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Company Overview

- ► Company Info
- Quality and Certifications
- Affiliations

Company



Holloway Houston is the leading supplier of superior lifting products and services to energy and construction markets worldwide.

Holloway's large inventories, quality manufacturing, value-added services, testing facilities, and state-of-the-art equipment combine to deliver end-to-end industrial lifting solutions.

Committed to quality in all we do, Holloway is ISO 9001 certified and staffed by over 200 professionals dedicated to exceeding the needs of industrial lifting clients across the globe.

For more information about Holloway Houston, Inc., please visit our website at www.hhilifting.com.



Headquarters

Holloway Houston, Inc. 5833 Armour Dr. Houston, TX 77020



Company



Sling Manufacturing

Holloway Houston, Inc. (Sling Manufacturing / Receiving & Will Call) 5842 Harvey Wilson Dr. Houston, TX 77020



Technical Services & HMPE Rope

Holloway Houston, Inc. (Technical Services & HMPE Rope) 5900 Clinton Dr. Houston, TX 77020



Rental & Fabrication

Holloway Houston, Inc. (Rental / Fabrication Division) 5508 Clinton Dr. Houston, TX 77020

Warehousing

Holloway Houston, Inc. 5121 Harvey Wilson Houston, TX 77020



Quality and Certifications

Quality Policy

Holloway strives to deliver consistent high-quality lifting products that meet our customers' requirements in every way.

Leadership and Commitment:

Holloway Houston's quality management program is certified to ISO 9001 and API Specification Q1 standards since October 2005. Holloway Houston is currently certified to ISO 9001 quality management system and API Specification Q1 standards.









DNV 2.7-1 and 2.7-3 Type Approval Certificate



Affiliations

Industry Trade Associations

Holloway Houston supports lifting and material-handling industry trade associations. These associations promote the common interests, principles, goals, and distribution of technical information vital to developing and maintaining the standards of the lifting and material-handling industry.

Associated Wire Rope Fabricators (AWRF)

AWRF promotes interests common among companies manufacturing, fabricating, or distributing lifting, rigging, and load-securement devices made of chain, rope, and synthetic products.



American Petroleum Institute (API)

API is the only national trade association that represents all aspects of America's oil and natural gas industry. Their 400 corporate members, from the largest major oil company to the smallest of independents, come from all segments of the industry.



Det Norske Veritas (DNV)

DNV provides world-class expertise in technology, operations, management, and risk. But even more importantly, DNV applies its know-how to a professional service concept designed to safeguard and improve the performance of businesses.



Specialized Carriers and Rigging Association (SC&RA)

Since 1959 the SC&RA has helped 1100 members in 43 countries attain the highest standards of quality and safety through meetings, publications, services, and staff.



Web Sling and Tie Down Association (WSTDA)

is a tax-exempt, nonprofit technical association dedicated to the development and promotion of voluntary recommended standards and associated reference materials. The association was originally established in 1973 as the Web Sling Association (WSA), servicing the synthetic web sling industry.



Association of Energy Services Companies (AESC)

Since its beginning in 1956 the AESC has grown to become an international organization representing hundreds of energy service providers and associate members throughout the U.S. and the world. For over four decades, the AESC has provided leadership and guidance in setting standards to the make energy servicing industry both safer and more efficient.



International Association of Drilling Contractors (IADC)

IADC's mission is to improve industry health, safety, and environmental practices; advance drilling and completion technology; and champion responsible standards, practices, legislation, and regulations that provide for safe, efficient, and environmentally sound drilling operations worldwide.



Cordage Institute

The Cordage Institute is an international association of rope, twine, and related manufacturers, their suppliers, and affiliated industries. Its mission is to create value for its members by educating product users, the standards writing community, government agencies, and other entities on the proper use of industry products through the dissemination of standards.







