
KeyFlex Ultra Roundsling:	KEN3P200 x 25-ft.	173	200,000
<i>Tuflex</i> [®] Roundsling (2 ea.):	EN1000 x 25-ft.	207	180,000
Braided <i>Tuflex</i> Roundsling:	B8E600 x 25-ft.	300	180,000
Wire Rope Sling (2 ea.):	2-1/4" 6X37 IWRC x 25-ft.	669	176,000
Chain Sling (2 ea.):	1-1/4" SOS x 25-ft.	870	144,600

DynaFlex Capacities and Measurements

		Rated Capa	acity (lbs.)*			Approximate Measureme					
Part Number	Vertical	Choker	Basket @ 90°	Basket @ 45°	Min. Length (ft.)	Wt. (Ibs per ft.)	Body Dia. Relaxed (in.)	Width @ Load (in.)	Minimum Hardware Diameter (in.)	Minimum Edge Contact Radii (in.)	
DEN10K	10,000	8,000	20,000	14,100	2	0.25	1.00	1.56	0.69	0.23	
DEN15K	15,000	12,000	30,000	21,000	3	0.38	1.13	1.75	0.88	0.31	
DEN20K	20,000	16,000	40,000	28,000	3	0.44	1.25	2.00	1.06	0.37	
DEN25K	25,000	20,000	50,000	35,000	3	0.54	1.25	2.13	1.25	0.47	
DEN30K	30,000	24,000	60,000	42,000	3	0.66	1.38	2.13	1.44	0.50	
DEN40K	40,000	32,000	80,000	56,000	3	0.79	1.75	2.75	1.50	0.53	
DEN50K	50,000	40,000	100,000	70,000	5	1.16	1.88	2.88	1.75	0.62	
DEN60K	60,000	48,000	120,000	84,000	5	1.31	2.00	3.13	2.00	0.69	
DEN70K	70,000	56,000	140,000	98,000	8	1.47	2.13	3.25	2.19	0.76	
DEN80K	80,000	64,000	160,000	113,000	8	1.59	2.25	3.50	2.38	0.82	
DEN90K	90,000	72,000	180,000	127,000	8	1.94	2.50	3.88	2.38	0.83	
DEN100K	100,000	80,000	200,000	141,000	8	2.06	2.75	4.25	2.50	0.84	
DEN125K	125,000	100,000	250,000	176,000	8	2.60	3.00	4.88	2.63	0.92	
DEN150K	150,000	120,000	300,000	210,000	8	3.24	3.25	5.25	2.88	1.00	
DEN175K	175,000	140,000	350,000	240,000	8	3.51	3.50	5.75	3.13	1.10	
DEN200K	200,000	160,000	400,000	280,000	8	3.90	3.75	6.13	3.38	1.18	

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

High Performance Roundslings



General

Web Slings

Round Slings

> Sling Protection

Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Huggers Products

Lift-All Hoists

Plate Clamps

Lifting Devices

Wire

KEYFLEX[™] ROUNDSLINGS

with Technora® core

90,000

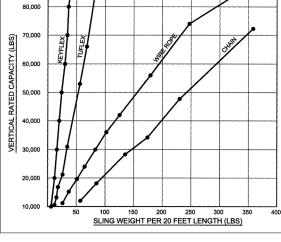
The chart at the right plots the weights of 20-ft. slings at various capacities:

Sling Type	Vertical Rating (lbs.)	Sling Weight (Ibs.)
KeyFlex	90,000	48
Tuflex®	90,000	86
Wire Rope	88,000	357
Chain	72,300	358

KeyFlex Benefits:

- Low weight per capacity reduces risk of injury to riggers.
- Great for low headroom situations.
- 1% stretch at rated capacity reduces abrasion and allows for better load control.
- KeyFlex with aramid load fiber is approved for use up to 350°F.
- Lightweight and compact size promote speedier rigging, transport and storage when compared to any other type of sling.

KeyFlex Capacities and Measurements										
		Rated Capa	acity (lbs.)*				Appro	ximate I	leasurements	5
Part Number	Vertical	Choker	Basket @ 90°	Basket @ 45°	Min. Length (ft.)	Wt. (Ibs per ft.)	Body Dia. Relaxed (in.)	Width @ Load (in.)	Minimum Hardware Diameter (in.)	Minimum Edge Contact Radii (in.)
KEN10K	10,000	8,000	20,000	14,100	3	0.3	1.00	1.56	0.69	0.23
KEN15K	15,000	12,000	30,000	21,000	3	0.5	1.13	1.75	0.88	0.31
KEN20K	20,000	16,000	40,000	28,000	3	0.6	1.25	2.00	1.06	0.37
KEN25K	25,000	20,000	50,000	35,000	3	0.7	1.25	2.13	1.25	0.47
KEN30K	30,000	24,000	60,000	42,000	3	0.8	1.38	2.13	1.44	0.50
KEN40K	40,000	32,000	80,000	56,000	3	1.0	1.75	2.75	1.50	0.53
KEN50K	50,000	40,000	100,000	70,000	5	1.3	1.88	2.88	1.75	0.62
KEN60K	60,000	48,000	120,000	84,000	5	1.7	2.00	3.13	2.00	0.69
KEN70K	70,000	56,000	140,000	98,000	8	1.9	2.13	3.25	2.19	0.76
KEN80K	80,000	64,000	160,000	113,000	8	2.1	2.25	3.50	2.38	0.82
KEN90K	90,000	72,000	180,000	127,000	8	2.4	2.50	3.88	2.38	0.83
KEN100K	100,000	80,000	200,000	141,000	8	2.6	2.75	4.25	2.50	0.84
KEN125K	125,000	100,000	250,000	176,000	8	3.0	3.00	4.88	2.63	0.92
KEN150K	150,000	120,000	300,000	210,000	8	3.5	3.25	5.25	2.88	1.00
KEN175K	175,000	140,000	350,000	240,000	8	4.8	3.50	5.75	3.13	1.10
KEN200K	200,000	160,000	400,000	280,000	8	5.3	3.75	6.13	3.38	1.18
vailable in l	nigher capac	ity and/or sh	norter length	versions.			Technora	is a regist	ered trademark	of Teijin LTD



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A WARNING

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.



High Performance Roundslings

KEYFLEX™ULTRA ROUNDSLINGS

The Higher Capacity KeyFlex Roundsling

- **High Capacities**: Up to 1/2 million pounds in a vertical hitch, or 1 million pounds in a basket hitch.
- Rugged Construction: Our best 4-ply Tufhide[™] nylon jacket covers three individual KeyFlex roundslings with Technora[®] core.
- **High Value**: You get the *Lift-All* quality you expect which exceeds industry standards at a competitive price.
- Extra Utility: *KeyFlex* Ultra roundslings can be returned to *Lift-All* for disassembly, inspection, and re-tagging as individual slings.
- **Repairable**: The outer cover can be replaced.



KeyFlex Ultra is 87% lighter than comparable capacity wire rope slings.

This makes it easier to handle, and safer for workers to use.

	Rated Capacity (lbs.)*								
Part Number	Vertical	Choker	Basket @ 90°	Basket @ 45°					
KEN3P200	200,000	160,000	400,000	280,000					
KEN3P250	250,000	200,000	500,000	350,000					
KEN3P300	300,000	240,000	600,000	420,000					
KEN3P400	400,000	320,000	800,000	560,000					
KEN3P500	500,000	400,000	1,000,000	700,000					

Available in lengths up to 79 feet

Part Number	Component Sling Size	Minimum Sling Length (ft.)	Weight Per Foot (Ibs.)	Body Diameter Relaxed (in.)	Body Width @ Load (in.)	Minimum Edge Contact Radius	Minimum Hardware Diameter
KEN3P200	KEN80K	10	6.9	3.88	6.25	1.13	3.25
KEN3P250	KEN100K	12	8.6	4.75	7.75	1.25	3.25
KEN3P300	KEN125K	14	9.9	5.50	9.00	1.25	3.50
KEN3P400	KEN150K	15	15.8	6.00	10.50	1.50	4.25
KEN3P500	KEN200K	17	17.5	6.75	11.00	1.63	4.63

Technora is a registered trademark of Teijin LTD.

A WARNING

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

General Informatior

Slings

Round Slings

Sling Protection

Wire Rope

Web

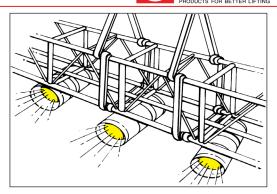
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Mesh Slings

Lift-All Hoists

Specialty Roundslings





General formation

Web

Round Slings

> Sling Protection

Rope

Chain Slings

Rigging Hardware

Mesh Slings

Huggers

Products

Hoists

Plate Clamps

_ifting

Load

Wire

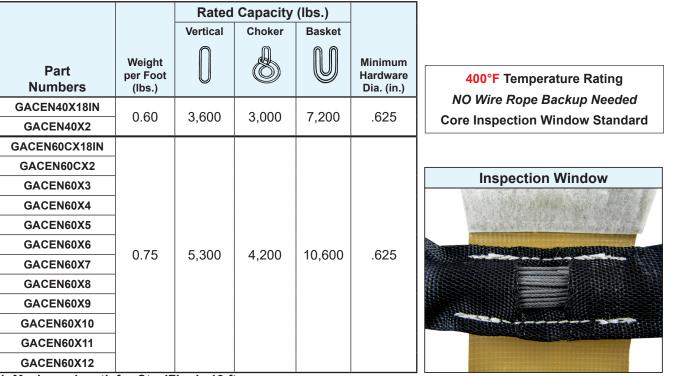
Designed for suspension applications

With safety being of the utmost importance in overhead suspension, *Lift-All's SteelFlex* roundslings combine flexibility, strength and heat resistance (400°F) with the soft feel of fabric to meet your most demanding suspension requirements.

SteelFlex roundslings feature steel galvanized aircraft cable wound in an endless configuration. This wire core is encased in a black double-wall, polyester jacket. A unique inspection window allows for easy inspection of the core for broken wires and corrosion. The result is a highly flexible, easy to use sling that complies with all of the current rigging codes. Stretch at rated capacity is approximately 1%.

Features and Benefits

- Black cover for stage rigging applications.
- No backup rigging required.
- Engineered window allows for core inspection.
- Superior flexibility makes rigging easy.
- Conforms to the load to grip securely.
- Superior cut resistance.



1. Maximum length for SteelFlex is 12-ft.

2. Sling lengths under 3' use a modified construction and do not have a seamless cover.







POLYESTER STAGE SLINGS

These lightweight roundslings are ideal for easy and inconspicuous suspension of stage sound and lighting equipment. Black sleeve material helps sling blend into the surroundings. Lift-All stage slings include all of the Tuflex[®] features and benefits except that the color coding of the slings is achieved by using a color-coded identification tag. Double-wall sleeve material is standard.



	Rated Capacity (Ibs.)*				Approximate Measurements					
Part Number			Vertical	Choker	Basket	Minimum Length (ft.)	Weight (Ibs. / ft.)	Body Diameter Relaxed (in.)	Body Width @Load (in.)	Minimum Hardware Diameter (in.)
BSEN30	Purple		2,600	2,100	5,200	1-1/2	.2	5/8	1-1/8	7/16
BSEN60	Green		5,300	4,200	10,600	1-1/2	.3	7/8	1-1/2	5/8
BSEN90	Yellow		8,400	6,700	16,800	3	.4	1-1/8	1-7/8	3/4







TUFLEX WIDE-LIFT

Wide Load Support and Balance

Tuflex wide-lift slings distribute the load over a wide area and offer better balance of larger loads, whether heavy or light.

Features and Benefits

Maintains all the basic Tuflex features plus...

Promotes Safety

Wide body distributes load over wide area and offers improved stability.

Saves Money

- Bearing point of eyes can be shifted to prolong sling life.
- Custom sizes available to fit your needs.

Saves Time

- Standard eye length is 12", making hook-up easy and fast.
- Standard body width is 12", making load balancing easier.

Note: Wide-lift slings should only be used in basket hitch.

Consult Lift-All for special requirements.



Code	Color of	Eyes	Vertical Basket Hitch Rated Capacity* (lbs.)
WLEN30	Purple		5,200
WLEN60	Green		10,600
WLEN90	Yellow		16,800
WLEN120	Tan		21,200

A

Always protect Roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

Round

Protection Sling

Rope Wire

Chain Slinds

Rigging Hardware

Mesh Slings

Load

To≷

Lift-All

Plate Clamp

Hoists

Devices Lifting

Inspection Criteria



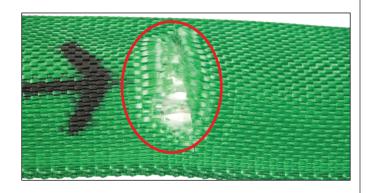
ROUNDSLING INSPECTION CRITERIA

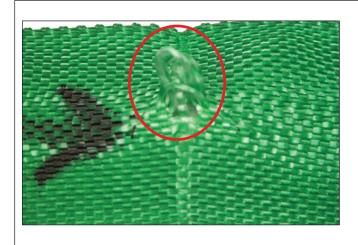
The following photos illustrate some of the damage that occurs and indicates the sling must be taken out of service. For inspection frequency requirements, see the General Information section in this catalog.

CUTS TO THE COVER

WHAT TO LOOK FOR: Broken fibers of equal length indicate that the sling has been cut. When core yarns are exposed, the damage to the yarns cannot be determined. Therefore, the sling must be taken out of service.

TO PREVENT: Always protect synthetic slings from being cut by using cut protection. See Sling Protection section in this catalog.





HOLES, SNAGS, or PULLS

WHAT TO LOOK FOR: Punctures or areas where fibers stand out from the rest of the sling surface. Inspect sling and remove from service if core yarn is exposed.

TO PREVENT: Avoid sling contact with protrusions, both during lifts and while transporting or storing. See Sling Protection section in this catalog.

ABRASIVE WEAR

WHAT TO LOOK FOR: Areas of the sling that look and feel fuzzy indicate that the fibers have been broken by contact and movement against a rough surface. Affected areas are usually discolored. Inspect sling and remove from service if core yarn is exposed.

TO PREVENT: Never drag slings along the ground. Never pull slings from under loads that are resting on the sling. Use wear protection between slings and rough surface loads. See Sling Protection section in this catalog.



Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Lift-All

Plate

Lifting

Huggers Products

General



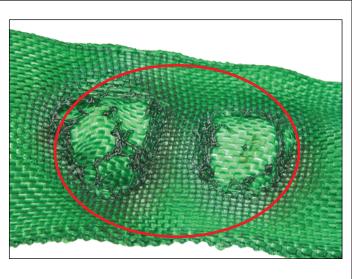
Inspection Criteria

ROUNDSLING INSPECTION CRITERIA

HEAT / CHEMICAL DAMAGE

WHAT TO LOOK FOR: Melted or charred fibers anywhere along the sling. Heat and chemical damage look similar and can damage sling fibers, compromising the sling's strength. Look for discoloration and/or fibers that have been fused together and may feel hard or crunchy. Slings showing heat or chemical damage must be removed from service.

TO PREVENT: Never use *Tuflex*[®] roundslings where they can be exposed to temperatures in excess of 200°F, or around chemicals without confirming that the sling material is compatible with the chemicals being used. For elevated temperatures up to 350°F, use *KeyFlex*[™] roundslings.





ILLEGIBLE OR MISSING TAGS

WHAT TO LOOK FOR: The information provided on the sling tag is important for knowing what sling to use and how it will function. If you cannot find or read all of the information on a sling tag, the sling must be taken out of service.

TO PREVENT: Never set loads down on top of slings or pull slings from beneath loads if there is any resistance. Load edges should never contact sling tags during the lift. Avoid paint or chemical contact with tags.

KNOTS

WHAT TO LOOK FOR: Knots compromise the strength of slings by not allowing all fibers to contribute to the lift as designed. Knots are rather obvious problems as shown here.

TO PREVENT: Never tie knots in slings.



Cuts to the cover NOT exposing internal core yarns. The double-walled jacket protects the inner core yarns from damage. If the damage appears only to the outer jacket and does not expose the inner core yarns, the sling may remain in service (except chemical or heat damage). The sling may also be returned to *Lift-All* for inspection and repair to the jacket.

TO PREVENT: Use the appropriate sling protection between the sling and all edges that come in contact with the sling. See the Sling Protection section in this catalog.

Chain Slings

Rigging Hardware

Mesh

Lift-All Hoists

Lifting Devices

Hoist





General

Web

Round

Sling otectic

Sling Protection

CUT AND WEAR PROTECTION

Selection of Sling Protection Products

Sling protection products need to be used in applications where

sling damage may occur. Cutting of synthetic slings during use is the number one cause of sling accidents. A variety of factors influence sling protection performance. Since no material is fully cut proof, a qualified person must select materials and methods that adequately protect slings from edges or surfaces. *Lift-All* can assist customers with their product selections.



A WARNING

Exposure of sling to edges with a radius that is too small can cause sling failure and loss of the load. Always protect synthetic slings from being cut or damaged by corners, edges, and protrusions using protection sufficient for each application.

Cut Protection versus Wear Protection

Lift-All sling protection products are divided into two categories, Cut Protection and Wear Protection. **Cut Protection Products** are designed to improve workplace safety. When placed between slings and edges, cut protection products act as a buffer to prevent sling cutting and to reduce bearing pressure levels at contact areas. **Wear protection products** serve to extend sling life by reducing abrasive wear and prevent marring of the load surfaces. The following table provides comparative sling protection performance for standard *Lift-All* products.

Ĕ				
Wire Rope	Product	Thickness	Color	Relative Cut Protection Performance Rating
> 22		CUT	PROTECTIO	IN
Chain Slings	Edge Defender [™] 3-Ply Polyester Flat Quick Sleeve Code: ED	0.45	Yellow	
kigging Hardware	Edge Defender Flex Plus Flat Quick Sleeve w/Dyneema® Code: FQSD	0.35	White/Yellow	
Slings Ha	Edge Defender Flex Plus Tubular Quick Sleeve w/ <i>Dyneema</i> Code: TQSD	0.24	White/Yellow	
Slir	Sling Shield [™] Code: SS	1" Radius	Silver/Red	
Load Huggers	COMMON WE	AR PROTECT	ION MATER	IALS - LOOSE PADDING
	Polyester Webbing 1600 <i>Webmaster</i> ® Pads	0.14	Yellow	
Products	Dyneema Sleeving (Light Duty Single Wall)	0.054	White	
Pro	Pukka (Synthetic Felt) Pads	0.33	White	
s s	Leather (Heavy) Pads	0.13	Tan	
Hoists	PVC Pads	0.17	Black	
1 T		SEWN-	ON TYPE PA	ADS
Rings	Polyester Webbing 1600 <i>Webmaster</i> Pads	0.14	Yellow	
	Dyneema Sleeving (Light Duty Single Wall)		Not Recor	mmended as a Sewn Sleeve
Clamps	Pukka (Synthetic Felt) Pads	0.33	White	
- <u>5</u>	Leather (Heavy) Pads	0.13	Tan	
ing	PVC Pads	0.17	Black	
= ŭ	Deufermen an en Detin m. The hen mend		6	arative performance of Lift All Cut Protection

Performance Rating: The bar graphs shown above reflect the comparative performance of *Lift-All* Cut Protection products against commonly used loose and sewn-on types of Wear Protection products.

Test Lift Qualification: To validate the suitability of sling protection products for each application, always complete one or more test lifts in a non-consequence manner. Technical Bulletin MS-10 available for additional information.

Cut Protection



General

Web

Slings

Round Slings

Sling Protection

> Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Products

Lift-All Hoists

Plate Clamps

Lifting

EDGE DEFENDER™

US Patent 9,597,996 Canadian Patent 2,900,438

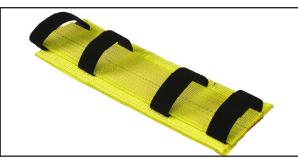
Flat Type Cut Protection Pads

(Code: ED)

The *Edge Defender* product line is patented technology. Constructed with multiple layers of protection material with *Kevlar*[®] aramid binding, the *Edge Defender* has become the new standard in edge cut protection technology for guarding synthetic slings. Protect your loads and your slings now by using the *Lift-All Edge Defender*!



- **Cut Protection:** The patented technology creates a high level of compression on the surface to produce a superior level of cut protection.
- Conforms to the Shape of Load Edges: The flat design will conform to the load shape during handling operations, yet the construction is firm enough to prevent wrinkling.
- **Construction Materials:** *Edge Defender* is made of polyester with *Kevlar* aramid binding.
- **Ease of Attachment:** The use of hook and loop straps allow quick attachment and helps to hold position on slings.
- Ease of Sling Inspection: The open design allows easy access to slings during frequent inspections.
- Available Sizes: Available in a variety of lengths and widths.



	Maximum I Standar	Pad Width d Sling Siz		Standard Edge Defender*							
Pad Width**	Nidth** Web Sling Tuflex [®] 1DvnaElex [™]				Standard Luge Derender						
(in.)	Width (in.)	Size	Size	12-inch	18-inch	24-inch	30-inch	36-inch			
3	2	EN30	-	ED3X12IN	ED3X18IN	ED3X24IN	ED3X30IN	ED3X36IN			
4	3	EN60	-	ED4X12IN	ED4X18IN	ED4X24IN	ED4X30IN	ED4X36IN			
6	4	EN150	KEN20K	ED6X12IN	ED6X18IN	ED6X24IN	ED6X30IN	ED6X36IN			
8	6	EN240	DEN50K	ED8X12IN	ED8X18IN	ED8X24IN	ED8X30IN	ED8X36IN			
10	8	EN600	KEN90K	ED10X12IN	ED10X18IN	ED10X24IN	ED10X30IN	ED10X36IN			
12	10	EN1000	DEN125K	ED12X12IN	ED12X18IN	ED12X24IN	ED12X30IN	ED12X36IN			

¹Double-Leg EN, KEN, or DEN

**Kevlar*[®] is a registered trademark of E.I. du Pont de Nemours and Company

**Maximum recommended size is shown.



General

Web

Round

Sling rotectior

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Tow

Hoist

Plate Clamp

Lift-All Hoists

Cut Protection

Edge Defender[™] Flex Plus Flat Style Cut Protection

US Patent 9,597,996 Canadian Patent 2,900,438

(Code: FQSD)

Our new *Edge Defender* Flex Plus made of *Dyneema*[®] fiber is woven to provide cut protection for a variety of edges and surfaces. The 'Flex Plus' is the addition of a double-plied layer of *Dyneema* with *Kevlar*[®] aramid binding. These pads are thinner, lighter, and more flexible than the standard *Lift-All Edge Defender*, yet maintain the same level of cut protection performance. The *Edge Defender* Flex Plus is well suited for handling loads with a straight, curved or non-uniform shaped edge, including coil handling applications.



Features and Benefits

Lighter and More Flexible: The patented *Edge Defender* Flex Plus technology creates a high level of compression on the interior surface to produce a superior level of cut protection. With the use of high modulus *Dyneema* material, this lighter 'Flex Plus' version of the flat *Edge Defender* is almost twice as flexible and maintains the same high level cut protection performance.

Ease of Attachment: Hook and loop straps allow quick attachment and helps to keep position on slings.

Ease of Inspection: The open design allows easy access to slings during their frequent inspections.

Available Sizes: Available in a variety of lengths and widths.

		Pad Widt rd Sling S			Edge D	efender F	lex Plus			
Pad Width**	Web Sling	Tuflex®	¹ KeyFlex [™]	Flat Quick Sleeves*						
(in.)	Width (in.)	Tunex	¹DynaFlex™	1-FT 18-INCH 2-FT 30-INCH 3-FT						
3	2	EN30	-	3FQSDX1	3FQSDX18IN	3FQSDX2	3FQSDX30IN	3FQSDX3		
6	4	EN150	KEN20K	6FQSDX1	6FQSDX18IN	6FQSDX2	6FQSDX30IN	6FQSDX3		
9	6	EN240	KEN50K	9FQSDX1	9FQSDX18IN	9FQSDX2	9FQSDX30IN	9FQSDX3		
10	8	EN600	KEN80K	10FQSDX1	10FQSDX18IN	10FQSDX2	10FQSDX30IN	10FQSDX3		
12	10	EN1000	KEN120K	12FQSDX1	12FQSDX18IN	12FQSDX2	12FQSDX30IN	12FQSDX3		

¹Double-Leg EN, KEN, or DEN

**Kevlar*[®] is a registered trademark of E.I. du Pont de Nemours and Company **Maximum recommended size is shown.

Lifting Devices

Cut Protection



US Patent 9,597,996

Canadian Patent 2,900,438

Edge Defender[™] Flex Plus Tubular Style Cut Protection (Code: TQSD)

Our new *Edge Defender* Flex Plus made of *Dyneema*[®] fiber is woven to provide cut protection for a variety of edges and surfaces. The 'Flex Plus' is the addition of a double-plied layer of *Dyneema* with *Kevlar*[®] aramid binding. These pads are thinner, lighter, and more flexible than the standard *Lift-All Edge Defender*, yet maintain the same level of cut protection performance. The *Edge Defender* Flex Plus is well suited for handling loads with a straight, curved or non-uniform shaped edge, including coil handling applications.



Features and Benefits

Lighter and More Flexible: The patented *Edge Defender* Flex Plus technology creates a high level of compression on the interior surface to produce a superior level of cut protection. With the use of high modulus *Dyneema* material, this lighter Flex Plus version provides a wraparound style pad in a flexible design, while maintaining a high level of cut protection performance.

360° of Protection: The *Edge Defender* Flex Plus tubular style pad is well-suited for use with roundslings and affords uniform cut protection around the exterior of the sling body.

Ease of Attachment and Removal: Hook and loop fastening allows quick attachment and easy access for sling inspections.

Pad Positioning: When sized properly, this tubular pad will offer protection in the desired location on slings.

Available Sizes: Available in a variety of lengths and widths.

			d Width Sling Si			Edge Defender Flex Plus						
Pad	Web Sling	Tuflex®KeyFlex™DynaFlex™				Tubular Quick Sleeves*						
Width** (in.)	Width (in.)	Single Leg EN	Double Leg EN	Single Leg KEN/DEN	Double Leg KEN/DEN	1-FT 18-INCH 2-FT 30-INCH 3-FT						
4.5	1	-	-	-	-	4TQSDLX1	4TQSDLX18IN	4TQSDLX2	4TQSDLX30IN	4TQSDLX3		
7	2	60	-	-	-	7TQSDX1	7TQSDX18IN	7TQSDX2	7TQSDX30IN	7TQSDX3		
8	-	150	60	30K	-	8TQSDX1	8TQSDX18IN	8TQSDX2	8TQSDX30IN	8TQSDX3		
10	-	240	120	50K	20K	10TQSDX1	10TQSDX18IN	10TQSDX2	10TQSDX30IN	10TQSDX3		
13	4	360	180	80K	30K	13TQSDX1	13TQSDX18IN	13TQSDX2	13TQSDX30IN	13TQSDX3		
16	-	1000	360	175K	80K	16TQSDX1	16TQSDX18IN	16TQSDX2	16TQSDX30IN	16TQSDX3		
20	8	-	800	200K	125K	20TQSDX1	20TQSDX18IN	20TQSDX2	20TQSDX30IN	20TQSDX3		
23	-	-	1000	-	175K	23TQSDX1	23TQSDX18IN	23TQSDX2	23TQSDX30IN	23TQSDX3		
26	10	-	-	-	200K	26TQSDX1	26TQSDX18IN	26TQSDX2	26TQSDX30IN	26TQSDX3		

**Kevlar*[®] is a registered trademark of E.I. du Pont de Nemours and Company

**Maximum recommended size is shown.

Sling Protectior

Wire

Rigging Hardware

Plate

Lifting



Cut Protection

SLING SHIELD[™]

US Patent 9,039,337 Canadian Patent 2,846,325

Sling Shields are constructed with a low-weight, high-strength aluminum center bar and offer the highest level of cut protection of our standard products. They provide a 1" bend radius to protect your slings from even the sharpest load edges and sustain sling tensions of up to 25,000 pounds per inch of sling contact width. Velcro® strips hold sling in place and a magnetic surface retains position on the steel load. Sling Shields are well suited for loads having a straight contact edge, such as I-Beams. Stop replacing your synthetic slings and wear pads due to cutting; use Lift-All Sling Shields.



Features and Benefits

- Magnetic: Holds position against steel loads for ease of rigging.
- Cut Protection: Sling Shields provide a very high level of cut protection, supporting sling tensions of up to 25,000 pounds per inch of contact width.
- **1" Bend Radius:** The design provides a bend radius to reduce bearing pressures for synthetic slings.
- Construction Materials: Sling Shields are made of high strength extruded aluminum bars.
- **Ease of Attachment:** The use of hook and loop straps allow quick attachment.
- Sling Position: Polycarbonate end retainers keep slings positioned on the Sling Shield.
- Ease of Sling Inspection: The open design allows easy access to slings during their frequent inspections.

Part	Inside Width	Overall Length	Weight	Widest Web Sling	Largest <i>Tuflex</i> [®] Size		Largest <i>KeyFlex</i> ™ Size		
Number	(in.)	(in.)	(lbs.)	(in.)	Single Leg	Double Leg	Single Leg	Double Leg	
SS12	2.50	4.50	2.2	2	EN180	EN90	KEN30K	KEN10K	
SS14	4.50	7.50	2.7	4	EN360	EN120	KEN80K	KEN15K	
SS16	6.75	10.00	3.2	6	EN1000	EN240	KEN100K	KEN40K	
SS112	12.75	16.00	4.8	12	EN1000	EN1000	KEN100K	KEN100K	
SS118	18.75	22.00	6.4	18	EN1000	EN1000	KEN200K	KEN150K	

LOAD RATINGS

The load rating for a *Sling Shield* is 25,000 lbs. of sling tension per inch of sling width. This rating is reduced when lifting at sling angles of less than 70°. Choker

- Do not exceed listed sling tensions.
- Prevent Sling Shield from sliding when using • at an angle.
- Do not use at side pull angles less than 45°.
- See Safety Bulletin for more detailed information (included with each product at time of purchase).

SIDE PULL	Side Pull Angle	Basket Cho Rating (Ibs
	65°	17,500
	60°	15,000
	55°	13,000
	50°	11,000
	45°	8,000

(lbs.)*

* Ultimate rating regardless of width.

Note: Lifting in a vertical hitch reduces the ratings by half.

Protection

Chain Slings

Rigging Hardware

Slings

Hoists Lift-All

Hoist

Plate Clamps

Lifting Devices

Mesh

Load

Wear Protection



WEAR PADS

The Importance of Wear Protection

Wear Protection products like wear pads extend the life of slings by reducing exposure to abrasion and other similar forms of damage. Wear pads also help protect load surfaces from damage along points of contact, particularly when used with steel slings. Always inspect slings by following the safety bulletin provided with each sling.

Features and Benefits

Sling and Load Damage Protection: Wear Protection can help to protect both the sling and the load from wear damage.

Construction Materials: A variety of padding materials are available to best suit the needs of each application.

Ease of Attachment: Some styles use hook and loop fastening to allow quick attachment and to help keep the position on the sling.

Ease of Sling Inspection: Length selection and other pad options are available that allow easy access to slings for frequent inspections.

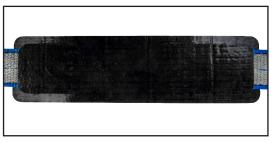
Available Sizes: Available in a variety of lengths and widths.



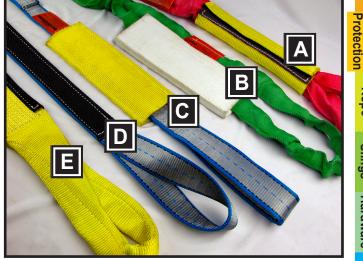
Full Body Wrap



Flat Quick Sleeve



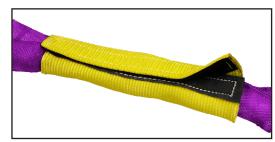




- Tubular Quick Sleeve Webmaster® 1600 **A**:
- B: Flat Quick Sleeve - Pukka Pad Material
- C: Flat Sewn Sleeve Webmaster[®] 1600
- D: Sewn-On Wear Pad Texturized Buffer
- E: Edge Guard Texturized Buffer



Flat Sewn Sleeve



Tubular Quick Sleeve





Ballistic Nylon (BN) 0.0625" Thick A 2-ply wear resistant fabric made of

bulked nylon fiber, appropriate for

wider sleeves.

WEAR PAD STYLES

SLEEVE TYPE

General Information

Web

Round Slings

Sling

Wire Rope Preferred for slings that are used in a variety of lifting situations. Easily repositioned along sling body to accommodate loads of various sizes. Sleeve allows sling to adjust to lift without movement against load edge.

cizee. cicere allette cillig te a	ajuot to int manout mo	vomont againet load ougo.	
Tubular Quick Sleeve		<i>Tuflex</i> [®] Roundslings Chain & Wire Rope All (except PVC)	High strength hook & loop sleeve for secure positioning. Tubular design gives maximum usable surface and maximum pad life.
Flat Quick Sleeve	Use with: Available Materials:	All Slings All (except PVC)	Hook & loop sleeve allow easy installation and removal. Friction keeps sleeve in place when rigging.
Flat Sewn Sleeve	Use with: Available materials:	All Slings All (except PVC)	Preferred for long-term use on single sling. May be repositioned as needed along sling length. May require factory installation for slings with hardware and single leg <i>Tuflex</i> .
Poly Pads	Use with: Available Materials:	Web Slings PVC	Slides easily along sling length for convenient sling protection. Must be installed at factory for web slings with hardware.
SEWN-ON TYPE For use on web slings where r	epetitive lifting situation	ons expose the sling to dam	age. Eliminates the need to position pad before each lift.
Sewn-On Wear Pad	Use with: Available Materials:	Web slings only All except ballistic nylon	For sling protection at expected wear points. Can be sewn anywhere on the sling, be any length and be on one or both sides.
Edge Guard	Use with: Available Materials:	Web slings only Texturized nylon	Helps protect both edges of the sling. Placement on the sling per customer requirement.



Texturized Buffer (TN) 0.09375" Thick

A bulked fiber is used to produce a

thin webbing with good abrasion

resistance.

PVC Belting (PVC) 0.125" Thick

Non-absorbent conveyor

type belting.

Wear Protection



WEAR PROTECTION

FLAT QUICK SLEEVES

	Flat Quick Sleeve Widths & Appropriate Sling Sizes										
-	Sleeve	Web	Tuflex®				Keyf	lex™	Wire Rope	Chain	
Part Number	Width ¹ (in.)	Sling Width ² (in.)	Single Leg EN	Double Leg EE	6-Part Braid B6E	8-Part Braid B8E	Single Leg EN	Double Leg EE	Sling Dia. (in.)	Sling Size (in.)	
3FQS	3	1	_	-	-	-	10K	_	1/4 – 7/16	_	
4FQS	4	2	30 - 60	30	-	-	15K - 20K	-	1/2 - 3/4	7/32 – 9/32	
5FQS	5	3	90 - 150	60	-	_	25K - 30K	10K	7/8 – 1-1/8	3/8	
6FQS	6	4	180 - 240	90 - 120	30	_	40K - 80K	15K – 20K	1-1/4 - 1-1/2	1/2	
8FQS	8	6	360	150 - 240	60	30	90K - 125K	25K - 30K	1-3/4 - 2-1/4	5/8	
10FQS	10	8	600 - 800	360	90 - 120	60 - 90	150K – 175K	40K – 80K	2-1/2	3/4 – 7/8	
12FQS	12	10	1000	600	150 - 180	120 - 150	200K	90K – 125K	_	1	

¹ Width of sleeve depends on the material being used. This chart is based on using Pukka Pad material.

² 1-ply or 2-ply only. For 3-ply or 4-ply, go to the next larger sleeve.

TUBULAR QUICK SLEEVES





Tubular Quick Sleeve Widths & Appropriate Sling Sizes

						phiophia	e Sing C	1263	
	Open		Tut	lex		Key	flex	Wire Rope	Chain
Part Number	Sleeve Width ¹ (A) (in.)	Single Leg EN	Double Leg EE	6-Part Braid B6E	8-Part Braid B8E	Single Leg EN	Double Leg EE	Sling Dia. (in.)	Sling Size (in.)
4TQS	4	-	-	-	-	-	-	1/4	_
5TQS	5	_	_	_	_	_	_	5/16 - 1/2	_
6TQS	6	30 - 60	-	_	_	10K	_	9/16 - 7/8	7/32
8TQS	8	90 – 150	30 - 60	_	_	15K – 30K	_	1 - 1-1/2	9/32 - 3/8
10TQS	10	180 – 240	90 - 120	30 - 60	30	40K – 50K	10K – 15K	1-3/4 - 2	1/2 – 5/8
12TQS	12	360	150 - 180	90	60	60K – 80K	20K – 30K	2-1/2	3/4
14TQS	14	600 - 800	240	_	90	90K – 125K	40K – 50K	_	7/8 – 1
16TQS	16	1000	360	120 - 150	120	150K – 175K	60K – 80K	_	1-1/4
18TQS	18	_	600	180 - 240	150 - 180	200K	90K – 100K	_	_
20TQS	20	_	800	_	_	-	125K	_	_
22TQS	22	_	1000	360	240	_	150K – 175K	_	_
24TQS	24	_	_	_	_	-	200K	_	_
26TQS	26	_	_	600	360	_	_	_	_
30TQS	30	_	-	800	600	-	-	-	_
34TQS	34	_	-	1000	800	-	_	_	_

¹ Tubular Pukka Pads not available under 10" open sleeve width.



Sewn-On Wear Pads (Code WP)

Texturized Buffer

nformation Slings General

Web

Mesh Slings

Clamps Plate

Devices Lifting



WEAR PROTECTION

STANDARD SEWN SLEEVES



		S	ewn Sle	eve Wi	dths &	Appro	priate S	ling Siz	es		
	Sleeve	Web		Tu	flex®		Keyflex [™] / DynaFlex [™]		Wire Rope	Chain	
Part Number	Width ¹ (in.)	Sling Width ² (in.)	Single Leg EN	Double Leg EE	6-Part Braid B6E	8-Part Braid B8E	Single Leg	Double Leg	Sling Dia (in.)	Sling Size (in.)	
3SS	3	1	30 – 60	-	_	_	-	_	1/4 – 3/4	7/32	
4SS	4	2	90 – 150	30 - 60	_	_	10 – 15K	_	7/8 – 1-1/8	9/32 - 3/8	
5 SS	5	3	180 – 240	90 – 120	30	_	20 – 30K	_	1-1/4 - 1-1/2	1/2	
6SS	6	4	360	150 - 180	60	30	40 – 80K	10 – 15K	1-3/4	5/8	
8SS	8	6	600 – 800	240 - 360	90 - 120	60	90 – 100K	20 – 40K	2 – 2-1/2	3/4 - 7/8	
10SS	10	8	1000	600	150 - 180	90 - 150	125 – 175K	50 – 80K	_	1	
12SS	12	10	-	800 - 1000	240	180	200K	90 – 125K	_	1-1/4	

¹ Width of sleeve depends on the material being used. This chart is based on using Pukka Pad material.

 $^{\rm 2}$ Chart is for 1-ply or 2-ply slings. For 3-ply or 4-ply slings, use the next larger sleeve.

POLY PADS

Easily movable poly pads are made of tough, woven polyester fabric impregnated and coated with PVC. Easy to position on both web slings and tiedowns. Poly pads are designed to give protection when lifting around load edges or abrasive loads.

Part Number	Poly Pad	Web Width (in.)
60115	3-1/2 X 12	1 – 2
60116	6 X 12	3 - 4

 and an e		-	
		1 - 1 - A 12 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	MILLIN
and the second second			all addresses

How To Order

1. Choose code for width and style

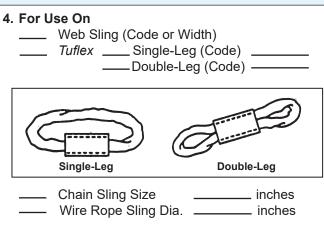
- TQS Tubular Quick Sleeve
- FQS Flat Quick Sleeve
- SS Flat Sewn Sleeve
- WP Sewn-On Wear Pad
- EG Edge Guard
- Poly Pad (Use Part No. above)

2. Choose a Material

- ____ 5/16" Heavy Duty Pukka-Pad
- <u>N</u> Webmaster[®] 1600 Nylon
- HL Heavy Leather
- TN Texturized Buffer
- BN Ballistic Nylon (Tubular only)
- <u>PVC</u> (Sewn-on Wear Pads only)

3. Length of Sleeve

(If sewn-on pad, describe position on sling) _____ Feet



WARNING

Wear pads may not prevent cutting or other sling damage. To avoid severe personal injury or death, keep all personnel clear of loads about to be lifted, and suspended loads.

