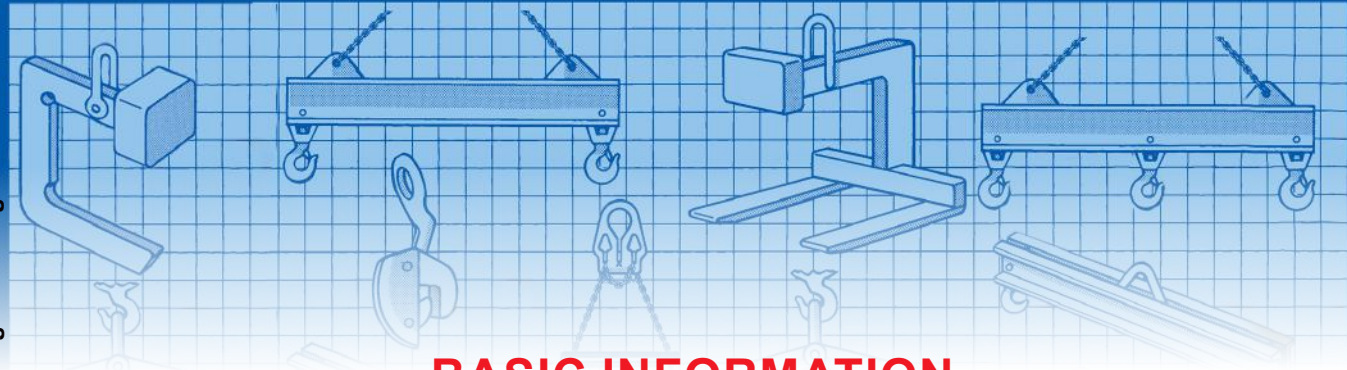


Custom Engineered Devices

General Information
Web Slings
Round Slings
Sling Protection
Wire Rope
Chain Slings
Rigging Hardware
Mesh Slings
Cargo Control
Lift-All Hoists
Hoist Rings
Plate Clamps



BASIC INFORMATION

Lift-All 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 with safety in mind.
- 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 a 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 at a sufficient distance to assure that the load is supported properly by the lifter. Then inspect the lifter for defects and deformation.
- 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.
- Instruct the operator on correct lifting practices including proper storage, load distribution, use of associated slings, temperature considerations, avoidance of obstructions, acceleration, side pulls and angle of lift. Refer to the General Information section of this catalog more information.

How to Order

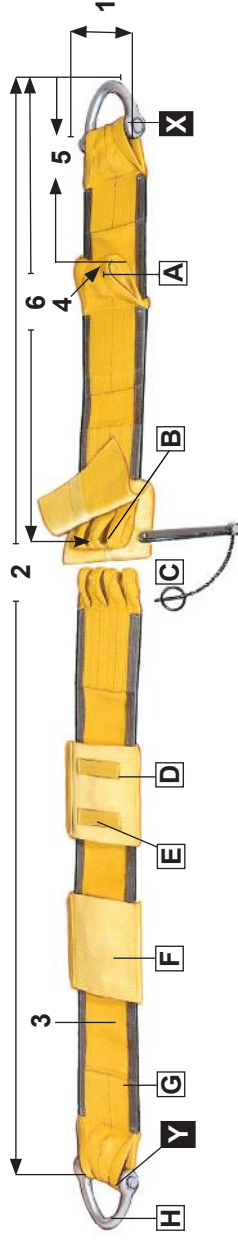
1. Review and understand the HELP section in this catalog.
2. Copy appropriate drawing from the following pages or download from our website www.lift-all.com under **Products/Lifting Devices/Custom Lifting Devices**.
3. Enter the information scan and email to: customerservice@lift-all.com. For assistance call *Lift-All* Custom Service at 800-909-1964.
4. Our engineering drawing will be sent to you for approval and purchase order. A fee may apply.

Lifting Devices

Required Information

SLING MEASUREMENTS

- Sling Width _____ (in.)
- Sling Length _____ (ft.)
- 2-Ply Standard
- Width of eyes _____ (in.)



HULL SAVER™ BOAT SLING

SLING MATERIAL

Low stretch polyester webbing is standard which helps to reduce chine marring. Nylon webbing is available, but will stretch about 50% more than polyester. Should not be used near acids.

- POLYESTER NYLON
 Natural Treated*

*Polymer treatment extends sling life.

ACCESSORIES

A. Extra Eyes for shortening sling to lift smaller craft (#5)

- Extra Eye #1: Position _____ ft. from pt. X or Y
 Extra Eye #2: Position _____ ft. from pt. X or Y
 Extra Eye #3: Position _____ ft. from pt. X or Y

NOTE: Custom Engineered Products are Non-Returnable.