Products

- ▶ Wire Rope Slings
- ▶ Wire Rope
- Synthetic Slings
- ► Chain & Accessories
- Crosby Shackles
- ► William Hackett
- Rigging Attachments and Fittings

Wire Rope Slings















Eye & Eye



| Wire | Rated Capacities in Tons | | Tons | | ard Eye | Heav Thimb | y Duty ble _. Eye | Minimum |
|--------------------------|--------------------------|-----------------|------------------------------|--------|---------|---------------|--------------------------------|-----------------|
| Rope Dia. (inches) | Vertical Hitch | Choker Hitch | Vertical Basket Hitch* | W" | L" | Dime! W" | nsions L" | Sling Length |
| 1/4" | 0.65 | 0.48 | 1.3 | 2" | 4" | 7/8" | 1-5/8" | 1'6" |
| 5/16" | 1 | 0.74 | 2 | 2-1/2" | 5" | 1-1/16" | 1-7/8" | 1'9" |
| 3/8" | 1.4 | 1.1 | 2.9 | 3" | 6" | 1-1/8" | 2-1/8" | 2' |
| | | | | | | | | |
| 1/2" | 2.5 | 1.9 | 5.1 | 4" | 8" | 1-1/2" | 2-3/4" | 2'6" |
| 9/16" | 3.2 | 2.4 | 6.4 | 4-1/2" | 9" | 1-1/2" | 2-3/4" | 2'9" |
| 5/8" | 3.9 | 2.9 | 7.8 | 5" | 10" | 1-3/4" | 3-1/4" | 3' |
| | | | | | | | | |
| 3/4" | 5.6 | 4.1 | 11 | 6" | 12" | 2" | 3-3/4" | 3'6" |
| 7/8" | 7.6 | 5.6 | 15 | 7" | 14" | 2-1/4" | 4-1/4" | 4' |
| 1" | 9.8 | 7.2 | 20 | 8" | 16" | 2-1/2" | 4-1/2" | 4'6" |
| | | | | | | | | |
| 1-1/8" | 12 | 9.1 | 24 | 9" | 18" | 2-7/8" | 5-1/8" | 5' |
| 1-1/4" | 15 | 11 | 30 | 10" | 20" | 2-7/8" | 5-1/8" | 5'6" |
| 1-3/8" | 18 | 13 | 36 | 11" | 22" | 3-1/2" | 6-1/4" | 6' |
| | | | | | | | | |
| 1-1/2" | 21 | 16 | 42 | 12" | 24" | 3-1/2" | 6-1/4" | 7' |
| 1-3/4" | 28 | 21 | 57 | 14" | 28" | 4-1/2" | 9" | 8' |
| 2" | 37 | 28 | 73 | 16" | 32" | 6" | 12" | 9' |
| | | | | | | | | |
| 2-1/4" | 44 | 35 | 89 | 18" | 36" | 7" | 14" | 10' |
| 2-1/2" | 54 | 42 | 109 | 20" | 40" | | | 11' |
| 2-3/4" | 65 | 51 | 130 | 22" | 44" | | | 12' |
| | | | | | | | | |
| 3" | 77 | 60 | 153 | 24" | 48" | | | 13' |
| 3-1/2" | 102 | 79 | 203 | 28" | 56" | | | 16'6" |
| 4" | 130 | 100 | 257 | 32" | 64" | | | 20' |
| | | | | | | | | |
| 4-1/2" | 160 | 124 | 320 | 36" | 72" | | | 24' |
| 6" | 257 | 200 | 513 | 48" | 96" | | | 30' |

Rated capacities of basket hitches are based on 40 times wire rope diameter (1/4" through 1" diameter slings) and 25 times wire rope diameter (1-1/8" and larger diameter slings). Basket ratings are calculated for vertical lifting. Appropriate reductions must be made when angular lifting is involved.