Sling rotection

Web

Load luggers

To⊌

Lift-All Hoists

Lifting Devices





WIRE ROPE AND SLING BASICS

Wire rope slings are both flexible and resistant to Wire Rope Construction abrasion. These characteristics are determined by the WIRE ROPE rope construction. Fewer wires result in larger diameter CORE wires, better abrasion resistance, and reduced flexibility. More wires result in decreased wire diameter, reduced abrasion resistance, increased flexibility, and kink resistance. Wire rope products may be proof tested upon request. If WIRE STRAND WIRE CENTER they contain swaged terminations and will be used as a sling, they will be 100% proof tested. STRAND CENTER CORE The scale below shows the relative position of the sling constructions shown in this catalog as they pertain to 6x19 IWRC (163 WIRES) abrasion resistance and flexibility. TATA 9EZ FIEN TRait Casted EIPS **Extra Improved Plow Steel** = Robe FC = **Fiber Core** 3trt+9328at Cabled 140^{4,9}1,PartBraid IWRC = 3tot 93 Part Capled ottheoparteraid 8474798.Part Braid otet, 98, Part Braid **Independent Wire Rope Core** ot^{19 Single Part} ot²⁶ Single Part TXIXE2 Fex Better Better Abrasion Flexibility Resistance Total Number 163 271 343 399 489 798 931 978 1064 1141 1304 of Wires

WIRE ROPE SLINGS

Features and Benefits

iftΔII

Informatior

Web

Slings

Protection

Wire

Chain Slings

Rigging Hardware

Mesh Slings

Load

Round

Sling

General

- *Tuff-Tag*[™] for capacity and serial numbered identification for traceability and compliance with OSHA.
- Least expensive (per capacity), of all steel slings.
- Use of IWRC EIPS rope gives 15% greater capacity than IWRC IP (Improved Plow) ropes.
- Countless combinations of sling terminations: hooks, chokers, and thimbles are available to fit specific lift requirements.

D/d - Basket Hitch Effect

Tests have shown that when a sling body is bent around a diameter, the strength of the sling is decreased.

D/d ratio is the ratio of the diameter around which the sling is bent, divided by the body diameter of the sling.

The capacities in this catalog are based on the minimum D/d ratios that appear below each of the capacity tables. For more severe bending conditions, contact *Lift-All* for revised capacities.

Environmental Considerations

- IWRC must not be used at temperatures above 400°F.
- FC must not be used at temperatures above 180°F.
- Fiber core ropes should not be subjected to degreasing solvents.

Effect of Shackle Pin or Crane Hook on Sling Eye



Damage to slings can occur if the wrong size pin or hook is used. The width of the hook should never exceed the natural inside width of the eye.

The eye dimension for each type and size of the slings are shown in the capacity tables of this catalog. If your pin or hook is large, request an oversized eye.

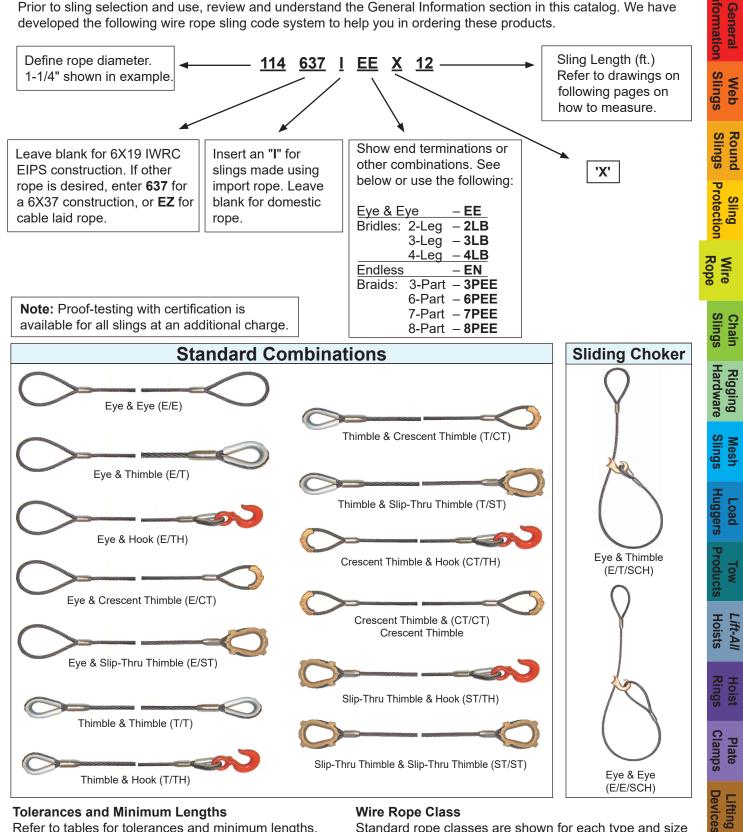
Hoists

Lift-All



HOW TO ORDER WIRE ROPE SLINGS

Prior to sling selection and use, review and understand the General Information section in this catalog. We have developed the following wire rope sling code system to help you in ordering these products.



Tolerances and Minimum Lengths

Refer to tables for tolerances and minimum lengths.

Stretch

Approximately 1% at rated capacity.

Wire Rope Class

Standard rope classes are shown for each type and size of sling in the charts. Specific rope constructions are available upon request.



PERMALOC[™] WIRE ROPE SLINGS

Lift-All Permaloc slings are made using the Flemish Eye splice technique to form the eyes. Unlike the simple return loop method that places 100% of its strength on the swaged sleeve, *Permaloc* slings have reserve strength should the sleeve become damaged in use.

Features and Benefits

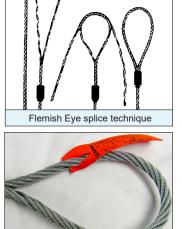
Maintains all the basic Lift-All wire rope sling features plus...

Length

Promotes Safety

Saves Money

- Reserve strength: Integrity of eyes not solely dependent upon steel sleeves.
- When specified, thimble eyes protect wire rope from wear for increased life.
- IWRC resists crushing better than FC ropes.
- Good abrasion resistance for longer life.



Tag Attachment

IWRC (Independent Wire Rope Core) Fiber core available at reduced capacities												
	IW	RC (li	ndepei	ndent	Wire F	Rope C	Core)	Fiber core	availab	le at reduce	d capacities	
			l		C		Å	8		5	Â	Representation of
			Rated	Capacity*	' (tons)		0		X		a La	
Wir Rop Clas	е	Rope Dia. (in.)	Vertical	Choker	Vertical Basket	¹ Min. Sling Length	Standard Eye Size W X L (in.)	Thimbled Eye Size W X L (in.)	Eye Hook Cap. (tons)	Crescent Thimble Eye Size W X L (in.)	Slip Thru Thimble Eye Size W X L (in.)	Sliding Choker Hook ** (in.)
		1/4	.65	.48	1.3	1'-6"	2 X 4	0.88 X 1.63	1	2 X 4	2.13 X 4.13	3/8
		5/16	1.0	.74	2.0	1'-9"	2.5 X 5	1.06 X 1.88	1	2 X 4	2.50 X 4.13	3/8
		3/8	1.4	1.1	2.9	2'-0"	3 X 6	1.13 X 2.13	1.5	2 X 4	2.50 X 4.13	3/8
	IWRC	7/16	1.9	1.4	3.9	2'-3"	3.5 X 7	1.25 X 2.25	2	2 X 5	2.38 X 4.38	1/2
<u>@</u>	N	1/2	2.5	1.9	5.1	2'-6"	4 X 8	1.5 X 2.75	3	2.25 X 6	2.38 X 4.38	1/2**
♦	EIPS	9/16	3.2	2.4	6.4	2'-9"	4.5 X 9	1.5 X 2.75	4.5	2.25 X 7	2.38 X 4.38	5/8
		5/8	3.9	2.9	7.8	3'-0"	5 X 10	1.75 X 3.25	4.5	2.75 X 7	3.38 X 6.63	5/8**
	6X19	3/4	5.6	4.1	11	3'-6"	6 X 12	2 X 3.75	7	3.25 X 8.5	3.38 X 6.63	3/4**
		7/8	7.6	5.6	15	4'-0"	7 X 14	2.25 X 4.25	11	4.5 X 10	3.75 X 7.13	7/8
		1	9.8	7.2	20	4'-6"	8 X 16	2 X 4.5	11	4.5 X 11.5	3.75 X 7.13	1
		1-1/8	12	9.1	24	5'-0"	9 X 18	2.88 X 5.13	15	4.88 X 13	4.38 X 8.38	1-1/8
		1-1/4	15	11	30	5'-6"	10 X 20	3.5 X 6.5	15	5.5 X 14.5	4.38 X 8.38	1-1/4
	IWRC	1-3/8	18	13	36	6'-0"	11 X 22	3.5 X 6.25	22	6 X 16	5 X 9.5	1-3/8
	N	1-1/2	21	16	42	7'-0"	12 X 24	3.5 X 6.25	22	6 X 17.5	5 X 9.5	1-1/2**
	EIPS	1-3/4	28	21	57	8'-0"	14 X 28	4.5 X 9	30	7 X 20	6.75 X 11.75	_
		2	37	28	73	9'-0"	16 X 32	6 X 12	37	7.X 23.5	8 X 14.5	-
	6X37	2-1/4	44	35	89	10'-0"	18 X 36	7 X 14	45	8.5 X 26	8 X 15.5	-
	9		54	42	109	11'-0"	20 X 40	-	-	8.5 X 29.5	-	-
Minimum sling length when using standard eyes. ** See sliding choker hook capacities in Hardware section when using these hooks.												

Note: Larger diameter slings available. Basket ratings are based on a minimum D/d of 25.

Length Tolerances (Single Part Wire Rope Slings): Standard length tolerance is plus or minus two rope diameters, OR plus or minus 0.5% of the sling length, whichever is greater.

A WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog.

Protection

nformatior General

Slings Web

Chain Slings

Plate Clamp Lifting Devices



Features and Benefits

Maintains all the basic Lift-All wire rope sling features plus...

- Bridles provide better load control and balance.
- Independent wire rope core resists crushing.
- Alloy steel hardware assures long life.
- Thimble eyes protect wire rope from wear for increased life.
- Reduces load damage by using fixed points on load.
- Easier rigging provided when hooking into fixed lifting points.

	AllOy	steel ha	luwale	assure	s long i	ne.		ро	oints.							S	지
	Bridl	e Slin	as		2-Leg	Bridl	e		3-Leg	g Bridl	e		4-Leg	Bridl	e	Slings	Round
	/ith Single Part Body)				LENGTH			LENGTH				Pr	Sling				
6	X37			6			8			8	ð	03	8	Co	0		Chain
-	F		9	Rated	Capacity	* (tons)		Rated	Capacity	/* (tons)		Rated	Capacity	* (tons)		н	על
D	lope Dia.	¹ Min. Sling	Eye Hook Cap.		\sim	\sim	Oblong Link Stock Dia.		\sim	\sim	Oblong Link Stock Dia.		\sim	\sim	Oblong Link Stock Dia.		Rigging
(in.)	Length	(tons)	60°	45°	30°	(in.)	60°	45°	30°	(in.)	60°	45°	30°	(in.)	Slings	Mes
┝	1/4 5/16	1'-3" 1'-6"	1	1.1 1.7	.91 1.4	.65 1.0	1/2 1/2	1.7 2.6	1.4 2.1	.97 1.5	1/2 1/2	2.2 3.5	1.8 2.8	1.3 2.0	1/2 3/4	sß	5
┝	3/8	1'-8"	1-1/2	2.5	2.0	1.0	1/2	3.7	3.0	2.2	3/4	5.0	4.1	2.0	3/4	Ξ	
2	7/16	1'-10"	2	3.4	2.0	1.4	3/4	5.0	4.1	2.2	3/4	6.7	5.5	3.9	1	Huggers	Load
+	1/2	2'-0"	3	4.4	3.6	2.5	3/4	6.6	5.4	3.8	1	8.8	7.1	5.1	1	ers	٩
	9/16	2'-2"	4-1/2	5.5	4.5	3.2	3/4	8.3	6.8	4.8	1	11	9.0	6.4	. 1-1/4	Pr	
- L - L	5/8	2'-4"	4-1/2	6.8	5.5	3.9	1	10	8.3	5.9	1-1/4	14	11	7.8	1-1/2	Products	Tow
	3/4	2'-9"	7	9.7	7.9	5.6	1-1/4	15	12	8.4	1-1/2	19	16	11	1-3/4	cts	
	7/8	3'-3"	11	13	11	7.6	1-1/4	20	16	11	1-1/2	26	21	15	2	Ŧ	
	1	3'-6"	11	17	14	9.8	1-1/2	26	21	15	1-3/4	34	28	20	2-1/4	Hoists	Lift-All
	1-1/8	4'-0"	15	21	17	12	1-1/2	31	26	18	1-3/4	42	34	24	2-3/4	ίΩ.	
2	1-1/4	4'-6"	15	26	21	15	1-3/4	38	31	22	2	51	42	30	2-3/4	N	Ŧ
	1-3/8	5'-0"	22	31	25	18	1-3/4	46	38	27	2-1/4	-	-	-	-	Rings	lois
	1-1/2	5'-6"	22	37	30	21	2	55	45	32	2-1/4	-	-	-	-	S	
	1-3/4	6'-6"	30	49	40	28	2-1/4	-	-	-	-	-	-	-	-	Clamps	
5	2	8'-0"	37	63	52	37	2-3/4	-	-	-	-	-	_	_	_	a	Plate

Length Tolerances (Single Part Wire Rope Slings): Standard length tolerance is plus or minus two rope diameters, OR plus or minus 0.5% of the sling length, whichever is greater. The legs of bridle slings, or matched slings are normally held to within one rope diameter.

Import hooks with latches standard on import rope bridles. Domestic hooks with optional latches are standard on domestic rope bridles.

WARNING Â

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog.



Iformation General

Slings

Web



ENDLESS SLINGS

Made from one 6X19 or 6X37 EIPS IWRC wire rope, mechanically joined with steel sleeves. Achieves higher capacities at a lower cost.

Splice

Length

Α

(in.)

8

8

8

10

10

10

10

16

18

20

Minimum

Sling

Length

3'-0"

3'-0"

3'-0"

6'-0"

6'-0"

6'-0"

6'-0"

8'-0"

8'-0"

8'-0"





Features and Benefits

Maintains all the basic Lift-All wire rope sling features plus...

Promotes Safety

Load stability and balance can be achieved by spreading sling legs in a basket or choker hitch.

Saves Money

Rope

Dia.

(in.)

1/4

5/16

3/8

7/16

1/2

9/16

5/8

3/4

7/8

1

Vertical

1.0

1.6

2.3

3.1

3.9

5.0

6.1

8.8

12

15

- Wear points can be shifted to extend sling life.
- The most versatile style of sling fewer slings to inventory.

Endless – Mechanical Splice

Vertical

Basket

2.0

3.1

4.5

6.1

7.9

10

12

18

24

Rated Capacity* (tons)

 $\langle \rangle$

Choker

.71

1.1

1.6

2.1

2.8

3.5

4.3

6.2

8.3

11

- More flexible than eye slings of comparable strength.
- Ideal for turning loads.



Do not lift with hook in splice area as sling damage may occur.

		and the second s
	A	
No.	Length	

Order length by circumference

Notes:

- 1. Three sleeves used on 3/4" diameter and larger.
- 2. Vertical and basket ratings are based on a minimum D/d of 5.

31 Do not lift with hook in splice area as sling damage may occur.

* **A** WARNING Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog.

Protection Sling Wire Chain Slings Rigging Hardware

Informatio General

Slings Web

Round Slings

Plate Clamps Devices Lifting

E-Z FLEX[™] CABLE LAID SLINGS

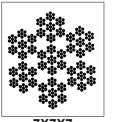
E-Z Flex slings are made from a machine laid rope that consists of seven individual, galvanized ropes.

Features and Benefits

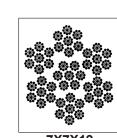
Maintains all the basic Lift-All wire rope sling features plus...

Saves Money

- Superior flexibility - resists damage from kinkina.
- Galvanized coating for corrosion resistance and longer life.

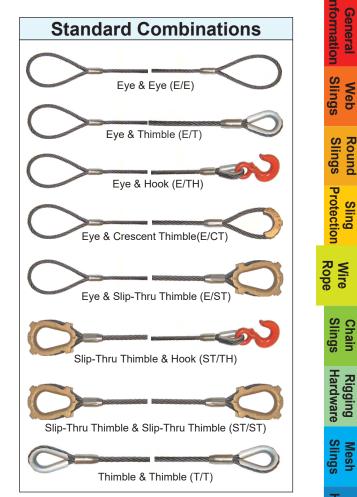


7X7X7









		Rated	Capacity*	(tons)		Å	120	0	Ň	Ň	Alexand
Dia	Rope imeter (in.)	Vertical	Choker	Vertical Basket	**Min. Sling Length	Standard Eye Size (in.) W X L	Thimbled Eye Size (in.) W X L	Eye Hook Cap. (tons)	Crescent Thimble Eye Size (in.) W X L	Slip Thru Thimble Eye Size (in.) W X L	Sliding Choker Hook (in.)
	1/4	.50	.34	1.0	1'-6"	2 X 4	.88 X 1.63	1	2 X 4	2.13 X 4.13	3/8
7X7X7	3/8	1.1	.74	2.2	2'-0"	3 X 6	1.13 X 2.125	1.5	2 X 4	2.13 X 4.13	3/8
X	1/2	1.9	1.3	3.7	2'-6"	4 X 8	1.5 X 2.75	2	2.25 X 6	2.38 X 4.38	1/2
-	5/8	2.8	1.9	5.5	3'-0"	5 X 10	1.75 X 3.25	3	2.75 X 7	3.38 X 6.63	5/8
	3/4	4.1	2.8	8.1	3'-6"	6 X 12	2 X 3.75	4.5	3.25 X 8.5	3.38 X 6.63	3/4
6	7/8	5.4	3.7	11	4'-0"	7 X 14	2.25 X 4.25	7	4.5 X 10	3.75 X 7.13	7/8
X	1	6.9	4.7	14	4'-6"	8 X 16	2.5 X 4.5	7	4.5 X 11.5	3.75 X 7.13	1
7X7X1	1-1/8	8.3	5.8	17	5'-0"	9 X 18	2 .88 X 5.13	11	4.88 X 13	4.38 X 8.38	1-1/8
	1-1/4	9.9	7.0	20	5'-6"	10 X 20	3.5 X 6.5	11	5.5 X 14.5	4.38 X 8.38	1-1/4
	1-1/2	13	9.1	26	7'-0"	12 X 24	3.5 X 6.25	15	6 X 17.5	5 X 9.5	1-1/2

**Minimum sling length when using standard eyes. Basket ratings are based on a minimum D/d of 10.

Other fittings are available upon request. Hooks with latches are standard on import assemblies; optional on domestic.

WARNING

*

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog.

Lift-Al

Load

Clamps Plate





E-Z FLEX[™] TWO LEG BRIDLE SLINGS

Features and Benefits

Maintains all the basic Lift-All wire rope sling features plus...

Promotes Safety

• Bridles provide better load control and balance.

Saves Money

- Excellent flexibility resists damage from kinking.
- Galvanized coating for corrosion resistance and longer life.
- Alloy steel hardware assures long life.

Saves Time

- Easier rigging when hooking into fixed lifting points.
- Sliding choker hook speeds rigging of bundled materials.

A WARNING

Do not lift with hook in splice area as sling damage may occur.

			E-Z	FLEX 2-	Leg Br						
Eye Hook				Ċ	Choker	\sim					
	Rope Dia. (in.)	<u>کم</u> 60°	45°	ated Capa	acity* (ton 7	s) 45°	<u>کم</u> 30°	**Min. Sling Length	Oblong Link Stock Dia. (in.)	Eye Hook Cap. (tons)	Sliding Choker Hook (in.)
	1/4	.87	.71	.50	.60	.49	.34	1'-3"	1/2	1	3/8
7X7X7	3/8	1.9	1.5	1.1	1.3	1.0	.74	1'-8"	1/2	1-1/2	3/8
X	1/2	3.2	2.6	1.9	2.2	1.8	1.3	2'-0"	3/4	2	1/2
	- 10									0	5/8
	5/8	4.8	3.9	2.8	3.3	2.7	1.9	2'-4"	1	3	5/6
	5/8 3/4	4.8 7.0	3.9 5.8	2.8 4.1	3.3 4.8	2.7 3.9	1.9 2.8	2'-4" 2'-9"	1	3 4-1/2	3/4
6										-	
X19	3/4	7.0	5.8	4.1	4.8	3.9	2.8	2'-9"	1	4-1/2	3/4
7X7X19	3/4 7/8	7.0 9.4	5.8 7.6	4.1 5.4	4.8 6.4	3.9 5.2	2.8 3.7	2'-9" 3'-3"	1	4-1/2 7	3/4 7/8
7X7X19	3/4 7/8 1	7.0 9.4 12	5.8 7.6 9.7	4.1 5.4 6.9	4.8 6.4 8.2	3.9 5.2 6.7	2.8 3.7 4.7	2'-9" 3'-3" 3'-6"	1 1 1 1-/4	4-1/2 7 7	3/4 7/8 1

** Minimum length based on thimbled eye and eye hook.

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog.

Wire

Chain Slings

Rigging Hardware

Mesh Slings

Load

To⊌

Hoist

Lift-All Hoists

Plate Clamps

*

E-Z FLEX[™] ENDLESS SLINGS

Features and Benefits

Maintains all the basic Lift-All wire rope sling features plus...

Promotes Safety

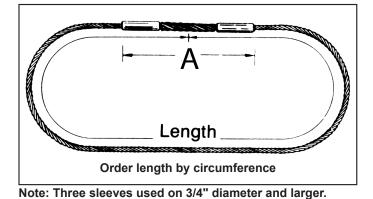
 Load stability and balance achieved by spreading sling legs in basket and choker hitches.

Saves Money

- Wear points can be shifted to extend sling life.
- Smaller rope diameter per capacity increases flexibility.

Saves Time

- Ideal for turning loads.
- More flexible than eye slings of comparable strength.



E-Z FLEX Endless Slings										
		Rated	Capacity*	(tons)						
P	Rope Dia. (in.)	Vertical	Choker	Vertical Basket	Min. Sling Length	Splice Length A (in.)				
	1/4	.83	.54	1.7	2'-3"	10				
7X7X7	3/8	1.8	1.2	3.6	3'-0"	10				
7X7	1/2	3.0	2.0	6.1	4'-0"	12				
	5/8	4.6	3.0	9.1	5'-0"	12				
19	3/4	6.7	4.3	13	6'-0"	18				
7X7X19	7/8	8.9	5.8	18	7'-0"	18				
	1	11	7.3	23	8'-0"	20				

Vertical and Basket ratings are based on a minimum D/d of 5.

Do not lift with hook in splice area as sling damage may occur.

A WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog.

Chain Slings

General

Web Slings

Round Slings

Sling Protection

Wire





HIDDEN TUCK HAND SPLICED SLINGS

Features and Benefits

Maintains all the basic Lift-All wire rope sling features plus...

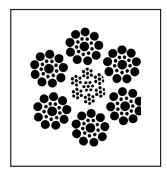
Promotes Safety

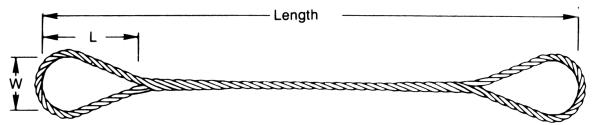
Hidden tuck buries wire ends to avoid snags and injuries.

Saves Time

• No steel sleeves to catch under load.

Note: Contact Customer Service for pricing and availability.





Hidden Tuck Hand Spliced – Fiber Core										
			EIPS FC			Å				
		Rated	Capacity*	(tons)		Å				
	Rope Dia. (in.)	Vertical Choker		Vertical Basket	Min. Sling Length	Standard Eye Size W x L (in.)				
	1/4	.54	.42	1.1	2'-0"	3 X 6				
	5/16	.83	.66	1.7	2'-3"	3 X 6				
\sim	3/8	1.2	.94	2.4	2'-6"	3 X 6				
EC	7/16	1.6	1.3	3.2	2'-9"	3.5 X 7				
EIPS	1/2	2.0	1.6	4.0	3'-0"	4 X 8				
Ξ	9/16	2.5	2.1	5.0	3'-6"	4.5 X 9				
6X19	5/8	3.1	2.6	6.2	4'-0"	5 X 10				
0	3/4	4.3	3.7	8.6	4'-6"	6 X 12				
	7/8	5.7	5.0	11	5'-6"	7 X 14				
	1	7.4	6.4	15	6'-0"	8 X 16				

Basket ratings are based on a minimum D/d of 15.

WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog.

Chain Slings

Lift-All Hoists

Lifting Devices

Hoist

*



General

Hugge

Load

Lift-All

Joist

Plate

Lifting

MULTI-PART CABLED SLINGS

3-Part Cabled

Constructed by hand cabling one rope to form a 3-part body with 2-part eyes.

Features and Benefits

Maintains all the basic Lift-All wire rope sling features plus...

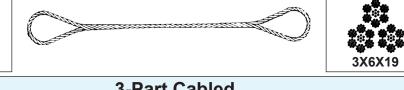
Saves Money

- Good abrasion resistance increases useful life of sling.
- Resists damage from kinking.

Saves Time

- Flexible and easy to handle.
- Small sleeve over component rope won't get in the way.





	0/(1/(10								0/(0/(10	1	
				3-F	Part Ca	abled					Web Slings
			Rated	Capacity*	(tons)		I	\$	4		as p
-			Ŷ	Å	ŶŶ		\Diamond	0	Ó		Round Slings
C	omponent Rope (in.)	Sling Body Dia. (in.)	Vertical	Choker	Vertical Basket	Min. Sling Length	Standard Eye W X L (in.)	Crescent Thimble Eye Size W X L (in.)	Slip-Thru Thimble Eye Size W X L (in.)		Sling Protection
υ	3/16	3/8	1.2	.82	2.4	2'-0"	3 X 6	2 X 4	2.13 X 4.13		
GA	1/4	1/2	1.9	1.3	3.9	2'-6"	4 X 8	2.25 X 4	2.38 X 4.38		Wire
7X19	5/16	5/8	3.0	2.1	6.0	3'-0"	5 X 10	2.75 X 5	3.38 X 6.63	-	e e
2	3/8	3/4	4.3	2.9	8.6	3'-6"	6 X 12	3.25 X 6	3.38 X 6.63		
IWRC	7/16	7/8	5.8	4.0	12	4'-0"	7 X 14	4.5 X 9	3.75 X 7.13		Sli
	1/2	1	7.6	5.2	15	4'-6"	8 X 16	4.5 X 9	3.75 X 7.13		Chain Slings
EIPS	9/16	1-1/8	9.6	6.6	19	5'-0"	9 X 18	4.88 X 10	4.38 X 8.38		
19 E	5/8	1-1/4	12	8.0	23	5'-6"	10 X 20	5.5 X 11	4.38 X 8.38		Har
6X19	3/4	1-1/2	17	11	34	7'-0"	11 X 22	6 X 12	5 X 9.5		Rigging Hardware
Basket ratings based on a minimum D/d of 10 (using sling body dia.).											

7-Part Cabled

Constructed by hand cabling one rope to form a 7-part body with 4-part eyes.

Features and Benefits

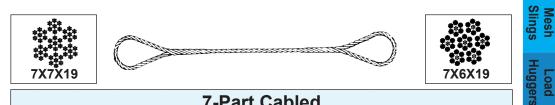
Maintains all the basic Lift-All wire rope sling features plus...

Saves Money

Resists damage from kinking.

Saves Time

- Superior flexibility makes sling easy to rig and use.
- Small sleeve over component rope won't get in the way.



			Deted						
	mponent Rope Dia. (in.)	Sling Body Dia. (in.)	Vertical	Capacity'	Vertical Basket	Min. Sling Length	Standard Eye W X L (in.)	Crescent Thimble Eye Size W X L (in.)	Slip-Thru Thimble Eye Size W X L (in.)
	1/8	3/8	1.3	.91	2.6	2'-0"	3 X 6	2 X 4	2.13 X 4.13
AC	3/16	9/16	2.8	1.9	5.6	2'-6"	4 X 8	2.25 X 6	2.38 X 4.38
G	1/4	3/4	4.7	3.2	9.3	3'-0"	5 X 10	2.75 X 7	3.38 X 6.63
7X19	5/16	15/16	6.5	4.5	13	3'-6"	6 X 12	3.25 X 8.50	3.75 X 7.13
	3/8	1-1/8	9.6	6.6	19	4'-0"	7.5 X 15	4.50 X 10	3.75 X 7.13
6X19	7/16	1-5/16	14	9.3	27	4'-6"	9 X 18	4.88 X 13	4.38 X 8.38
<u><u></u></u>					1	1	í	1	



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog.



6-Part Flat Braid

with web seized eyes.

Promotes Safety

and balance.

load control.

Constructed by braiding one rope to form a 6-part flat body

Features and Benefits

Maintains all the basic Lift-All

wire rope sling features plus...

Wide bearing surface

Resists damage from

Reduces load damage.

provides better load control

Resists rotation, improving

Wire Rope & Slings

MULTI-PART BRAIDED SLINGS



6X19

3/4

**************************************	6X7X19								6X6X19
6-Part Flat Braid									
			Rated	Capacity*	(tons)		6	h	N
-	mponent Rope Dia. (in.)	Sling Body Dia. (in.)	Vertical	Choker	Vertical Basket	Min. Sling Length	Standard Eye W X L (in.)	Crescent Thimble Eye Size W X L (in.)	Slip-Thru Thimble Eye Size W X L (in.)
	1/8	9/16 X 3/8	.84	.74	1.7	2'-0"	3 X 6	2 X 4	2.13 X 4.13
GAC	3/16	13/16 X 1/2	1.8	1.5	3.5	3'-0"	4 X 8	2.25 X 7.0	2.38 X 4.38
7X19 (1/4	1-1/8 X 11/16	2.9	2.6	5.9	3'-6"	5 X 10	3.25 X 8.5	3.38 X 6.63
×	5/16	1-3/8 X 7/8	4.1	3.6	8.2	4'-6"	6 X 12	4.5 X 11.5	3.38 X 6.63
	3/8	1-11/16 X 1	6.0	5.3	12	5'-0"	7 X 14	4.88 X 13	3.75 X 7.13
IWRC	7/16	2 X 1-3/16	8.6	7.5	17	6' 0"	8 X 16	6.0 X 16	3.75 X 7.13
	1/2	2-1/4 X 1-5/16	11	9.8	22	6' 6"	9 X 18	6.0 X 17.5	6 4.38 X 8.38
EIPS	9/16	2-1/2 X 1-1/2	14	12	28	7' 0"	10 X 20	7.0 X 20	4.38 X 8.38
19	5/8	2-13/16 X 1-11/16	17	15	35	8' 0"	11 X 22	7.0 X 23.5	5.0 X 9.50

49

Basket ratings based on a minimum D/d of 10 (using sling body dia.). See first page of Wire Rope

9' 0"

12 X 24

8.5 X 26

6.75 X 11.75

8X6X19

22

25

Saves Time

Saves Money

kinking.

Flexible - easy to rig

8-Part Round

Constructed by brai rope to form an 8-part round body with 4-part web seized eyes.

Features and Benefits

Maintains all the basic Lift-All wire rope sling features plus...

Promotes Safety

Resists rotation, for improved load control.

Saves Money

- The most kinkresistant wire rope sling available.
- Greater flexibility for reduced load damage.

Saves Time

Â

Flexible - easy to rig.

WARNING

to rig.	section.							
Braid								
iding one	8X7X19							

3-3/8 X 2

	8-Part Round Braid									
			Rated	Rated Capacity* (tons)			L			
C	omponent Rope Dia. (in.)	Sling Body Dia. (in.)	Vertical	Choker	Vertical Basket	Min. Sling Length	Standard Eye W x L (in.)	Crescent Thimble Eye Size W x L (in.)	Slip Thru Thimble Eye Size W x L (in.)	
	1/8	9/16	1.1	1.0	2.2	2'-0"	3 X 6	2 X 4	2.13 X 4.13	
GAC	3/16	13/16	2.4	2.1	4.7	3'-0"	4 X 8	2.25 X 6	2.38 X 4.38	
	1/4	1-1/8	3.9	3.4	7.8	3'-6"	5 X 10	3.25 X 8	3.38 X 6.63	
7X19	5/16	1-3/8	5.5	4.8	11	4'-6"	6 X 12	4.50 X 10	3.75 X 7.13	
	3/8	1-1/16	8.1	7.1	16	5'-0"	7 X 14	4.63 X 12	3.75 X 7.13	
IWRC	7/16	2	11	10	23	6' 0"	8 X 16	5.50 X 14	4.38 X 8.38	
N	1/2	2-1/4	15	13	30	6' 6"	9 X 18	6.0 X 16	5.00 X 9.50	
EIPS	9/16	2-1/2	19	16	38	7' 0"	10 X 20	6.50 X 18	5.00 X 9.50	
	5/8	2-13/16	23	20	46	8' 0"	11 X 22	7.0 X 20	6.75 X 11.75	
6X19	3/4	3-3/8	33	29	66	9' 0"	12 X 24	8.0 X 24	8.00 X 14.50	
Ba	asket ratings based on a minimum D/d of 10 (using sling body dia.). See first page of Wire Rope									

section.

Wire Rope

Chain Slings

Load Hunde

To⊌

Hoists Lift-All

Devices Lifting

> Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog.



General

Web Slings

Round Slings

Sling Protection

Wire Rope

> Chain Slings

> Rigging Hardware

Mesh Slings

Load Huggers

Tow Products

Lift-All Hoists

Plate Clamps

Lifting Devices

Hoist

BLACK WIRE ROPE SLINGS

An ideal solution for the Entertainment Industry

					Capacity lbs.)
	Wire ameter	Part Number	Description	Vertical	Basket @90°
7X19	3/8"	38719BTTX18IN 38719BTTX2 38719BTTX30IN 38719BTTX3 38719BTTX5 38719BTTX6 38719BTTX10 38719BTTX15 38719BTTX25 38719BTTX25 38719BTTX30 38719BTTX50	3/8" T/T 7x19 Black Coated GAC Import Wire Rope Sling	2,600	5,200
6X19	1/2"	12BGTTX18IN 12BGTTX2 12BGTTX30IN 12BGTTX3 12BGTTX5 12BGTTX6 12BGTTX10 12BGTTX15 12BGTTX20 12BGTTX20 12BGTTX30 12BGTTX30	1/2" T/T 6x19 Black Coated Galvanized IWRC <i>Permaloc</i> ™ Import Wire Rope Sling	5,000	10,200



Features and Benefits

- Standard sizes available from 18" to 50'.
- Designed for entertainment stage rigging.
- Heat resistant for your most demanding suspension applications.
- Black color conceals sling in the ceiling better than silver wire rope.
- A grey capacity tag with black lettering aids in the camouflage of the sling.
- Heavy duty thimble / thimble configuration protects rope eyes from wear for increased life.
- Available in 1/2" 6x19 black imported galvanized IWRC and 3/8" 7x19 black import GAC.



General

Web

Sling

Load Huggers

Products

Hoists Lift-All

Hoist Rings

Plate Clamps

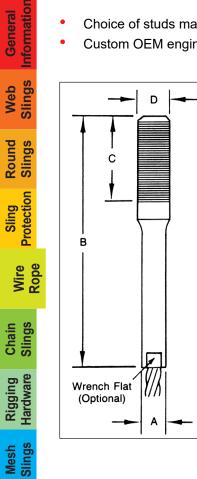
Lifting Devices

Tow

Wire Rope & Slings

SWAGED THREADED STUDS

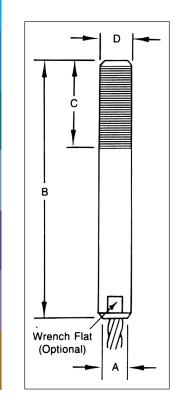
- Choice of studs made of specially selected carbon steel or stainless steel.
- Custom OEM engineering available.



	Straight Threaded Studs										
		Nominal		Dimensi	ons (in.)						
RopeBreakingPartDia.Strength*Number(in.)(tons)		After Swage A	Approx. B	С	D	N.C.** Thread	N.F. Thread				
STS-8	1/4	3.4	0.44	4.06	1.50	0.50	13	20			
STS-10	5/16	5.3	0.56	5.25	1.88	0.63	11	18			
STS-12	3/8	7.6	0.63	6.25	2.25	0.75	10	16			
STS-14	7/16	10.2	0.75	7.31	2.63	0.88	9	14			
STS-16	1/2	13.3	0.88	8.25	3.00	1.00	8	14			
STS-18	9/16	16.8	1.00	9.25	3.38	1.13	7	12			
STS-20	5/8	20.6	1.13	10.13	3.75	1.25	7	12			
STS-24	3/4	29.4	1.25	12.81	4.50	1.50	6	12			
STS-28	7/8	39.5	1.50	14.56	5.25	1.75	5	12			
STS-32	1	51.7	1.75	16.25	6.00	2.00	4.5	12			
STS-36	1-1/8	65.0	2.00	18.25	6.75	2.25	4.5	12			
STS-40	1-1/4	79.9	2.25	20.25	7.50	2.50	4	12			

* Nominal breaking strength based on 6X19 or 6X37 IWRC EIPS wire rope, with assembly used as a straight tension member.

** N.C. - Coarse threads are standard.



Turned Threaded Studs											
		Nominal		Dimensi							
Part Number	Rope Dia. (in.)	Breaking Strength* (tons)	After Swage A	Approx. B	С	D	N.C.** Thread	N.F. Thread			
TTS-10	5/16	5.3	0.63	5.72	1.75	0.63	11	18			
TTS-12	3/8	7.6	0.75	6.75	2.00	0.75	10	16			
TTS-14	7/16	10.2	0.88	7.66	2.25	0.88	9	14			
TTS-16	1/2	13.3	1.00	8.56	2.50	1.00	8	14			
TTS-18	9/16	16.8	1.13	9.63	2.75	1.13	7	12			
TTS-20	5/8	20.6	1.25	10.66	3.13	1.25	7	12			
TTS-24	3/4	29.4	1.50	12.69	3.75	1.50	6	12			
TTS-28	7/8	39.5	1.75	14.63	4.38	1.75	5	12			
TTS-32	1	51.7	2.00	16.66	5.00	2.00	4.5	12			
TTS-36	1-1/8	65.0	2.25	18.63	5.63	2.25	4.5	12			
TTS-40	1-1/4	79.9	2.50	20.66	6.25	2.50	4	12			
TTS-44	1-3/8	96.0	2.75	22.53	6.88	2.75	4	12			
TTS-48	1-1/2	114	3.00	24.50	7.50	3.00	4	12			

* Nominal breaking strength based on 6X19 or 6X37 IWRC EIPS wire rope, with assembly used as a straight tension member.

** N.C. - Coarse threads are standard.



Iformation General

Slings

Slings Round

Protection Sling

Rope Wire

Chain Slings

Hardware Rigging

Slings

Huggers Load

Products Tow

Hoists .ift-Al

Clamps Plate

Devices Lifting

Mesh

Web

SWAGED SOCKET ASSEMBLIES

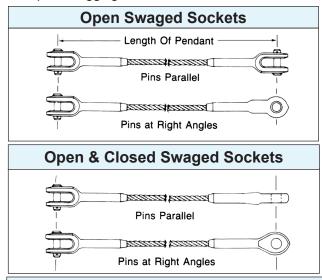
Features and Benefits

Promotes Safety

Achieves 100% of nominal rope breaking strength. When any wire rope assembly is being used as a sling, it shall then contain "sling" in the product description. This designation becomes additionally important whenever it contains swaged end hardware as it must then be 100% proof tested. In accordance with ASME B30.9, sling assemblies must also be tagged with necessary ID information.

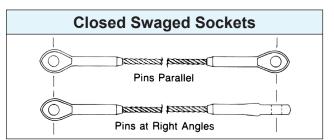
Saves Money

Custom engineered assemblies are available for specific rigging needs.



Rope Diameter (in.)	Minimum Pendant Length	Vertical Capacity* (tons)
1/4	11-0"	0.68
5/16	1'-3"	1.1
3/8	1'-3"	1.5
7/16	1'-8"	2.0
1/2	1'-8"	2.7
9/16	2'-0"	3.4
5/8	2'-0"	4.1
3/4	2'-5"	5.9
7/8	2'-10"	8.0
1	3'-2"	10
1-1/8	3'-7"	13
1-1/4	4'-0"	16

* Values given apply to 6X19 or 6X37 IWRC EIPS rope when pendants are used for slings. If used as boom suspension system or other applications, contact Lift-All for ratings.



	S	wage Soc	nsions – F	Forged Steel			
	Open Sock	et	$ \begin{array}{c c} + & - & - \\ \hline & & - & - \\ \hline & & - & - \\ \hline & & R & + \\ \hline & D & Weight \end{array} $		Closed Soc	W+	
●● Rope Dia.	R	0			w		
(in.)	(in.)	(in.)	(in.)	(lbs.)	(in.)	(in.)	(lbs.)
1/4	1.16	0.69	0.69	0.52	0.75	0.50	0.38
5/16	1.34	0.82	0.82	1.12	0.88	0.69	0.77
3/8	1.34	0.82	0.82	1.25	0.88	0.69	0.72
7/16	1.50	1.00	1.00	2.08	1.06	0.88	1.42
1/2	1.50	1.00	1.00	2.08	1.06	0.88	1.35
9/16	1.63	1.25	1.19	4.48	1.25	1.13	2.92
5/8	1.63	1.25	1.19	4.75	1.25	1.13	2.85
3/4	2.00	1.50	1.38	7.97	1.44	1.31	4.90
7/8	2.38	1.75	1.63	11.30	1.69	1.50	6.63
1	2.75	2.00	2.00	17.80	2.06	1.75	10.30
1-1/8	3.13	2.25	2.25	27.50	2.31	2.00	14.50
1-1/4	3.50	2.50	2.50	35.75	2.56	2.25	20.75



HOIST LINES AND STEEL BUTTONS

Hoist Line Cables

Lift-All hoist lines are made using 6X19 IWRC wire core rope for better resistance to abrasion and crushing. Available with carbon hooks for large throat openings, or alloy hooks for longer life.

Features and Benefits

Promotes Safety

- *Permaloc*[™] Flemish Eye splice for high strength efficiency.
- Meets OSHA 1910.184 and ASME B30.9.