Quotation Needed By: _____ Date _____

Date _____ From _____
Person Requesting Quote

Distributor _____

Address _____

City _____ State _____ Zip _____

Phone _____ Email _____

Drawing Number: _____

Name and Phone Number _____

Purchase Order Number _____

Signature _____

Date _____

ACCESSORIES

B. Quick Disconnect With Flaps (#6): Saves time needed to lower the lift for removing slings from the hooks. Available for 6" or wider only. Protective flap to cover pin is standard.

Position _____ ft. from point X or Y

C. Pin for Quick Disconnect:

This reusable pin is necessary for quick disconnect operation. Pin is galvanized for corrosion resistance; GAC wire with retaining clip holds pin in place.

D. Keel Pad: Helps protect the sling from abrasion and cutting. Sliding sleeve style allows sling to adjust to center point without scraping along keel. Pad uses the same webbing as the sling. Standard length is 48".

- Sliding Style: Length _____ ft.
 Sewn-on Style: Length _____ ft.
 Starting _____ ft. from X or Y

E. Keel Pad Weights: Lead weights allow for speedy submersion of sling.

F. Chine Pads: Help to protect boat chines, rub rails, and the sling from abrasion damage. Sliding pad can be positioned to accommodate any size and style of boat. May be sewn to sling per your specification. Pad uses the same webbing as the sling. Standard length is 48".

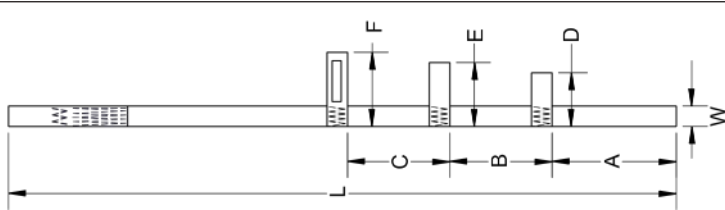
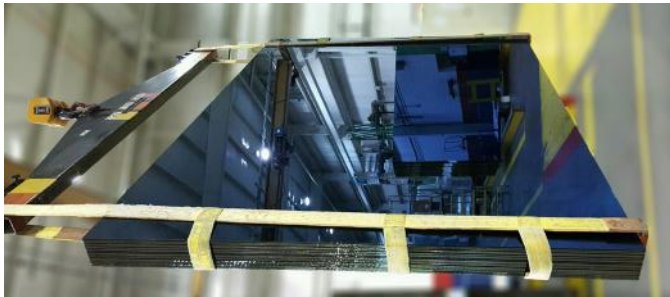
- Sliding Style: Quantity _____ Length _____ ft.
 Sewn-on Style: Quantity _____ Length _____ ft.
 Starting _____ ft. from X / Y

G. Edge Guard: Special wear resistant webbing applied to sling edges to help protect the sling from abrasion.

H. Pull Pin Shackles: Promotes sling life by protecting eyes of sling. Easier attachment of sling to lifting hook. Galvanized steel for corrosion resistance; reusable. Quantity _____



GLASS HANDLING SLING



PRIMARY WEB SLING

W. Sling Width (in.):

2 3 4

L. Sling Length (in.):

Plies: 1 2

Material:

- Natural Polyester*
- Webmaster® 1600
- Tuff-Edge® III

* Recommended Selection (As Shown)

DESIGN OPTIONS

Cross Pieces

Qty: 2 3

Dimensions: A: _____ B: _____ C: _____ D: _____
E: _____ F: _____

Note: Cross piece widths are the same material and width as the main sling.

Eye

Yoke: Inverted Bridge* Collar No Yoke

Eye Size (G): _____ in.

Wear Padding

Material: PVC* Nylon Leather Cordura

1. Inside Primary: Length _____ in.
2. Inside Cross Piece: Length _____ in.
3. Bottom Inside: Length _____ in.
4. Bottom Outside: Length _____ in.
5. Eye Lining: Length _____ in.
6. Eye Lining Placement:

- Top
- Bottom
- Both

* Recommended Selection (As Shown)

NOTE: Custom Engineered Products are Non-Returnable.

Quotation Needed By: _____ Date _____

Date _____ From _____
Person Requesting Quote

Distributor _____

Address _____

City _____ State _____ Zip _____

Phone _____ Email _____

Drawing Number: _____

Name and Phone Number _____

Purchase Order Number _____

Signature _____ Date _____

Custom Engineered Products are Non-Returnable. Fee may apply.