2-Leg Bridle

HH-202-TTS

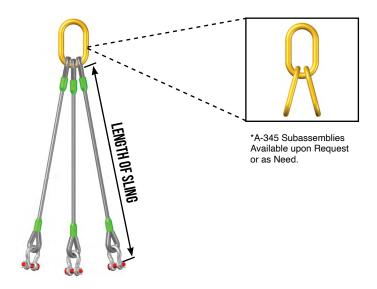


| Wire Rope Diameter | EIPS Ang | EIPS Capacities In Tons Angle With Horizontal | | | Recommended Master Link | | | Recomm. | Minimum Sling |
|--------------------------|-------------|--|--------|--------|-------------------------|--------|----------|-----------|------------------|
| (inches) | 60 Deg | 45 Deg | 30 Deg | Dia. | Width | Length | (Inches) | Eye Hooks | Length |
| 1/4" | 1.1 | 0.91 | 0.65 | 1/2" | 2.5" | 5" | 3/8" | 3/4 ton | 1'3" |
| 3/8" | 2.5 | 2.0 | 1.4 | 5/8" | 3" | 6" | 1/2" | 1.5 ton | 1'8" |
| 1/2" | 4.4 | 3.6 | 2.5 | 3/4" | 2.75" | 5.5" | 5/8" | 3 ton | 2'0" |
| | | | | | | | | | |
| 5/8" | 6.8 | 5.5 | 3.9 | 1" | 3.5" | 7" | 3/4" | 5 ton | 2'4" |
| 3/4" | 9.7 | 7.9 | 5.6 | 1" | 3.5" | 7" | 7/8" | 7 ton | 2'9" |
| 7/8" | 13 | 11 | 7.6 | 1-1/4" | 4.3" | 8.75" | 1" | 7.5 ton | 3'3" |
| | | | | | | | | | |
| 1" | 17 | 14 | 9.8 | 1-1/2" | 5.25" | 11.5" | 1-1/8" | 10 ton | 3'6" |
| 1-1/8" | 21 | 17 | 12 | 1-1/2" | 5.25" | 11.5" | 1-1/4" | 15 ton | 4'0" |
| 1-1/4" | 26 | 21 | 15 | 1-3/4" | 6" | 12" | 1-3/8" | 15 ton | 4'6" |
| | | | | | | | | | |
| 1-3/8" | 31 | 25 | 18 | 2" | 7" | 14" | 1-1/2" | 20 ton | 5'0" |
| 1-1/2" | 37 | 30 | 21 | 2" | 7" | 14" | 1-3/4" | 22 ton | 5'6" |
| 1-3/4" | 49 | 40 | 28 | 2-1/4" | 8" | 16" | 2" | 30 ton | 6'6" |
| | | | | | | | | | |
| 2" | 63 | 52 | 37 | 2-1/2" | 8" | 16" | 2-1/2" | 37 ton | 8'0" |
| 2 -1/4" | 77 | 63 | 44 | 2-3/4" | 9" | 16" | 2-1/2" | - | 8'9" |

All master links are sized to accommodate heavy-duty thimbles. If thimbles are not required, a smaller master link may be appropriate.

3-Leg Bridle

HH-303-TTS



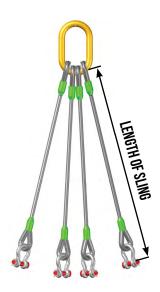
| Wire Rope | | Capacities In le With Horizon | | Recommended Master Link | | Recomm. Shackle Size | Recomm. | Minimum Sling | |
|-------------------|--------|-------------------------------|--------|-------------------------|-------|----------------------------|----------|------------------|--------|
| Diameter (inches) | 60 Deg | 45 Deg | 30 Deg | Dia. | Width | Length | (Inches) | Eye Hooks | Length |
| 1/4" | 1.7 | 1.4 | 0.97 | 1/2" | 2.5" | 5" | 3/8" | 3/4 ton | 1'3" |
| 3/8" | 3.7 | 3.0 | 2.2 | 3/4" | 2.75" | 5.50" | 1/2" | 1.5 ton | 1'8" |
| 1/2" | 6.6 | 5.4 | 3.8 | 1" | 3.5" | 7" | 5/8" | 3 ton | 2'0" |
| | | | | | | | | | |
| 5/8" | 10 | 8.3 | 5.9 | 1" | 3.5" | 7" | 3/4" | 5 ton | 2'4" |
| 3/4" | 15 | 12 | 8.4 | 1- 1/4" | 4.38" | 8.75" | 7/8" | 7 ton | 2'9" |
| 7/8" | 20 | 16 | 11 | 1- 1/4" | 5.25" | 10.5" | 1" | 7.5 ton | 3'3" |
| | | | | | | | | | |
| 1" | 26 | 21 | 15 | 1-3/4" | 6" | 12" | 1-1/8" | 10 ton | 3'6" |
| 1-1/8" | 31 | 25 | 18 | 2" | 7" | 14" | 1-1/4" | 15 ton | 4'0" |
| 1-1/4" | 38 | 31 | 22 | 2-1/4" | 8" | 16" | 1-3/8" | 15 ton | 4'6" |
| | | | | | | | | | |
| 1-3/8" | 46 | 38 | 27 | 2-1/4" | 8" | 16" | 1-1/2" | 20 ton | 5'0" |
| 1-1/2" | 55 | 45 | 32 | 2-3/4" | 9" | 16" | 1-3/4" | 22 ton | 5'6" |
| 1-3/4" | 74 | 60 | 42 | 2-3/4" | 9" | 16" | 2" | 30 ton | 6'6" |
| | | | | | | | | | |
| 2" | 95 | 78 | 55 | 3-1/4" | 10" | 20" | 2-1/2" | 37 ton | 8'0" |
| 2-1/4" | 116 | 94 | 67 | 4" | 10" | 20" | 2-1/2" | - | 8'9" |