Saves Money

- Heavy-duty thimble in eye extends useful life.
- Economical custom assemblies.

Saves Time

- No assembly time ready to install.
- Stainless steel latch keeps hook in proper place.

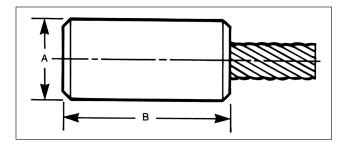


with thimbled eye ends available

6X19 Class - Bright (Uncoated)						
Diameter	Break Strength					
(in.)	IWRC					
3/8	14,000-lbs.					
7/16	19,000-lbs.					
1/2	25,000-lbs.					
9/16	32,000-lbs.					
5/8	39,000-lbs.					

Swaged Steel Buttons

Swaged steel buttons are designed for use as end stops on drum winding equipment such as hoists and winches.



After Swage Dimensions						
Rope Diameter (in.)	A (approx.)	B (approx.)				
1/4	0.63	1.13				
5/16	0.75	1.50				
3/8	0.88	1.75				
7/16	1.00	2.00 2.38 2.63				
1/2	1.13					
9/16	1.25					
5/8	1.38	2.88				
3/4	1.50	3.50				
7/8	1.75	4.13				
1	2.00	4.75				
1-1/8	2.25	5.25				
1-1/4	2.50	5.88				
1-3/8	2.75	6.50				
1-1/2	3.00	7.13				

Non-standard buttons are available.

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

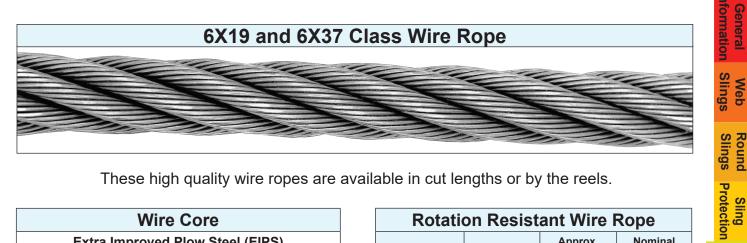
Products Huggers

Lift-All Hoists

Plate Clamp:



WIRE ROPE



These high quality wire ropes are available in cut lengths or by the reels.

	Wire	Core		Rotati	on Resist	ant Wire	Rope	
	Higher C	Plow Stee Capacities		19X7	Rope Dia. (in.)	Approx. Weight per Foot (Ibs.)	Nominal Breaking Strength (tons)	
0/13 0103	55				3/8	0.25	6.15	
Six strand ropes h	aving		6X19		7/16	0.35	8.33	
9 to 26 wires per s	strand				1/2	0.45	10.8	
Better Abrasion Re	sistance				9/16	0.58	13.6	
6X37 Clas					5/8	0.71	16.8	
	55			*******	3/4	1.02	24.0	
Six strand ropes h	aving		6X37	** 550 **	7/8	1.39	32.5	
27 to 49 wires per	strand				1	1.82	42.2	
More Flexibl	e	000 0			1-1/8	2.30	53.1	
Rope Diameter (in.)	v pe	pprox. Veight er Foot (Ibs.)	Nominal Breaking Strength (tons)	The nominal breaking strength of wire rope should be considered the straight line pull, which will ACTUALLY BREAK a new, UNUSED, rope (with both rope ends fixed to prevent rotation). The nominal breaking strength of the rope should NEVER BE USED AS ITS WORKING LOAD.				
1/4		0.12	3.40	NEVER BE USE	ED AS ITS WOR	KING LOAD.		
5/16		0.18	5.27	To determine the				
3/8	_	0.26	7.55	or NOMINAL bre DESIGN FACTO	eaking strength M DR. The design f			
7/16		0.35	10.2	upon the type of	machine and in	stallation, and th	ie work	
1/2		0.46	13.3	for your use.	must determine	the applicable d	esign factor	
9/16	_	0.59	16.8		1			
5/8		0.72	20.6	For example, a of or nominal breat	design factor of ' king strength of t			
3/4		1.04	29.4	DIVIDED BY FIV	/E to determine			
7/8		1.42	39.8	be applied to the	e rope system.			
1		1.85	51.7	Ũ	ave been establ		by ANSI,	
1-1/8		2.34	65.0	by ASME, and s organizations.	imilar governme	nt and industrial		
1-1/4		2.89	79.9	Ŭ				
1-3/8	_	3.50	96.0		ould ever be inst consideration of			
1-1/2		4.16	114	application.				
1-5/8	_	4.88	132	The above is ba	sed on the "Wire	Rope Safety B	ulletin"	
1-3/4		5.67	153		WIRE ROPE T			
1-7/8	_	6.50	174	Note: Specialty ro	pes are available	e libon request		
2		7.39	198	Note. Openany 10		s apon request.		



3/32

1/8

5/32

3/16

1/4

5/16

3/8

Wire Rope & Slings

CABLE & COMPONENTS

920

1,760

2,400

3,700

6,400

9,000

12,000

Galvanized & Stainless Steel Cable									
	Cable	Weight	Standard	Nominal Break Strength (lbs.)					
	Diameter (in.)	per Reel (lbs.)	Length (ft./Reel)	Galvanized Cable (GAC)	Stainless Steel Cable (SSAC) Type 304				
7X7	1/16	5	500	480	430				
	3/32	9	500	920	820				
	1/8	15	500	1,700	1,500				
	5/32	16	250	2,600	-				
•*•	3/16	26	250	3,700	-				
	1/4	28	250	6,100	-				

500

500

250

250

250

200

200

1,000

2,000

2,800

4,200

7,000

9.800

14,400

9

15

12

17

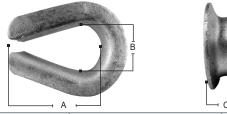
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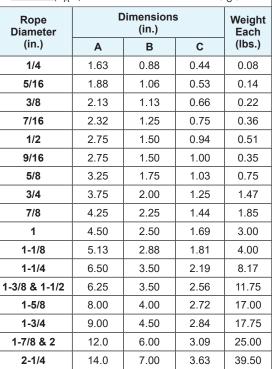
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52



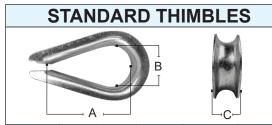
Heavy Duty Thimbles





Galvanized Cable Coated w/Clear Vinyl (VGAC)

Cable Construction	Diameter (in.)	to (in.)	per Reel (lbs.)	Length (ft./Reel)	Break Strength (lbs.)
	1/16	3/32	7	500	480
7X7	3/32	3/16	7	250	920
	1/8	3/16	10	250	1,700
	1/8	3/16	10	250	2,000
7X19	3/16	1/4	19	200	4,200
	1/4	5/16	28	200	7,000



Rope Dia.	Di	imensio (in.)	ns	Quantity Per Bag	Weight Per Bag
(in.)	Α	В	С	Fer Day	(lbs.)
1/8	1.31	0.69	0.25	100	4
3/16	1.31	1.31 0.69		100	4
1/4	1.31	0.69	0.38	100	4
5/16	1.50	0.82	0.44	80	3
3/8	1.63	0.94	0.50	80	4

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Lift-All Hoists



Lifting Plate Devices Clamps

General Information

Web Slings

Round Slings

Sling Protection

> Wire Rope

Chain Slings 7X19



CABLE & COMPONENTS

Wire Rope Clips

The following instructions, supplied by the Wire Rope Technical Board, will result in an approximate 80% efficiency rating when the clips are applied, as instructed, on GAC, SSAC, RRL or RLL; 6X19 class or 6X37 class: fiber core or IWRC non-Seale type construction wire rope. If applying to vinyl-coated ropes, strip the vinyl from the connection area first.

How to Apply Clips

- 1. Turn back the specified amount of rope from the thimble. Apply the first clip, fastening it one clip width from the dead-end of the wire rope (U-bolt over dead-end; live end rests in clip saddle). Tighten nuts evenly to recommended torque.
- **2.** Apply the next clip as close to the loop as possible. Turn nuts firmly but do not tighten.
- 3. If required, place additional clips equally between the first two. Tighten nuts; take up rope slack; tighten all nuts evenly on all clips to recommended torque.
- 4. NOTICE! Apply the initial load and re-tighten nuts to the recommended torque. Wire rope will stretch, and diameter is reduced when a load is applied. Inspect periodically and re-tighten to recommended torque.

Drop Forged Wire Rope Clips

	-	<u> </u>	-	-
Rope Dia. (in.)	Minimum Number of Clips	Rope Turn-back (in.)	Torque (ft./lbs.)	Weight Each (Ibs.)
1/8	2	3.25	4.5	.06
3/16	2	3.75	7.5	.10
1/4	2	4.75	15	.18
5/16	2	5.25	30	.30
3/8	2	6.50	45	.47
7/16	2	7.00	65	.76
1/2	3	11.5	65	.80
9/16	3	12.0	95	1.04
5/8	3	12.0	95	1.06
3/4	4	18.0	130	1.50
7/8	4	19.0	225	2.12
1	5	26.0	225	2.50
1-1/8	6	34.0	225	2.80
1-1/4	7	44.0	360	4.15
1-3/8	7	44.0	360	4.60
1-1/2	8	54.0	360	5.30



* Malleable clips are not to be used for overhead lifting. Use in light duty, non-critical applications only.

30

50

11

10

Rope

Dia.

(in.)

1/8

3/16

1/4

5/16

3/8

3



Inspection Criteria

hands over the wire rope.

Do not inspect a sling by passing bare

Hook throat opening is increased more than 15%. Hook is twisted out of plane by more than 10%.

INSPECTION CRITERIA FOR WIRE ROPE SLINGS

Remove slings from service when:

- Capacity information is missing or illegible.
- End attachments (including hooks) are cracked, deformed, or obviously worn.

OSHA 1910.184 requires wire rope slings to have "permanently affixed and legible identification markings".

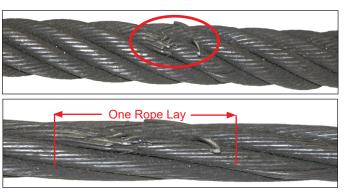
A

CAUTION

BROKEN WIRES

WHAT TO LOOK FOR: The individual wires that make up the strands in a wire rope can break for various reasons including fatigue and overload. Wire rope slings must be taken out of service when you find 10 or more broken wires in one rope lay, or 5 or more broken wires in one strand of one rope lay.

TO PREVENT: Avoid pulling rope across edges or protrusions.





WEAR

WHAT TO LOOK FOR: Flat areas on the individual wires. When wires have lost one third or more of their original diameter, the sling must be taken out of service.

TO PREVENT: Do not drag sling on the ground and do not drag loads over slings. Protect high wear areas.

CORROSION / HEAT DAMAGE

WHAT TO LOOK FOR: Absence of lubrication and discoloration of rope.

TO PREVENT: Hang slings for storage away from moisture. Do not use wire core slings above 400° F or fiber core slings above 180° F.





KINKING / BIRDCAGING

WHAT TO LOOK FOR: Bent strands of wire or strands standing out from their regular position in the body of the sling.

TO PREVENT: Protect rope from sharp edges of load. Do not shock load slings.

CRUSHING

WHAT TO LOOK FOR: A section of rope that is flattened, where the cross section is no longer round.

TO PREVENT: Never allow loads to be set on top of slings.



Round

Load

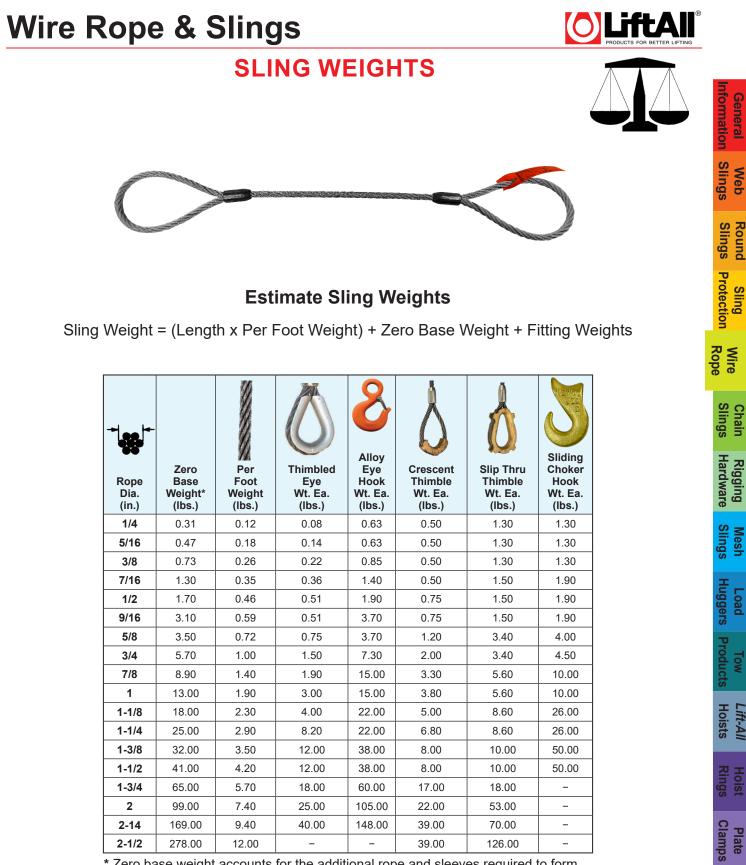
To≷

Lift-All

Hoist

Clamos Plate

Lifting Devices



* Zero base weight accounts for the additional rope and sleeves required to form two standard eyes.

Devices Lifting

General

Web

Sling

Rigging

Load

Tow

Lift-Al

Plate



SLING WEIGHTS

Estimate Bridle Sling Weights

Sling Weight = (Length x Per Foot Weight) + Zero Base Weight

	2-Leg	Bridle	3-Leg	Bridle	4-Leg Bridle		
-100-	LENGTH		LENGTH		LENGTH		
Rope Dia. (in.)	*Zero Base Weight (Ibs.)	Per Foot Weight (2-Legs)	*Zero Base Weight (Ibs.)	Per Foot Weight (Ibs.) (3-Legs)	*Zero Base Weight (Ibs.)	Per Foot Weight (Ibs.) (4-Legs)	
1/4	2.8	0.23	2.8	.35	4.7	0.46	
5/16	3.2	0.36	5.7	.54	6.9	0.72	
3/8	5.8	5.8 0.52		.78	12	1.0	
7/16	8.1	0.70	14	1.0	17	1.4	
1/2	10	0.92	17	1.4	26	1.8	
9/16	20	1.2	27	1.8	39	2.4	
5/8	21	1.4	34	2.2	42	2.9	
3/4	38	2.1	60	3.1	85	4.2	
7/8	58	2.8	89	4.3	121	5.7	
1	76	3.7	114	5.6	171	7.4	
1-1/8	108	4.7	163	7.0	250	9.4	
1-1/4	131	5.8	210	8.7	296	12	
1-3/8	197	7.0	320	11	-	-	
1-1/2	230	8.3	350	13	-	-	
1-3/4	380	11.0	-	-	-	-	
2	550	15.0	_	_	-	-	

* Zero base weight includes oblong link, thimbled eyes and sling hooks

ACKNOWLEDGMENT

Lift-All wire rope slings and rated capacities comply with all OSHA, ASME B30.9, and Wire Rope Technical Board publications. Portions of this section of the catalog were taken from the Wire Rope Sling User's Manual with the permission of the Wire Rope Technical Board and the American Iron and Steel Institute.





CHAIN SLING BASICS

Lift-All chain slings meet or exceed all OSHA, ASME B30.9 and NACM standards and regulations

Lift-All chain slings, available in grade 100 for 7/32" through 3/4", and grade 80 for 7/8" up to 1-1/4" are recommended for rugged industrial applications in harsh environments where flexibility, abrasion resistance, and long life are required. OSHA required annual inspections can be performed by *Lift-All* trained personnel.

Features and Benefits

Promotes Safety

- Permanent steel capacity tag is serialized for identification.
- Welded slings offer the security of tamper-proof assemblies.

Saves Money

- Alloy Steel construction assures long life.
- Can be repaired, proof-tested, and re-certified by *Lift-All*.

Saves Time

- Easy to inspect for damage.
- Stores easily.

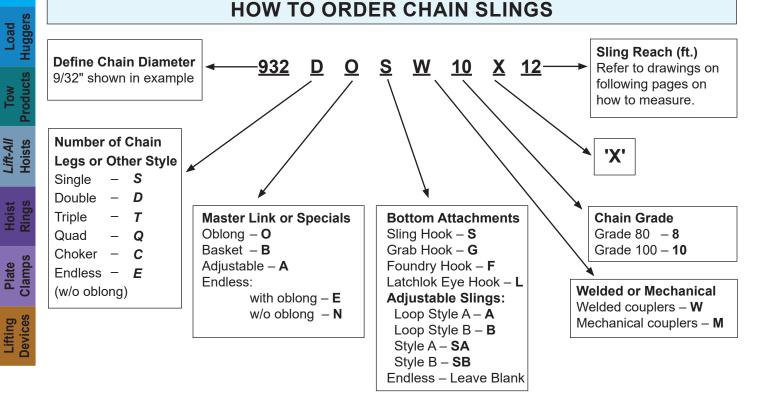
Use of Chain Under Heat Conditions

When the chain itself is heated to temperatures shown below, the Working Load Limit (Rated Capacity) should be reduced as indicated.

Temperature of Chain (°F)	Load Lim	of Working it While at erature	Permanent Reduction of Working Load Limit After Exposure to Temperature			
	Grade 80	Grade 100	Grade 80	Grade 100		
Below -40	Do Not Use	Do Not Use	None	None		
Below -20	None	Do Not Use	None	None		
400	10%	15%	None	None		
500	15%	25%	None	5%		
600	20%	30%	5%	15%		
700	30%	40%	10%	20%		
800	40%	50%	15%	25%		
900	50%	60%	20%	30%		
1000	60% 70%		25%	35%		
Over 1000	REMOVE FROM SERVICE					

Consult Lift-All about galvanized chain.

Consult Lift-All about chain to be used in pickling operations.



Sling Protection

Wire Rope

> Chain Slings

Rigging Hardware

Mesh Slings

Chain Slings



CHAIN SLING BASICS

Grade 100

- Available in sizes 7/32" through 3/4".
- Higher capacity per chain size can be used as an increased safety factor.
- Higher capacity may allow use of smaller diameter chain for your lifts, reducing sling weight and cost.
- Extreme abrasion resistance more durable.
- Powder-coated attachments for corrosion resistance.

Grade 80

- Available in sizes 7/8" through 1-1/4".
- Greater temperature tolerance.

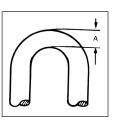
All Chain Slings

- Meet or exceed all OSHA, ASTM and NACM standards.
- Welded or mechanically assembled.

Chain	Wear	Allow	ance
-------	------	-------	------

Determine wear by measuring cross section at link ends. If worn to less than the minimum thickness allowable, chain should be removed from service.

Chain Size (in.)	Minimum Allowable Thickness - A (in.)
7/32	.189
9/32	.239
3/8	.342
1/2	.443
5/8	.546
3/4	.687
7/8	.750
1	.887
1-1/4	1.091



Minimum thickness based on OSHA recommendations.

	¹ Rated Capacity For Chain Slings									Hardware				
	Size of Chair	1	90°	60°	45°	30°	60°	45°	30°	Nom				Slings
Grade	(in.)	(mm.)	Single Chain	Double	e Chain SI	ings*		Quad Chair	n Slings*	Dimen (in Inside	.) Inside	Approx. No. of Links	Approx. Weight per 100	Huggers
100	7/32	5.5	@ 90° (lbs.) 2,700	4,700	(lbs.) 3,800	2,700	7,000	(lbs.)** 5,700	4,000	Length 0.676	Width 0.312	per ft. 17.8	ft. (lbs.) 44	
100	9/32	7.0	4,300	7,400	6,100	4,300	11,200	9,100	6,400	0.883	0.395	13.6	73	Pro
100	3/8	10.0	8,800	15,200	12,400	8,800	22,900	18,700	13,200	1.247	0.574	9.6	144	Products
100	1/2	13.0	15,000	26,000	21,200	15,000	39,000	31,800	22,500	1.559	0.734	7.7	246	ts
100	5/8	16.0	22,600	39,100	32,000	22,600	58,700	47,900	33,900	1.916	0.855	6.3	370	Н
100	3/4	20.0	35,300	61,100	49,900	35,300	91,700	74,900	53,000	2.397	1.070	5.0	580	Hoists
80	7/8	22.0	34,200	59,200	48,400	34,200	88,900	72,500	51,300	2.250	1.137	5.3	776	
80	1	26.0	47,700	82,600	67,400	47,700	123,900	101,200	71,500	2.664	1.348	4.5	995	콘
80	1-1/4	32.0	72,300	125,200	102,200	72,300	187,800	153,400	108,400	3.250	1.656	3.7	1,571	Rings

¹ Rated Capacity also referred to as Working Load Limit.

When using chain slings in a choke hitch, reduce the sling's rated capacity by 20%.

A Quad Chain Sling may not sustain the load evenly on each of its' four legs. The maximum working load limits are therefore set at the same values as the Triple Chain Slings of equal quality and size, and used with branches at the same angle of inclinations.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the chain chart on this page and the Effect of Angle chart in the General Information section of this catalog.

Rigging

Mesh

Load

Lift-All

Hoist

Clamps Plate

Devices Lifting

Iformation General

Slings

Slings Round

Protection Sling

Web

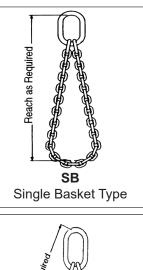




CHAIN SLINGS

BASKET TYPE CHAIN SLINGS

Grade	Chain Size (in.)	¹ Rated Capacity*@ 60° (lbs.)		
		Single	Double	
100	7/32	4,700	7,000	
100	9/32	7,400	11,200	
100	3/8	15,200	22,900	
100	1/2	26,000	39,000	
100	5/8	39,100	58,700	
100	3/4	61,100	91,700	
80	7/8	59,200	88,900	
80	1	82,600	123,900	
80	1-1/4	125,200	187,800	



Double Basket Type

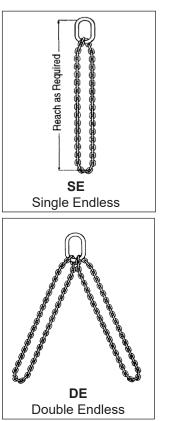
¹ Rated Capacity also referred to as Working Load Limit.

ENDLESS BASKET CHAIN SLINGS²

Grade	Chain Size	¹ Rated Capacity* (lbs.)				
Orace	(in.)	Single @ 90°	Double @ 60°			
100	7/32	2,700	4,700			
100	9/32	4,300	7,400			
100	3/8	8,800	15,200			
100	1/2	15,000	26,000			
100	5/8	22,600	39,100			
100	3/4	35,300	61,100			
80	7/8	34,200	59,200			
80	1	47,700	82,600			
80	1-1/4	72,300	125,200			

¹ Rated Capacity also referred to as Working Load Limit.

² Available as welded assembly only.



WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the chain chart on this page and the Effect of Angle chart in the General Information section of this catalog.

Hoist

Plate Clamps

Lifting Devices

Chain Slings



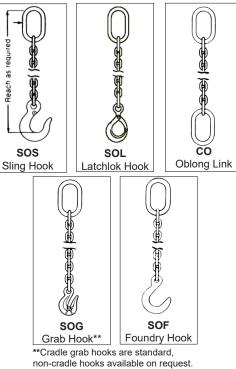
CHAIN SLINGS

SINGLE CHAIN SLINGS

Grade	Chain Size (in.)	¹ Rated Capacity* Vertical (Ibs.)	Approx. Weight 5-ft Reach Type SOS (lbs.)
100	7/32	2,700	4
100	9/32	4,300	5
100	3/8	8,800	10
100	1/2	15,000	18
100	5/8	22,600	27
100	3/4	35,300	44
80	7/8	34,200	58
80	1	47,700	79
80	1-1/4	72,300	121

¹ Rated Capacity also referred to as Working Load Limit.

When using chain slings in a choke hitch, reduce the sling's rated capacity by 20%.



Approx. Weight 5-ft. ¹Rated **Chain Size** Reach Type DOS Grade Capacity* @ 60° (in.) (lbs.) (lbs.) 100 7/32 4,700 8 100 9/32 7,400 10 100 3/8 15,200 17 100 1/2 26,000 32 100 5/8 39,100 51 100 3/4 61,100 74 80 7/8 59,200 99 80 1 82,600 134 80 1-1/4 125,200 211

¹ Rated Capacity also referred to as Working Load Limit.

When using chain slings in a choke hitch, reduce the sling's rated capacity by 20%.



**Cradle grab hooks are standard, non-cradle hooks available on request.

Lift-A



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the chain chart on this page and the Effect of Angle chart in the General Information section of this catalog.

DOUBLE CHAIN SLINGS



Informatior

Web

Round

Sling Protection

Wire Rope

> Chain Slings

Rigging Hardware

Mesh Slinds

Load

Lift-All Hoists

Plate Clamps

Lifting Devices

<u>§</u>

General

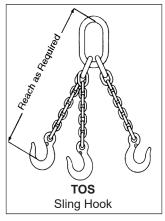
CHAIN SLINGS

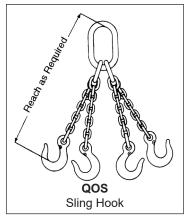
TRIPLE & QUAD CHAIN SLINGS

Grade	Chain Size (in.)	¹ Rated Capacity* @ 60° (Ibs.)	Approx. Weight 5-ft. Reach Type TOS (lbs.)	Approx. Weight 5-ft. Reach Type QOS (Ibs.)
100	7/32	7,000	12	16
100	9/32	11,200	16	19
100	3/8	22,900	28	36
100	1/2	39,000	53	63
100	5/8	58,700	81	100
100	3/4	91,700	116	140
80	7/8	88,900	154	187
80	1	123,900	209	250
80	1-1/4	187,800	358	406

¹ Rated Capacity also referred to as Working Load Limit.

When using chain slings in a choke hitch, reduce the sling's rated capacity by 20%.





ADJUSTABLE LOOP CHAIN SLINGS***

Grade	Chain Size	¹ Rated Cap (Ib				\bigcirc
	(in.)	Single	Double			
100	7/32	4,700	7,000	as Required.		JAK
100	9/32	7,400	11,200	ch as Hequin	as Required	R US
100	3/8	15,200	22,900	h as He	as Hequi	
100	1/2	26,000	39,400		L SE L	Style A
100	5/8	39,100	58,700		Heach	Hook is
100	3/4	61,100	91,700		T B B	attached directly to
80	7/8	59,200	88,900			the master
80	1	82,600	123,900	SA SA		link with a coupling link.
80	1-1/4	125,200	187,800	Style B**	Style B**	

*** Cradle grab hooks standard; non-cradle hooks available on request. ** Style B slings are furnished with approximately one foot of chain. When using chain slings in a choke hitch, reduce the sling's rated capacity by 20%.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the chain chart on this page and the Effect of Angle chart in the General Information section of this catalog.

Chain Slings



General

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

> Rigging Hardware

> Mesh Slings

Load Huggers

Tow Products

Lift-All Hoists

CHAIN SLINGS

ADJUSTABLE CHAIN SLINGS***

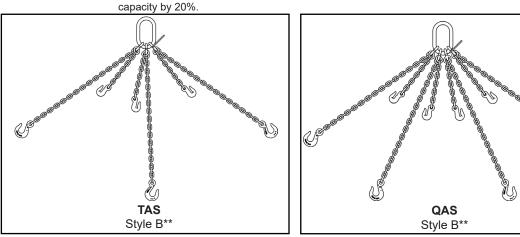
Grade	Chain Size	¹ Rated Ca	pacity* (lbs.)
Glade	(in.)	Single @ 90°	Double @ 60°
100	7/32	2,700	4,700
100	9/32	4,300	7,400
100	3/8	8,800	15,200
100	1/2	15,000	26,000
100	5/8	22,600	39,100
100	3/4	35,300	61,100
80	7/8	34,200	59,200
80	1	47,700	82,600
80	1-1/4	72,300	125,200

*** Cradle grab hooks standard; non-cradle hooks available on request. ** Style B slings are furnished with approximately one foot of chain. When using chain slings in a choke hitch, reduce the sling's rated capacity by 20%.

TRIPLE & QUAD ADJUSTABLE CHAIN SLINGS***

Chain Size	¹ Rated Capac	ity* (Ibs.) @ 60 [°]
(in.)	Grade 80	Grade 100
7/32	5,450	7,000
9/32	9,100	11,200
3/8	18,400	22,900
1/2	31,200	39,000
5/8	47,000	58,700
3/4	73,500	91,700
7/8	88,900	-
1	123,900	-
1-1/4	187,800	-

*** Cradle grab hooks standard; non-cradle hooks available on request. When using chain slings in a choke hitch, reduce the sling's rated



** Style B slings are furnished with approximately one foot of chain.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the chain chart on this page and the Effect of Angle chart in the General Information section of this catalog.

Clamps

Plate

Lifting



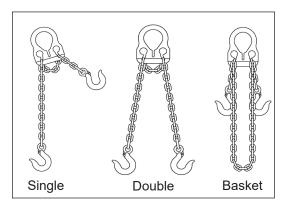
Chain Slings

ADJUST-A-LINK[™] GRADE 100 CHAIN SLINGS

The most versatile adjustable chain sling available.

Features and Benefits

- Alloy steel master control link for strength and reliability.
- Chain cannot be removed from the master control plate.
- Easily adjustable to accommodate a wide range of applications.
- Each assembly serialized for traceability.
- Complies with OSHA proof-tested and certified.
- Versatile one sling does many jobs.
- Yellow powder-coating on master plate and hooks prevents rust.
- Compact plate design fits larger hooks for easier rigging.
- Less bulk than typical double adjustable chain slings.
- High visibility yellow fittings.



Chain	Rated Capacity* (lbs.)		6-ft. Length		10-ft. Le	ngth	14-ft. Le	Latch	
Size (in.)	Single @ 90°	Double @ 60°	Part Number	Wt. (Ibs.)	Part Number	Wt. (Ibs.)	Part Number	Wt. (Ibs.)	Kit Part Number
7/32	2,700	4,700	30001G10	4.2	30002G10	6.2	-	-	4404
9/32	4,300	7,400	30003G10	7.5	30004G10	10.5	-	-	4404
3/8	8,800	15,200	_	_	30005G10	18.5	30006G10	24.5	38LK
1/2⁺	12,000	20,800	_	_	30007	42	30008	52	12LK

Note: For AAL w/latches, insert an L after the first 5 numbers in the part number. Example: 30005LG10.

⁺ 1/2" size master link is flame cut, not forged; uses G80 capacity ratings.

A WARNING Adjust-A-Link slings should not be used at angles of less than 45°.

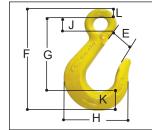
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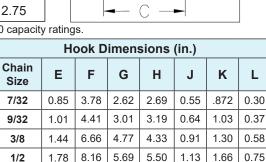
LENGTH

Chain must be seated at the base of adjusting slot of the master control link.

	Master Plate Dimensions (in.)											
Chain Size (in.)	Eye Width A	Eye Height B	Overall Width C	Overall Length D								
7/32	2.19	2.69	3.94	5.13								
9/32	2.88	3.19	5.06	6.50								
3/8	3.75	4.13	6.75	8.69								
1/2⁺	4.38	4.38	9.75	12.75								

⁺ 1/2" size master link is flame cut, not forged; uses G80 capacity ratings.





Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. *Adjust-A-Link* Slings should not be used at angles of less than 45°. Refer to the chain chart on this page and the Effect of Angle chart in the General Information section of this catalog.

General Information

Web

Round Slings

Protection

Sling

Plate

Clamp

110

Inspection Criteria

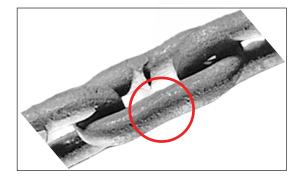


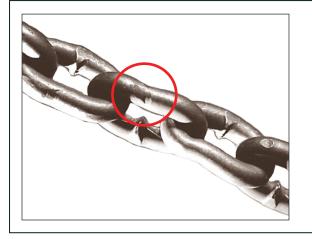
The following photos illustrate some of the common damage that occurs, indicating that the sling must be taken out of service. For inspection frequency requirements, see General Information section in this catalog.

STRETCHED CHAIN LINKS

WHAT TO LOOK FOR: Lengthening of the links and narrowing of the link width. Links that do not hinge freely with adjacent links are stretched and must be taken out of service; however, stretch can occur without this indicator. This damage indicates the sling has been extremely overloaded or subjected to shock loading.

TO PREVENT: Avoid overloading and shock loading.





BENT LINKS

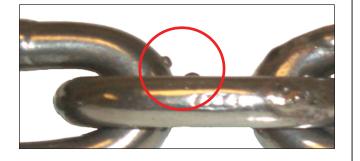
WHAT TO LOOK FOR: Bending usually occurs in only one or two adjacent links. Links will have an irregular shape when compared to other links.

TO PREVENT: Bent links are usually the result of the chain going around the sharp edge of a load during a lift. Load edges must be padded to protect both chain and load.

WELD SPATTER

WHAT TO LOOK FOR: Metallic bumps on any link of chain.

TO PREVENT: The heat from weld spatter can adversely affect the strength of a chain link. Slings must be shielded from welding operations.





GOUGED LINKS

WHAT TO LOOK FOR: Indentations on an otherwise smooth link surface.

TO PREVENT: Gouging of links is usually caused by heavy loads being dragged over or dropped onto the chain. Protect sling from these situations.



Slings Mesh

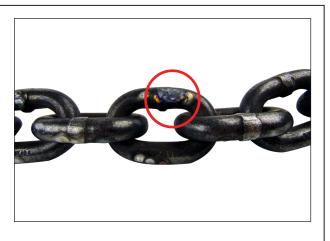


INSPECTION CRITERIA FOR CHAIN

HEAT DAMAGE

WHAT TO LOOK FOR: Discolored areas of chain

TO PREVENT: High temperatures begin to affect alloy chain strength at 400°F. When using chain slings at elevated temperatures, refer to the *Lift-All* temperature chart for working load reductions.





WORN LINKS

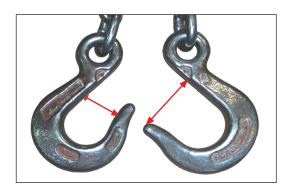
WHAT TO LOOK FOR: Excessive wear and a reduction of the material diameter, especially at the bearing points. Refer to *Lift-All* Wear Allowance Table for minimum allowable link thickness.

TO PREVENT: Wear is a natural result of sling use. Keeping load weights within the ratings of the slings being used will provide the maximum sling wear life.

DAMAGED HARDWARE

WHAT TO LOOK FOR: Hooks and other fittings usually show wear at the bearing points. Hooks bent more than 10° from the plane or opened more than 15% of the normal throat opening.

TO PREVENT: Never tip load hooks or lift with hardware on a load edge.





L*ift-All* Hoists

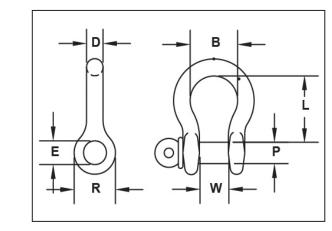
Plate Clamps





WIRE ROPE SLING HARDWARE

Screw Pin Anchor Shackles





Shackle Size		Capacity* ons)			Dimensi	ons (in.)			Weight Each (Ibs.)
D (in.)	СМ	Others	Р	E	w	R	L	B (min.)	
3/16	1/2	1/3	0.25	0.29	0.38	0.57	0.88	0.58	0.06
1/4	3/4	1/2	0.31	0.36	0.47	0.75	1.13	0.75	0.12
5/16	1	3/4	0.38	0.45	0.53	0.84	1.25	0.81	0.20
3/8	1-1/2	1	0.44	0.52	0.66	1.00	1.40	1.00	0.30
7/16	2	1-1/2	0.50	0.58	0.72	1.15	1.69	1.19	0.50
1/2	3	2	0.63	0.70	0.84	1.34	1.94	1.38	0.75
5/8	4-1/2	3-1/4	0.75	0.83	1.06	1.66	2.41	1.63	1.30
3/4	6-1/2	4-3/4	0.88	0.95	1.28	1.94	2.84	1.89	2.30
7/8	8-1/2	6-1/2	1.00	1.09	1.44	2.14	3.31	2.06	3.50
1	10	8-1/2	1.13	1.22	1.72	2.44	3.75	2.52	5.00
1-1/8	12	9-1/2	1.25	1.36	1.84	2.66	4.02	2.69	7.00
1-1/4	14	12	1.38	1.52	2.03	3.15	4.63	2.88	9.50
1-3/8	17	13-1/2	1.50	1.65	2.25	3.25	5.19	3.25	12.50
1-1/2	20	17	1.63	1.77	2.41	3.50	5.63	3.50	17.20
1-5/8	24	20	1.75	1.88	2.66	3.91	6.13	4.13	23.50
1-3/4	30	25	2.00	2.13	2.94	4.06	6.97	4.75	27.70
2	35	35	2.25	2.38	3.28	4.51	7.44	5.50	39.00

Note: Standard capacities and dimensions shown, but may vary depending on source of supply. Specify required capacity if critical. ¹ Rated Capacity also referred to as Working Load Limit.

- Carbon shackle, alloy pin
- Heat treated and tempered.
- Type 4A, Grade A, Class 2.
- Specification: RR-C-271F.
- Design Factor 5:1.
- Hot dip galvanized.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Do not use slings at angles of less than 30°. Refer to the Effect of Angle chart found in the General Information section of this catalog.

Information

Slings Web

Round Slings

Protection Sling

Wire Rope

Chain Slings

General

Plate Clamps

Lifting Devices



SHACKLE PADS

Always Protect Synthetic Slings from Edges

Shackles commonly contain screw threads and inlets to pin openings. These edges need to be guarded from contact with synthetic slings. Always use shackle pads in these areas to prevent possible equipment damage or injury to personnel from a loss of load.

Features and Benefits

Promotes Safety

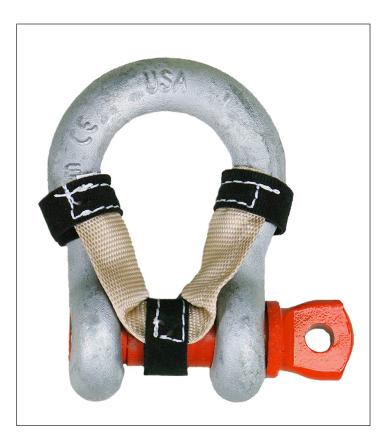
• Prevents possible equipment damage or injury to personnel from a loss of load.

Saves Money

Costs less to replace then expensive rigging hooks.

Saves Time

- Quick installation. The pad can be quickly installed using Velcro[®].
- Lightweight construction.
- Pad may be used on either end of the shackle.



Shackle Size	Part Number
5/8"	58SP
3/4"	34SP
1"	1SP
1-1/4"	114SP
1-1/2"	112SP
1-3/4"	134SP
2"	2SP
2-1/2"	212SP
3"	3SP

Open Shackle Pad



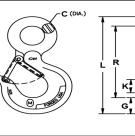
Lifting

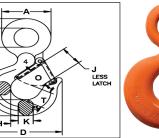


WIRE ROPE SLING HARDWARE

Eye Rigging Hooks

- Drop forged alloy steel.
- Load rating marked on each hook body.
- Pre-drilled latch tab allows addition of heavy-duty latch.
- May also be used on *Tuflex*® Bridle Roundslings and Web Bridle Slings
- Design factor 5:1.



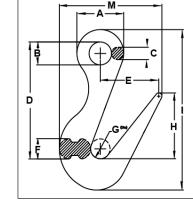


	¹ Rated	Part					Dir	nens	ion (in.)					Weight
	Capacity* (tons)	Number	А	В	с	D	G	н	J	к	L	ο	R	т	Each (lbs.)
	1	1AEH	1.50	0.75	0.38	3.12	0.87	1.01	0.93	0.63	4.37	0.93	3.13	0.87	0.66
	1-1/2	112AEH	1.75	0.88	0.44	3.37	0.94	1.11	0.97	0.71	5.04	0.97	3.66	0.97	1.12
	2	2AEH	2.13	1.10	0.50	3.80	1.06	1.21	1.02	0.74	5.65	1.02	4.09	1.03	1.46
Z	3	3AEH	2.50	1.25	0.64	4.20	1.26	1.43	1.19	0.94	6.55	1.16	4.67	1.16	2.42
Alloy	5	5AEH	3.08	1.56	0.77	5.11	1.44	1.63	1.50	1.38	7.97	1.41	5.78	1.53	4.10
4	7	7AEH	3.88	1.98	0.94	6.24	1.82	2.01	1.78	1.68	10.07	1.69	7.31	1.94	8.16
	11	11AEH	4.69	2.44	1.13	7.89	2.25	2.63	2.38	1.88	12.41	2.19	9.03	2.52	15.60
	15	15AEH	5.34	2.84	1.25	8.53	2.75	3.10	2.50	2.03	14.05	2.30	10.21	2.54	21.58
	22	22AEH	6.63	3.50	1.56	10.30	3.15	3.62	3.30	2.60	17.53	3.12	12.81	2.73	39.89
on	20	20CSEH	8.50	4.50	2.00	14.06	4.56	-	4.25	3.75	24.69	3.00	18.19	3.88	-
arbon	30	30CSEH	9.30	4.94	2.18	15.44	5.06	-	4.75	4.50	27.36	3.38	20.12	4.75	-
Ca	40	40CSEH	10.75	5.69	2.53	18.50	6.00	-	5.75	5.75	32.25	4.12	23.72	5.69	-

May also be used on *Tuflex* Bridle Roundslings and Web Bridle Slings.

Sorting Hooks

- e Quenched and tempered alloy steel.
- Long tapered point designed for easy grab in rings, pear links, eye bolts or lifting holes.
- Durable powder-coated finish.
- Do not load last 1" of the tip.
- Design factor 5:1.
- WLL at tip: 2.0-Ton
- WLL at bowl: 7.5-Ton





Dimensions (in.)											
Part Number⁺	A	В	С	D	E	F	G	Н	I	М	Weight (Ibs.)
2SORT	3.00	1.44	0.78	7.34	3.75	1.28	1.25	3.93	10.09	6.58	6.8

⁺ For Handle, add H to part number (2SORTH).

¹ Rated Capacity also referred to as Working Load Limit.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Do not use slings at angles of less than 30°. Refer to the Effect of Angle chart found in the General Information section of this catalog.

Informatior General

Slings Web

Slings Round

Protection Sling

Rope Wire

Tow

Hoist

Plate Clamps

Lifting Devices

Hoists Lift-All

*



General formation

Slings Web

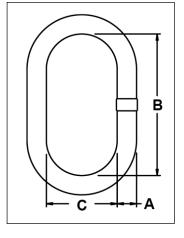
Slings Round

Sling Protection

WIRE ROPE SLING HARDWARE

Alloy Oblong Master Link

- Drop forged through 1". .
- Larger sizes welded.
- Design factor 5:1.





							Rope
	ated acity*	Dert	Dim	ensions* (ir	ı.)	Weight	
Tons	lbs.	Part Number	A Oblong Size (Diameter)	B Inside Length	C Inside Width	Each (lbs.)	Chain Slings Ha
3.0	6,100	12DOL	1/2	5.00	2.50	0.9	Rigging Hardware
6.6	13,200	34DOL	3/4	6.00	3.00	2.5	Mesh Slings
11.2	22,400	1DOL	1	8.00	4.00	5.8	
16.2	32,400	114DOL	1-1/4	8.75	4.38	9.2	Load Huggers
24.5	49,000	112DOL	1-1/2	10.50	5.25	16	Tow Products
36.7	73,400	134DOL	1-3/4	12.00	6.00	25	
44.4	88,800	2G8OL	2	14.00	7.00	37	Litt-All Hoists
62.6	125,200	214G8OL	2-1/4	16.00	8.00	54	Hoist Rings
93.9	187,800	234G8OL	2-3/4	16.00	9.00	85	Plate Clamps
Rated Capacity a	also referred to as W	orking Load Limit.					nps



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Do not use slings at angles of less than 30°. Refer to the Effect of Angle chart found in the General Information section of this catalog.

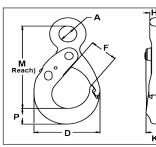
Devices Lifting



WIRE ROPE SLING HARDWARE

Eye Latchlok Hooks

- Heavy-duty latch with lock prevents accidental opening.
- Drop forged alloy steel.
- Durable powder-coated finish.
- Design factor 5:1.

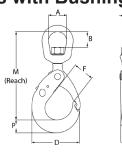




Part	¹ Rated C	Capacity			Dim	ensions	(in.)			Weight
Number	Tons	lbs.	Α	М	Р	D	F	н	К	Each (lbs.)
932G10ELLH	1.7	3,400	1.09	537	0.88	3.77	1.64	0.47	0.91	2.50
38G10ELLH	3.5	7,000	1.36	6.65	1.07	4.74	2.27	0.59	1.15	4.74
12G10ELLH	6.0	12,000	1.57	8.79	1.58	6.26	2.91	0.80	1.47	10.00
58G10ELLH	9.0	18,000	2.00	10.37	1.97	7.37	3.22	1.03	1.85	16.00

Swivel Eye Latchlok Hooks with Bushings

- Hook swivels beneath the eye.
- Heavy-duty latch with lock prevents accidental opening.
- Durable powder-coated finish.
- Positive locking hook.
- Design factor 5:1.





Part	Size		ated acity			D	imensi	ons (in	.)			Weight Each
Number		Tons	lbs.	н	м	Р	D	F	Α	В	к	(lbs.)
932G10SLLH	9/32	1.7	3,400	0.62	7.17	0.88	3.77	1.64	1.50	1.33	0.91	3.5
38G10SLLH	3/8	3.5	7,000	0.77	8.73	1.07	4.76	2.26	1.75	1.63	1.15	4.8
12G10SLLH	1/2	6.0	12,000	0.93	11.18	1.58	6.26	2.91	1.00	1.76	1.47	10.6
58G10SLLH	5/8	9.0	18,000	1.00	13.35	1.97	7.37	3.22	2.75	2.38	1.85	17.0

Note: A swivel hook with a bearing design is also available. This version allows the hook to rotate freely while the load is applied.

USING LATCHLOK HOOKS SAFELY

- Δ Do not apply load unless latch and hook are completely closed and locked.
- Δ Make certain that the latch does not support any part of the load.
- Δ When lifting, make certain that the load is firmly seated in the base (bowl) of the hook.
- △ Inspect hook and latch periodically. If the hook or latch is damaged or if the latch fails to interlock with the tip, the hook should be removed from service.
- Δ Do not exceed the working load limit.
- Δ Do not use if the hook is visibly distorted, damaged, or worn.
- Δ Keep body and other objects clear of the latch when closing to avoid the pinch point.
- Δ Do not side load or tip load hook.
- Δ User should be properly trained and understand safe rigging practices.

Wire Rope

Chain Slings

Rigging

Mesh Slings

Load

Tow

Lift-All Hoists

Plate Clamps

Lifting Devices

Round



General formation

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

> Mesh Slings

Load Huggers

Products

Lift-All Hoists

Plate Clamps

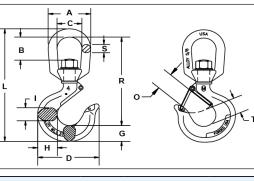
Lifting Devices

Tow

WIRE ROPE SLING HARDWARE

Swivel Eye Rigging Hooks

- Pre-drilled for latches.
- Heat-treated, quenched and tempered.
- Design factor 5:1.
- Shown with optional latch.





Rated	Part					I	Dimensi	ons (in.)		-			Weight
Cap.* (tons)	Number	A	В	С	D	G	н	I	L	R	S	т	0	Each (Ibs.)
1	1ASWH	2.00	1.11	1.31	3.06	0.87	1.05	0.63	5.83	4.63	0.38	0.87	0.93	1.05
1-1/2	112ASWH	2.50	1.38	1.50	3.33	0.94	1.11	0.71	6.83	5.44	0.50	0.97	0.97	1.56
2	2ASWH	3.00	1.65	1.75	3.67	1.06	1.21	0.88	7.76	6.25	0.63	1.03	1.06	2.50
3	3ASWH	3.00	1.65	1.75	4.20	1.27	1.43	0.94	8.40	6.49	0.63	1.16	1.16	3.20
5	5ASWH	3.50	1.77	2.00	5.11	1.44	1.63	1.31	9.76	7.53	0.75	1.53	1.41	5.36
7	7ASWH	4.75	2.39	2.75	6.24	1.82	2.01	1.68	12.42	9.67	1.00	1.94	1.69	10.56
11	11ASWH	5.50	2.55	3.25	7.69	2.25	2.63	1.88	14.89	12.06	1.13	2.46	2.22	19.00
15	15ASWH	6.00	2.47	3.50	8.37	2.59	2.94	2.19	15.79	11.95	1.25	2.62	2.23	26.75
22	22ASWH	7.75	3.82	4.75	10.19	3.00	3.50	2.69	21.18	16.68	1.50	2.74	3.05	51.80

Sliding Choker Hooks

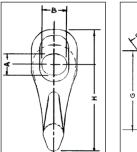
- Speeds rigging time of bundled loads.
- Reduces sling wear when used with thimbles. When used on multi-part slings, contact *Lift-All* for additional information.
- Saddle is rounded to minimize wear.
- Hook opening is large enough to take a galvanized plow steel thimble the same size as the hook size.

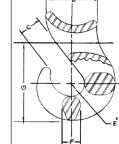
Hook	¹ Rated Cap.*				Dimens	sion (in.)			Weight
Number (Rope Dia.)	IMP (tons)	А	в	с	D	Е	F	G	н	(lbs.)
3/8 - 1/2	1.9	0.67	0.67	0.83	2.00	0.50	0.75	3.88	5.20	1.5
5/8	2.9	0.88	0.88	1.13	2.75	0.56	0.94	4.44	5.94	4.0
3/4	4.1	1.00	1.00	1.13	3.13	0.69	1.25	4.69	6.44	4.5

Contact *Lift-All* for domestic hook information, including larger sizes. ¹ Rated Capacity also referred to as Working Load Limit.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Do not use slings at angles of less than 30°. Refer to the Effect of Angle chart found in the General Information section of this catalog.







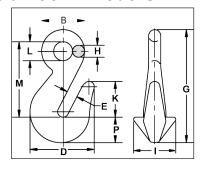






CHAIN SLING HARDWARE Eye Cradle Grab Hook – Code G

- For use with both G80 & G100 chain.
- Unique cradle grab design.
- Quenched and tempered alloy steel.
- 100% proof-tested.
- Fatigue rated.
- Durable powder-coated finish.
- Design factor 4:1.





	Chain	¹ Rated	Part				D	imens	ions (ir	ı.)				Weight
Grade	Size (in.)	Cap.* (lbs.)	Number	В	D	Е	G	Н	I	к	L	М	Ρ	Each (Ibs.)
100	7/32	2,700	732DECGH	1.20	1.68	.33	3.22	.33	.92	.99	.55	2.20	.69	0.35
100	9/32	4,300	932DECGH	1.40	1.93	.39	3.72	.39	1.07	1.07	.63	2.58	.76	0.55
100	3/8	8,800	38DECGH	1.78	2.86	.52	.481	.52	1.38	1.38	.75	3.27	1.02	1.39
100	1/2	15,000	12DECGH	2.28	3.69	.63	6.36	.63	1.81	1.81	1.06	4.23	1.53	3.05
100	5/8	22,600	58DECGH	2.75	4.53	.75	7.62	.75	2.13	2.13	1.25	5.06	1.80	4.36
100	3/4	35,300	34DECGH	3.50	5.23	.91	9.54	1.00	2.88	2.88	1.52	6.70	1.85	9.0
80	7/8	34,200	78G8ECGH	3.75	5.69	1.00	9.63	1.00	3.00	3.75	1.75	6.50	2.12	10.4
80	1	47,700	1G8ECGH	4.31	7.00	1.19	12.44	1.22	3.88	4.31	1.88	8.09	3.12	20.9
80	1-1/4	72,300	114G8CGH~	5.38	8.50	1.50	15.56	1.56	2.50	5.50	2.25	10.5	3.50	40

Foundry Hook – Code F

Note: 1-1/4" is a Non-Cradle type. Also, Non-Cradle Grab Hooks are available for other sizes upon request.

- For use with both G80 & G100 chain.
 - Throat opening to 6 inches.
 - Quenched and tempered alloy steel.
- 100% proof-tested.
- Fatigue rated.
- Durable powder-coated finish.
- Design factor 4:1.



D (REF)



	Chain	¹ Rated	Part						Dimen	sions (i	n.)					Weight
Grade	Size (in.)	Cap.* (lbs.)	Number	В	D	Е	G	н	I	к	L	м	N	0	R	Each (lbs.)
100	9/32	4,300	932DEFH	1.56	4.73	2.50	6.45	.47	1.00	1.56	.63	4.75	2.50	1.23	.25	2.4
100	3/8	8,800	38DEFH	2.00	5.72	3.00	7.88	.63	1.27	1.88	.80	5.77	3.00	1.50	.31	4.5
100	1/2	15,000	12DEFH	2.50	6.74	3.50	9.38	.75	1.50	2.22	1.00	6.88	3.50	1.75	.38	7.1
100	5/8	22,600	58DEFH	3.00	7.79	4.00	10.97	.88	1.81	2.63	1.13	8.06	4.00	2.03	.44	11.6
100	3/4	35,300	34DEFH	3.50	9.07	4.50	12.81	1.00	2.20	3.00	1.50	9.25	4.50	2.56	.50	20
80	7/8	34,200	78G8EFH	4.00	10.09	5.00	14.23	1.13	2.25	3.38	1.70	10.38	5.00	2.78	.56	26
80	1	47,700	1G8EFH	4.50	11.55	5.50	16.17	1.29	2.63	3.75	2.13	11.56	5.50	3.45	.62	36.8
80	1-1/4	72,300	114G8EFH	5.13	12.87	6.00	18.03	1.38	3.17	4.25	2.33	12.88	6.00	3.81	.75	58.4

¹ Rated Capacity also referred to as Working Load Limit.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Do not use slings at angles of less than 30°. Refer to the Effect of Angle chart found in the General Information section of this catalog.

General Information

Web

Round Slings

Sling Protection

Wire Rope

Plate Clamps

Lifting Devices

Tow



General

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Mesh Slings

Huggers

Products

Hoists

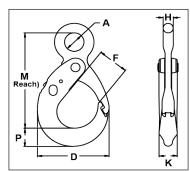
Load

Rigging Hardware

CHAIN SLING HARDWARE

Eye Latchlok Hooks – Code L

- Large eye design for use with G80 and G100 chain.
- 100% proof-tested.
- Positive locking hook.
- Meets ASTM A952 standards.
- Durable powder-coated finish.
- Design factor 4:1.





Chain	¹ Rated	Part			Dim	nensions ((in.)			Weight
Size (in.)	Capacity* (lbs.)	Number	Α	D	F	Н	к	М	Р	Each (Ibs.)
9/32	4,300	932G10ELLH	1.09	3.77	1.64	0.47	0.91	5.37	0.88	2.50
3/8	8,800	38G10ELLH	1.36	4.74	2.27	0.59	1.15	6.65	1.07	4.74
1/2	15,000	12G10ELLH	1.57	6.26	2.91	0.80	1.47	8.79	1.58	10.00
5/8	22,600	58G10ELLH	2.0	7.37	3.22	1.03	1.85	10.37	1.97	16.00

Note: For welded 7/32" chain sling use 9/32" eye latchlok hook.

• For use with both G80 and G100 chain.

- Quenched and tempered alloy steel.
- Fatigue rated.
- 100% proof-tested.
- Durable powder-coated finish.
- Design factor 4:1.
- Shown with optional latches.



	Chain	¹ Rated	Part						Dime	ensions	s (in.)						Weight
Grade	Size (in.)	Cap.* (Ibs.)	Number	В	D	Е	G	н	I	к	L	м	N	0	Р	S	Each (Ibs.)
100	7/32	2,700	732DESH	1.50	3.04	1.30	5.06	0.38	0.66	1.47	0.75	3.75	0.97	0.99	0.94	0.99	0.80
100	9/32	4,300	932DESH	1.65	3.48	1.50	5.25	0.45	0.75	1.75	0.72	3.75	1.19	1.21	1.05	1.10	1.10
100	3/8	8,800	38DESH	2.06	4.33	1.88	6.66	0.58	0.97	2.19	0.91	4.77	1.44	1.46	1.31	1.29	1.90
100	1/2	15,000	12DESH	2.63	5.50	2.25	8.16	0.77	1.10	2.56	1.09	5.67	1.78	1.91	1.68	1.63	4.50
100	5/8	22,600	58DESH	3.06	6.23	2.63	9.63	0.89	1.46	2.62	1.31	6.50	2.03	2.20	2.23	1.69	7.30
100	3/4	35,300	34DESH	3.50	7.82	3.00	11.38	1.00	1.69	3.47	1.50	7.81	2.50	2.82	2.58	2.31	11.40
80	7/8	34,200	78G8ESH	3.88	8.59	3.38	12.72	1.09	1.94	3.88	1.69	8.75	2.78	3.22	2.84	2.38	18.10
80	1	47,700	1G8ESH	4.31	9.59	4.00	14.23	1.22	2.14	4.25	1.88	9.88	3.13	3.55	3.09	2.88	22.60
80	1-1/4	72,300	114G8ESH	5.31	11.56	4.66	17.00	1.50	2.62	4.64	2.31	11.50	3.88	4.25	3.89	3.41	47.00

Note: Latches are not included on domestic hooks. If latches are required, you must specify latches when ordering. ¹ Rated Capacity also referred to as Working Load Limit.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Do not use slings at angles of less than 30°. Refer to the Effect of Angle chart found in the General Information section of this catalog.

Chain Sling Eye Hook – Code S



CHAIN SLING HARDWARE Clevis Cradle Grab Hook – Code G

- For use with both G80 and G100 chain.
- Unique cradle grab design.
- 100% proof-tested.

LiftAll

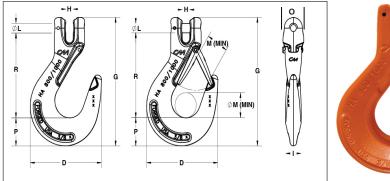
- Quenched and tempered alloy steel.
- Fatigue rated.
- Durable powder-coated finish.
- Replacement pin available.
 - Design factor 4:1.



Chain	¹ Rated	Part				Dim	ensions	s (in.)				Weight
Size (in.)	Capacity* (lbs.)	Number	D	G	н	J	к	L	М	Р	R	Each (Ibs.)
9/32	4,300	932DCGH	2.18	3.39	0.38	0.82	0.97	0.36	0.38	0.82	1.86	0.63
3/8	8,800	38DCGH	2.72	4.33	0.47	1.18	1.29	0.51	0.74	1.03	2.47	1.30
1/2	15,000	12DCGH	3.65	5.27	0.65	1.39	2.01	0.63	0.60	1.19	3.04	2.10
5/8	22,000	58DCGH	4.50	6.54	0.77	1.55	2.42	0.75	0.77	1.41	3.76	4.20
3/4	35,300	34DCGH	5.40	8.80	0.88	2.05	2.69	0.88	0.91	1.89	5.30	10.50

Clevis Sling Hook – Code S

- For use with both G80 and G100 chain.
- Unique cradle grab design.
- 100% proof-tested.
- Quenched and tempered alloy steel.
- Fatigue rated.
- Durable powder-coated finish.
- Replacement pin available.
- Design factor 4:1.





Chain	¹ Rated	Part				Dim	ensions	(in.)				Weight
Size (in.)	Capacity* (lbs.)	Number	D	G	н	I	L	М	0	Р	R	Each (lbs.)
9/32	4,300	932DCSH	3.53	5.55	0.38	0.75	0.36	0.83	1.32	1.11	3.75	1.20
3/8	8,800	38DCSH	4.54	6.93	0.47	1.00	0.51	1.06	1.34	1.51	4.58	2.21
1/2	15,000	12DCSH	5.48	8.28	0.58	1.33	0.63	1.38	1.87	1.55	5.59	4.22
5/8	22,600	58DCSH	6.20	9.61	0.71	1.47	0.75	1.69	2.11	1.83	6.44	6.64
3/4	35,300	34DCSH	7.63	11.79	1.88	1.88	0.94	2.09	2.55	2.51	7.74	11.22

* Latches are not included. If latches are required, you must specify when ordering.

¹ Rated Capacity also referred to as Working Load Limit.



Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Do not use slings at angles of less than 30°. Refer to the Effect of Angle chart found in the General Information section of this catalog.

General

Web

Slings

Sling Protection

Wire Rope

Chain Slings

Round

To⊌

Lifting Devices

Lift-All Hoists



General Tormation

Slings Web

Slings Round

Protection Sling

Rope Wire

Chain Slings

Mesh Slings

Huggers

Products

Hoists Lift-All

Clamps

Devices Lifting

Load

Tow

Hoist

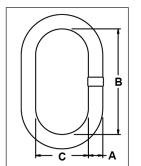
Plate

Hardware Rigging

CHAIN SLING HARDWARE

Oblong Master Link – Code O

- For use with both G80 and G100 chain, web bridle and Tuflex bridle slings.
- 100% proof-tested.
- May be used for mechanical and welded sling assemblies.
- Durable powder-coated finish.
- Design factor 4:1.

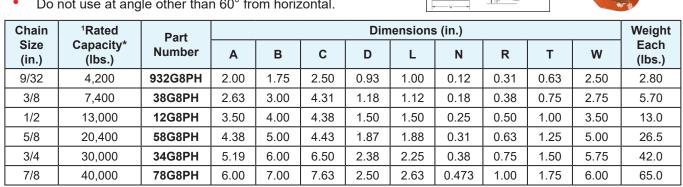




Ма	ster Link Siz (in.)	e*	Part		andard Oblong			Weight
Diameter Material A	Inside Length B	Inside Width C	Number	Single	Double	Triple	Quad	Each (lbs.)
13/32	3.00	1.50	1332DOL	7/32	7/32	-	-	0.3
1/2	5.00	2.50	12DOL	9/32	9/32	7/32	7/32	0.9
3/4	6.00	3.00	34DOL	3/8	3/8	9/32	9/32	2.5
1	8.00	4.00	1DOL	1/2 or 5/8	1/2	3/8	3/8	5.8
1-1/4	8.75	4 .38	114DOL	3/4	5/8	1/2	1/2	9.2
1-1/2	10.50	5 .25	112DOL	7/8	3/4	5/8	5/8	16
1-3/4	12.00	6.00	134DOL	1	7/8	3/4	3/4	25
2	14.00	7.00	2G8OL	1-1/4	1	7/8	7/8	37
2-1/4	16.00	8.00	214G8OL	-	1-1/4	1	1	54
2-3/4	16.00	9.00	234G8OL	-	-	1-1/4	1-1/4	85

Plate Hooks – G80

- Made with alloy steel.
- May be used for mechanical and welded sling assemblies.
- Design factor 4:1.
- Ratings are per hook.
- Do not use at angle other than 60° from horizontal.



1 Rated Capacity also referred to as Working Load Limit.

Note: Never use plate hooks on a quad sling. Do not attempt to lift using only one plate hook.



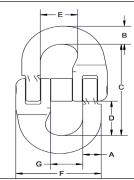
Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Do not use slings at angles of less than 30°. Refer to the Effect of Angle chart found in the General Information section of this catalog.





CHAIN SLING HARDWARE Mechanical Coupling Links

- Used for overhead lifting slings to connect chain branches to the master link and to the hook attachments.
- Constructed of drop-forged alloy steel.
- Can be used with G80 and G100 chain.
- Must be matched to chain size.
- Do not use for chain repair or splicing.
- Meets ASTM A952 standards.
- Design factor 4:1.



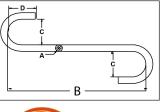


	Chain	¹ Rated	Part			Dim	ensions	(in.)			Weight
Grade	Size (in.)	Capacity* (lbs.)	Number	Α	В	С	D	Е	F	G	Each (lbs.)
100	7/32	2,700	732G10H	0.29	0.28	1.85	0.69	0.61	1.44	0.52	0.27
100	9/32	4,300	932G10H	0.37	0.44	1.94	0.69	0.68	1.58	0.61	0.28
100	3/8	8,800	38G10H	0.52	0.50	3.02	1.15	1.05	2.33	0.81	0.84
100	1/2	15,000	12G10H	0.64	0.68	3.79	1.43	1.29	2.98	1.10	1.87
100	5/8	22,600	58G10H	0.81	0.91	4.50	1.70	1.54	3.57	1.32	3.13
100	3/4	35,200	34G10H	0.97	1.07	5.36	2.06	1.78	4.69	1.52	5.75
80	7/8	34,200	78G8H	1.16	1.05	5.25	1.97	2.09	4.95	1.88	5.98
80	1	47,700	1G8H	1.32	1.25	6.00	2.31	2.37	5.87	2.33	9.47
80	1-1/4	72,300	114G8H	1.57	1.53	6.81	2.17	2.98	7.04	2.67	16.61

S-Hooks – G80

- Made from heat treated alloy steel.
- 100% proof-tested.
- Durable powder-coated finish.
- Working Load Limit is embossed on hooks.
- Design factor 4:1.

Stock	¹ Rated	Part		Dimens	ions (in.)		Weight
Dia. (in.)	Capacity* (lbs.)	Number	Α	В	С	D	Each (lbs.)
9/32	210	932G8SH	0.28	4.50	1.13	1.13	0.15
3/8	410	38G8SH	0.38	6.00	1.50	1.50	0.35
1/2	870	12G8SH	0.56	7.50	2.00	2.00	1.04
5/8	1,120	58G8SH	0.63	9.00	2.50	2.50	1.56
3/4	1,730	34G8SH	0.75	10.50	3.00	3.00	2.60
7/8	2,370	78G8SH	0.88	12.00	3.50	3.50	4.20
1	2,920	1G8SH	1.00	13.00	4.00	4.00	6.00
1-5/32	3,150	1532G8SH	1.13	15.00	4.50	4.50	9.30
1-1/4	4,450	114G8SH	1.25	16.00	5.00	5.00	11.70
1-3/8	6,100	138G8SH	1.38	17.00	5.50	5.50	15.40
1-1/2	6,250	112G8SH	1.50	18.00	6.00	6.00	19.50





¹ Rated Capacity also referred to as Working Load Limit.

* WARNING Â

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Do not use slings at angles of less than 30°. Refer to the Effect of Angle chart found in the General Information section of this catalog.

Нилае

Information General

Slings Web

Round Slings

Protection Sling

Wire Rope

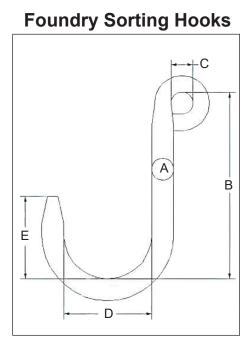
Chain Slings

Lifting Devices



FOUNDRY SORTING HOOKS & J-HOOKS

Welded alloy steel hooks are heat-treated with a shot blast finish, proof-tested and certified.



St	Standard Foundry Sorting Hooks - G80											
Part Number	A	В	с	D	E	Chain Size Eye Fits Mechanical Coupler	¹ Rated Capacity* (Ibs.)					
FSA050	0.50	6.00	0.75	2.50	2.00	0.28	500					
FSA063	0.63	8.50	0.75	3.50	3.25	0.28	800					
FSA075	0.75	8.50	0.75	3.50	3.25	0.28	1300					
FSA081	0.81	8.50	0.88	3.50	3.25	0.38	1600					
FSA100	1.00	8.50	1.00	4.00	3.75	0.38	2500					
FSA113	1.13	8.50	1.00	4.00	4.00	0.38	3500					
FSA125	1.25	8.50	1.25	4.00	4.00	0.50	4500					
FSA150	1.50	8.50	1.25	5.00	4.00	0.50	6000					
	Shor	t Fou	ndry	Sortir	ng Ho	ooks - G8	0					
Part Number A B C D E Chain Size Eye Fits Mechanical Coupler ¹ Rated Capacity* (lbs.)												
FSA050S	0.50	6.00	0.75	3.00	3.00	0.28	450					
FSA063S	0.63	6.00	0.75	3.00	3.00	0.28	900					
FSA075S	0.75	6.00	0.75	3.00	3.00	0.28	1400					

3.00

3.00

3.00

3.00

3.00

3.00

3.00

3.00

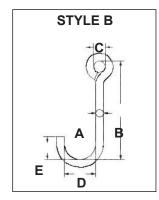
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0.38

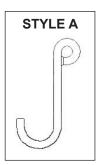
0.38

0.50

Standard J-Hooks



STYLE C



	Flat Tip J-Hooks - G80											
Part Number	Part Number	Part Number	A	в	с	D	E	¹ Rated Capacity [*] (Ibs.)				
JAA038	JBA038	JCA038	0.38	6.00	0.75	1.50	1.13	350				
JAA050	JBA050	JCA050	0.50	8.00	0.75	2.00	1.50	650				
JAA063	JBA063	JCA063	0.63	9.00	1.00	2.50	1.88	850				
JAA075	JBA075	JCA075	0.75	10.00	1.00	3.00	2.25	1200				
JAA088	JBA088	JCA088	0.88	12.00	1.00	3.50	2.63	1500				
JAA100	JBA100	JCA100	1.00	14.00	1.25	4.00	3.00	2000				
JAA113	JBA113	JCA113	1.13	15.00	1.25	4.50	3.37	2250				
JAA125	JBA125	JCA125	1.25	16.00	1.50	5.00	3.75	2750				

* Rated Capacity based on bearing to bearing pull. Tip load capacity averages 30% of bearing to bearing rating.

¹ Rated Capacity also referred to as Working Load Limit.

Note: Other sizes available upon request.

FSA088S

FSA100S

FSA113S

FSA125S

0.88

1.00

1.13

1.25

6.00

6.00

6.00

6.00

0.88

1.00

1.00

1.25

General

Web Slings

Round Slings

Sling Protection

Rope

Chain Slings

Rigging Hardware

2000

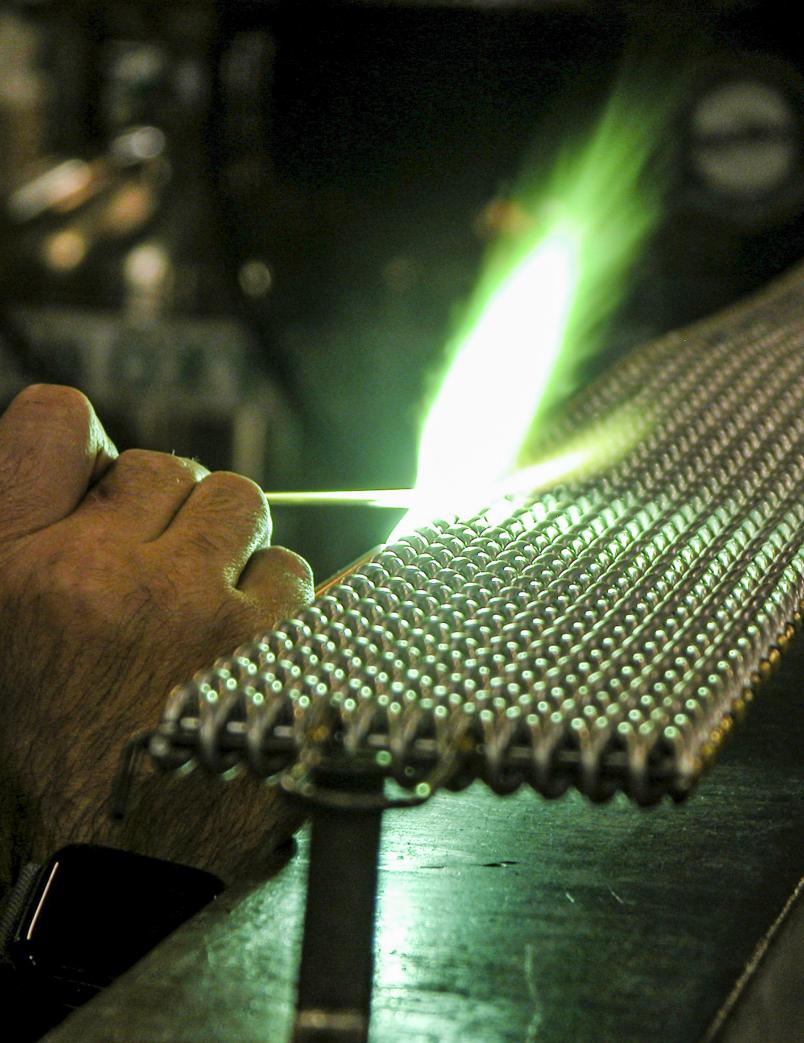
3000

4000

5500

Wire

Plate Clamps



Roughneck[™] Mesh Slings



General nformation

Web Slings

Round Slings

Protection

Wire

Chain Slings

Rigging Hardware

Sling

WIRE MESH SLINGS

Widely used in metalworking shops and steel warehouses where loads are abrasive, hot or tend to cut web slings.

Features and Benefits

Promotes Safety

- Steel construction resists abrasion and cutting.
- Each sling is permanently stamped with capacity and serial number.
- Grips contour of the load.
- Each sling is proof-tested and certified.

Saves Money

- Grips load firmly without stretching reduces load damage.
- Resists abrasion and cutting for greater sling life.
- Low stretch and wide-bearing area distributes load to help avoid damage.

- The slings are repairable.
- Alloy steel end fittings are zinc plated for long life.
- Wire mesh is galvanized to resist corrosion.

Saves Time

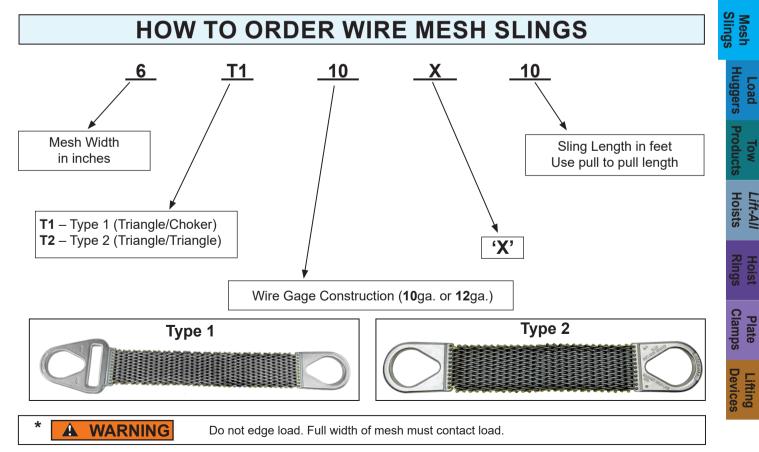
- Width of mesh helps control and balance load.
- End fittings accommodate most large crane hooks.

Environmental Considerations

- Wire mesh slings shall not be used at temperatures above 550°F.
- Store in a clean, dry area.

Roughneck Wire Mesh Sling Construction - 10 Gage Standard

Alloy steel end fittings are zinc plated. Mesh is 10 gage galvanized high tensile steel (12 gage upon request). **Optional:** Type 304 stainless steel mesh is available for use in corrosive environments.





Vertical

2,300

3,500

4,800

7.200

9,600

12.000

14,400

16,800

19,200

21,600

24,000

1,600

2,400

3,200

4,800

6,400

8,000

9.600

10 Gage – Heavy Duty

12 Gage – Medium Duty

NOTE: The choker fitting must not be positioned against a load edge or directly on

Wire Mesh

Width

(in.)

2

3

4

6

8

10

12

14

16

18

20

2

3

4

6

8

10

12

the triangle fitting.

Information

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

> Mesh Slings

Load

Lift-All Hoists

Plate Clamps

Lifting Devices

General

Roughneck[™] Mesh Slings

WIRE MESH SLINGS

Basket

4.600

7.000

9,600

14.400

19,200

24.000

28,800

33,600

38,400

43,200

48,000

3,200

4.800

6,400

9.600

12,800

16,000

19.200

Rated Capacity* (lbs.)

Choker

2.300

3.500

4,800

7.200

9,600

12.000

14,400

16,800

19,200

21,600

24,000

1,600

2,400

3,200

4,800

6,400

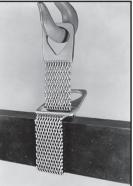
8,000

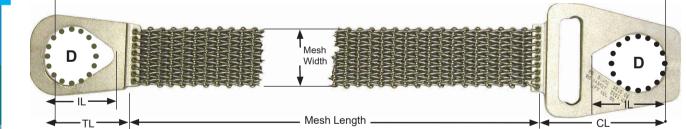
9.600

Under normal usage, wire mesh slings will eventually need repairs. *Lift-All* can perform this service and re-certify all sling brands at a relatively low cost. Wire mesh slings that are repaired are guaranteed to meet or exceed original specifications. Five *Lift-All* factories are strategically located in the U.S. to ensure prompt service. Wire mesh slings should be removed from service and/or repaired under the following conditions:

- A broken weld or brazed joint along the sling edge.
- A broken wire in any part of the mesh.
- Reduction in wire diameter of 25% due to abrasion or 15% due to corrosion.
- Lack of flexibility due to distortion of the mesh.
- Visible distortion or wear of either end fitting.
- Cracked end fitting.







Pull to Pull Length Ordered

Nom. Mesh Width (in.)			Dimensions n.)	5	Terminal 1 (ir	Thickness 1.)		ght of 3-ft. (lbs.) 1 Slings		
MW	D	IL	TL	CL	10-GA	12-GA	10-GA	12-GA	10-GA	12-GA
2	2.00	3.00	3.88	5.63	1/2	1/2	6	5	1.3	1.1
3	2.25	3.38	4.38	6.25	1/2	1/2	8	8	1.9	1.8
4	3.00	4.00	5.00	6.75	1/2	1/2	10	10	2.5	2.3
6	3.50	4.50	5.63	7.75	1/2	1/2	16	14	3.9	3.4
8	4.50	6.00	7.50	9.00	1/2	1/2	22	21	5.1	4.5
10	4.75	6.25	8.00	10.88	1/2	1/2	28	26	6.4	5.6
12	5.00	6.50	8.63	11.38	1/2	1/2	34	32	7.6	6.8
14	5.00	6.50	8.75	12.75	1/2	1/2	40	37	8.9	7.9
16	5.25	7.00	9.13	14.13	3/4	1/2	57	38	10	9.0
18	5.50	7.50	9.75	15.75	3/4	1/2	67	44	11	10
20	5.75	7.75	10.13	17.00	3/4	1/2	77	51	13	11

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart in General Information section.

Roughneck[™] Mesh Slings



General Iformation

Slings

Round

Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh

Load

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting Devices

Sling

Web

CHAIN MESH SLINGS

Specialty slings for rugged applications

Features and Benefits

Promotes Safety

- Each sling is permanently stamped with capacity and serial number for traceability.
- Steel construction resists abrasion and cutting.
- Each sling proof-tested and certified.

Saves Time

- Width of mesh helps to balance and control loads.
- End fittings accommodate most large crane hooks.

Saves Money

- Alloy steel end fittings coupled with G100 chain resist abrasion and cutting for greater sling life.
- Repairable.
- Sling flexibility allows fast and easy connection to load.
- Low stretch and wide-bearing area distributes load to help avoid damage.

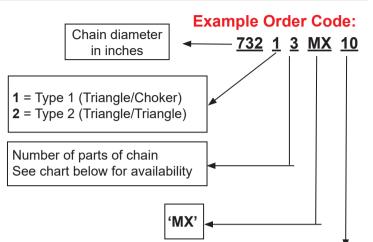
Inspection Criteria⁺ for Roughneck Chain Mesh Slings

Remove sling from service if any of the following conditions are visible:

- Wear, nicks, cracks, breaks, gouges, stretch, bends or weld spatter on chain or attachments.
- Discoloration from excessive temperature.
- Chain links and attachments won't hinge freely with adjacent links.
- Visible distortion or deformation of fitting.
- 15% reduction of original cross-sectional area of metal at any point of either end fitting.
- Cracked end fitting.

Environmental Considerations

- Rated capacities of chain mesh are reduced at temperatures above 400°F.
- Store in clean, dry area to avoid corrosive action.



HOW TO ORDER CHAIN MESH SLINGS

Sling length in feet Use pull to pull length

Chain	Parts	Sling	Rate	d Capacity (I	lbs.)*
Size (in.)	of Chain	Width (in.)	Vertical	Choker	Basket
	3	1-1/2	5,000	5,000	10,000
7/22	4	2	6,700	6,700	13,400
7/32	5	2-1/2	8,400	8,400	16,800
	6	3	10,000	10,000	20,000
	3	2-1/8	8,400	8,400	16,800
9/32	4	2-3/4	11,000	11,000	22,000
9/32	5	3-3/8	14,000	14,000	28,000
	6	4	16,800	16,800	33,600
	3	3-1/4	17,000	-	34,000
2/0	4	4-3/8	22,700	-	45,400
3/8	5	5-3/8	28,400	-	56,800
	6	6-1/2	34,000	-	68,000
	2	3	19,200	-	38,400
1/2	3	4-1/2	28,800	-	57,600
	4	6	38,400	-	76,800

For more details, see inspection criteria at the end of the Chain section of this catalog.

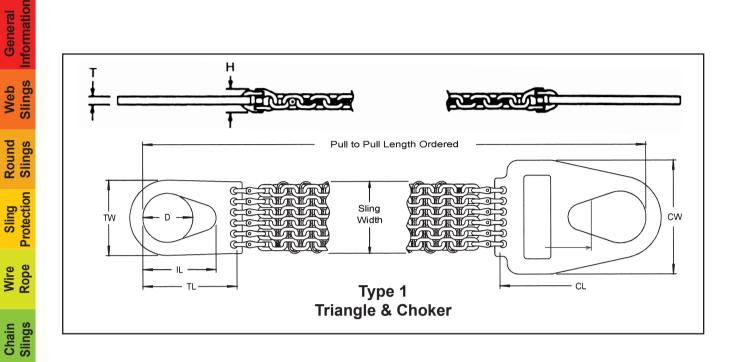
⁺All sling users must read and understand the safety bulletin provided with each sling.

WARNING Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart in General Information section of this catalog.