All master links are sized to accommodate heavy-duty thimbles. If thimbles are not required, a smaller master link may be appropriate.



4-Leg Bridle

HH-404-TTS-342



| R | Vire ope | EIPS Angl | Capacities In T | Tons ntal | Recomm | mended Ma | ster Link | Recomm. Shackle Size | Recomm. | Minimum Sling |
|----|----------------|--------------|-----------------|--------------|------------------|----------------|-----------------|----------------------------|-----------|------------------|
| | meter ches) | 60 Deg | 45 Deg | 30 Deg | Dia. (inches) | Width (inches) | Length (inches) | (Inches) | Eye Hooks | Length |
| | 1/4" | 2.2 | 1.8 | 1.3 | 1/2" | 2 | 3 | 3/8" | 3/4 ton | 1'-3" |
| 3 | 3/8" | 5 | 4.1 | 2.9 | 3/4" | 3 | 4.5 | 1/2" | 1.5 ton | 1'-8" |
| | 1/2" | 8.8 | 7.1 | 5.1 | 1" | 4 | 6 | 5/8" | 3 ton | 2' |
| Ę | 5/8" | 14 | 11 | 7.8 | 1 1/4" | 5 | 7.75 | 3/4" | 5 ton | 2'-4" |
| 3 | 3/4" | 19 | 16 | 11 | 1 1/2" | 6 | 9 | 7/8" | 7 ton | 2'-9" |
| 7 | 7/8" | 26 | 21 | 15 | 1 3/4" | 7 | 10.5 | 1" | 7.5 ton | 3'-3" |
| | 1" | 34 | 28 | 20 | 1 7/8" | 7.5 | 11.25 | 1 1/8" | 10 ton | 3'-6" |
| 1- | -1/8" | 42 | 34 | 24 | 2 1/4" | 9 | 13.5 | 1 1/4" | 15 ton | 4' |
| 1- | -1/4" ** | 51 | 42 | 30 | 2 1/2" | 10 | 15 | 1 3/8" | 15 ton | 4'-6" |
| 1- | -3/8" ** | 62 | 50 | 36 | 2 3/4" | 11 | 16 | 1 1/2" | 20 ton | 5' |
| 1- | -1/2" ** | 73 | 60 | 42 | 2 3/4" | 11 | 16 | 1 3/4 | 22 ton | 5'-6" |
| 1- | -3/4" ** | 98 | 80 | 57 | 4" | 13 | 19.5 | 2 1/2" | 30 ton | 6'-6" |
| | 2" ** | 127 | 104 | 73 | 4" | 16 | 24 | 2 1/2" | 37 ton | 8' |
| 2- | -1/4" ** | 154 | 126 | 89 | N/A | N/A | N/A | 2 1/2" | - | 8'-9" |

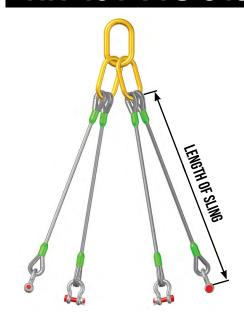
All master links are sized to accommodate heavy-duty thimbles.

If thimbles are not required, a smaller master link may be appropriate.