Roughneck[™] Mesh Slings

CHAIN MESH SLINGS



Chain Size	Parts of	Sling Width			Ter)imensio n.)	ons			5-ft. Type 2	Weight per ft.
(in.)	Chain	(in.)	D	IL	TL	тw	CL	CW	Т	Н	Weight (lbs.)	(lbs.)
	3	1-1/2	2.75	4.13	6.75	4.75	9.00	7.13	0.38	1.25	10	1.3
7/32	4	2.00	3.00	4.50	7.13	5.00	9.38	7.13	0.38	1.25	12	1.8
1152	5	2-1/2	3.50	5.25	8.00	5.50	10.13	7.75	0.38	1.25	14	2.2
	6	3.00	3.75	5.63	8.25	5.75	10.63	8.25	0.38	1.25	17	2.7
	3	2-1/8	2.75	4.13	6.75	4.75	9.00	7.13	0.50	1.75	14	2.2
9/32	4	2-3/4	3.00	4.50	7.13	5.00	9.38	7.25	0.50	1.75	18	3.0
5/52	5	3-3/8	3.50	5.25	8.0	5.50	10.13	7.75	0.50	1.75	22	3.7
	6	4.00	3.75	5.63	8.25	5.75	10.63	8.25	0.50	1.75	26	4.5
	3	3-1/4	3.50	5.25	6.88	5.00	_	_	0.75	2.25	30	4.4
3/8	4	4-3/8	4.38	6.50	8.13	6.38	_	_	0.75	2.25	41	5.8
5/0	5	5-3/8	4.38	6.50	8.38	7.38	_	_	0.75	2.25	55	7.3
	6	6-1/2	5.25	7.88	9.75	8.25	_	_	0.75	2.25	59	8.8
	2	3.00	3.50	5.25	6.88	5.00	_	_	1.0	3.13	33	5.2
1/2	3	4-1/2	4.38	6.50	8.38	6.38	_	_	1.0	3.13	50	7.7
	4	6.00	5.25	7.88	9.75	7.75	_	_	1.0	3.13	62	10

Note: Length tolerance \pm 2 chain links so plane is maintained.

Rigging Hardware

Mesh

Load Huggers

Tow Products

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting Devices

Inspection Criteria

The following photos illustrate typical damage that occurs, indicating that the sling must be removed from service. Please review the Safety Bulletin provided with each sling. For inspection frequency requirements, see the General Information section of this catalog.

OVERLOAD / UNEVEN LOADING

WHAT TO LOOK FOR: Mesh does not lie flat, appears distorted and/or will not bend easily.

TO PREVENT: Do not load in excess of rated capacity. Load edges must be straight, flat, and in contact with full width of mesh at bearing points.



Itormation

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh

Load Huggers

Products

Lift-All Hoists

Rings

Clamps

Lifting Devices

Hoist

Plate

General



WEAR

WHAT TO LOOK FOR: Flat areas on the individual wires. When wires have lost 25% or more of their original diameter, the sling must be taken out of service.

TO PREVENT: Do not drag sling on the ground and do not drag loads over slings. Protect high wear areas.

CORROSION / HEAT DAMAGE

WHAT TO LOOK FOR: Areas of discoloration. Remove slings with wire diameter reduction of 15% or more. Slings exposed to temperatures of 550°F or more must be removed from service.

TO PREVENT: Hang slings for storage away from moisture. Do not use mesh slings above 550°F. Consider using stainless steel mesh.





BROKEN WELD OR BRAISED JOINT

WHAT TO LOOK FOR: A crack or separation of the wire at the edge or in the body of the mesh.

TO PREVENT: Do not side load mesh. Tension on sling must be distributed evenly across the entire width of the mesh.

DISTORTION OR WEAR OF END FITTINGS

WHAT TO LOOK FOR: Fittings that do not lie flat or have obvious areas of wear.

TO PREVENT: Never lift with fitting against a load edge or set load directly onto sling. Reduce wear by keeping loads within the rated capacity of the sling.





Load Hugger[™] Cargo Control



LOAD HUGGER BASICS

Lift-All Load Hugger cargo control and load securement products offer the van and flatbed operator a wide variety of options to meet U.S. DOT, FMCSA (Federal Motor Carrier Safety Administration), and CVSA (Commercial Vehicle Safety Alliance) requirements.*

Features and Benefits

- Meets all U.S. DOT, FMCSA, and CVSA regulations.
- Low stretch polyester webbing allows for more secure cargo control.
- All hooks and chain assemblies equal or exceed webbing strength.
- Webbing is soft and comes in varying widths; will not damage expensive cargo.
- Large selection; choose the capacity that is right for the load carried.
- Lightweight and easy to handle.
- Large selection of end fastenings, winches, and ratchets make choosing and using the correct assembly easy.
- Custom lengths available.

Inspection Criteria

Remove from service if any of the following are visible:

- Cuts, holes, surface abrasion or crushed areas.
- Burns or chemical damage.
- Separation of load carrying stitch pattern.
- Hardware, fittings or tensioning devices which are broken, bent, twisted, cracked, or have nicks and gouges.
- Knotted webbing.
- Splices or other makeshift repairs.
- The loop ends are damaged.

See illustrations of damaged webbing on pages 34 & 35; damaged chain and hooks on pages 107 and 108.

Environmental Considerations

- Synthetic webbing severely degrades at temperatures above 200°F.
- Prolonged exposure to ultraviolet light adversely affects synthetic webbing. Tiedown straps become bleached and stiff when exposed to sunlight or arc welding.
- Many acids, alkalis, and chemicals have an adverse effect on nylon and polyester. See chart on page 16.

*CVSA (Commercial Vehicle Safety Alliance) www.cvsa.org

Safe Operating Practices

- Inspect tiedown straps and all hardware when the load is first being secured.
- Re-tighten tiedowns periodically during use.
- Never use Load Huggers for anything other than securing cargo. Do not use for lifting loads or towing vehicles.
- The load should be securely blocked and stabilized before tensioning the straps.
- Never exceed rated capacities.
- Use caution when tossing straps and chain anchor assemblies over a load.
- Check installation of portable winches. The ratchet pawl must be at the top of the toothed wheel and bolts tight against the rub rail.
- Weld-on winches should not be cracked.
- Corner protectors or sling protection must be used to protect *Load Huggers* from edges and abrasion.
- All hardware must be in line with the direction of pull to achieve full strength.

Definitions

Working Load Limit (WLL): The maximum load that may be applied to an assembly or component in straight tension.

Ultimate Breaking Strength: The load at which an assembly or component will fail in testing.

Department of Transportation Regulations 393.102(b) uses the Ultimate Breaking Strength to calculate the number of tiedown assemblies required to secure a load.

Lift-All publishes Ultimate Breaking Strength for this purpose only. For safety, we recommend that only Working Load Limits are used for your calculations.

Always protect tiedowns from being cut by corners and edges. Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog. Clamps

Lifting Devices

Plate



General

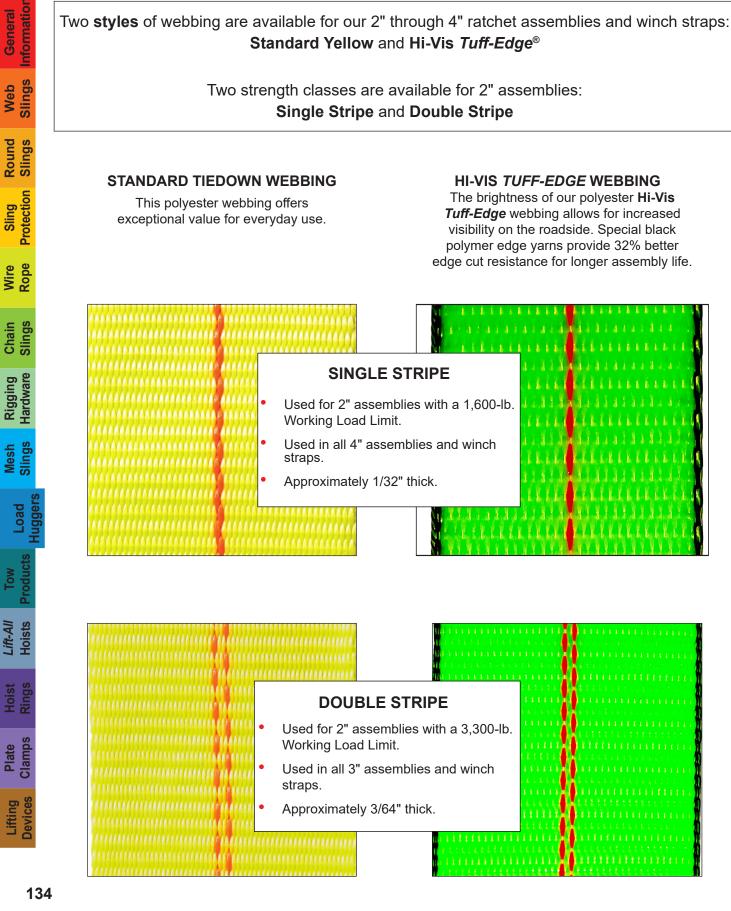
Sling

Lift-All

Hoist

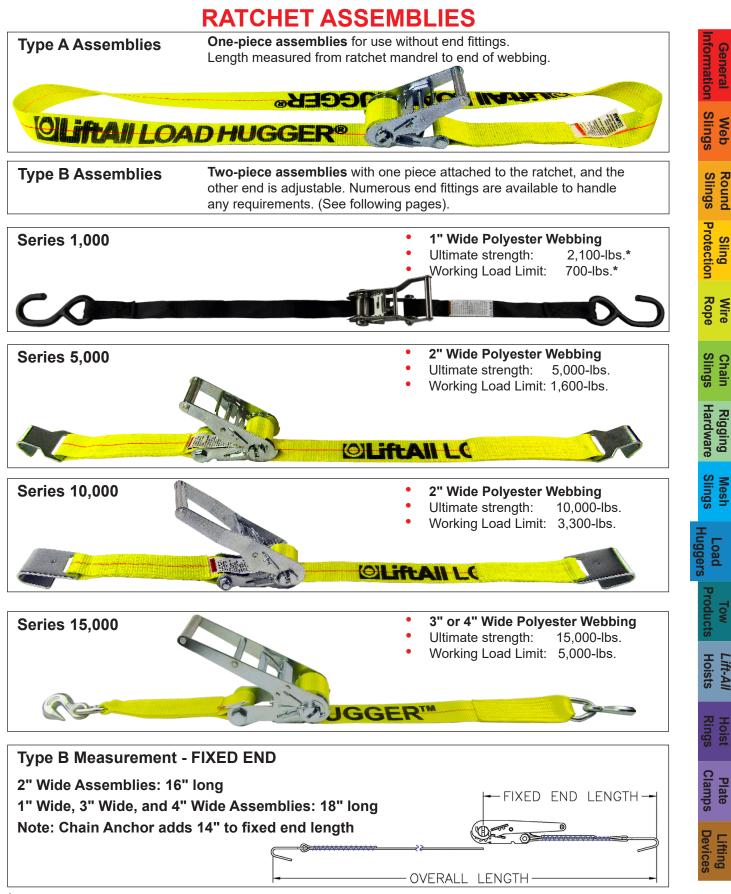
Load Hugger[™] Cargo Control

WEB SELECTION



Load Hugger[™] Cargo Control





* Series 1,000 Exception: Series 1,000 Ratchet Assembly with Flat Hooks, Ultimate Breaking Strength is 1,000-lbs. and Working Load Limit is 330-lbs.



Load Hugger[™] Cargo Control

1" TIEDOWN ASSEMBLIES

General Information		Ser	ries 1,000				
General formatio		WEB WIDTH & TYPE		1" Wide F	Polyester		
			Buckle	Part No. 10'	Part No. 15'	Weight (Ibs.)	YE
Web Slings	1" Cam Buckle			Length**	Length**		1" Ratchet
Sli		Flat Hook***	Ratchet	60102	6A102	1.1	
Round Slings	WORKING LOAD LIMIT		Cam	60110	6A110	.7	WORKING LOAD LIMIT
	330 lbs.	Stamped Snap Hook	Ratchet	60104	6A104	1.5	700 lbs.
Sling Protection	ULTIMATE BREAKING		Cam	60113	6A113	1.0	ULTIMATE BREAKING
	STRENGTH	U-Hook	Ratchet	60101	6A101	1.1	STRENGTH
Wire Rope	1,000 lbs.		Cam	60109	6A109	.7	2,100 lbs.
Chain Slings		Hook & Keeper	Ratchet	60105	6A105	1.5	
			Cam	60114	6A114	1.1	
Rigging Hardware		Open Hook	Ratchet PE Hook	60103	6A103	1.7	
			Ratchet ZP Hook	60106	6A106	1.6	
Mesh Slings			Cam PE Hook	60111	6A111	1.3	
Load Huggers		PE Coated (shown) Zinc Plated (Optional)	Cam ZP Hook	60112	6A112	1.2	
		Type A (Endless)	Ratchet	60107	6A107	.9	
Tow Products			Cam	60108	6A108	.5	
		* Ultimate breaking strength of assembly when new.	** Non-standar	rd lengths available	9		

*** Exception: Series 1,000 Ratchet Assembly with Flat Hooks, WLL is 330-lbs. and Ultimate Breaking Strength is 1,000-lbs.

60203

1" X 15' Ratchet Tiedown ssembly: 16-pc. Display Box 6A103B Both assemblies have PE coated open hooks. Our 1" X 12' Retractable Ratchet Tiedown Assembly in a convenient 2-Pack.

RETRACTABLE

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting Devices

Load Hugger[™] Cargo Control



RATCHET ASSEMBLIES

		S	Series 5,0	00	S	eries 10,0	00	
WEB WID	TH & TYPE	2	" Wide Polyes	ster	2	' Wide Polyes	ter	
* ULTIMATE BREAKING S	STRENGTH		5,000 lbs.			10,000 lbs.		
WORKING L	OAD LIMIT		1,600 lbs.			3,300 lbs.		
	Length**	Standard Part No.	<i>Tuff-Edge</i> ® Part No.	Weight (Ibs.)	Standard Part No.	<i>Tuff-Edge</i> Part No.	Weight (Ibs.)	-
Flat Hook	27'	60501	TE60501	4.6	61001	TE61001	5.8	1
	30'	60502	TE60502	4.8	61002	TE61002	6.0	-
Stamped Triangle	27'	60503	TE60503	4.2	61003	TE61003	5.2	-
	30'	60504	TE60504	4.4	61004	TE61004	5.4	
Stamped Snap Hook	27'	60505	TE60505	4.6	61005	TE61005	6.2	
	30'	60506	TE60506	4.8	61006	TE61006	6.4	
Twisted Snap Hook	27'	60507	TE60507	5.2	61007	TE61007	5.6	
S S S	30'	60508	TE60508	5.4	61008	TE61008	5.8	-
Forged Snap Hook	27'	60509	TE60509	5.8	61009	TE61009	6.4	
Carl	30'	60510	TE60510	6.0	61010	TE61010	6.6	- -
D-Ring	27'	60511	TE60511	4.2	-	-	-	Huggers
	30'	60512	TE60512	4.4	-	-	-	
U-Hook	27'	60513	TE60513	4.6	26422	TE26422	5.8	-
	30'	60514	TE60514	4.8	26423	TE26423	6.0	
Hook & Keeper	27'	60515	TE60515	4.8	-	-	-	
	30'	60516	TE60516	5.0	-	-	-	
Chain Anchor Assembly	27'	-	-	-	61013	TE61013	13.0	
(*****	30'	-	-	-	61014	TE61014	13.2	-
Гуре A (Endless)	27'	60517	TE60517	3.8	61011	TE61011	4.4	
edeper star was	30'	60518	TE60518	4.0	61012	TE61012	4.6	

* Ultimate breaking strength of assembly when new.

** Non-standard lengths available.

WARNING

Always protect Tiedowns from being cut by corners and edges.

Note: Since end terminations vary proportionally with size, check with Lift-All if critical dimensions are required. Non-standard lengths available upon request.



Information General

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

<u>§</u>

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting

Load Hugger[™] Cargo Control

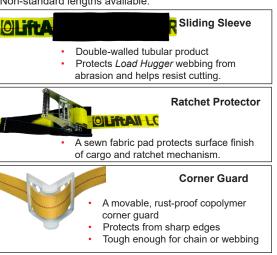
RATCHET ASSEMBLIES

			SE		5 15,000			
WEB WIDTI	H & TYPE	3" W	ide Polyester		4" V	Vide Polyeste	r	
* ULTIMATE BREAKING ST	RENGTH	1	5,000 lbs.		15,000 lbs.			
WORKING LO	AD LIMIT	5,000 lbs.			5,000 lbs.			
	Length**	Standard Part No.	<i>Tuff-Edge</i> [®] Part No.	Wt. (Ibs.)	Standard Part No.	<i>Tuff-Edge</i> Part No.	Wt. (Ibs.)	
Flat Hook	27'	20482	TE20482	12.8	26424	TE26424	13.6	
	30'	20483	TE20483	13.2	26425	TE26425	14.0	
Forged Triangle	27'	20484	TE20484	14.0	26430	TE26430	14.8	
	30'	20485	TE20485	14.4	26431	TE26431	15.2	
Chain Grab Hook	27'	20486	TE20486	13.4	26426	TE26426	14.2	
	30'	20487	TE20487	13.8	26427	TE26427	14.6	
Chain Anchor Assembly	27'	20488	TE20488	16.8	26432	TE26432	17.6	
Canaras	30'	20489	TE20489	17.2	26433	TE26433	18.0	
U-Hook	27'	20494	TE20494	13.0	26436	TE26436	13.8	
J G	30'	20495	TE20495	13.2	26437	TE26437	14.2	
7-in. Sewn Eye	27'	20490	TE20490	11.0	26428	TE26428	11.8	
	30'	20491	TE20491	11.4	26429	TE26429	12.2	
Type A (Endless)	27'	20492	TE20492	10.6	26434	TE26434	11.4	
	30'	20493	TE20493	11.0	26435	TE26435	11.8	

* Ultimate breaking strength of assembly when new.

Part No.	SLIDING SLEEVES FOR LOAD HUGGERS (Offered in 1ft Lengths)
60117	1-1/2" Flat Sliding Sleeve for 1" Load Hugger
60118	2-1/2" Flat Sliding Sleeve for 2" Load Hugger
60119	3-1/4" Flat Sliding Sleeve for 3" Load Hugger
60120	4-1/2" Flat Sliding Sleeve for 4" Load Hugger
	RATCHET PROTECTOR
1RP	1" Ratchet Protector
2RP	2" Ratchet Protector
3RP	3" Ratchet Protector
4RP	4" Ratchet Protector
	CORNER GUARD
CG	Corner Guard to be used with 2"- 4" webbing

Non-standard lengths available.



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Load Hugger[™] Cargo Control



WINCH STRAPS & WINCHES

Series 12,000 Load Huggers 3" & 4" Wide Polyester Winch Straps

- Load Hugger Winch Straps are designed for winches on flat bed trucks and trailers.
- Sling protection and corner protectors extend life of *Load Huggers.*
- Ultimate breaking strength 15,000 lbs.
- Working load limit 5,000 lbs.
- Standard assemblies in 27' or 30' lengths.
- To order a non-standard strap, specify width, length, and end fitting.

Winches must be properly installed with ratchet pawl on top of toothed wheel to help prevent accidental disengagement.



Standard Winch #61222

For 3" & 4" *Load Hugger* Winch Straps.

7.8-lbs.



Portable Winch #61221

For 3" & 4" *Load Hugger* Winch Straps.

8.8-lbs.



Winch Bar #61223

For use with both 61221 and 61222 above.

Weight: 4.8-lbs. Diameter: 1-1/4" Body Length: 31" Angled Tip Length: 3-1/2"

EZ Winch Handle #61230

For use with both 61221 and 61222

above.

1.2-lbs.

EZ For use with above. 2.5-lbs.

EZ Spool #61231

For use with both 61221 and 61222 above.

	Web Width (in.)	Length* (ft.)	Standard Part No.	<i>Tuff-Edge</i> [®] Part No.	Assembly Weight (Ibs.)	Information
F	lat Ho	ok				
						Slings
	4	27	61201	TE61201	5.0	S
	4	30	61202	TE61202	5.4	S
	3	27	61203	TE61203	4.6	Slings
	3	30	61204	TE61204	5.0	S
F	orged	Triangle				Protection
	S					tion
	4	27	61205	TE61205	5.2	
	4	30	61206	TE61206	5.6	Rope
	3	27	61207	TE61207	4.9	0e
Γ	3	30	61208	TE61208	5.3	
C	Grab Ho	ook				Sling

Car	C LOUIS IN A			
4	27	61209	TE61209	5.2
4	30	61210	TE61210	5.7
3	27	61211	TE61211	4.9
3	30	61212	TE61212	5.3

Chain Anchor

A COM

5-0000					
	4	27	61213	TE61213	6.9
	4	30	61214	TE61214	7.3
	3	27	61215	TE61215	6.6
	3	30	61216	TE61216	7.0

7" Sewn Eye

4	27	61217	TE61217	3.3
4	30	61218	TE61218	4.3
3	27	61219	TE61219	4.1
3	30	61220	TE61220	4.0

U-Hook

W C		Malatt B		
4	27	61225	TE61225	5.1
4	30	61226	TE61226	5.5
3	27	61227	TE61227	4.8
3	30	61228	TE61228	5.2

Clamps	Plate



General

Web Slings

Round Slings

Sling Protection

Wire Rope

Load Hugger[™] Cargo Control

E-TRACK & VAN INTERIOR ASSEMBLIES

ULTIMATE BRE	S	
Cam Buckle	2,500 lbs.	2" X 1
Ratchet Buckle	3,000 lbs.	2" X 1
		2" X 2
WORKING	LOAD LIMIT	2" X 1
Cam Buckle	800 lbs.	2" X 1
Ratchet Buckle	1,000 lbs.	2" X 2
		* Tuff-
Standard Fixe		
	l E-Track, 3-piece E- d fittings listed in Ser	

Load Huggers may be attached.

E-Track only works with E-Track fittings.

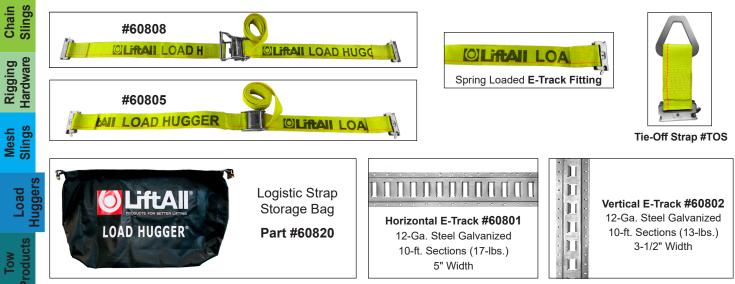
STANDARD E-TRACK ASSEMBLIES	Standard Part No.	<i>Tuff-Edge^{®∗}</i> Part No.	Wt. (Ibs.)
2" X 12' Cam Buckle/Spring E-Track Fittings - Yellow	60805	TE60805	1.6
2" X 16' Cam Buckle/Spring E-Track Fittings - Gray	60806	TE60806	1.7
2" X 20' Cam Buckle/Spring E-Track Fittings - Blue	60807	TE60807	1.8
2" X 12' Ratchet/Spring E-Track Fittings - Yellow	60808	TE60808	2.0
2" X 16' Ratchet/Spring E-Track Fittings - Gray	60809	TE60809	2.1
2" X 20' Ratchet/Spring E-Track Fittings - Blue	60810	TE60810	2.2

* Tuff-Edge web is yellow for all lengths.

To order a non-standard interior van restraint assemblies specify:

- Overall length.
- Fixed Length.
- Cam Buckle or Ratchet Buckle.

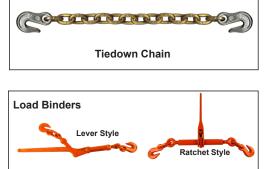
NOTE: Van interior restraint assemblies are only as strong as the anchor or track to which they are attached.



Note: E-Track can be cut into lengths suitable for UPS shipments.

TIEDOWN CHAIN & LOAD BINDERS

Tiedowr Grab Hook		WLL (lbs.)	Domestic Part No.	Import Part No.	Weight (Ibs.)
5/16" X 20' Welded G-	70 Gold Dichromate	4,700	16001	-	21.2
5/16" X 20' Clevis G-70) Gold Dichromate	4,700	16005	-	21.1
3/8" X 20' Clevis G-70	Gold Dichromate	6,600	16006G7	-	31.1
Load B	inders	WLL (lbs.)	Domestic Part No.	Import Part No.	Weight (Ibs.)
5/16" - 3/8" Lever Style	l.	6,600	16004	16004l	8.0
5/16" - 3/8" Ratchet St	/le	6,600	16003	16003I	12.0



Lift-All Hoists

Hoist

Plate Clamps



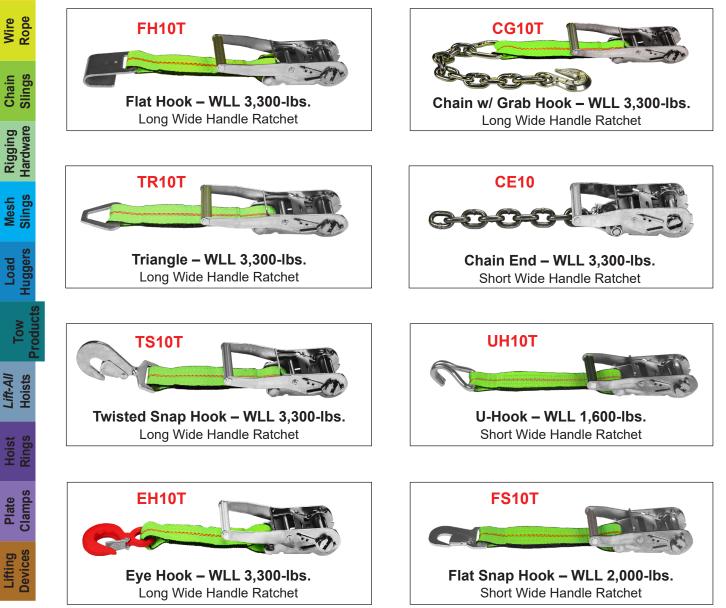


TIEDOWNS & WHEEL STRAPS

Mix or match these 2" components to get the exact combination you want!

- 1. Specify the part number for the fixed or adjustable end that you want.
- 2. For non-standard fixed end web length, change the 10 in the part number to desired length in inches.
- 3. For non-standard adjustable end web length, change the number in the part number to desired length (in feet).
- 4. Part numbers shown are for *Tuff-Edge*[®] Hi-Vis webbing. For traditional yellow tiedown web, replace the "T" at the end of the part number with a "Y".

Fixed Ends – 10" Web Length Standard

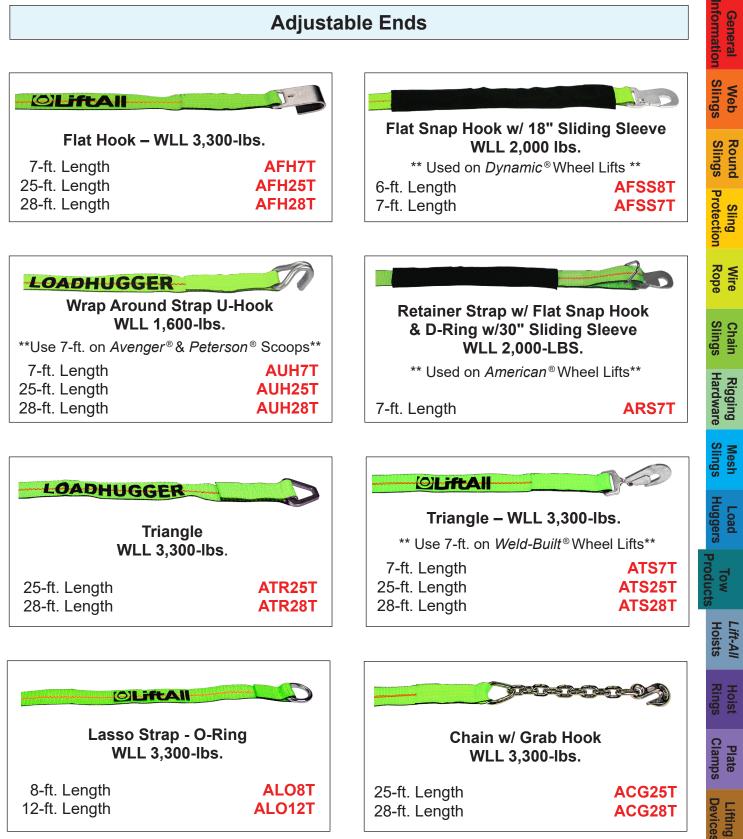


Exclusively manufactured and shipped from our Chicago plant.

Load

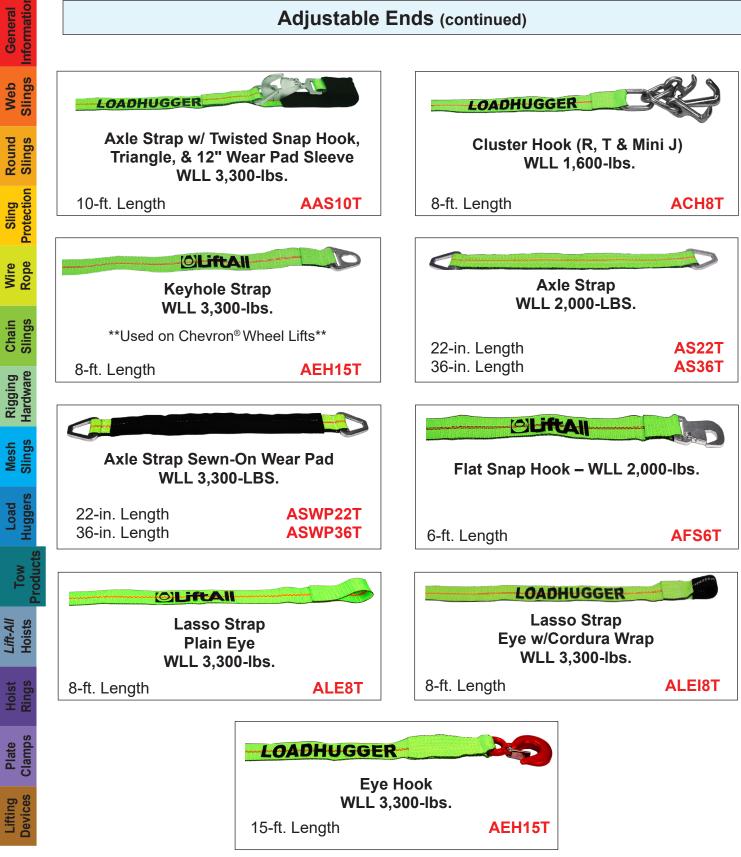


TIEDOWNS & WHEEL STRAPS





TIEDOWNS & WHEEL STRAPS



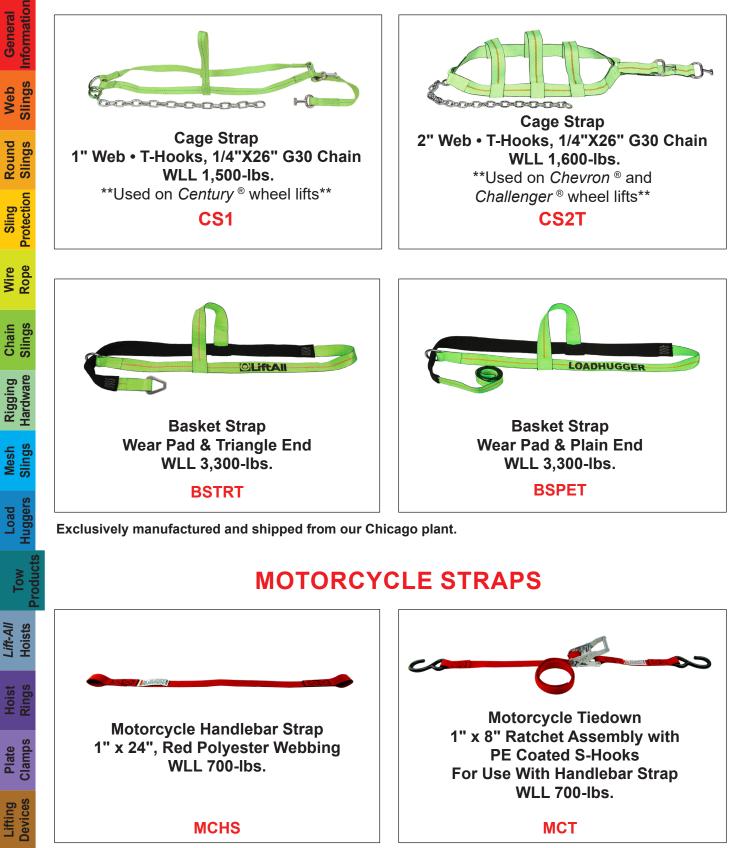


BASKET STYLE WHEEL STRAPS





BASKET STYLE WHEEL STRAPS





General formation

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Tow

Lift-All Hoists

Clamps

Lifting

Plate

WEB V-ASSEMBLIES

Lightweight straps that protect the towed vehicle *Tuff-Edge*[®] Hi-Vis webbing is standard • 4,700-lb. WLL



How to order:

- 1. Specify the part number.
- 2. If non-standard length is desired, change the number to the length in feet that you want.
- 3. For traditional yellow web, replace the **"T"** at the end of the part number with a **"Y"**.











General

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slinds

Lift-All Hoists

Plate Clamos

Lifting Devices

-oad

Tow Products

TUFF-EDGE® III VEHICLE RECOVERY STRAP





Leather–lined bearing point of eyes for longer strap life.

Tuff-Edge III vehicle recovery straps are made from strong, durable, weather-resistant webbing which will not rot or mildew. The straps feature sewn eyes lined with premium abrasion resistant material, and attach quickly to vehicle frames or towing hooks.

S N

Features and Benefits

- No dangerous hooks or metal parts.
- Elongates 7% at rated capacity to help absorb the energy of sudden loading.
- Polyester material is gentle on painted and plated surfaces.
- Lightweight and flexible, making them easy to use and store.
- Design Factor 5:1; suitable for overhead lifting.
- Edge Damage Limit (EDL), out-of-service marker aids in sling inspection (refer to TEIII Web Sling Safety Bulletin).
- 30% more resistant to edge damage than our *Tuff-Edge* II webbing.
- Tubular edge design with damageresistant core helps protect the body fibers from cutting, keeping the integrity of the sling intact without compromising its strength.
- Soft twill weave body.
- Improved handling characteristics with no coated edge yarns.
- Easy to identify by the blue tubular edges and EDL marker.
- *Tuff-Tag*[™] provides permanent, vital strap information.
- Leather–lined bearing point of eyes for longer strap life.

		1-1	PLY		
Strap Vidth	Pulling / Towing Capacity	Lifting C	Capacity	Standard Lengths	Part
(in.)	Vertical (lbs.)	Vertical Basket WLL (Ibs.) WLL (Ibs.)		(ft.)	Number
				16	RS1806TGX16
6	16,000	9,600	19,200	20	RS1806TGX20
0	10,000	3,000	19,200	26	RS1806TGX26
				30	RS1806TGX30
				16	RS1808TGX16
8	21,000	12,800	25,600	20	RS1808TGX20
0	21,000	12,000	23,000	26	RS1808TGX26
				30	RS1808TGX30
				16	RS1812TGX16
12	32,000	19,200	38,400	20	RS1812TGX20
12	52,000	19,200	36,400	26	RS1812TGX26
				30	RS1812TGX30

		2-	PLY		
Strap Width	Pulling / Towing Capacity	Lifting C	apacity	Standard Lengths	Part
(in.)	Vertical (lbs.)	Vertical WLL (Ibs.)	Basket WLL (Ibs.)	(ft.)	Number
				16	RS2806TGX16
6	27,000	16,300	32,600	20	RS2806TGX20
0	27,000	10,300	32,000	26	RS2806TGX26
				30	RS2806TGX30
	00.000		38,400	16	RS2808TGX16
8		40.000		20	RS2808TGX20
0	32,000	19,200	30,400	26	RS2808TGX26
				30	RS2808TGX30
				16	RS2812TGX16
12	44,800	26,900	53,800	20	RS2812TGX20
12	44,000	20,900	33,000	26	RS2812TGX26
				30	RS2812TGX30

TOW-ALL[™] VEHICLE TOW STRAP

Vehicle tow straps aid in removing vehicles stranded in snow, mud, sand and ditches.

Tow-All vehicle tow straps are made from strong, durable, weather-resistant *Tuff-Edge*[®] III webbing which will not rot or mildew. The straps feature sewn eyes lined with premium abrasion resistant material, and attach quickly to vehicle frames or towing hooks.

Features and Benefits

- No dangerous hooks or metal parts.
- Elongates 7% at rated capacity to help absorb the energy of sudden loading.
- Polyester material is gentle on painted and plated surfaces.
- Lightweight and flexible, making them easy to use and store.
- Design Factor 3:1; not suitable for lifting.

Note: *Lift-All* believes tow straps with metal end fittings are dangerous and, therefore, will not put metal hardware on *Tow-All* straps.

- Do not use a damaged or defective strap.
- Inspect before each use.
- Do not exceed rated capacity. Do not tie knots in strap.
- **Safe Operating Practices**
- Do not attach to bumpers.
- Avoid dragging strap on ground.
- The strap is permanently damaged when exposed to temperatures in excess of 200°F. Avoid muffler and hot exhaust systems.
- Stand clear of strap and vehicles when under load.
- Always protect straps from being cut by corners and edges.
- Store in cool, dry and dark location.

Part	Web	Web	Ultimate Breaking	Pulling / Towing	Lifting Capacity			
Number	Plies	Width	Strength* (lbs.)	Capacity ¹ (lbs.)	Vertical WLL (Ibs.)	Basket WLL (Ibs.)		
TS1802T	1	2	16,000	5,300	3,200	6,400		
TS2802T	2	2	32,000	10,700	6,400	12,800		
TS1803T	1	3	24,000	8,000	4,800	9,600		
TS2803T	2	3	43,000	14,300	8,800	17,600		
TS1804T	1	4	32,000	10,600	6,400	12,800		
TS2804T	2	4	57,500	19,100	11,500	23,000		
TS1806T	1	6	48,000	16,000	9,600	19,200		
TS2806T	2	6	81,500	27,100	16,300	32,600		

*Ultimate breaking strength when new. ¹Do not exceed towing capacity.







Hoists

Plate Clamps

_ifting



General Information

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Lift-All Hoists

Plate

Lifting Devices

Clamp

Load

TUFLEX® VEHICLE RECOVERY STRAPS THE HEAVY DUTY RECOVERY STRAPS!

Tuflex straps elongate to 3% and are designed to prevent dangerous recoil.



Our *Tuflex* version of the *Tow-All*^{\mathbb{M}} strap offers the most rugged synthetic strap on the market. We start with our standard *Tuflex* Roundsling:



2

3

Add an additional jacket of texturized, abrasion resistant nylon, installed over the body, creating an eye/eye style.

The 18" long eyes are then covered with ballistic nylon material for additional protection.

An 18" long sliding sleeve wear pad provides added protection against load edges.

Inspection Criteria for all *Tow-All* Vehicle Recovery straps:

Remove from service if any of the following are visible:

- Signs of melting, charring or chemical damage.
- Holes, tears, snags, or cuts on the face or edge of webbing.
- Visible signs of damage exposing core yarns.
- Signs of excessive abrasive wear.
- Broken or worn threads in the stitch patterns.
- Any other visible damage.
- Illegible or missing identification tag.
- Knots.



Part Number	Ultimate Breaking Strength [*] (lbs.)	Towing Capacity ⁺ (Ibs.)
TSEN90X20 TSEN90X30	42,000	14,000
TSEN120X20 TSEN120X30	52,500	17,500
TSEN150X20 TSEN150X30	66,000	22,000
TSEN180X20 TSEN180X30	84,000	28,000
TSEN240X20 TSEN240X30	105,900	35,300
TSEN360X20 TSEN360X30	154,800	51,600
TSEN600X20 TSEN600X30	264,900	88,300
TSEN800X20 TSEN800X30	330,000	110,000
TSEN1000X20 TSEN1000X30	450,000	150,000

Ultimate breaking strength when new.
 Do not exceed towing capacity.
 Above ratings reflect a 3:1 design factor.

To use product for lifting applications with a 5:1 design factor, contact *Lift-All* when ordering.

Refer to photographs of damaged *Tuflex* roundslings in the Roundslings section of this catalog.



General

Slings

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

No

Lift-All Hoists

Plate Clamps

Lifting Devices

PERMALOC[™] WINCH LINES



Lift-All winch and hoist lines are made using 6X19 IWRC wire core ropes for better resistance to abrasion and crushing. Available with carbon hooks for large throat openings, or alloy hooks for longer life.

- Permaloc Flemish Eye splice for high strength efficiency.
- Meets OSHA 1910.184 and ASME B30.9.
- Heavy-duty thimble in eye extends useful life.
- Economical custom assemblies.
- No assembly time ready to install.
- Stainless steel latch keeps hook in proper place.



DOMESTIC



IMPORT

			6X19 IWR	C STEEL COR	E	
Dana			DOM	IESTIC	IMF	PORT
Rope Diameter (in.)	WLL (tons)	Length (ft.)	Eye Hook & Latch	Swivel Eye Hook & Latch	Eye Hook & Latch	Swivel Eye Hook & Latch
		35	38WX35	38WSX35	38WIX35	38WISX35
		50	38WX50	38WSX50	38WIX50	38WISX50
3/8"	2.4	75	75 38WX75 38WSX75 38WIX75		38WISX75	
		100	38WX100	38WSX100	38WIX100	38WISX100
		150	38WX150	38WSX150	38WIX150	38WISX150
		50	716WX50	716WSX50	716WIX50	716WISX50
7/46"	2.2	75	716WX75	716WSX75	716WIX75	716WISX75
7/16"	3.2	100	716WX100	716WSX100	716WIX100	716WISX100
		150	716WX150	716WSX150	716WIX150	716WISX150
		75	12WX75	12WSX75	12WIX75	12WISX75
1/2"	4.2	100	12WX100	12WSX100	12WIX100	12WISX100
		150	12WX150	12WSX150	12WIX150	12WISX150



PERMALOC[™] WINCH LINES

		6X19 F	IBER CORE															
			IMP	ORT														
Rope Diameter (in.)	WLL (tons)	Length (ft.)	Eye Hook & Latch	Swivel Eye Hook & Latch														
		35	38WFIX35	38WFISX35														
	1.88	50	38WFIX50	38WFISX50														
3/8"		1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	75	38WFIX75	38WFISX75
		100	38WFIX100	38WFISX100														
		150	38WFIX150	38WFISX150														
		50	716WFIX50	716WFISX50														
7/16"	25	75	716WFIX75	716WFISX75														
//10	2.5	100	716WFIX100	716WFISX100														
		150	716WFIX150	716WFISX150														

WINCH LINE EXTENSIONS

- All winch lines extensions are U.S. made using either domestic or imported rope and fittings.
- Eyes are made using the flemish eye technique and include a thimble for eye protection.
- Latches are included with all hooks.