**If thimble is required at the top, these sizes must use an A-345 Master Link Assembly.

4-Leg Bridle Sub Assembly

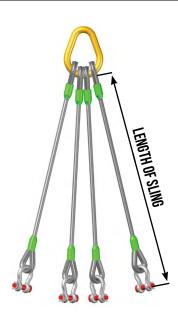
HH-404-TTS-345



| Wire Rope | EIPS (| EIPS Capacities In Tons Angle With Horizontal | | | Recommended Master Link Assembly | | | Recomm. Shackle Size | Recomm. | Minimum Sling |
|-------------------|--------|--|--------|------------------|----------------------------------|-----------------|-------------------------|----------------------------|-----------|------------------|
| Diameter (inches) | 60 Deg | 45 Deg | 30 Deg | Dia. (inches) | Width (inches) | Length (inches) | Inside Dia. (inches) | (inches) | Eye Hooks | Length |
| 1/4" | 2.2 | 1.8 | 1.3 | N/A | N/A | N/A | N/A | 3/8" | 3/4 ton | 1'-3" |
| 3/8" | 5 | 4.1 | 2.9 | 3/4" | 3.2 | 6 | 1.77 | 1/2" | 1.5 ton | 1'-8" |
| 1/2" | 8.8 | 7.1 | 5.1 | 1" | 4.3 | 7.5 | 2.36 | 5/8" | 3 ton | 2' |
| 5/8" | 14 | 11 | 7.8 | 1 1/4" | 5.5 | 9.5 | 3.54 | 3/4" | 5 ton | 2'-4" |
| 3/4" | 19 | 16 | 11 | 1 1/2" | 5.9 | 10.5 | 3.94 | 7/8" | 7 ton | 2'-9" |
| 7/8" | 26 | 21 | 15 | 1 3/4" | 6 | 12 | 5 | 1" | 7.5 ton | 3'-3" |
| 1" | 34 | 28 | 20 | 1 7/8" | 6 | 12 | 5 | 1 1/8" | 10 ton | 3'-6" |
| 1 1/8" | 42 | 34 | 24 | 2 1/4" | 7 | 14 | 5.75 | 1 1/4" | 15 ton | 4' |
| 1 1/4" | 51 | 42 | 30 | 2 1/2" | 8.38 | 16 | 8.38 | 1 3/8" | 15 ton | 4'-6" |
| 1 3/8" | 62 | 50 | 36 | 2 3/4" | 8.38 | 16 | 8.38 | 1 1/2" | 20 ton | 5' |
| 1 1/2" | 73 | 60 | 42 | 2 3/4" | 9.88 | 18 | 9.88 | 1 3/4" | 22 ton | 5'-6" |
| 1 3/4" | 98 | 80 | 57 | 4" | 12 | 24 | 12 | 2 1/2" | 30 ton | 6'-6" |
| 2" | 127 | 104 | 73 | 4" | 12 | 24 | 12 | 2 1/2" | 37 ton | 8' |
| 2 1/4" | 154 | 126 | 89 | 4" | 12 | 24 | 12 | 2 1/2" | - | 8'-9" |