	6X19	9 IWRC	STEEL CORE	
Rope Diameter (in.)	WLL (tons)	Length (ft.)	Domestic	Import
3/8"	2.4	35	38WEX35	38WEIX35
3/0	2.4	50	38WEX50	38WEIX50
7/16"	3.2	50	716WEX50	716WEIX50
1/2"	4.2	50	12WEX50	12WEIX50

Mesh Slings

Hoist





Informatio

Web

Round Slings

Protection

Sling

Wire Rope

Chain Slings

Rigging Hardware

Load

§ §

Lift-All

Plate Clamos

Devices

Lifting

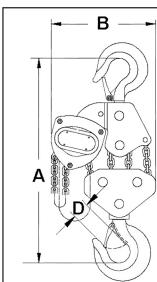
Mesh Slings

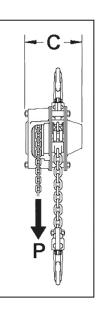
General

MANUAL CHAIN HOIST (MCH)

Lift-All hoists are perfect for a lowheadroom lift. These economical, durable, and lightweight hoists are excellent options for a variety of lifting applications. The fully enclosed gears are protected from contamination. Powder-coated and plated finishes on exposed components protect the hoists from corrosion. All gears and shafts run on caged roller bearings for smooth operation and long life (excludes mini pullers). The self-adjusting Weston style mechanical load brake never requires adjustment. The top hook mounting aids in rigging and helps ensure straight line loading between hooks.







Part		Metric	Load	Hand		Dimer	nsions (ir	n./Ibs.)		Weight				
Number	Lift	Tons	Chain Ibs./ft.	Chain Ibs./ft.	A min.	В	с	D	Ρ	10' Lift				
MCH005X10	10'													
MCH005X20	20'	.5	0.54	0.38	10.6	5.4	5.4	1.10	45	22				
MCH005X30	30']												
MCH010X10	10'													
MCH010X20	20'	1	0.54	0.38	13.6	6.4	5.8	1.10	72	26				
MCH010X30	30']												
MCH015X10	10'													
MCH015X20	20'	1.5	0.92	0.38	15.7	7.2	6.7	1.28	81	42				
MCH015X30	30'													
MCH020X10	10'								82					
MCH020X20	20'	2	0.92	0.38	16.3	7.6	6.7	1.26		44				
MCH020X30	30'													
MCH030X10	10'								87					
MCH030X20	20'	3	1.84	0.38	20.9	8.7	6.7	1.46		59				
MCH030X30	30'													
MCH050X10	10'													
MCH050X20	20'	5	2.96	0.38	25.0	11.3	7.5	1.80	98	101				
MCH050X30	30'													
MCH100X10	10'													
MCH100X20	20'		5.92	0.38	0.38	0.38	0.38	0.38	0.38	29.3	15.1	7.5	1.97	98
MCH100X30	30'	1												

Meets ASME B30, OSHA 1915.114, and NASA-STD-8719.9

- * **A** WARNING
- Do not exceed working load limit (load rating capacity).Do not lift loads over people.
- Use only alloy chain for overhead lifting.
 Read and follow all instructions.

Do not use to lift people.



General

Slings Web

Slings Round

Protection

Rope

Chain Slings

Hardware Rigging

Slings Mesh

Huggers -oad

Lift-All

Plate lamps

Lifting

Sling

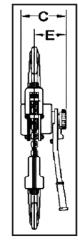
Wire

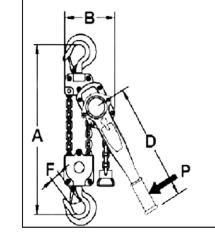
LEVER CHAIN HOIST (LCH)

Lever Chain Hoists are highly versatile tools that can be used to pull, lift, drag or stretch. All Lever Chain Hoists use alloy steel chain for long life, and forged steel swivel hooks with latches for safety.

Part Number	Lift	WLL (Metric Ton)
LCH008X5	5'	
LCH008X10	10'	3/4
LCH008X20	20'	
LCH015X5	5'	
LCH015X10	10'	1.5
LCH015X20	20'	
LCH030X5	5'	
LCH030X10	10'	3
LCH030X20	20'	
LCH060X5	5'	
LCH060X10	10'	6
LCH060X20	20'	

- Easy one hand operation and setup.
- Operates in any orientation.
- Non-slip rubber grip lever and 360° rotation require minimal space for operation with 20 to 30% less pull force than other brands.
- Powder-coated and plated finishes resist corrosion.
- Fully enclosed gearing to protect from contamination.
- The automatic Weston style mechanical load brake will react to the inertia of a descending load.
- Drop forged alloy hooks are designed to stretch before chain failure when overloaded and are equipped with cast steel safety latches.
- The top hook articulates to aid in rigging and helps ensure straight line loading between hooks.







A WARNING

-		D	imensi	ons (in	.)		_	Weight per	Weight	Hoists
Part Number	A	В	С	D	Е	F	P (lbs.)	foot (Ibs.)	(lbs.) A=5-ft.	
LCH008	12.6	5.3	5.8	11.4	3.5	0.94	31	0.54	17	- Millo
LCH015	15.0	6.4	6.9	16.5	4.0	1.14	54	0.92	26	<u> </u>
LCH030	18.9	8.3	7.7	16.5	4.3	1.42	72	1.48	46	Cialiipa
LCH060	24.4	10.0	7.7	16.5	4.3	1.81	76	2.96	70	

Meets ASME B30, OSHA 1915.114, and NASA-STD-8719.9

- Do not exceed working load limit (load rating capacity). Do not lift loads over people.
- · Use only alloy chain for overhead lifting.

Do not use to lift people

· Read and follow all instructions.



General

Web

Round

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh

Load

§ §

Lift-All

Plate Clamp:

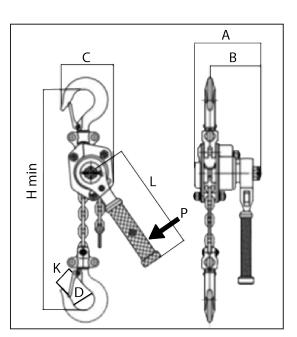
Lifting Devices



Mini Lever Hoists can lift up to 1,100 lbs., yet are small enough to fit in your toolbox! These mini lever hoists are the most compact on the market. They perform just like the larger models, plus come with these great features:

- Easy to transport, install, and store.
- Low headroom design for use in tight spaces.
- Rubber hand grip for better comfort and security.
- Lightweight and durable all-steel construction with chrome exterior finish to resist corrosion.
- Sleeve bearings maximize serviceability and provide good efficiency.
- Self-adjusting pawl and disc type mechanical load brake ensure positive load control.
- The brake will stop a load even if the operator leaves the unit in free chain mode and in neutral.
- Your choice of either 5-ft. or 10-ft. lifts.
- Meets ASME B30, OSHA 1915.114, and NASA-STD-8719.9





					Dime	nsion	s (in.)			Р	
Part Number	Lift (ft.)	WLL (Ibs.)	А	в	С	D	H min	L	κ	Max (Ibs.)	Weight (Ibs.)
MLH003X5	5	550	3.6	6 2.8	2.2	10	0.0	6.3	0.9	56.2	4.4
MLH003X10	10	550			3.3	1.2	9.8	0.5	0.9	50.2	5.8
MLH005X5	5	1100	1 1	.1 3.1	3.2	1 /	10.6	11 0	1 1	76.4	8.2
MLH005X10	10	1100	4.1			1.4		11.8	1.1	76.4	9.9

A

WARNING

Do not exceed working load limit (load rating capacity).Do not lift loads over people.

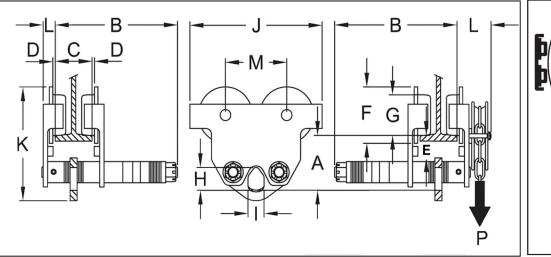
Use only alloy chain for overhead lifting.Read and follow all instructions.

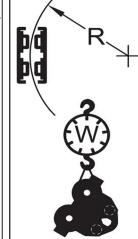
Hoists

PUSH TROLLEY

- 1/2t to 5t installation and adjustment by rotating the threaded hanger shaft.
- 10t to 30t is from one side, trolley hanger shafts are mounted to the opposite side plate.
- Trolleys up to 5t have a 5:1 design factor and can be used for manual or powered hoists.
- The 10t has a 4:1 design factor and must be derated for powered hoist.
- Machined cast iron wheels with universal tread design to fit flat on tapered beam flanges.
- Low headroom design with precision sealed "lubed for life" bearings assure smooth operation.
- Durable all steel construction with standard safety lugs.
- Geared trolley hand chain drop is standard with a 20' drop.
- Meets ASME/ANSI B30.16, OSHA, NASA-STD-8719.9, EU Directives: 2006/42/EC.
- ATEX rated $\langle \xi_X \rangle$ II 3 GD c IIB 54° C X for limited use in Hazardous Environments.

	WLL			C	Dimensions (in.)										R	Weight	
wodei	(Metric Tons)	A	В	Standard (in.)	D	Е	F	G	н	I	J	к	L	М	Р	MIN (in.)	(lbs.)
PT005	1/2	3.3	11.5	1.97 - 8.66	0 - 0.12	1.5	2.3	3.4	1.2	0.9	8.9	6.8		4	_	36	18
PT010	1	3.7	11.8	2.28 - 8.66	0 - 0.12	1.7	2.4	3.7	1.4	0.9	9.9	7.4	_	4.7	—	40	24
PT020	2	4.4	12.2	2.60 - 8.66	0 - 0.12	1.6	3.2	4.6	1.9	1.0	11.8	8.9	_	5.5	_	48	40
PT030	3	5.8	12.8	2.91 - 8.66	0 - 0.12	2.5	3.9	5.5	2.3	1.3	14.2	11.4	_	6.3	_	52	69
PT050	5	6.3	13.0	3.54 - 8.66	0 - 0.12	2.2	4.3	5.9	2.8	1.5	15.4	12.3	_	6.7	_	56	94
PT100	10	7.5	15.5	4.9 - 12.01	0.08 - 0.13	1.8	7.0	5.4	4.4	2.8	18.1	15.5	1.8	7.9	_	79	198







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General

Web Slings

Round Slings

Protection

Wire

Chain Slings

Rigging Hardware

Mesh Slings

Huggers Products

Load

Tow

Sling

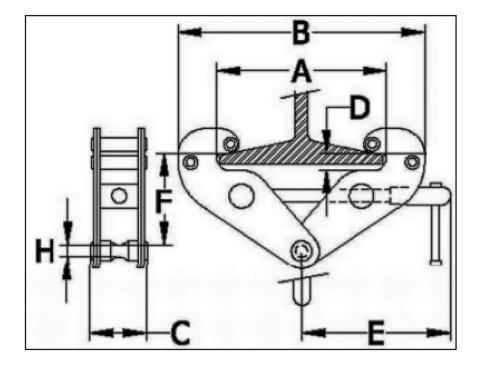


BEAM CLAMP

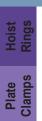
- The easy way to install a fixed hoist mount or rigging point.
- Simple installation by hand, no tools required.
- Compact and portable low headroom design.
- Meets OSHA, ASME B30, NASA-STD-8719.9 and EU Directives: 2006/42/EC.



	WLL	Сарас	WLI ity fro	_	ical		C)imens	ions (in	.)			
Mode	(Metric Tons)	0°	15°	30°	45°	A Adjustment	B Max	С	D	E	F Max	н	Weight (Ibs.)
BC-1) 1	2,200	0	0	0	3.1 - 9.6	14.6	3.7	0.75	7.8	5.6	0.8	7.7
BC-2	2	4,400	0	0	0	3.1 - 9.6	14.6	4.0	0.75	7.8	5.6	0.8	9.9
BC-3	3	6,600	0	0	0	3.5 - 13.0	19.7	5.2	1.12	10.4	7.8	0.9	20.9
BC-5	5	11,000	0	0	0	3.5 - 13.0	19.7	5.6	1.41	10.4	8.2	0.9	24.3
BC-1	10	22,000	0	0	0	3.5 - 13.0	20.6	7.1	1.50	11.2	8.4	1.5	35.2



Web General Slings Information



Lifting Devices





HOIST RINGS

Hoist Rings Make Lifting Easy

Hoist rings provide the safest method of attaching pickup points to loads. Eye bolts tend to deform and fracture when lifted at an angle. Hoist rings are designed to eliminate this weakness.

Features and Benefits

Promotes Safety

- Designed for lifting at angles;safer than rigid eye bolts.
- Magnetic particle or X-Ray inspection of components assures the highest quality.
- Fixed lift points prevent load and sling from slipping and ensure proper rigging methods.
- Every hoist ring is stamped with rated capacity and proof-tested.

Saves Money

- Hoist rings minimize contact between sling and load, reducing potential damage.
- Alloy steel material increases strength and reduces wear.
- Black oxide finish resists corrosion.
- Highest industry quality for durability and long life.

Saves Time

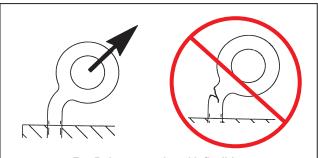
- Easy hook-up and disconnect of the load.
- Full swivel and pivot action of side pull hoist rings allows turning and flipping without unhooking.
- Easy to inspect.

Safe Operating Practices

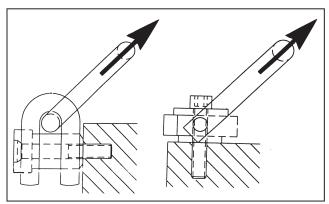
Read and understand instruction sheet supplied with each hoist ring prior to use.

- Do not use a damaged or defective hoist ring.
- Inspect before each use.
- Do not overload.
- Full thread length must be engaged and torqued according to tables.
- Periodic re-torquing may be required.

Hoist ring ratings apply to use at any angle. Be sure that sling tension does not exceed the rating of the hoist ring. Refer to the Effect of Angle chart in the HELP section of this catalog.



Eye Bolts are weak and inflexible; will deform when loaded at angle



Side Pull Hoist Ring Strong and flexible, Side Pull Hoist Rings allow for full 360° swiveling and

pivoting.

Center Pull Hoist Ring

Center Pull Hoist Rings are the industry standard and are designed for top of load mounting.

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Huggers

Tow Products

Lift-All Hoists

Plate Clamp

Lifting

Load

Hoist Rings



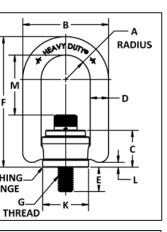
HOIST RINGS

Forged Center-Pull Hoist Rings

Forged hoist rings are ideal for OEM and industrial use.

- Forged high strength 4140 alloy steel.
- Swivels 360° and pivots 180° under load.
- Meets manufacturing and design requirements of ASME-B30.26 and MIL-STD 209.
- Magnetic particle inspected per ASTM 1444.
- Each hoist ring is individually serialized.
- Black oxide finish for corrosion resistance.
- Design Factor 5:1.





M

F

			Cent	er-Pull	Hoist	Rings	6 (Dimen	sions ii	n inches)			
Part Number	Load Capacity* (lbs.)	G Thread	А	В	С	D	E (+/12)	F	к	L	М	Torque** (ftlbs.)	Weight (Ibs.)
23906	800	5/16-18	0.65	2.29	0.96	0.44	0.56	3.23	1.25	0.15	1.51	7	0.52
23907	800	5/16-18	0.65	2.29	0.96	0.44	1.06	3.23	1.25	0.15	1.51	7	0.54
23908	1,000	3/8-16	0.65	2.29	0.96	0.44	0.56	3.23	1.25	0.15	1.45	12	0.56
23909	1,000	3/8-16	0.65	2.29	0.96	0.44	1.06	3.23	1.25	0.15	1.45	12	0.58
23910	2,500	1/2-13	1.00	3.50	1.50	0.75	0.75	5.31	1.89	0.17	2.56	28	1.71
23911	2,500	1/2-13	1.00	3.50	1.50	0.75	1.00	5.31	1.89	0.17	2.56	28	1.72
23914	4,000	5/8-11	1.00	3.50	1.50	0.75	1.00	5.31	1.89	0.17	2.44	60	1.78
23915	4,000	5/8-11	1.00	3.50	1.50	0.75	1.25	5.31	1.89	0.17	2.44	60	1.88
23917	5,000	3/4-10	1.00	3.50	1.50	0.75	1.00	5.31	1.89	0.17	2.31	100	1.89
23918	5,000	3/4-10	1.00	3.50	1.50	0.75	1.50	5.31	1.89	0.17	2.31	100	2.02
23926	10,000	1-8	1.50	5.10	2.05	1.00	1.45	7.37	2.81	0.18	3.20	230	7.57
23927	10,000	1-8	1.50	5.10	2.05	1.00	2.20	7.37	2.81	0.18	3.20	230	7.81
23929	15,000	1 1/4-7	2.00	6.75	2.87	1.25	1.88	9.22	3.88	0.18	3.74	470	15.7
23930	15,000	1 1/4-7	2.00	6.75	2.87	1.25	2.63	9.22	3.88	0.18	3.74	470	16.0
23933	24,000	1 1/2-6	2.00	6.75	2.87	1.25	2.63	9.22	3.88	0.32	3.49	800	18.1
23935	30,000	2-4 1/2	2.00	6.75	2.87	1.25	2.96	9.22	3.88	0.32	3.49	1100	22.9

		Met	ric Cei	nter-P	ull Hoi	ist Rir	ngs (Dim	ensions	in milli	meters)			
Part Number	Load Capacity* (kgs.)	G Thread	А	В	С	D	E (+/12)	F	к	L	м	Torque** (Nm)	Weight (kg.)
23956	400	M8 x 1.25	16.5	58.2	24.4	11.1	16	82.0	31.8	4.0	38.5	9.5	0.24
23958	450	M10 x 1.50	16.5	58.2	24.4	11.1	16	82.0	31.8	4.0	36.5	16	0.25
23962	1,050	M12 x 1.75	25.4	88.9	38.1	19.1	25	134.9	48.0	4.4	65.0	37	0.78
23965	1,900	M16 x 2.0	25.4	88.9	38.1	19.1	25	134.9	48.0	4.4	62.0	80	0.81
23968	2,200	M20 x 2.5	25.4	88.9	38.1	19.1	25	134.6	48.0	4.4	58.7	135	0.86
23974	4,200	M24 x 3.0	35.6	129.5	52.1	25.4	28	187.2	71.4	4.6	85.7	311	3.29
23975	4,200	M24 x 3.0	35.6	129.5	52.1	25.4	38	234.2	71.4	4.6	85.7	311	3.30
23979	7,000	M30 x 3.5	50.8	171.5	72.9	31.8	67	234.2	98.5	8.2	95.0	637.2	7.26
23982	11,000	M36 x 4.0	50.8	171.5	72.9	31.8	67	234.2	98.5	8.2	88.6	1085.5	8.21
23985	12,500	M42 x 4.5	50.8	171.5	72.9	31.8	80	234.2	98.5	8.2	88.6	1085.5	10.14
23986	13,500	M48 x 5.0	50.8	171.5	72.9	31.8	80	234.2	98.5	8.2	88.6	1085.5	10.59

All dimensions approximate. Variations do not affect use or design factor.

** It is recommended that these torques be used when installing hoist rings.



Do not exceed rated capacities. Be sure that sling tension does not exceed hoist ring capacity. Follow instructions for Effect of Angle in HELP section of this catalog.

Protection

Rope Wire

Chain Slings

Sling



Hoist Rings

HOIST RINGS

Sling Round Web General Protection Slings Information

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

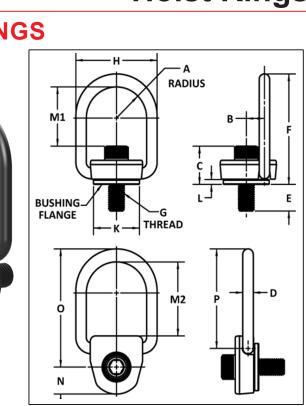
Load

Tow

Side-Pull Hoist Rings

A versatile style of hoist ring well suited for turning and flipping loads, as well as for top lifts. Extensively used in automotive stamping plants and injection molding operations for die changing.

- Re-designed load ring is more suitable for use with web slings.
- Self-aligns in the direction of the load.
- Rotates 360° under load.
- Forged high strength 4140 alloy steel.
- Designed for loading 90° from bolt axis.
- Meets manufacturing and design requirements of ASME-B30.26 and MIL-STD 209.
- Magnetic particle inspected per ASTM 1444.
- Each hoist ring is individually serialized.
- Black Oxide finish for corrosion resistance.
- Design Factor 5:1.



					Side	-Pull	Hoist I	Rings	S (Dim	ensior	ns in i	nches)					
Part Number	Load Capacity* (lbs.)	G Thread	A	в	с	D	E (+/12)	F	н	к	L	M1	M2	N	ο	Ρ	Torque** (ftlbs.)	Weight (Ibs.)
10253	800	5/16 - 18	1.44	0.87	1.33	0.5	0.48	5.12	3.88	2.19	0.23	3.18	3.43	1.25	5.48	4.61	7	2.05
10254	1,000	3/8 - 16	1.44	0.87	1.40	0.5	0.48	5.12	3.88	2.19	0.23	3.12	3.43	1.25	5.48	4.61	12	2.12
10255	2,500	1/2 - 13	1.44	0.87	1.52	0.5	0.98	5.12	3.88	2.19	0.23	2.99	3.43	1.25	5.48	4.61	28	2.12
10256	4,000	5/8 - 11	1.44	0.87	1.65	0.5	0.98	5.12	3.88	2.19	0.23	2.87	3.43	1.25	5.48	4.61	60	2.22
10257	5,000	3/4 - 10	1.44	0.87	1.77	0.5	1.23	5.12	3.88	2.19	0.23	2.74	3.43	1.25	5.48	4.61	100	2.34
10258	10,000	1 - 8	1.75	1.25	2.47	0.75	1.53	6.88	5.00	3.13	0.31	3.51	4.34	1.63	7.40	6.15	230	6.64

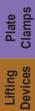
				Ме	tric \$	Side	-Pul	Hoist F	Rings	S (Din	nensio	ons in	millin	neters)				
	Part Number	Load Capacity* (kg.)	G Thread	А	в	С	D	E (+/3.0)	F	н	к	L	M1	M2	N	0	Ρ	Torque** (Nm)	Weight (kg.)
	10262	400	M8 x 1.25	37	22	34	13	14	121	98	56	6	74	81	32	130	117	9.5	0.93
gs	10263	450	M10 x 1.50	37	22	36	13	24	130	99	56	6	79	87	32	139	117	16	0.96
	10264	1,050	M12 x 1.75	37	22	38	13	39	130	99	56	6	77	87	32	139	117	37	0.96
	10265	1,900	M16 x 2.00	37	22	42	13	39	460	99	56	6	73	87	32	139	117	80	1.01
	10266	2,200	M20 x 2.50	37	22	46	13	39	130	99	56	6	69	87	32	139	117	135	1.07
	10267	4,200	M24 x 3.00	22	32	61	19	43	175	127	79	8	90	110	41	188	156	311	2.73

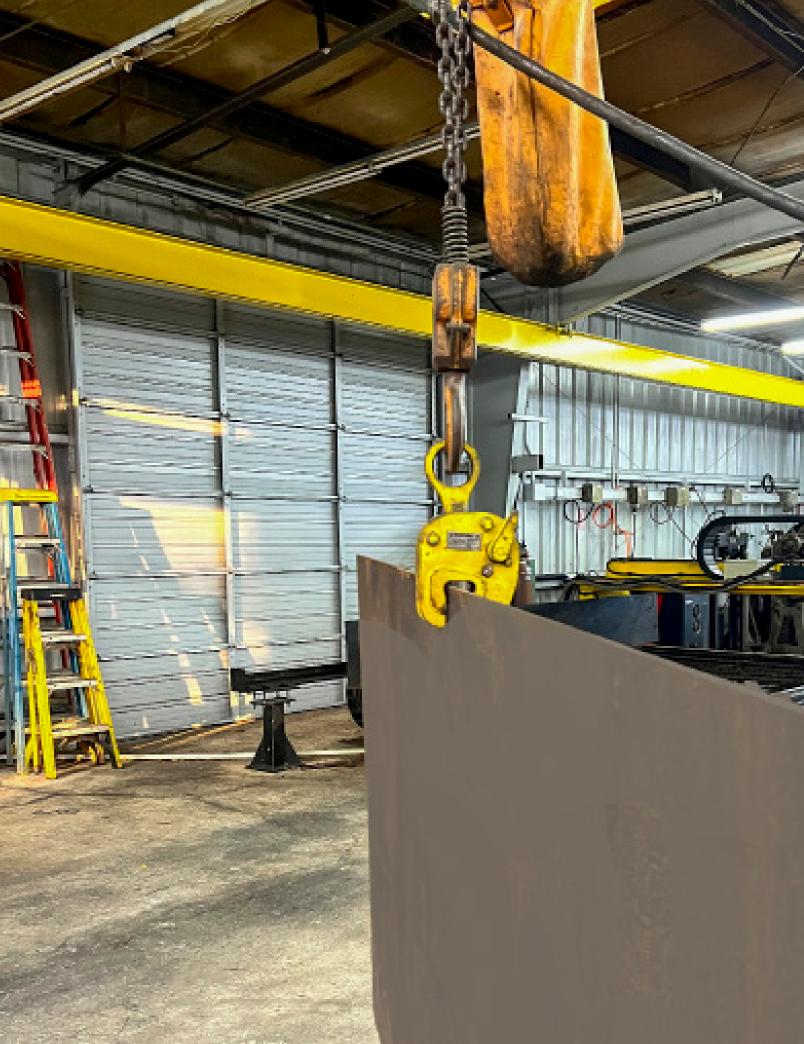
** It is recommended that these torques be used when installing hoist rings.



Do not exceed rated capacities. Be sure that sling tension does not exceed hoist ring capacity. Follow Instructions for Effect of Angle chart in HELP section of this catalog.

Lift-All Hoists







Information

Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Lift-All

Hoist

l ifting

General

Web

MODEL VL & VLC

Horizontal to Vertical - 180° rotation

- Turn a single steel plate from horizontal to vertical to horizontal through a 180° arc.
- Lock open / lock closed feature facilitates loading and unloading clamp while it protects grippers from damage and closes on material for a more secure lift.

Working parts remain inside the body when the clamp is locked closed or



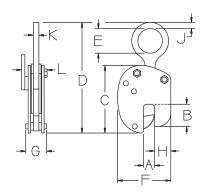
locked open.

Model VLC

Model VLC offers the same features as model VL except it locks closed only.

2 - 20 Ton VL

1/2 - 1 Ton VL

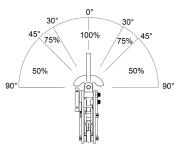


				INIO	DEL V	L۵۱	LC						
Vertical Capacity (tons)	Part Number	A (in.)	B (in.)	C (in.)	Max Height D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (in.)	K (in.)	L (in.)	Weight (Ibs.)
1/2	VL-0.5-A	0 - 7/8	2-3/4	7	11-1/2	2-1/4	5-5/8	2-1/2	1-3/4	1/2	1/2	3	9
1	VL-1.0-A	0 - 7/8	2-3/4	7	11-1/2	2-1/4	5-5/8	2-1/2	1-3/4	1/2	1/2	3	10
2	VL-2.0-A	0 - 1-5/8	4-1/8	9-1/8	15-1/4	3	8-3/8	3-3/8	2-1/2	3/4	5/8	4	22
3	VL-3.0-A	0 - 1-5/8	4-1/8	9-1/8	15-1/4	3	8-3/8	3-3/8	2-1/2	3/4	5/8	4	24
1/2	VLC-0.5-A	0 - 7/8	2-3/4	7	11-1/2	2-1/4	5-5/8	2-1/2	1-3/4	1/2	1/2	3	9
1	VLC-1.0-A	0 - 7/8	2-3/4	7	11-1/2	2-1/4	5-5/8	2-1/2	1-3/4	1/2	1/2	3	10
2	VLC-2.0-A	0 - 1-5/8	4-1/8	9-1/8	15-1/4	3	8-3/8	3-3/8	2-1/2	3/4	5/8	4	22
3	VLC-3.0-A	0 - 1-5/8	4-1/8	9-1/8	15-1/4	3	8-3/8	3-3/8	2-1/2	3/4	5/8	4	24

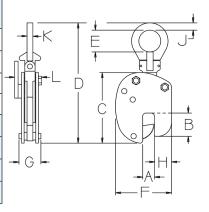
MODEL VL-U & VLC-U

Allows for Side Loading of the Lifting Shackle - 90°

- Both models rated lift capacity lowers as the angle of the pull increases (refer to Figure A).
- VL-U and VLC-U offer the same features as model VL except it locks closed only.
- Clamp requires operator to manually hold in "open" position when loading and unloading and locks closed onto material for a more secure lift.











Model VLC-U

			I	MODE	L VL-	U & V	/LC-U						
Vertical Capacity (tons)	Part Number	A (in.)	B (in.)	C (in.)	Max Height D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (in.)	K (in.)	L (in.)	Weight (Ibs.)
1/2	VL-U-0.5-A	0 - 7/8	2-3/4	7	13	2-1/4	5-5/8	2-1/2	1-3/4	1/2	1/2	3	11
1	VL-U-1.0A	0 - 7/8	2-3/4	7	13	2-1/4	5-5/8	2-1/2	1-3/4	1/2	1/2	3	12
2	VL-U-2.0-A	0 - 1-5/8	4-1/8	9-1/8	17-3/8	3	8-3/8	3-3/8	2-1/2	3/4	5/8	4	26
3	VL-U-3.0-A	0 - 1-5/8	4-1/8	9-1/8	17-3/8	3	8-3/8	3-3/8	2-1/2	3/4	5/8	4	28
1/2	VLC-U-0.5-A	0 - 7/8	2-3/4	7	13	2-1/4	5-5/8	2-1/2	1-3/4	1/2	1/2	3	11
1	VLC-U-1.0A	0 - 7/8	2-3/4	7	13	2-1/4	5-5/8	2-1/2	1-3/4	1/2	1/2	3	12
2	VLC-U-2.0-A	0 - 1-5/8	4-1/8	9-1/8	17-3/8	3	8-3/8	3-3/8	2-1/2	3/4	5/8	4	26
3	VLC-U-3.0-A	0 - 1-5/8	4-1/8	9-1/8	17-3/8	3	8-3/8	3-3/8	2-1/2	3/4	5/8	4	28
	Capacity (tons) 1/2 1 2 3 1/2 1 2	Capacity (tons) Part Number 1/2 VL-U-0.5-A 1 VL-U-1.0A 2 VL-U-2.0-A 3 VL-U-3.0-A 1/2 VLC-U-0.5-A 1/2 VLC-U-0.5-A 1/2 VLC-U-0.5-A 1 VLC-U-0.5-A 1 VLC-U-0.5-A 1 VLC-U-0.5-A 1 VLC-U-0.5-A 1 VLC-U-1.0A 2 VLC-U-2.0-A	Capacity (tons) Part Number A (in.) 1/2 VL-U-0.5-A 0 - 7/8 1 VL-U-1.0A 0 - 7/8 2 VL-U-2.0-A 0 - 1-5/8 3 VL-U-3.0-A 0 - 1-5/8 1/2 VLC-U-0.5-A 0 - 7/8 1/2 VLC-U-0.5-A 0 - 7/8 2 VLC-U-0.5-A 0 - 7/8 1 VLC-U-1.0A 0 - 7/8 2 VLC-U-2.0-A 0 - 1-5/8	Vertical Capacity (tons) Part Number A (in.) B (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 1 VL-U-1.0A 0 - 7/8 2-3/4 2 VL-U-2.0-A 0 - 1-5/8 4-1/8 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 1 VLC-U-1.0A 0 - 7/8 2-3/4 1/2 VLC-U-2.0-A 0 - 1-5/8 4-1/8 1/2 VLC-U-3.0-A 0 - 7/8 2-3/4 1 VLC-U-3.0-A 0 - 7/8 2-3/4 2 VLC-U-3.0-A 0 - 1-5/8 4-1/8	Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 1 VL-U-1.0A 0 - 7/8 2-3/4 7 2 VL-U-2.0-A 0 - 1-5/8 4-1/8 9-1/8 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 1 VLC-U-1.0A 0 - 7/8 2-3/4 7 1 VLC-U-1.0A 0 - 7/8 2-3/4 7 2 VLC-U-2.0-A 0 - 1-5/8 4-1/8 9-1/8	Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2 VL-U-2.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 3 VL-U-3.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 1/2 VLC-U-1.0A 0 - 7/8 2-3/4 7 13 1 VLC-U-1.0A 0 - 7/8 2-3/4 7 13 2 VLC-U-1.0A 0 - 7/8 2-3/4 7 13 1 VLC-U-1.0A 0 - 7/8 2-3/4 7 13 2 VLC-U-2.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8	Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) E (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 2 VL-U-2.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 3 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 1 VLC-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 1 VLC-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 2 VLC-U-2.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3	Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) E (in.) F (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2 VL-U-2.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3 VL-U-3.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 1 VLC-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2 VLC-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2 VLC-U-2.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 <	Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Height D (in.) E (in.) F (in.) G (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 2 VL-U-2.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 3 VL-U-3.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1 VLC-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 2 VLC-U-2.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 3 8-3/8	Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) E (in.) F (in.) G (in.) H (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 2 VL-U-2.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 VLC-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 <tr< th=""><th>Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) F (in.) G (in.) H (in.) J (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 2 VL-U-2.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 3/4 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 VLC-U-1.0A 0 - 7/8 2-3/4 7 13</th><th>Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) E (in.) F (in.) G (in.) H (in.) J (in.) K (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 2 VL-U-2.0-A 0 - 17/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 2 VL-U-2.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4</th><th>Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) F (in.) G (in.) H (in.) J (in.) K (in.) L (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 3 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 3 2 VL-U-2.0-A 0 - 17/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 4 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 4 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 4 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13</th></tr<>	Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) F (in.) G (in.) H (in.) J (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 2 VL-U-2.0-A 0 - 1/5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 3/4 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 VLC-U-1.0A 0 - 7/8 2-3/4 7 13	Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) E (in.) F (in.) G (in.) H (in.) J (in.) K (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 2 VL-U-2.0-A 0 - 17/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 2 VL-U-2.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4	Vertical Capacity (tons) Part Number A (in.) B (in.) C (in.) Max Height D (in.) F (in.) G (in.) H (in.) J (in.) K (in.) L (in.) 1/2 VL-U-0.5-A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 3 1 VL-U-1.0A 0 - 7/8 2-3/4 7 13 2-1/4 5-5/8 2-1/2 1-3/4 1/2 1/2 3 2 VL-U-2.0-A 0 - 17/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 4 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 4 3 VL-U-3.0-A 0 - 1-5/8 4-1/8 9-1/8 17-3/8 3 8-3/8 3-3/8 2-1/2 3/4 5/8 4 1/2 VLC-U-0.5-A 0 - 7/8 2-3/4 7 13

Plate Clamps



General

formation

Web Slings

Round Sling Slings Protection

Wire Rope

Chain Slings

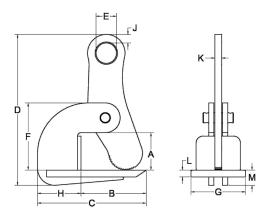
Rigging Hardware

Mesh Slings

Load Huggers

Lift-All Hoists

Hoist



MODEL HL Horizontal

- Use in pairs, or tripod arrangement to lift and transfer plates in a horizontal position only.
- Serrated gripping cams.
- Available with smooth non-marring cams.



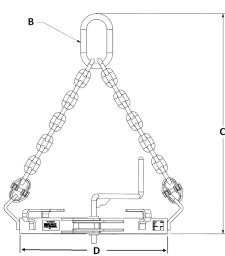
Vertical Capacity (tons)	Part Number	Plate Thickness A (in.)	B (in.)	C (in.)	Max Height D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (in.)	K (in.)	L (in.)	M (in.)	Weight (Ibs. per pair)
1/2	HL-0.5-A	0 - 1	4	6-1/8	6-1/2	1-1/4	2-5/8	3	2-1/8	1/2	1/2	3/8	7/8	10
1	HL-1.0-A	0 - 2-1/2	5	8	11	1-1/2	5	4	3	5/8	1/2	1/2	1-1/8	25
2	HL-2.0-A	0 - 2-1/2	5	8	11	1-1/2	5	4	3	5/8	5/8	1/2	1-1/8	28
3	HL-3.0-A	0 - 2-1/2	5	8-5/16	11-1/2	1-1/2	5	5	3-5/16	5/8	3/4	3/4	1-1/2	40
6	HL-6.0-A	0 - 2-1/2	5	8-5/16	11-1/2	1-1/2	5	5	3-5/16	5/8	3/4	3/4	1-1/2	43
8	HL-8.0-A	0 - 3	6-1/2	10-7/8	15	1-3/4	6-5/8	6	4-3/8	1-1/8	1	1	2	97

MODEL 300-S DRUM LIFTER Vertical only

- Secure locking device.
- Easy handling of one drum.
- Vertical lift and transport.

Vertical Capacity (tons)	Part Number	Drum Diameter	Lifting Eye B	Max Height C	Max Width D	Weight	Clamp Orientation
3000	300S-01.50-A	22.50	3 X 6	25	22.50	25	Vertical only





Lifting Devices

Plate Clamps



Product Information



nformation General

Slings

Web

Round Slings

Protection

Sling

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Huggers

Products Tow

Hoists

Lift-All

Hoist Rings

Clamps

Plate

Load

Quality Engineered Products

These products have been engineered and produced to the highest quality standards and meet or exceed applicable U.S. government standards including OSHA, ASME B30.20, B30.9 and B30.17. Proof-testing with certification is available upon request for a nominal charge. Custom devices can be designed to meet your lifting application needs (see end of Lifting Devices section).

Product Overview



Lifting Beams

Allow multiple pick points for balance and support. The top rigging adds stability to the lift. Available in nine standard styles.



Coil Lifters

Use to lift, manipulate and reposition coils. Requires minimum aisle space equal to lifter arm length. Available in two standard styles.



Gantry Cranes

These portable cranes allow for the pick-up and transport of a load wherever you have a smooth and level floor. Available in either steel or aluminum and fixed or adjustable height.



Forklift Accessories

Three styles of booms and two hook devices provide added lifting capabilities to vour forklift trucks.



Beam/Girder Clamps For use in lifting and positioning structural beams. Two styles may also be hung from load

bearing beams to suspend hoists or other lifting devices.



positioning of steel, iron and concrete



Barrier Grabs

Scissor-style grab is the easy way to lift and move concrete road barriers. Auto-latch for hands-off operation.



Manhole Sleeve Lifter The quick and easy way to place cast manhole sleeves. 2-leg and 3-leg configurations available.

Lifting Device Return Policy

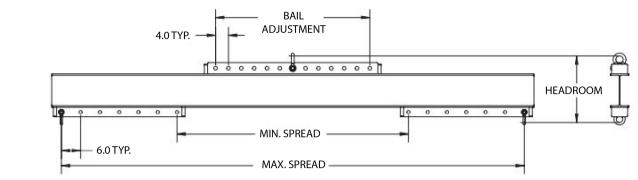
- Items to be returned **MUST BE UNUSED** and in like-new condition.
- Contact Lift-All's customer service department to obtain an RMA number; no returns will be accepted without it.
- The customer must prepay freight to the designated location.
- Request for return MUST be made within 30-days of the original shipment date (not receipt date). .
- A restocking fee of 25% shall be charged for all authorized returns.
- Credit will be issued after receipt, inspection, and acceptance of the return.
- Custom (non-standard) items or modified items are non-returnable and non-refundable.

Devices Lifting



Economical Lifting Beams

ADJUSTABLE SPREADER/LIFTING BEAM (ASLB16)



Features

General

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

To≷

Lift-All Hoists

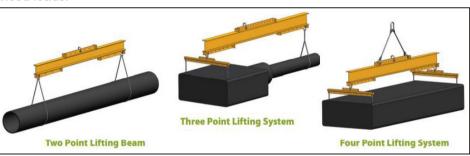
Plate Clamo:

Lifting

- Use for 2, 3, or 4-point lifting, or as a spreader beam (optional top rigging).
- Adjustable lifting points.
- Handles both wide and unbalanced loads.
- Low headroom capability.
- Shackles included.
- 6" spread adjustments.
- 4" bail adjustments.

Options

- Pair of swivel hooks*.
- Top chain rigging available.