4-Leg Bridle Pear Link

HH-404-TTS-341

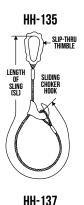


| Wire Rope | EIPS Ang | EIPS Capacities In Tons Angle With Horizontal | | | Recomm. Shackle Size | | | Recommended Pear-Shaped Link Shackle Size Recomm. | | Recommended Pear-Shaped Link | | | Minimum Sling |
|-------------------|-------------|--|--------|------------------|----------------------|----------------|--------------------|---|-----------|------------------------------|--|--|------------------|
| Diameter (inches) | 60 Deg | 45 Deg | 30 Deg | Dia. (inches) | Cap. (Tons) | Width (inches) | Length (inches) | (Inches) | Eye Hooks | Length | | | |
| 1/4" | 2.2 | 1.8 | 1.3 | 1/2" | 3.15 | 2 | 3 | 3/8" | 3/4 ton | 1'-3" | | | |
| 3/8" | 5 | 4.1 | 2.9 | 3/4" | 5.59 | 3 | 4.5 | 1/2" | 1.5 ton | 1'-8" | | | |
| 1/2" | 8.8 | 7.1 | 5.1 | 1" | 11 | 4 | 6 | 5/8" | 3 ton | 2' | | | |
| 5/8" | 14 | 11 | 7.8 | 1 1/4" | 16.4 | 5 | 7.75 | 3/4" | 5 ton | 2'-4" | | | |
| 3/4" | 19 | 16 | 11 | 1 1/2" | 24.7 | 6 | 9 | 7/8" | 7 ton | 2'-9" | | | |
| 7/8" | 26 | 21 | 15 | 1 3/4" | 38.6 | 7 | 10.5 | 1" | 7.5 ton | 3'-3" | | | |
| 1" | 34 | 28 | 20 | 1 7/8" | 43.5 | 7.5 | 11.25 | 1 1/8" | 10 ton | 3'-6" | | | |
| 1-1/8" | 42 | 34 | 24 | 2 1/4" | 65 | 9 | 13.5 | 1 1/4" | 15 ton | 4' | | | |
| 1-1/4" | 51 | 42 | 30 | 2 1/2" | 66.9 | 10 | 15 | 1 3/8" | 15 ton | 4'-6" | | | |
| 1-3/8" | 62 | 50 | 36 | 2 3/4" | 98.6 | 11 | 16 | 1 1/2" | 20 ton | 5' | | | |
| 1-1/2" | 73 | 60 | 42 | 2 3/4" | 98.6 | 11 | 16 | 1 3/4 | 22 ton | 5'-6" | | | |
| 1-3/4" | 98 | 80 | 57 | 3 1/4" | 119 | 13 | 19.5 | 2" | 30 ton | 6'-6" | | | |
| 2" | 127 | 104 | 73 | 4" | 169 | 16 | 24 | 2 1/2" | 37 ton | 8' | | | |
| 2-1/4" | 154 | 126 | 89 | N/A | N/A | N/A | N/A | 2 1/2" | - | 8'-9" | | | |

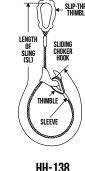
All master links are sized to accommodate heavy-duty thimbles. If thimbles are not required, a smaller master link may be appropriate.

Single-Leg With Sliding Choker Hooks

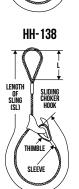
HH-135 thru HH-138



SLIDING CHOKER Hook

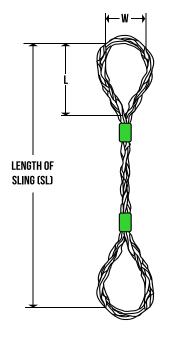


HH-136



| Diameter | EIPS Capacity | SLIP - THR | U THIMBLES | Soft Eye |
|----------|------------------|------------|-------------|-------------|
| of Rope | In Tons | Size | Dimension | Dim. |
| 1/4" | 0.48 | W-2 | 2-1/8X4-1/8 | 2X4 |
| 3/8" | 1.1 | W-2 | 2-1/8X4-1/8 | 3X6 |
| 1/2" | 1.9 | W-3 | 2-3/8X4-3/8 | 4X8 |
| 5/8" | 2.9 | W-4 | 3-3/8X6-5/8 | 5X10 |
| 3/4" | 4.1 | W-4 | 3-3/8X6-5/8 | 6X12 |
| 7/8" | 5.6 | W-5 | 3-3/4X7-1/8 | 7X14 |
| 1" | 7.2 | W-5 | 3-3/4X7-1/8 | 8X16 |
| 1 1/8" | 9.1 | W-6 | 4-3/8X8-3/8 | 9X18 |
| 1 1/4" | 11 | W-6 | 4-3/8X8-3/8 | 10X20 |
| 1 3/8" | 13 | W-7 | 5X9-1/2 | 11X22 |
| 1 1/2" | 16 | W-7 | 5X9-1/2 | 12X24 |