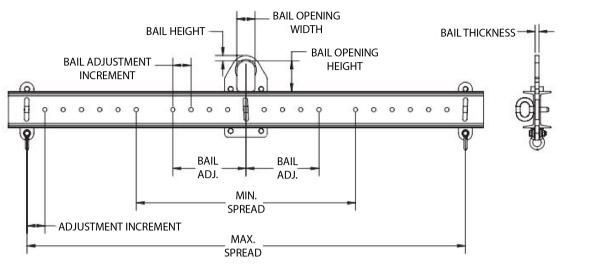


Rated Capacity	Part Number*	Sprea	d (ft.)	Bail Adjustment		yle Anchor (les (tons)	Headroom	Weight
(tons)		Max.	Min.	(in.)	Тор	Bottom	(in.)	(lbs.)
1/4	ASLB.5X4	4	1	16	1.50	1.50	8.00	45
1/2	ASLB1X4	4	1	16	1.50	1.50	8.00	45
1/2	ASLB1X6	6	3	24	1.50	1.50	10.00	80
1/2	ASLB1X8	8	4	32	1.50	1.50	11.00	135
1/2	ASLB1X10	10	5	40	1.50	1.50	11.00	145
1	ASLB2X6	6	3	24	1.50	1.50	11.00	100
1	ASLB2X8	8	4	32	1.50	1.50	12.00	140
1	ASLB2X10	10	5	40	1.50	1.50	12.00	175
2	ASLB4X6	6	3	24	3.25	2.00	14.00	130
2	ASLB4X8	8	4	32	3.25	2.00	15.00	200
2	ASLB4X10	10	5	40	3.25	2.00	16.00	280
4	ASLB8X8	8	4	32	4.75	4.75	18.00	290
4	ASLB8X10	10	5	40	4.75	4.75	20.00	420
4	ASLB8X12	12	6	48	4.75	4.75	20.00	500
5	ASLB10X8	8	4	32	6.50	4.75	20.00	320
5	ASLB10X10	10	5	40	6.50	4.75	21.00	465
5	ASLB10X12	12	6	48	6.50	4.75	21.00	550
7	ASLB14X12	12	6	48	8.50	6.50	25.00	790

* For optional swivel hooks, add an S to part number and contact Lift-All for pricing.

Economical Lifting Beams

ADJUSTABLE LIFTING BEAM (ALB17)

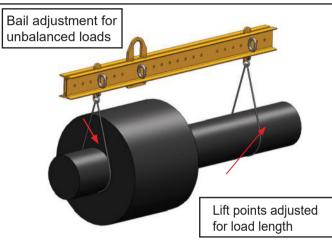


Features

- Adjust bail horizontally for lifting unbalanced loads.
- Provides clearance in low headroom applications.
- Spread adjusts in 6" increments.
- Shackles included.

Options

Pair of swivel hooks*.



Rated	Part	Spr (ft		Bail Adjustment		Bail Dim	ensions (i	n.)	Headroom	Bail Travel (Half of	Shackle	Weight	Hoists
Capacity (tons)	Number*	Max.	Min.	Increments (in.)	Height	Opening Width	Opening Height	Thickness	(in.)	Center)	Size	(lbs.)	ts
1-1/4	ALB2.5X6	6	3	3	1	3	5	0.63	14.7	12	2	120	Rings
2	ALB4X6	6	3	3	1	3	5	0.63	14.7	12	2	140	
4	ALB8X8	8	4.5	6	1	4	7	0.75	19.8	18	3.25	315	Clamps
5	ALB10X10	10	5	6	1	4	7	1.00	22.4	18	4.75	440	Devic

* For optional swivel hooks, add an S to part number and contact Lift-All for pricing.

Hoist

Plate

_ifting

Tow



General

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Lift-All Hoists

Hoist

Plate Clamps

> Lifting Devices

Economical Lifting Beams

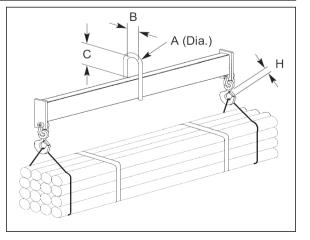
FIXED SPREAD LIFTING BEAM (FSLB19)



Rated Capacity (tons)	Part Number	Spread (ft.)	Bail Dimensions A • B • C • H (in.)	Headroom (in.)	Weight (Ibs.)
	FSLB1X2	2		13.75	20
	FSLB1X3	3	A•0.75	13.75	26
1/2	FSLB1X4	4	B•3.00	13.75	33
1/2	FSLB1X6	6	C•5.00	13.75	48
	FSLB1X8	8	H•0.89	14.75	75
	FSLB1X10	10		14.75	93
	FSLB2X2	2		14.75	26
	FSLB2X3	3	A • 1.00	14.75	35
1	FSLB2X4	4	B•3.00	14.75	44
1	FSLB2X6	6	C•5.00	15.75	72
	FSLB2X8	8	H•0.89	15.75	93
	FSLB2X10	10		16.75	131
	FSLB4X3	3	A•1.00	16.75	45
	FSLB4X4	4	B•3.00	17.75	55
2	FSLB4X6	6	C•5.00	19.75	108
	FSLB4X8	8	H • 1.00	19.75	140
	FSLB4X10	10			188
	FSLB6X3	3	A•1.50	18.50	58
	FSLB6X4	4	B•4.00	20.50	87
3	FSLB6X6	6	C • 7.00	20.50	118
	FSLB6X8	8	H • 1.00	20.50	222
	FSLB6X10	10		20.50	272

Features

- Fixed spread.
- Eye hooks with latches.
- Sealed construction for cleaner beam.



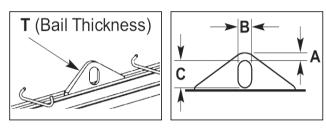
Economical Lifting Beams

BASKET SLING LIFTING BEAM (BSLB18)



Features

- Best beam for low headroom applications.
- Fixed spread.
- Bent bar hooks allow for 2" wide sling eyes:
 - One set for 3' and 4' spreads.
 - Two sets for 6' through 12' spreads.
- Spread 2 is one-half of spread 1.



Rated Capacity (tons)	Part Number	Spread (ft.)	Bail Dimensions A • B • C • T (in.)	Headroom (in.)	Weight (Ibs.)
	BSLB1X3	3		8.50	40
	BSLB1X4	4	A•0.88	8.50	48
1/2	BSLB1X6	6	B•3.00	8.50	78
1/2	BSLB1X8	8	C•5.00	8.50	95
	BSLB1X10	10	T•0.75	8.50	113
	BSLB1X12	12		9.50	171
	BSLB2X3	3		8.50	40
	BSLB2X4	4	A•0.88	8.50	48
1	BSLB2X6	6	B•3.00	9.50	93
I	BSLB2X8	8	C•5.00	10.50	136
	BSLB2X10	10	T•0.75	10.50	175
	BSLB2X12	12		11.50	239
	BSLB4X3	3		9.50	52
	BSLB4X4	4	A•0.88	10.50	75
2	BSLB4X6	6	B•3.00	10.50	139
Z	BSLB4X8	8	C•5.00	11.50	169
	BSLB4X10	10	T•0.75	12.50	246
	BSLB4X12	12		13.50	326
	BSLB10X3	3		13.50	104
	BSLB10X4	4	A•2.00	14.50	135
5	BSLB10X6	6	B•4.00	15.50	211
5	BSLB10X8	8	C•7.00	16.50	310
	BSLB10X10	10	T • 1.25	17.50	423
	BSLB10X12	12		19.50	618



nformation Slings

General

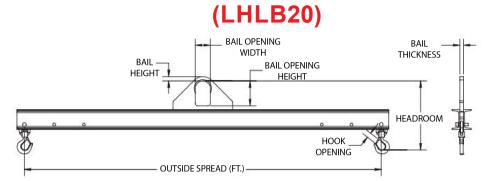
Web

Plate Clamps

Lifting Devices



LOW HEADROOM MULTIPLE SPREAD LIFTING BEAM



Features

- Great for low headroom applications.
- Beams 6' and longer have three spreads.
- Swivel hooks with latches are standard.
- Inner spread lengths are shorter than outer spreads by 1' increments.
- 3' & 4' beams have two spreads.
- Additional or custom hole configuration available.

Adon	Rated	Part	Spread		Bail Dim	ensions (ir	า.)	Hook	Headroom	Weight
source	Capacity (tons)	Number	(ft.)	Bail Height	Opening Width	Opening Height	Thickness	Opening	(in.)	(lbs.)
ס		LHLB1X3	3					0.91	13	40
1)		LHLB1X4	4					0.91	13	50
naruware		LHLB1X6	6					0.91	13	65
5		LHLB1X8	8					0.91	13	80
3		LHLB1X10	10					0.91	14	125
•	1/2	LHLB1X12	12	0.88	3	5	0.75	0.91	14	145
0	1/2	LHLB1X14	14	0.00	5	5	0.75	0.91	15	210
2		LHLB1X16	16					0.91	16	360
chillo		LHLB1X18	18					0.91	18	465
		LHLB1X20	20					0.91	20	490
2		LHLB1X24	24					0.91	24	765
מ		LHLB1X30	30					0.91	30	1280
unggers		LHLB2X3	3					0.91	13	40
5		LHLB2X4	4					0.91	13	50
2		LHLB2X6	6					0.91	14	80
3		LHLB2X8	8					0.91	14	105
Frouncis		LHLB2X10	10					0.91	15	150
	1	LHLB2X12	12	0.88	3	5	0.75	0.91	16	275
		LHLB2X14	14					0.91	17	365
SIC		LHLB2X16	16					0.91	18	390
SIGIULI		LHLB2X18	18					0.91	19	505
		LHLB2X20	20					0.91	20	640
		LHLB2X24	24					0.91	22	1025
KIIIds		LHLB4X3	3					0.91	13	40
		LHLB4X4	4					0.91	14	60
-		LHLB4X6	6					0.91	15	95
		LHLB4X8	8					0.91	16	150
sd		LHLB4X10	10					0.91	17	265
ulaimps	2	LHLB4X12	12	0.88	3	5	0.75	0.91	18	295
5		LHLB4X14	14					0.91	19	400
		LHLB4X16	16					1.00	22	690
es		LHLB4X18	18					1.00	22	775
Devices		LHLB4X20	20					1.00	22	860
e		LHLB4X24	24					1.00	22	1665

Round Slings

Protection Sling

Wire

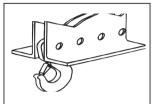
Hoist

Plate



LOW HEADROOM MULTIPLE SPREAD LIFTING BEAM

Options:



Extra Holes Allows for extra hook positions in addition to the standard holes.

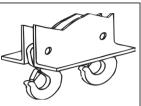
Specify number and spread.





FasPins Allows for easy repositioning of hooks.

Recommended for frequent hook position changes.



Extra Hooks Allows for multiple pick points.

Saves time from having to move hooks.

Rated	Part	Spread		Bail Dime	ensions (in	Hook	Headroom	Weight	
Capacity (tons)	Number	(ft.)	Height	Opening Width	Opening Height	Thickness	Opening	(in.)	(lbs.)
	LHLB6X3	3					1	14	55
	LHLB6X4	4							80
	LHLB6X6	6						-	155
	LHLB6X8	8					hicknessOpening(in.)(i111411115111161111711120111221112211122111221112211.3626111.362611.362011.362211.362411.362411.251.613011.613011.613011.251.61273030303030301.502.0830303030	225	
	LHLB6X10	10		-	_				260
3	LHLB6X12	12	1.25	3	5	1			400
	LHLB6X14	14							620
	LHLB6X16	16							705
	LHLB6X18	18							1280
	LHLB6X20	20							1420
	LHLB6X24	24							1690
	LHLB10X3	3							100
	LHLB10X4	4							145
	LHLB10X6	6	2						210
	LHLB10X8	8							280
5	LHLB10X10	10			-	4.05			380
	LHLB10X12	12		4	7	1.25			570
	LHLB10X14	14					-		1045
	LHLB10X16	16							1185
	LHLB10X18	18 20							1325
	LHLB10X20 LHLB10X24	20							1470 2320
							1.01		
	LHLB15X3	3							130
	LHLB15X4	4							170
	LHLB15X6	6							235
7-1/2	LHLB15X8	8	2	4	7	4.05	1.01		320
/-I/Z	LHLB15X10 LHLB15X12	10 12	2	4	7	1.25	1.01		495
	LHLB15X12	14							900 1050
	LHLB15X14	14							1190
	LHLB15X18	18							1640
	LHLB20X3	3							145
	LHLB20X4	4							145
	LHLB20X4	6							260
	LHLB20X8	8							410
10	LHLB20X10	10	2.5	5	9	1.50	2.08		770
	LHLB20X12	12	2.0	J J	Ŭ I		2.00		910
	LHLB20X14	14							1055
	LHLB20X16	16						33	1475
	LHLB20X18	18						33	1985

nformation Slings

Slings Round

Protection

Rope Wire

Sling

General

Web

Rigging Hardware

Mesh Slings

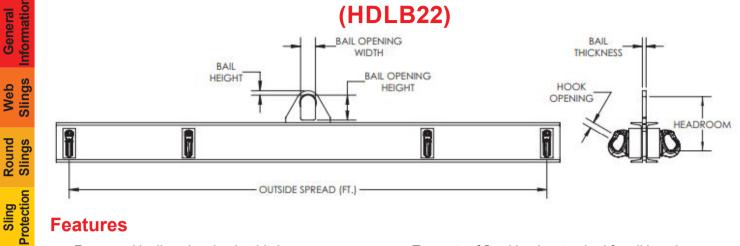
Huggers Products Load

Hoists Lift-All

Rings Hoist



HEAVY DUTY TWIN BASKET SLING LIFTING BEAM



Features

General

Web

Wire Rope

Chain Slings

Rigging Hardware

Slings Mesh

Load

To∢

Hoist

Hoists Lift-All

Clamos Plate

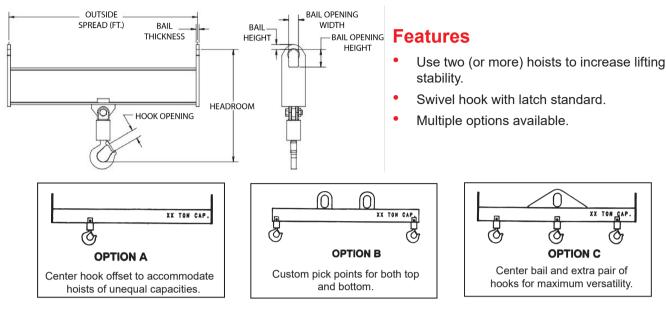
Lifting Devices

- For use with slings in a basket hitch.
- Latch hooks designed to minimize sling eye • damage.
- One set of fixed hooks standard for 3' and 4' lengths • (total of 4-hooks).
- Two sets of fixed hooks standard for all lengths over 4' (total of 8-hooks).
- Inner spread is one-half of outer spread.
 - Extra spreads available upon request.

Rated	Part	Spread		Bail Dim	ensions (in	.)	Hook	Headroom	Weight
Capacity (tons)	Number	(ft.)	Height	Opening Width	Opening Height	Thickness	Opening	(in.)	(lbs.)
	HDLB1X3	3						9	53
	HDLB1X4	4						9	68
1/2	HDLB1X6	6	0.88	3	5	0.75	1.06		116
1/2	HDLB1X8	8	0.00	5	5	0.75	1.00		158
	HDLB1X10	10							210
	HDLB1X12	12						10	231
	HDLB2X3	3						9	53
	HDLB2X4	4			5	0.75	1.13		68
1	HDLB2X6	6	0.88	3					152
'	HDLB2X8	8							221
	HDLB2X10	10						9 9 9 9 10 10	242
	HDLB2X12	12						12	305
	HDLB4X3	3							74
	HDLB4X4	4							95
2	HDLB4X6	6	0.88	3	5	0.75	1.13		168
2	HDLB4X8	8	0.00	5	5	0.75	1.15		236
	HDLB4X10	10							315
	HDLB4X12	12						14	394
	HDLB10X3	3							95
	HDLB10X4	4							168
5	HDLB10X6	6	2	4	7	1	1.13		289
Ŭ	HDLB10X8	8	-			·	1.10		368
	HDLB10X10	10							473
	HDLB10X12	12							525
	HDLB15X3	3							158
	HDLB15X4	4							189
7-1/2	HDLB15X6	6	2	4	7	1.25	1.75		336
1-1/2	HDLB15X8	8	~		· ·	1.20	1.75		431
	HDLB15X10	10							525
	HDLB15X12	12						20	735
	HDLB20X3	3							163
	HDLB20X4	4							210
10	HDLB20X6	6	2	4	7	1.25	1.75		347
10	HDLB20X8	8	2	4	1	1.23	1.75		525
	HDLB20X10	10							893
	HDLB20X12	12						23	1050



TWIN HOIST LIFTING BEAM (THLB25)



Rated	Part	Spread		Bail Dim	ensions (ir	ı.)	Hook	Headroom	Weight
Capacity (tons)	Number	(ft.)	Height	Opening Width	Opening Height	Thickness	Opening	(in.)	(lbs.)
	THLB4X6	6						17	125
	THLB4X8	8						17	160
2	THLB4X10	10	1.5	3	5	0.63	1.09	18	240
2	THLB4X12	12	1.5	5		0.00	1.05	18	280
	THLB4X14	14						19	360
	THLB4X16	16						19	400
	THLB8X6	6						20	160
	THLB8X8	8						21	240
4	THLB8X10	10	1.5	3	5	0.63	1.61	22	310
4	THLB8X12	12	1.5					23	410
	THLB8X14	14						23	500
	THLB8X16	16						25	725
	THLB12X6	6						28	220
	THLB12X8	8						29	300
6	THLB12X10	10	1.5	3	5	0.75	2.08	29	380
	THLB12X12	12		5	5	0.75	2.00	31	550
	THLB12X14	14						31	640
	THLB12X16	16						31	780
	THLB20X6	6						29	340
	THLB20X8	8						29	420
10	THLB20X10	10	2	4	7	1	2.27	32	800
10	THLB20X12	12	2	4	/	I	2.21	32	920
	THLB20X14	14						32	1100
	THLB20X16	16						32	1220
	THLB30X8	8						38	814
	THLB30X10	10						38	952
15	THLB30X12	12	2	4	7	1.25	3.02	38	1155
	THLB30X14	14						41	2123
	THLB30X16	16						41	2374
	THLB40X8	8						36	913
	THLB40X10	10						39	1243
20	THLB40X12	12	2	4	7	1.25	3.02	39	1393
	THLB40X14	14						39	2119
	THLB40X16	16						39	2416

General

Web Slings

Round Slings

Protection

Sling

Lift-All Hoists

Hoist Plate Rings Clamps

Lifting Devices



Spreader Beams

FIXED SPREADER BEAM (FSB30)

Features

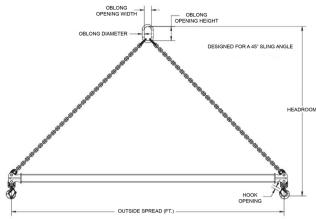
Information General

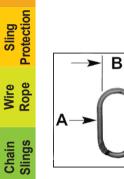
Slings

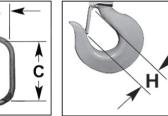
Round Slings

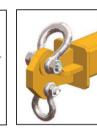
Web

- Ideal where headroom is not limited.
- Adds stability to lift.
- Chain rigging standard.
- Wire rope rigging is available.
- Adjust-A-Link rigging available for additional flexibility.









Upper and Lower Shackle Option Utilizes dual upper and lower shackles for connecting the rigging.

ing /are				Bail D	Dimensions	s (in.)			Weigh	t (lbs.)
Mesh Rigging Slings Hardware	Rated Capacity (tons)	Part Number*	Spread (ft.)	Oblong Diameter (A)	Oblong Opening Width (B)	Oblong Opening Height (C)	Hook Opening (H)	Headroom @45° (in.)	Beam & Hook	Chain Top Rigging
SII		FSB4X4	4					36	45	12
(0		FSB4X6	6					48	60	15
)ers		FSB4X8	8					61	82	20
Load Huggers	2	FSB4X10	10	0.63	3	6	0.91	74	95	25
エ	2	FSB4X12	12	0.00	Ŭ	Ũ	0.01	86	115	30
ts		FSB4X16	16					111	225	40
Tow oduc		FSB4X20	20					139	408	50
Tow Products		FSB4X24	24					164	445	60
d		FSB10X4	4					39	62	25
All ts		FSB10X6	6					51	78	32
Lift-All Hoists		FSB10X8	8					64	100	39
ΗĽ	5	FSB10X10	10	1	3.5	7	1.36	77	117	46
		FSB10X12	12		0.0	'	1.00	87	168	53
Hoist Rings		FSB10X16	16					116	305	67
Rin		FSB10X20	20					141	435	81
		FSB10X24	24					166	661	95
S		FSB20X4	4					43	100	40
Plate Clamps		FSB20X6	6					56	122	52
PI		FSB20X8	8					67	156	64
	10	FSB20X10	10	1.25	4.38	8.75	1.60	81	180	76
Lifting Devices	10	FSB20X12	12	1.25	4.50	0.15	1.00	90	240	88
Lifting Devices		FSB20X16	16					119	380	112
ے ج		FSB20X20	20					145	532	136
	•	FSB20X24	24					171	915	160

* Add W to the part number for wire rope rigging; add A to the part number for Adjust-A-Link rigging.

Spreader Beams



nformation General

Slings Web

Slings Round

Protection

Rope Wire

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Hoist

Huggers Products

Hoists Lift-All

Clamps Plate

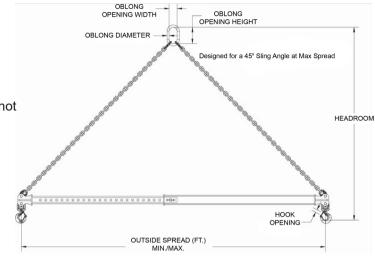
Lifting

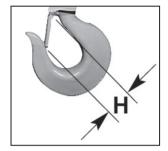
Sling

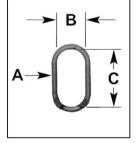
ADJUSTABLE SPREADER BEAM (ASB32)

Features

- Great versatility and stability where headroom is not limited.
- Chain rigging standard.
- Wire rope rigging available.
- Telescoping spread adjusts in 1-inch increments.









Upper and Lower Shackle Option Utilizes dual upper and lower shackles for connecting the rigging.

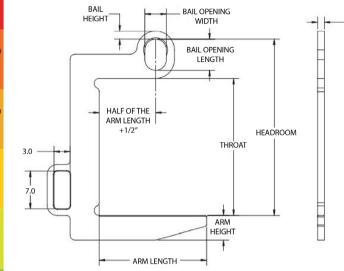
			Bail I	Dimensions	(in.)			Weig	ht (Ibs.)
Rated Capacity (tons)	Part Number*	Spread (ft.)	Oblong Diameter (A)	Oblong Opening Width (B)	Oblong Opening Height (C)	Hook Opening (H)	Headroom Min. / Max. (in.)	Beam & Hook	Chain Top Rigging
2	ASB4X4-6 ASB4X6-10 ASB4X8-14 ASB4X12-20	4 to 6 6 to 10 8 to 14 12 to 20	0.63	3	6	0.91	50 / 60 76 / 92 101 / 119 139 / 174	70 85 175 245	15 25 35 50
5	ASB10X4-6 ASB10X6-10 ASB10X8-14 ASB10X12-20	4 to 6 6 to 10 8 to 14 12 to 20	1	3.5	7	1.36	58 / 67 83 / 100 107 / 132 145 / 181	105 160 205 670	32 46 60 81
10	ASB20X4-6 ASB20X6-10 ASB20X8-14 ASB20X12-20	4 to 6 6 to 10 8 to 14 12 to 20	1.25	4.38	8.75	1.61	63 / 72 78 / 117 113 / 139 151 / 171	95 175 460 680	52 76 100 136
15	ASB30X4-6 ASB30X6-10 ASB30X8-14 ASB30X12-20	4 to 6 6 to 10 8 to 14 12 to 20	1.50	5.25	10.50	2.08	67 / 76 91 / 109 117 / 142 154 / 189	165 365 478 700	75 109 143 194



Coil Lifters

DIXON COIL HOOK WITH PIVOTING WEDGE (DCH80)

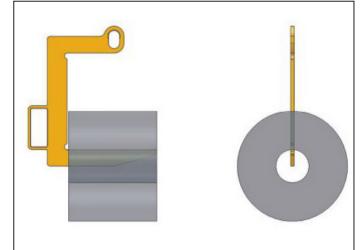
BAIL THICKNESS



Features

- For easy upending of coils from horizontal to vertical.
- Pivoting wedge great for lifting stacked coils.
- Wedge also acts as a coil retainer.
- Great for use with small, lightweight coils.
- Good for limited overhead clearance.
- Standard handle for easier coil positioning.

	Rated	Part	Max. Coil	Lift Arm	Lift Arm	Throat Opening			mensions (in.)		Headroom	Weight
	Capacity (tons)	Number	Width (in.)	Length (in.)	Height (in.)	Height (in.)	Height	Opening Width	Opening Height	Thickness	neauroom	(lbs.)
c.	1/2	DCH1X6	8	8	2.25	145	0.75	2	3.25	0.5	18.6	13
2 Chillion	1/2	DCH1X12	12	12	2.25	14.5	0.75	2	3.25	0.5	18.6	14
	1	DCH2X8	8	8	2.25	17.5	0.81	2	3.25	0.5	21.6	15
2	2	DCH4X10	16	16	3.25	19.5	1	2.63	4	0.75	24.5	41
uggei	3-1/2	DCH7X12	12	12	3.25	21.5	1.19	3.63	5.5	1	28.2	57





Web General Slings Information

Sling Protection

Wire Rope

Chain Slings

Mesh Rigging Slings Hardware

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Lifting Devices

Coil Lifters



General

Slings

Web

Round Slings

Sling Protection

Wire

Chain

Rigging

Mesh

Load

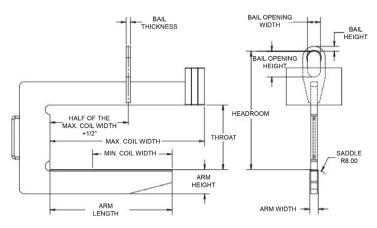
Tow

Lift-All Hoists

Hoist Rings

Plate Clamps

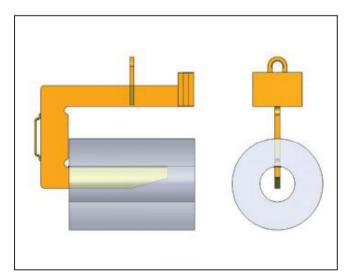
HEAVY DUTY COIL HOOK (HDCH82)



Features

- Designed for heavy duty applications.
- High tensile alloy steel plate reduces physical size and weight.
- Counter balanced to hang level when empty.
- Inside radius on hooks to avoid coil edge contact.
- Guide handles for ease of hook positioning.
- Handles a wide range of coil widths.
- Available with optional padding for additional coil protection.

							,						자
Rated	Part	Coil Width	Lift Arm	Dimensio	ons (in.)	Throat Opening		Bail Dim	ensions (in.)	Headroom	Weight	Rope
Capacity (tons)	Number	Min. / Max. (in.)	Length	Width	Height	Height (in.)	Height	Opening Width	Opening Height	Thickness	(in.)	(lbs.)	(0)
	HDCH10X36	24 / 36	30	4	6.25	24	1.50	4	7	1.25	38.00	500	Slings
5	HDCH10X48	30 / 48	39	4	6.25	24	1.50	4	7	1.25	38.00	730	sĉ
	HDCH10X60	36 / 60	48	4	7.00	24	1.50	4	7	1.25	38.80	885	На
	HDCH15X36	24 / 36	30	4	6.50	24	1.50	4	7	1.50	38.30	725	Hardware
7-1/2	HDCH15X48	30 / 48	39	4	7.25	24	1.50	4	7	1.50	39.00	875	are
	HDCH15X60	36 / 60	48	4	8.00	24	1.50	4	7	1.50	42.50	1060	S
	HDCH20X48	30 / 48	39	4	8.25	24	2.00	5	9	1.75	42.50	1060	Slings
10	HDCH20X60	36 / 60	48	4	8.25	24	2.00	5	9	1.75	43.30	1425	S
	HDCH20X72	42 / 72	57	4	9.00	24	2.00	5	9	1.75	49.30	1670	Hu
	HDCH30X48	30 / 48	39	4	9.00	30	2.00	5	9	1.75	47.88	1615	Huggers
15	HDCH30X60	36 / 60	48	4	10.00	30	2.00	5	9	1.75	50.30	1925	ร
	HDCH30X72	42 / 72	57	4	10.75	30	2.00	5	9	1.75	51.00	2220	Pro
20	HDCH40X60	36 / 60	48	4	10.50	30	2.25	6	12	2.0	54.00	2520	Products
20	HDCH40X72	42 / 72	57	4	11.50	30	2.25	6	12	2.0	55.00	2950	t





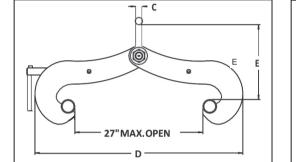
Construction Tools

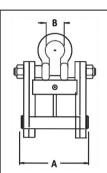
GIRDER CLAMPS

(Use for Vertical Lifting Only)

Features

- Efficiently handles wide flange beam sections and plate girders.
- Design ensures positive grip and minimum maintenance.
- Thread screw spindles allow for quick clamping and unclamping.







	Rated					Dimens	ions (in.)				
Part Number	Capacity	Flang	e Width	Max. Flange		Б		D	Е	Weight	
Number	(tons)		Max.	Thickness	A	В	С	Min Max.	Min Max.	(lbs.)	
GC15	15	6	24	3	14.81	3.90	1.60	23 - 44	15.7 - 23.4	234	
GC20	20	6	24	3	14.81	5.00	2.10	23 - 44	18.3 - 25.9	291	
GC25	25	6	24	3	14.81	5.00	2.10	23 - 44	18.3 - 25.9	342	

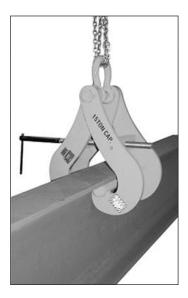




Use for vertical lifting only

For lifting and positioning structural beams.

Can be used in pairs in conjunction with a spreader beam for additional stability.



Lifting Devices

Hoist Rings

Plate Clamps

Devices

Lifting

Construction Tools

BEAM GRAB (F)

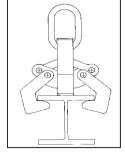
For Vertical Lifting Only (Not Suspension)

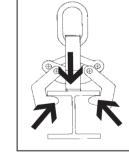
Features

- Heavy-duty design for lifting wide flange beams and plate girders.
- Recessed base accepts studs in beam surface.
- Eliminates need for slings, chokers and spreader bars.

Rated Capacity	Part Number	Unit Height H	Flange V (in	-		Thickness T n.)	Weight (Ibs.)
(tons)		(in.)	Min.	Max.	Min.	Max.	
			4	4	0.25	0.25	
5	F5	22.7	5	5	0.25	0.38	68
			6	10	0.25	1.00	
			7	7	0.50	0.75	
15	F15	30.1	8	8	0.50	1.00	182
15	F 15	30.1	9	10	0.50	1.25	102
			11	17	0.25	2.00	
25	F25	44.8	16	17	1.25	3.00	541
20	F23	44.0	18	24	1.00	3.00	541
			16	18	2.25	4.00	
35	F35	52.9	20	22	2.00	4.00	841
	F35	52.9	24	26	1.75	4.00	
			28	36	1.00	4.00	







Operation:

- 1. Lower grab onto beam.
- 2. Lift arms, if necessary, to slide under beam flange.
- 3. As beam is lifted, pressure forces arms together to secure beam.
- 4. The heavier the beam, the greater the clamping force.



General

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Tow Products

Lift-All Hoists

Plate Clamps

SIO



Construction Tools

PIPE GRAB (C OR S)

(For Cast Iron or Steel Pipe only)

Features

General

Web Slings

Round Slings

Protection

Sling

Wire Rope

Chain Slings

Rigging Hardware

Mesh

Load

Tow

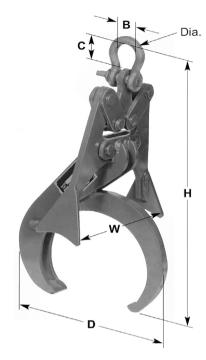
Hoist

Plate Clamps

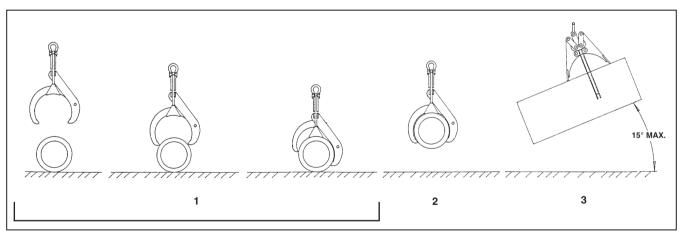
> Lifting Devices

Lift-All Hoists

- Automatically clamps to pipe when lowered onto it.
- Movable outriggers stabilize the pipe during lift.
- No blocking required.
- Quick and efficient handling of properly balanced pipe.



Rated	Cast	Iron	St	eel	Height	Width	Depth	Shackle Dimensions	Weight
Capacity (Ibs.)	Part Number	Pipe OD (in.)	Part Number	Pipe OD (in.)	H (in.)	W (in.)	D (in.)	(in.) Dia. ∙ B • C	(lbs.)
450	C3	4.00	S3	3.50	10	5	6	0.38 • 1.03 • 1.44	7
600	C4	4.80	S4	4.50	14	8	7	0.44 • 1.16 • 1.69	9
1000	C6	6.90	S6	6.63	17	11	11	0.50 • 1.31 • 1.88	15
1400	C8	9.05	S8	8.63	22	13	14	0.50 • 1.31 • 1.88	25



Operation:

- 1. Lower grab onto approximate center of pipe. Grab will open and seat on pipe.
- 2. Lift slowly to check for pipe balance. Never exceed a 15° angle.
- 3. If angle exceeds 15°, lower pipe and reposition grab.

Construction Tools



PIPE TONGS (PTL)

For Vertical Lifting Only (not Suspension)

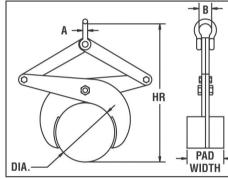




Features

- Pipe Tongs are made to handle pipes, round bars, castings, etc.
- Tongs are provided with bare steel curved gripping arms.
- Optional replaceable urethane pads available to . protect smooth or polished surfaces.
- May be used in pairs with a lifting beam for added stability.
- Adjustable Pipe Tongs are proof-tested to 125% capacity with certificates supplied at no additional charge.

		FI	XED DIAM	ETER		
Rated Capacity (Ibs.)	Part Number	Part NumberDia. (in.)Headro Minimu (in.)PTLF5515.5	Headroom Minimum (in.)	A (in.)	B (in.)	Weight (Ibs.)
1000	PTLF5	5	15.50	0.50	1.31	17
2000	PTLF8	8	23.50	0.50	1.31	25



	ADJUSTABLE DIAMETER													
Rated Capacity (Ibs.)	Part Number	Bare Steel Range Min. / Max. (in.)	Urethane Pad Range Min. / Max. (in.) (in.)		Range Pad n. / Max. (in)		Bail Opening Width (in.)	Bail Opening Height (in.)	Weight (Ibs.)					
1000	PTLA4	2.50 / 4.00	1.75 - 3.25	13 - 15	2.25	0.63	1.69	1.69	10					
2000	PTLA8	4.00 / 7.00	3.25 - 6.25	21 - 24	5.00	0.63	1.69	1.69	25					
2000	PTLA12	7.00 / 12.00	6.25 - 11.25	34 - 38	6.00	0.75	2	2	55					
2000	PTLA15	10.00 / 15.00	9.25 - 14.25	25 - 35	6.00	0.75	2.25	3.25	120					







Decreasing the load by bumping or substantial imbalance can, under certain circumstances, loosen the grip. Do not use in diameters other than those specified on nameplate.

nformation General

Slings Web

Slings

Round

Sling Protection

Tow

Devices Lifting

Features

•

•

Construction Tools

CONCRETE MANHOLE HOUSING LIFTER (MHL)

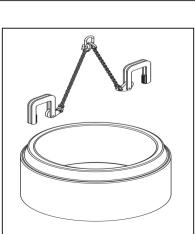


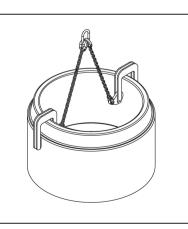


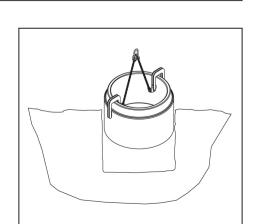


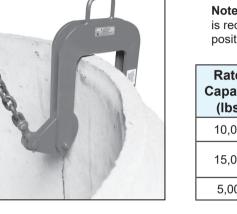












2.75

4.0 - 6.0 GRIP

 5.50^{-1}

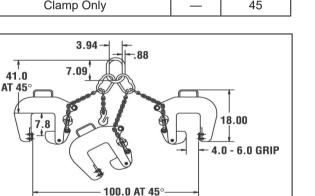
7

Note: Constant tension is required to maintain positive load contact.

35.0

1

Rated Capacity (Ibs.)	Part Number	Description	Max. Dia.	Weight (lbs.)
10,000	MHL5	2-Leg Model (42" each leg)	92.5	131
15,000	MHL7-1/2	3-Leg Model (2 legs @ 42", 1 leg @72" with chain shortener)	101	181
5,000	MHLC	Clamp Only	—	45



3-Leg Model

-.75

90°

2-Leg Model

Designed for 4"- 6" concrete wall thickness.

Legs can be quickly positioned to balance load.

Will not damage concrete seat.

2-leg and 3-leg models available.

Conforms to ASME B30.9 & B30.20.

Construction Tools



General

Slings Web

Round Slings

Sling Protection

Rope Wire

Chain Slings

Hardware

Rigging

Mesh Slings

Huggers

Hoists Lift-All

Load

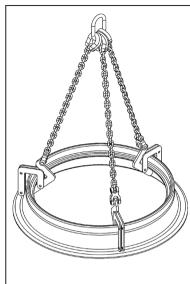
Tow

MANHOLE SLEEVE LIFTER (MCL)



Features

- Easy to attach and release from sleeve.
- The quick and easy way to place cast manhole sleeves.
- 2-leg or 3-leg models available.



2-Leg Lifter

Rated

Capacity

(lbs.)

Part

Number

MCL1/2

Note: Flange diameter range is 12"- 30"

Description

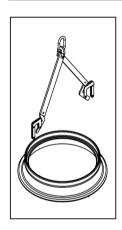
3-Leg Lifter

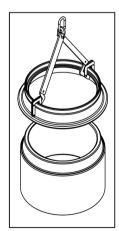
Weight

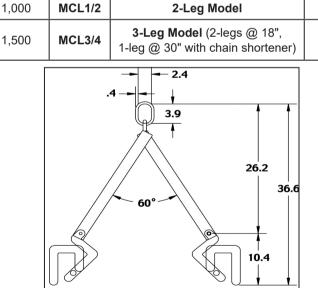
(lbs.)

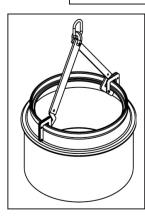
24

26















Clamps Plate Devices Lifting



Informatior General

Slings Web

Slings Round

Protection

Rope Wire

Chain Slings

Rigging Hardware

Mesh Slings

Load

Sling

Construction Tools

BARRIER LIFTING GRAB (BRG74)



Rated Capacity (Ibs.)	Part Number	Weight (Ibs.)
With	Polyurethane Lifting P	ads
8,500	BRG74-4.25	602
14,500	BRG74-7.25	652
With \$	Steel Dog Point Lifting	Pads
8,500	BRG74-4.25DP	602
14,500	BRG74-7.25DP	652
39.1 LATCH 25.0 LIFTING 6' 36.8 LIFTING 12 6.8 LIFTING 12 16.0 LOCKED OPEN	BARRIER	5.5 6.6 18.0 23.5

Features

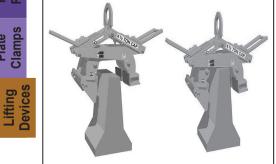
- Compact and rugged design.
- Grabs concrete barriers from 6"-12" nominal width at the top of barrier.
- Stainless steel auto-latch designed to ensure proper alignment.
- Locating assembly orients tong on barrier without operator intervention and will pivot when grab is set on the ground.
- Gripping pads pivot to conform with the load.
- Replaceable polyurethane pads protect barrier.
- Alloy steel dog point pads bite into painted barrier surfaces (typical in coastal areas).
- Centering guide cut out on grab shoe helps to properly center tong over barrier for a level lift.
- Extended handles on each side keep operator away from load and can be adjusted as needed.
- Lifting eye allows for easy hook attachment, self-centers rigging, and will accommodate a fork.

Hoist

Plate

Products Tow

> Place tong on barrier, lower crane completely to disengage the auto-latch.



OPERATION

Lift and position barrier in desired location.



Lower crane (line must go slack to engage auto-latch), lift tong off barrier and repeat!

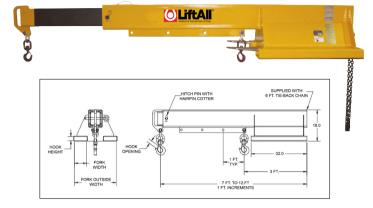


Forklift Accessories

TELESCOPING FORKLIFT BOOMS (TFLB)

Features

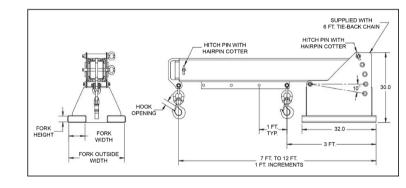
- Telescoping boom for versatility.
- T-Pin locks boom into position.
- Handle on end for easy extension of boom.
- Swivel hooks with latch standard.
- Restraining chain with grab hook standard.
- 12-ft. maximum horizontal reach.



		Di	mensions	(in.)		Max	ximum	Capacit	y at Ho	ok Pos	ition (It	s.)	
1 1	Fork Opening Height	Fork Opening Width	Fork Outside Width	Headroom	Hook Opening	3' - 6'	7'	8'	9'	10'	11'	12'	Weight (Ibs.)
TFLB30	2.5	7	22	18	1	3,000	3,000	2,600	2,200	1,900	1,600	1,500	490
TFLB40	2.5	7	22	18	1.09	4,000	3,200	2,600	2,200	1,900	1,600	1,500	490
TFLB60	2.5	7	22	18	1.36	6,000	5,000	4,200	3,500	3,000	2,700	2,500	565
TFLB80	2.5	7	22	18	1.61	8,000	7,000	5,700	4,800	4,100	3,600	3,100	750

PIVOTING FORKLIFT BOOMS (PFLB)





Features

- Vertical adjustability in five increments up to a maximum of 40°.
- Telescoping boom for versatility.
- T-Pin locks boom into position.

- Handle on end for easy extension of boom.
- Swivel hooks with latch are standard.
- Restraining chain with grab hook standard reach.
- Vertical pivoting boom to 6' 4" height.

		Di	mensions	(in.)		Мах	(imum (Capacit	y at Ho	ok Pos	ition (I	bs.)		
Part Number	Fork Opening Height	Fork Opening Width	Fork Outside Width	Headroom	Hook Opening	3'- 6'	7'	8'	9'	10'	11'	12'	Weight (Ibs.)	
PFLB30	2.5	7	22.5	30	1	3,000	3,000	2,600	2,200	1,900	1,600	1,500	565	
PFLB40	2.5	7	22.5	30	1.09	4,000	3,200	2,600	2,200	1,900	1,600	1,500	565	
PFLB60	2.5	7	22.5	30	1.36	6,000	5,000	4,200	3,500	3,000	2,700	2,500	680	
PFLB80	2.5	7	22.5	30	1.61	8,000	7,000	5,700	4,800	4,100	3,600	3,100	870	

Plate Clamps

Lifting



General Web nformation Slings

Round Slings

Protection

Wire Rope

Chain Slings

Rigging Hardware

Slings

Huggers

Products

Mesh

Load

Tow

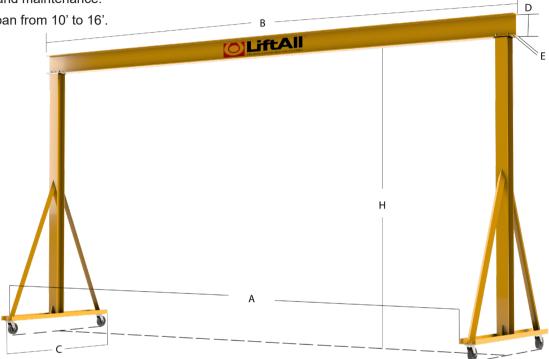
Sling



FIXED HEIGHT STEEL (H90)

Features

- Balanced design allows for easy rolling, even under load.
- Simple bolt together construction.
- Includes four steel swivel casters.
- Easy set-up and maintenance.
- Adjustable span from 10' to 16'.



Rated Capacity	Height Under Beam H	Nominal Span (ft.)	Inside Span A	Overall Length B	Support Width C	Beam Height D (in.)	Flange Width E (in.)	Caster Diameter (in.)	Weight (Ibs.)	Part Number
		10	10'-4"	11'-6"	5'-6"	8	5.25	6	825	511-2000-10-10
	10'	12	12'-4"	13'-6"	5'-6"	8	5.25	6	930	511-2000-12-10
		14	14'-4"	15'-6"	5'-6"	8	5.25	6	967	511-2000-14-10
		16	16'-4"	17'-6"	5'-6"	8	5.25	6	1136	511-2000-16-10
		10	10'-4"	11'-6"	6'-6"	8	5.25	6	913	511-2000-10-12
	12	12	12'-4"	13'-6"	6'-6"	8	5.25	6	1018	511-2000-12-12
	12	14	14'-4"	15'-6"	6'-6"	8	5.25	6	1055	511-2000-14-12
1-Ton		16	16'-4"	17'-6"	6'-6"	8	5.25	6	1224	511-2000-16-12
1-100		10	10'-4"	11'-6"	7'-6"	8	5.25	6	977	511-2000-10-14
	14'	12	12'-4"	13'-6"	7'-6"	8	5.25	6	1082	511-2000-12-14
	14	14	14'-4"	15'-6"	7'-6"	8	5.25	6	1119	511-2000-14-14
		16	16'-4"	17'-6"	7'-6"	8	5.25	6	1288	511-2000-16-14
		10	10'-4"	11'-6"	7'-6"	8	5.25	6	1081	511-2000-10-16
	16'	12	12'-4"	13'-6"	7'-6"	8	5.25	6	1186	511-2000-12-16
	10	14	14'-4"	15'-6"	7'-6"	8	5.25	6	1223	511-2000-14-16
		16	16'-4"	17'-6"	7'-6"	8	5.25	6	1392	511-2000-16-16

Huggers Load

Products To⊻

Lift-All Hoists

Hoist

Plate Clamps

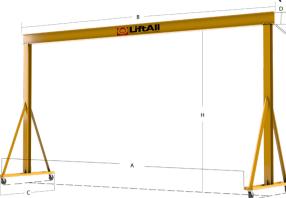
Lifting Devices



General Web nformation Slings

Round Slings

FIXED HEIGHT STEEL (H90) (continued)



Q	A										s Prot
Rated Capacity	Height Under Beam H	Nominal Span (ft.)	Inside Span A	Overall Length B	Support Width C	Beam Height D (in.)	Flange Width E (in.)	Caster Diameter (in.)	Weight (Ibs.)	Part Number	Sling V Protection F
		10	10'-4"	11'-6"	5'-6"	8	5.25	8	949	511-4000-10-10	Wire Rope
	10	12	12'-4"	13'-6"	5'-6"	8	5.25	8	986	511-4000-12-10	e u
	10'	14	14'-4"	15'-6"	5'-6"	10	5.75	8	1131	511-4000-14-10	(0.0
		16	16'-4"	17'-6"	5'-6"	10	5.75	8	1182	511-4000-16-10	Chain Slings
		10	10'-4"	11'-6"	6'-6"	8	5.25	8	1041	511-4000-10-12	gs
	40	12	12'-4"	13'-6"	6'-6"	8	5.25	8	1078	511-4000-12-12	I
	12'	14	14'-4"	15'-6"	6'-6"	10	5.75	8	1223	511-4000-14-12	ard
0 T		16	16'-4"	17'-6"	6'-6"	10	5.75	8	1274	511-4000-16-12	Rigging Hardware
2-Ton		10	10'-4"	11'-6"	7'-6"	8	5.25	8	1101	511-4000-10-14	re
		12	12'-4"	13'-6"	7'-6"	8	5.25	8	1138	511-4000-12-14	<u>s</u> s
14'	14′	14	14'-4"	15'-6"	7'-6"	10	5.75	8	1283	511-4000-14-14	Mesh Slings
		16	16'-4"	17'-6"	7'-6"	10	5.75	8	1334	511-4000-16-14	د s
		10	10'-4"	11'-6"	7'-6"	8	5.25	8	1205	511-4000-10-16	Ŧ
		12	12'-4"	13'-6"	7'-6"	8	5.25	8	1242	511-4000-12-16	Load
	16'	14	14'-4"	15'-6"	7'-6"	10	5.75	8	1387	511-4000-14-16	Load Huggers
		16	16'-4"	17'-6"	7'-6"	10	5.75	8	1438	511-4000-16-16	
		10	9'-3"	11'-6"	5'-6"	10	6.50	8	1107	511-6000-10-10	roduc
		12	11'-3"	13'-6"	5'-6"	10	6.50	8	1157	511-6000-12-10	Tow Products
	10'	14	13'-3"	15'-6"	5'-6"	10	6.50	8	1208	511-6000-14-10	S
		16	15'-3"	17'-6"	5'-6"	12	6.50	8	1427	511-6000-16-10	Ho
		10	9'-3"	11'-6"	6'-6"	10	6.50	8	1229	511-6000-10-12	Hoists
		12	11'-3"	13'-6"	6'-6"	10	6.50	8	1279	511-6000-12-12	
	12'	14	13'-3"	15'-6"	6'-6"	10	6.50	8	1330	511-6000-14-12	고ェ
		16	15'-3"	17'-6"	6'-6"	12	6.50	8	1529	511-6000-16-12	Hoist Rings
3-Ton		10	9'-3"	11'-6"	7'-6"	10	6.50	8	1350	511-6000-10-14	s ÷
		12	11'-3"	13'-6"	7'-6"	10	6.50	8	1400	511-6000-12-14	റ _
	14'	14	13'-3"	15'-6"	7'-6"	10	6.50	8	1451	511-6000-14-14	Plate Clamps
		16	15'-3"	17'-6"	7'-6"	12	6.50	8	1670	511-6000-16-14	.e
		10	9'-3"	11'-6"	7'-6"	10	6.50	8	1473	511-6000-10-16	
		12	11'-3"	13'-6"	7'-6"	10	6.50	8	1523	511-6000-12-16	Lift
	16'	14	13'-3"	15'-6"	7'-6"	10	6.50	8	1574	511-6000-14-16	Lifting
		16	15'-3"	17'-6"	7'-6"	12	6.50	8	1793	511-6000-16-16	"



Slings Information

General

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

L*ift-All* Hoists

Hoist Rings

Plate Clamps

Lifting

Gantry Cranes



Rated Capacity	Height Under Beam H	Nominal Span (ft.)	Inside Span A	Overall Length B	Support Width C	Beam Height D (in.)	Flange Width E (in.)	Caster Diameter (in.)	Weight (Ibs.)	Part Number
		10	9'-3"	11'-6"	5'-6"	16	7.00	8	1217	511-8000-10-1
	10'	12	11'-3"	13'-6"	5'-6"	16	7.00	8	1877	511-8000-12-1
	10	14	13'-3"	15'-6"	5'-6"	18	7.50	8	1357	511-8000-14-1
		16	15'-3"	17'-6"	5'-6"	18	7.50	8	1812	511-8000-16-1
		10	9'-3"	11'-6"	6'-6"	16	7.00	8	1339	511-8000-10-1
	101	12	11'-3"	13'-6"	6'-6"	16	7.00	8	1409	511-8000-12- ²
	12'	14	13'-3"	15'-6"	6'-6"	18	7.50	8	1479	511-8000-14-
4 -		16	15'-3"	17'-6"	6'-6"	18	7.50	8	1934	511-8000-16- ⁴
4-Ton		10	9'-3"	11'-6"	7'-6"	16	7.00	8	1460	511-8000-10- ⁴
		12	11'-3"	13'-6"	7'-6"	16	7.00	8	1530	511-8000-12- ⁻
	14'	14	13'-3"	15'-6"	7'-6"	18	7.50	8	1600	511-8000-14- ⁻
		16	15'-3"	17'-6"	7'-6"	18	7.50	8	2055	511-8000-16-
		10	9'-3"	11'-6"	7'-6"	16	7.00	8	1583	511-8000-10-
		12	11'-3"	13'-6"	7'-6"	16	7.00	8	1653	511-8000-12-
	16'	14	13'-3"	15'-6"	7'-6"	18	7.50	8	1723	511-8000-14-
		16	15'-3"	17'-6"	7'-6"	18	7.50	8	2178	511-8000-16-
		10	9'-3"	11'-6"	5'-6"	16	7.00	8	1397	511-10000-10
		12	11'-3"	13'-6"	5'-6"	16	7.00	8	1467	511-10000-12
	10'	14	13'-3"	15'-6"	5'-6"	18	7.50	8	1537	511-10000-14
	12'	16	15'-3"	17'-6"	5'-6"	18	7.50	8	1992	511-10000-16
		10	9'-3"	11'-6"	6'-6"	16	7.00	8	1519	511-10000-10
		12	11'-3"	13'-6"	6'-6"	16	7.00	8	1589	511-10000-12
		14	13'-3"	15'-6"	6'-6"	18	7.50	8	1659	511-10000-14
		16	15'-3"	17'-6"	6'-6"	18	7.50	8	2114	511-10000-16
5-Ton		10	9'-3"	11'-6"	7'-6"	16	7.00	8	1640	511-10000-10
		12	11'-3"	13'-6"	7'-6"	16	7.00	8	1710	511-10000-12
	14'	14	13'-3"	15'-6"	7'-6"	18	7.50	8	1780	511-10000-14
		16	15'-3"	17'-6"	7'-6"	18	7.50	8	2235	511-10000-16
		10	9'-3"	11'-6"	7'-6"	16	7.00	8	1763	511-10000-10
		12	11'-3"	13'-6"	7'-6"	16	7.00	8	1833	511-10000-12
	16'	14	13'-3"	15'-6"	7'-6"	18	7.50	8	1903	511-10000-14-
		16	15'-3"	17'-6"	7'-6"	18	7.50	8	2358	511-10000-16-

COLIFICALIS PRODUCTS FOR BETTER LIFTING

ADJUSTABLE HEIGHT STEEL (K90)



												S
Rated Capacity	Max. Height Under Beam H	Nominal Span (ft.)	Inside Span A	Overall Length B	Support Width C	Beam Height D (in.)	Flange Width E (in.)	Caster Diameter (in.)	Min. Height Under Beam H (ft.)	Weight (Ibs.)	Part Number	Slings
		10	10'-5"	11'-6"	5'-0"	8	5.25	6	5'-0"	625	512-2000-10-8	Huggers
	8'	12	12'-5"	13'-6"	5'-0"	8	5.25	6	5'-0"	725	512-2000-12-8	Jge
	0	14	14'-5"	15'-6"	5'-0"	8	5.25	6	5'-0"	750	512-2000-14-8	S
		16	16'-5"	17'-6"	5'-0"	8	5.25	6	5'-0"	925	512-2000-16-8	Pro
		10	10'-5"	11'-6"	5'-6"	8	5.25	6	7'-0"	650	512-2000-10-10	Products
	10'	12	12'-5"	13'-6"	5'-6"	8	5.25	6	7'-0"	750	512-2000-12-10	cts
	10	14	14'-5"	15'-6"	5'-6"	8	5.25	6	7'-0"	800	512-2000-14-10	-
		16	16'-5"	17'-6"	5'-6"	8	5.25	6	7'-0"	950	512-2000-16-10	Hoists
		10	10'-5"	11'-6"	6'-6"	8	5.25	6	8'-0"	750	512-2000-10-12	sts
1-Ton	12'	12	12'-5"	13'-6"	6'-6"	8	5.25	6	8'-0"	850	512-2000-12-12	
1-1011	12	14	14'-5"	15'-6"	6'-6"	8	5.25	6	8'-0"	900	512-2000-14-12	Rin
		16	16'-5"	17'-6"	6'-6"	8	5.25	6	8'-0"	1050	512-2000-16-12	Rings
		10	10'-5"	11'-6"	7'-6"	8	5.25	6	10'-0"	800	512-2000-10-14	
	14'	12	12'-5"	13'-6"	7'-6"	8	5.25	6	10'-0"	900	512-2000-12-14	C
	14	14	14'-5"	15'-6"	7'-6"	8	5.25	6	10'-0"	950	512-2000-14-14	Clamps
		16	16'-5"	17'-6"	7'-6"	8	5.25	6	10'-0"	1100	512-2000-16-14	SC
		10	10'-5"	11'-6"	7'-6"	8	5.25	6	12'-0"	850	512-2000-10-16	
	16'	12	12'-5"	13'-6"	7'-6"	8	5.25	6	12'-0"	950	512-2000-12-16	Devices
	10	14	14'-5"	15'-6"	7'-6"	8	5.25	6	12'-0"	1000	512-2000-14-16	ng Ses
		16	16'-5"	17'-6"	7'-6"	8	5.25	6	12'-0"	1150	512-2000-16-16	

Mesh

Load

Tow

Lift-All Hoists

Hoist

Plate

Lifting



ADJUSTABLE HEIGHT STEEL (K90)



Rated Capacity	Max. Height Under Beam H	Nominal Span (ft.)	Inside Span A	Overall Length B	Support Width C	Beam Height D (in.)	Flange Width E (in.)	Caster Diameter (in.)	Min. Height Under Beam H (ft.)	Weight (Ibs.)	Part Number
		10	10'-5"	11'-6"	5'-0"	8	5.25	8	5'-0"	750	512-4000-10-8
	8'	12	12'-5"	13'-6"	5'-0"	8	5.25	8	5'-0"	800	512-4000-12-8
	0	14	14'-5"	15'-6"	5'-0"	10	5.75	8	5'-0"	925	512-4000-14-8
		16	16'-5"	17'-6"	5'-0"	10	5.75	8	5'-0"	975	512-4000-16-8
		10	10'-5"	11'-6"	5'-6"	8	5.25	8	7'-0"	775	512-4000-10-10
	10'	12	12'-5"	13'-6"	5'-6"	8	5.25	8	7'-0"	825	512-4000-12-10
	10	14	14'-5"	15'-6"	5'-6"	10	5.75	8	7'-0"	975	512-4000-14-10
		16	16'-5"	17'-6"	5'-6"	10	5.75	8	7'-0"	1025	512-4000-16-10
		10	10'-5"	11'-6"	6'-6"	8	5.25	8	8'-0"	875	512-4000-10-12
2-Ton	12'	12	12'-5"	13'-6"	6'-6"	8	5.25	8	8'-0"	900	512-4000-12-12
2-1011	12	14	14'-5"	15'-6"	6'-6"	10	5.75	8	8'-0"	1050	512-4000-14-12
		16	16'-5"	17'-6"	6'-6"	10	5.75	8	8'-0"	1100	512-4000-16-12
		10	10'-5"	11'-6"	7'-6"	8	5.25	8	10'-0"	950	512-4000-10-14
	14'	12	12'-5"	13'-6"	7'-6"	8	5.25	8	10'-0"	975	512-4000-12-14
	14	14	14'-5"	15'-6"	7'-6"	10	5.75	8	10'-0"	1125	512-4000-14-14
		16	16'-5"	17'-6"	7'-6"	10	5.75	8	10'-0"	1175	512-4000-16-14
		10	10'-5"	11'-6"	7'-6"	8	5.25	8	12'-0"	1000	512-4000-10-16
	16'	12	12'-5"	13'-6"	7'-6"	8	5.25	8	12'-0"	1025	512-4000-12-16
	16'	14	14'-5"	15'-6"	7'-6"	10	5.75	8	12'-0"	1175	512-4000-14-16
		16	16'-5"	17'-6"	7'-6"	10	5.75	8	12'-0"	1225	512-4000-16-16

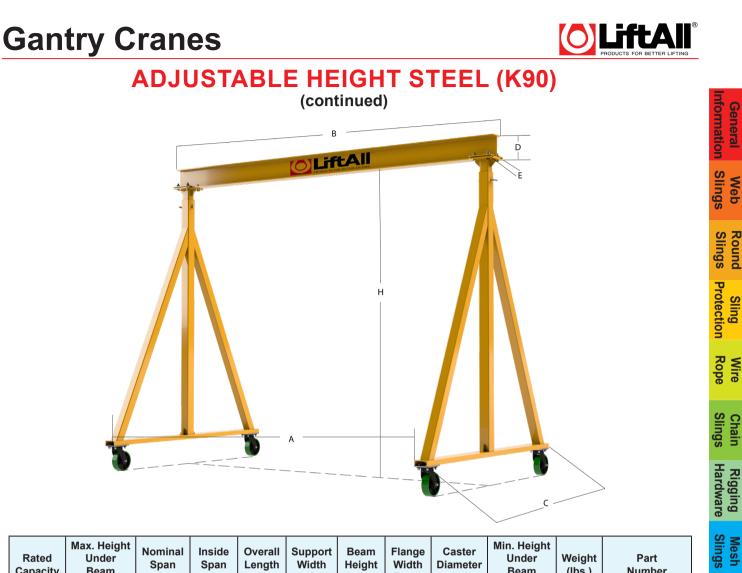
Slings Information

General

Web

Round Slings

Lifting Plate Devices Clamps



Rated Capacity	Max. Height Under Beam H	Nominal Span (ft.)	Inside Span A	Overall Length B	Support Width C	Beam Height D (in.)	Flange Width E (in.)	Caster Diameter (in.)	Min. Height Under Beam H (ft.)	Weight (Ibs.)	Part Number		Mesn Slings H
		10	9'-5"	11'-6"	5'-0"	12	6.50	8	5'-0"	1100	512-6000-10-8		Load Huggers
	0,	12	11'-5"	13'-6"	5'-0"	12	6.50	8	5'-0"	1175	512-6000-12-8		Load
	8'	14	13'-5"	15'-6"	5'-0"	12	6.50	8	5'-0"	1225	512-6000-14-8		
		16	15'-5"	17'-6"	5'-0"	12	6.50	8	5'-0"	1375	512-6000-16-8		Products
		10	9'-5"	11'-6"	5'-6"	12	6.50	8	7'-0"	1175	512-6000-10-10		oduc
	10'	12	11'-5"	13'-6"	5'-6"	12	6.50	8	7'-0"	1200	512-6000-12-10		ts
	10	14	13'-5"	15'-6"	5'-6"	12	6.50	8	7'-0"	1275	512-6000-14-10		ТГ
		16	15'-5"	17'-6"	5'-6"	12	6.50	8	7'-0"	1425	512-6000-16-10		Hoists
		10	9'-5"	11'-6"	6'-6"	12	6.50	8	8'-0"	1300	512-6000-10-12		ts
3-Ton	12'	12	11'-5"	13'-6"	6'-6"	12	6.50	8	8'-0"	1375	512-6000-12-12		
3-1011		14	13'-5"	15'-6"	6'-6"	12	6.50	8	8'-0"	1400	512-6000-14-12	2	Hoist Rings
		16	15'-5"	17'-6"	6'-6"	12	6.50	8	8'-0"	1575	512-6000-16-12		gs
		10	9'-5"	11'-6"	7'-6"	12	6.50	8	10'-0"	1400	512-6000-10-14		
	14'	12	11'-5"	13'-6"	7'-6"	12	6.50	8	10'-0"	1475	512-6000-12-14		Plate Clamps
	14	14	13'-5"	15'-6"	7'-6"	12	6.50	8	10'-0"	1525	512-6000-14-14		Plate Slamps
		16	15'-5"	17'-6"	7'-6"	12	6.50	8	10'-0"	1675	512-6000-16-14		
		10	9'-5"	11'-6"	7'-6"	12	6.50	8	12'-0"	1500	512-6000-10-16		Lifting Devices
	16'	12	11'-5"	13'-6"	7'-6"	12	6.50	8	12'-0"	1550	512-6000-12-16		ftin
	16'	14	13'-5"	15'-6"	7'-6"	12	6.50	8	12'-0"	1600	512-6000-14-16		Se D
		16	15'-5"	17'-6"	7'-6"	12	6.50	8	12'-0"	1750	512-6000-16-16		

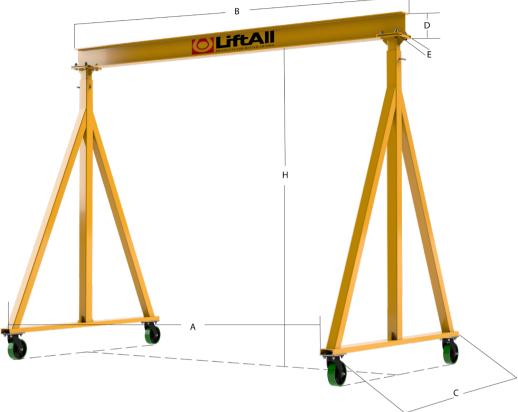
General

Web



ADJUSTABLE HEIGHT STEEL (K90)

(continued)



Rated Capacity	Max. Height Under Beam H	Nominal Span (ft.)	Inside Span A	Overall Length B	Support Width C	Beam Height D (in.)	Flange Width E (in.)	Caster Diameter (in.)	Min. Height Under Beam H (ft.)	Weight (Ibs.)	Part Number
		10	9'-5"	11'-6"	5'-0"	16	7.00	8	6'-1"	1325	512-10000-10-8
	8'	12	11'-5"	13'-6"	5'-0"	16	7.00	8	6'-1"	1375	512-10000-12-8
		14	13'-5"	15'-6"	5'-0"	18	7.50	8	6'-1"	1625	512-10000-14-8
		16	15'-5"	17'-6"	5'-0"	18	7.50	8	6'-1"	1700	512-10000-16-8
		10	9'-5"	11'-6"	5'-6"	16	7.00	8	7'-1"	1375	512-10000-10-10
	10'	12	11'-5"	13'-6"	5'-6"	16	7.00	8	7'-1"	1425	512-10000-12-10
	10	14	13'-5"	15'-6"	5'-6"	18	7.50	8	7'-1"	1675	512-10000-14-10
		16	15'-5"	17'-6"	5'-6"	18	7.50	8	7'-1"	1750	512-10000-16-10
		10	9'-5"	11'-6"	6'-6"	16	7.00	8	8'-1"	1550	512-10000-10-12
5-Ton	12'	12	11'-5"	13'-6"	6'-6"	16	7.00	8	8'-1"	1600	512-10000-12-12
5-1011	12	14	13'-5"	15'-6"	6'-6"	18	7.50	8	8'-1"	1825	512-10000-14-12
		16	15'-5"	17'-6"	6'-6"	18	7.50	8	8'-1"	1925	512-10000-16-12
		10	9'-5"	11'-6"	7'-6"	16	7.00	8	9'-1"	1650	512-10000-10-14
	14'	12	11'-5"	13'-6"	7'-6"	16	7.00	8	9'-1"	1725	512-10000-12-14
	14	14	13'-5"	15'-6"	7'-6"	18	7.50	8	9'-1"	1950	512-10000-14-14
		16	15'-5"	17'-6"	7'-6"	18	7.50	8	9'-1"	2050	512-10000-16-14
		10	9'-5"	11'-6"	7'-6"	16	7.00	8	10'-1"	1725	512-10000-10-16
	16'	12	11'-5"	13'-6"	7'-6"	16	7.00	8	10'-1"	1800	512-10000-12-16
	01	14	13'-5"	15'-6"	7'-6"	18	7.50	8	10'-1"	2025	512-10000-14-16
		16	15'-5"	17'-6"	7'-6"	18	7.50	8	10'-1"	2125	512-10000-16-16

L*ift-All* Hoists

Hoist Rings



nformation

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Huggers Products

Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting

General

ADJUSTABLE ALUMINUM (KA90)

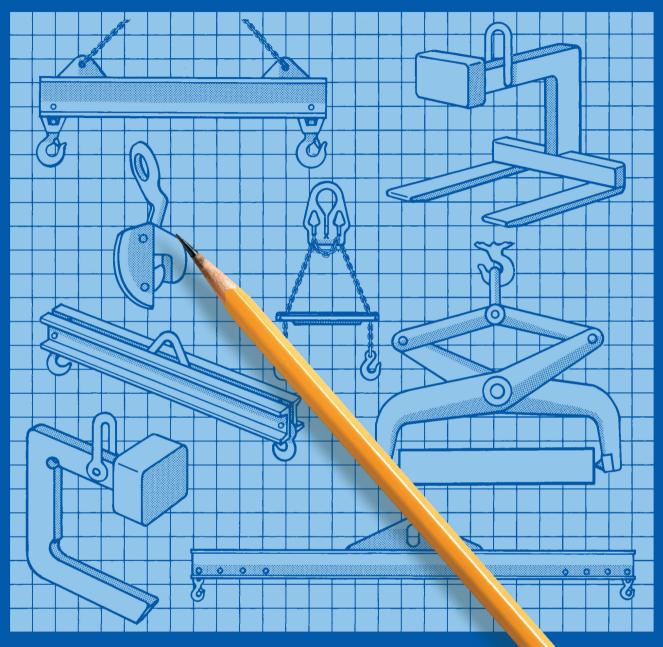


Features

- Lightweight aluminum construction.
- Balanced design allows for easy rolling under load.
- Simple bolt together construction.
- Includes four poly coated swivel casters.
- Easy setup and maintenance.
- Height adjustable in 6" increments.

Rated Capacity	Min./Max. Height Under Beam H	Nominal Span (ft.)	Inside Span A	Overall Length B	Support Width C	Beam Height D (in.)	Flange Width E (in.)	Caster Diameter (in.)	Weight (Ibs.)	Part Number
		8	7'-3"	8'-9"	4'-6"	5	3.00	6	125	582-1000-8-10
	7' - 6" min.	10	9'-3"	10'-9"	4'-6"	6	3.38	6	145	582-1000-10-10
	10' - 0" max.	12	11'-3"	12'-9"	4'-6"	8	4.00	6	175	582-1000-12-10
1/2-Ton		15	14'-3"	15'-9"	4'-6"	8	4.00	6	205	582-1000-15-10
1/2-1011		8	7'-3"	8'-9"	5'-0"	5	3.00	6	140	582-1000-8-12
	9' - 6" min.	10	9'-3"	10'-9"	5'-0"	6	3.38	6	160	582-1000-10-12
	12' - 0" max.	12	11'-3"	12'-9"	5'-0"	8	4.00	6	190	582-1000-12-12
		15	14'-3"	15'-9"	5'-0"	8	4.00	6	220	582-1000-15-12
		8	7'-3"	8'-9"	4'-6"	6	3.38	6	165	582-2000-8-10
	7' - 6" min.	10	9'-3"	10'-9"	4'-6"	8	4.00	6	195	582-2000-10-10
	10' - 0" max.	12	11'-3"	12'-9"	4'-6"	8	4.00	6	215	582-2000-12-10
4 Tain		15	14'-3"	15'-9"	4'-6"	10	4.63	6	260	582-2000-15-10
1-Ton		8	7'-3"	8'-9"	5'-0"	6	3.38	6	180	582-2000-8-12
9' - 6" min. 12' - 0" max.	10	9'-3"	10'-9"	5'-0"	8	4.00	6	210	582-2000-10-12	
	12	11'-3"	12'-9"	5'-0"	8	4.00	6	245	582-2000-12-12	
		15	14'-3"	15'-9"	5'-0"	10	4.63	6	300	582-2000-15-12
		8	7'-3"	8'-9"	4'-6"	8	4.00	8	250	582-4000-8-10
	7' - 6" min.	10	9'-3"	10'-9"	4'-6"	10	4.63	8	290	582-4000-10-10
	10' - 0" max.	12	11'-3"	12'-9"	4'-6"	12	5.00	8	340	582-4000-12-10
о т		15	14'-3"	15'-9"	4'-6"	12	5.00	8	375	582-4000-15-10
2-Ton		8	7'-3"	8'-9"	5'-0"	8	4.00	8	280	582-4000-8-12
	9' - 6" min.	10	9'-3"	10'-9"	5'-0"	10	4.63	8	320	582-4000-10-12
	12' - 0" max.	12	11'-3"	12'-9"	5'-0"	12	5.00	8	365	582-4000-12-12
		15	14'-3"	15'-9"	5'-0"	12	5.00	8	400	582-4000-15-12
		8	7'-3"	8'-9"	5'-0"	12	5.00	8	390	582-6000-8-10
	7' - 6" min.	10	9'-3"	10'-9"	5'-0"	12	5.00	8	395	582-6000-10-10
	10' - 0" max.	12	11'-3"	12'-9"	5'-0"	12	5.00	8	450	582-6000-12-10
		15	14'-3"	15'-9"	5'-0"	12	5.00	8	490	582-6000-15-10
3-Ton		8	7'-3"	8'-9"	5'-0"	12	5.00	8	425	582-6000-8-12
	9' - 6" min.	10	9'-3"	10'-9"	5'-0"	12	5.00	8	445	582-6000-10-12
	12' - 0" max.	12	11'-3"	12'-9"	5'-0"	12	5.00	8	502	582-6000-12-12
		15	14'-3"	15'-9"	5'-0"	12	5.00	8	548	582-6000-15-12

Custom Engineered Devices





Custom Devices



General nformation

Slings

Round Slings

Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Huggers Products

Lift-All Hoists

Plate Clamps

Load

Tow

Hoist

Sling

Web

BASIC INFORMATION

Lift-All Company can provide a unique engineered device for your production requirements. Our custom devices range from large capacity beams to small S-Hooks or J-Hooks.

Features and Benefits

- Specifically designed equipment for the ultimate in safety.
- All equipment conforms to highest engineering standards and meets or exceeds government and industry regulations (ASME B30.20).
- Helps eliminate employee fatigue raises morale and quality of work.
- Productivity improves through efficiency when using properly designed lifting devices.
- Equipment can be designed to prevent costly load damage.
- Rugged materials and construction provide long useful life.

Inspection Criteria for Lifting Devices

Visually inspect lifting device and slings prior to each lift. Have competent person record inspection a minimum of once a year. Follow all warnings and care/use instructions supplied with the device. Check the following and correct before use:

- Structural deformation, cracks, excessive wear.
- Loose or missing guards, fasteners, covers, stops or name plates.
- Inoperable mechanisms including automatic hold or release devices.
- Loose bolts or fasteners.
- Cracked or worn gears, pulleys, sheaves, sprockets, bearings and chains.
- Excessive wear of friction pads, linkage or other mechanical parts.
- Excessive wear of hoist hooking points and load support clevises or pins.

Safe Operating Practices

- Use only per ASME B30.20.
- Check name plate to assure proper lifting capacity.
- Perform a test load a sufficient distance to assure that the load is supported properly by the lifter and then inspect lifter for defects and deformation.
- Instruct the operator in correct lifting practices including proper storage, load distribution, use of associated slings, temperature considerations, avoidance of obstructions, acceleration, side pulls and angle of lift. Read HELP section of this catalog.
- Never lift over people and never ride the load.
- For proper use of slings with lifting devices refer to ASME B30.9 and appropriate section of this catalog.

How to Order

- 1. Review and understand the HELP section in this catalog.
- 2. Copy appropriate drawing from the following pages or download from our website www.lift-all.com under **Products/Lifting Devices/Custom Lifting Devices.**
- 3. Enter the information and fax to 717-898-1215, or scan and email to: customerservice@lift-all.com. For assistance call us at 800-909-1964.
- 4. Our engineering drawing will be sent to you for approval and purchase order.

Lifting Devices

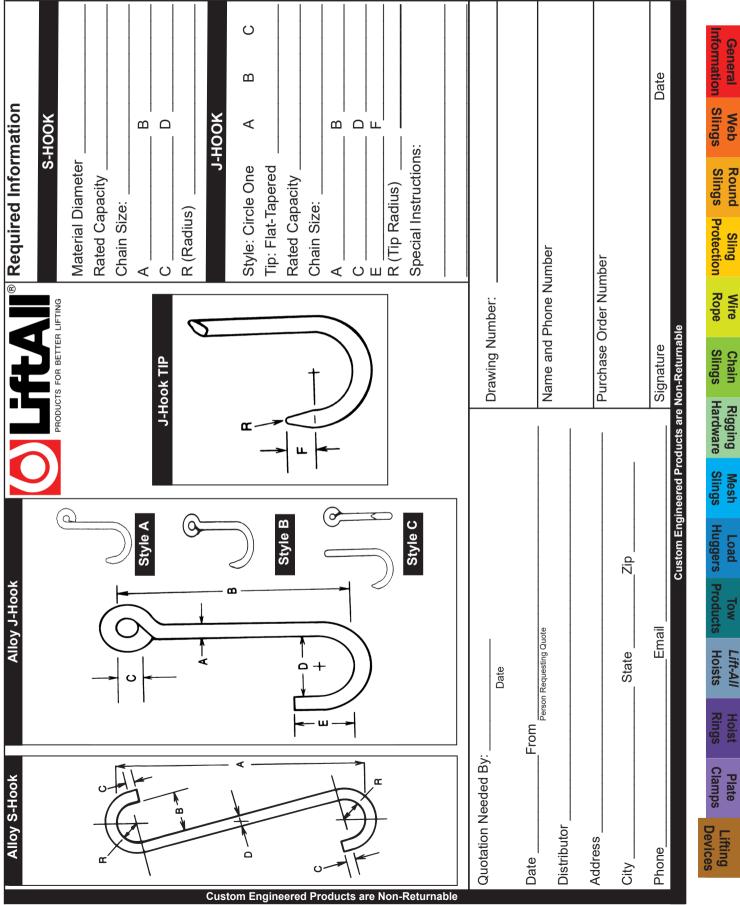


Custom Devices

Lifting Plate Hoist Lift-All Tow Load Mesh Rigging Olamps Rings Hoists Products Huggers Slings Hardware	Chain Wire Sling Round Web General Slings Rope Protection Slings Slings Information
	Copening required for Overhead Hook:
	A (Height)B (Width)C (Max.)C
45° HEADROOM	Capacity Required Spread Headroom
	D (Options)
Low Headroom lifting Beam	Is load center of gravity centered between other pick points? Yes No
	If no, specify location in reference to pick points (attach a diagram if necessary):
Products are Not	If adjustable beam required, list quantity and spread for any additional pairs of holes, pins and hooks.
Quotation Needed By:	Drawing Number:
Date From Person Requesting Quote	Name and Phone Number
	Durchase Order Numher
CityStateZip	
PhoneEmail	Signature Date
Custom Engineered Products are Non-Returnable	lon-Returnable

Custom Devices







Custom Devices

	Lifting Devices	Plate Clamps	Hoist Rings	Lift-All Hoists	Tow Load Products Huggers	Load Huggers	Mesh Slings	Rigging Hardware	Chain Slings	Wire Rope	Sling Protection	Round Slings	Web Slings	General Information	_
	S	STANDARD COIL LIFTER	COIL LIF	TER		S	ANDAR	STANDARD PALLET	LIFTER		Required Information	d Infor	mation		
Custom Engineered Products are Non-Returnable											Style Requested	Lested	Kes		
Qu	Quotation Needed By:	eded By: _		Date				Ď	Drawing Number:	lber:					
Date Distri	Date		From Person R	Person Requesting Quote	e			N	Name and Phone Number	none Num	hber				
Addr	Address City			State		diz		B_	Purchase Order Number	der Numb	e				
Ρh	Phone			Email		Custom Engineered Products are Non-Returnable	eered Proc	Sic ducts are No	Signature Non-Returnable	0			Date	te	



General

Web

Round

Sling Protection

Load Tow Huggers Products

Lift-All Hoists

Metric / Imperial Conversion											
	Millimeter mm	Centimeter cm	Meter m	Kilometer km	Feet ft						
1 mm	1	0.1	0.001	0.000001	0.00328						
1 cm	10	1	0.01	0.00001	0.03281						
1 m	1,000	100	1	0.001	3.28084						
1 km	1,000,000	100,000	1,000	1	3280.84						
1 in	25.4	2.54	0.0254	0.00003	0.08333						
1 ft	304.8	30.48	0.3048	0.0003	1						

		Weights of	f Vario	ous Materia	als and	d Liquids				ng	
		Pounds / cu. ft.				Pounds / sq	. ft.	Pounds /	gal.	ਸ਼ <	
Aluminum	165	Earth - Dry	75	Rubber	94	Steel Plate		Gasoline	6.2	Wire Rope	
Asphalt	81	Earth - Wet	100	Sand - Dry	105	1/8"	5	Diesel	7.0		
Brass	524	Gasoline	45	Sand - Wet	120	1/4"	10	Water	8.3	S C	
Brick	120	Glass	162	Steel	490	1/2"	20			Chain Slings	
Bronze	534	Iron Casting	470	Water	63	1"	40			S	
Cement - Loose	95	Lead	708	Zinc	437	Aluminum Plate				Hai Ri	
Cement - Set	183	Lumber - Fir	32			1/8"	1.75			Rigging Hardware	
Coal	56	Lumber - Oak	62			1/4"	3.50			ng are	
Concrete	150	Lumber - RR Ties	50			Lumber				(0 –	
Crushed Rock	95	Oil, Motor	58			3/4" Fir	2			Mesh Slings	
Diesel	52	Paper	60			3/4" Oak	4			s s	

			Decimal Eq	uivalents			
Fraction	Inches	Inches (rounded)	Millimeters	Fraction	Inches	Inches (rounded)	Millimeters
1/32	.0312	0.03	0.80	17/32	.5312	0.53	13.49
1/16	.0625	0.06	1.59	9/16	.5625	0.56	14.29
3/32	.0937	0.09	2.38	19/32	.5937	0.59	15.08
1/8	.125	0.13	3.18	5/8	.625	0.63	15.88
5/32	.1562	0.16	3.97	21/32	.6562	0.66	16.67
3/16	.1875	0.19	4.76	11/16	.6875	0.69	17.46
7/32	.2187	0.22	5.56	23/32	.7187	0.72	18.26
1/4	.250	0.25	6.35	3/4	.750	0.75	19.05
9/32	.2812	0.28	7.14	25/32	.7812	0.78	19.84
5/16	.3125	0.31	7.94	13/16	.8125	0.81	20.64
11/32	.3437	0.34	8.73	27/32	.8437	0.84	21.43
3/8	.375	0.38	9.53	7/8	.875	0.88	22.23
13/32	.4062	0.41	10.32	29/32	.9062	0.91	23.02
7/16	.4375	0.44	11.11	15/16	.9375	0.94	23.81
15/32	.4687	0.47	11.91	31/32	.9687	0.97	24.61
1/2	0.50	0.50	12.70	1.0	1.0	1.00	25.40

S	st
Clamps	Plate

Rin

Lifting Devices





Manufacturing and Warehousing:

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Corporate Headquarters and Customer Service

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