8 - Part Braided Sligs



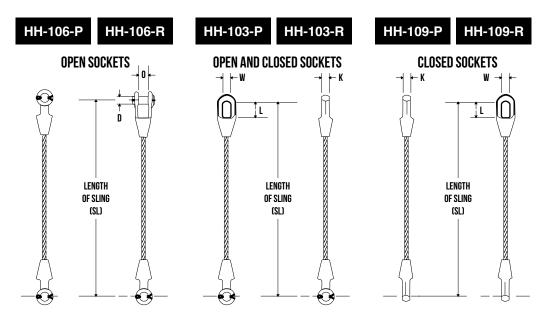
HH-120

| Diameter | EIPS Vertical | Minimum Sling | Eye Dim | nensions |
|----------|---------------------|------------------|--------------|------------|
| of Rope | Capacity In Tons | Length ft-in | Width in. | Length in. |
| 1/8 | 1.1 | 1'10" | 3 | 6 |
| 3/16 | 2.4 | 2'10" | 5 | 10 |
| 1/4 | 3.9 | 3'6" | 6 | 12 |
| 5/16 | 5.9 | 4'6" | 8 | 16 |
| 3/8 | 8.4 | 5'0" | 8 | 16 |
| 7/16 | 13.0 | 5'9" | 9 | 18 |
| 1/2 | 17.0 | 6'5" | 9 | 18 |
| 9/16 | 22.0 | 8'0" | 12 | 24 |
| 5/8 | 26.0 | 9'4" | 14 | 28 |

NOTE: RATED CAPACITIES OF CHOKER HITCHES APPLY WHEN THE ANGLE OF CHOKE IS GREATER THAN 120 DEGREES. 8-PART BRAIDS WITH CASINGS AND CHOKER HOOKS ALSO AVAILABLE.



Precision Spelter Socket Assemblies



| Diameter of | Minimum | Rated | | Open Sockets | | Closed | Sockets |
|-----------------------|-------------------------------|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Wire Rope (inches) | Minimum Length of Sling | Capacity In Tons of 2,000 Lbs. | Dim. O (Inches) | Dim. D (Inches) | Dim. W (Inches) | Dim. L (Inches) | Dim. K (Inches) |
| 1/2" | 1'3" | 2.66 | 1" | 1" | 1.16" | 2.25" | 0.88" |
| 5/8" | 1'6" | 4.12 | 1.25" | 1.19" | 1.41" | 2.5" | 1.00" |
| 3/4" | 1'9" | 5.88 | 1.5" | 1.38" | 1.66" | 3" | 1.25" |
| 7/8" | 2' | 7.96 | 1.75" | 1.63" | 1.88" | 3.5" | 1.50" |
| 1" | 2'6" | 10.34 | 2" | 2" | 2.3" | 4" | 1.75" |
| 1-1/8" | 2'9" | 13.00 | 2.25" | 2.25" | 2.56" | 4.5" | 2.00" |
| 1-1/4" | 3' | 15.98 | 2.5" | 2.5" | 2.81" | 5" | 2.25" |
| 1-3/8" | 3' | 19.20 | 2.5" | 2.5" | 2.81" | 5" | 2.25" |
| 1-1/2" | 3'3" | 22.80 | 3" | 2.75" | 3.19" | 6" | 2.75" |
| 1-3/4" | 4'3" | 30.60 | 3.5" | 3.5" | 3.75" | 7.56" | 3.13" |
| 2" | 4'9" | 39.60 | 4" | 3.75" | 4.38" | 8.56" | 3.75" |
| 2-1/4" | 5' | 49.40 | 4.5" | 4.25" | 5" | 9.5" | 4.00" |
| 2-1/2" | 5'9" | 60.40 | 5" | 4.75" | 5.5" | 10.62" | 4.50" |
| 2-3/4" | 6'3" | 72.20 | 5.25" | 5" | 6.25" | 11.25" | 4.88" |
| 3" | 6'9" | 85.00 | 5.75" | 5.25" | 6.75" | 11.75" | 5.25" |
| 3-1/4" | 7'3" | 98.40 | 6.25" | 5.5" | 7.25" | 12.25" | 5.75" |
| 3-1/2" | 7'6" | 112.80 | 6.75" | 6" | 7.75" | 13" | 6.25" |
| 3-3/4" | 8'3" | 126.40 | 7.5" | 7" | 8.5" | 14" | 7.00" |
| 4" | 8'6" | 142.60 | 7.5" | 7" | 8.5" | 14" | 7.00" |

Socket assemblies are to exact length +/- 1/4".

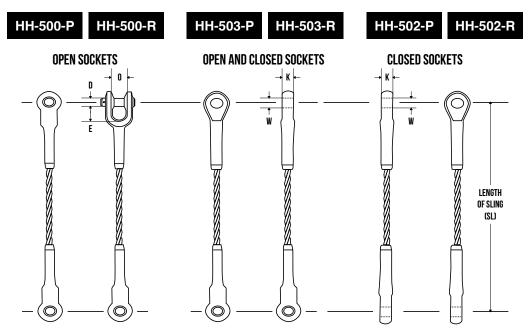
All assemblies are proof-tested to 40% of catalog breaking strength. All capacities are based on extra-improved plow steel (EIPS).

Enhanced capacity based on extra-improved plow steel (EIPS). EEIPS is also available upon request.





Precision Swaged Socket Assemblies



| Diameter of | Minimum | Rated | | Open Sockets | | Closed | Sockets |
|-----------------------|--------------------|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Wire Rope (inches) | Length of Sling | Capacity In Tons of 2,000 Lbs. | Dim. O (Inches) | Dim. D (Inches) | Dim. E (Inches) | Dim. K (Inches) | Dim. W (Inches) |
| 1/4" | 0'11" | 0.69 | 0.69" | 0.69" | 1.15" | 0.5" | 0.75" |
| 5/16" | 1'3" | 1.05 | 0.81" | 0.81" | 1.36" | 0.67" | 0.88" |
| 3/8" | 1'3" | 1.50 | 0.81" | 0.81" | 1.36" | 0.67" | 0.88" |
| 7/16" | 1'8" | 2.04 | 1" | 1" | 1.5" | 0.86" | 1.06" |
| 1/2" | 1'8" | 2.66 | 1" | 1" | 1.5" | 0.86" | 1.06" |
| 9/16" | 2'0" | 3.36 | 1.25" | 1.19" | 1.65" | 1.13" | 1.25" |
| 5/8" | 2'0" | 4.12 | 1.25" | 1.19" | 1.65" | 1.13" | 1.25" |
| 3/4" | 2'5" | 5.88 | 1.5" | 1.38" | 2.06" | 1.31" | 1.44" |
| 7/8" | 2'10" | 7.96 | 1.75" | 1.62" | 2.44" | 1.5" | 1.69" |
| 1" | 3'2" | 10.34 | 2" | 2" | 2.75" | 1.75" | 2.06" |
| 1-1/8" | 3'7" | 13.00 | 2.25" | 2.25" | 3.13" | 2" | 2.31" |
| 1-1/4" | 4'0" | 15.98 | 2.5" | 2.5" | 3.5" | 2.25" | 2.56" |
| 1-3/8" | 4'5" | 19.20 | 2" | 2.5" | 4" | 2.25" | 2.56" |
| 1-1/2" | 4'9" | 22.80 | 3" | 2.75" | 4.38" | 2.5" | 2.81" |
| 1-3/4" | 5'5" | 30.60 | 3.5" | 3.5" | 5" | 3" | 3.56" |
| 2" | 6'4" | 39.60 | 4" | 3.75" | 6.13" | 3.25" | 3.81" |

Socket assemblies can be ordered pre-stretched and measured under load to exact length +/- 1/4".

All assemblies are proof-tested to 40% of catalog breaking strength.

All capacities are based on extra-improved plow steel (EIPS). EEIPS is also available upon request. Enhanced capacity based on extra-improved plow steel (EIPS). EEIPS is also available upon request.



3-Part EIPS

HH-1305-EE

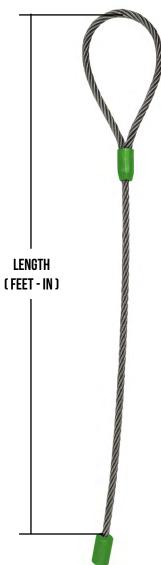


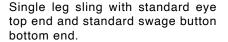
| Component Wire Rope Diameter | Vertical Capacity Tons | Sling Body Diameter | Eye Length | Approx. Weight in Lbs. per Foot |
|------------------------------------|------------------------|---------------------------|---------------|--|
| 3/4" | 14.0 | 1-1/2" | 20" | 4.2 |
| 7/8" | 19.0 | 1-3/4" | 24" | 5.7 |
| 1" | 24.8 | 2" | 28" | 7.4 |
| 1-1/8" | 31.2 | 2-1/4" | 32" | 9.4 |
| 1-1/4" | 38.4 | 2-1/2" | 36" | 11.6 |
| 1-3/8" | 46.0 | 2-3/4" | 40" | 14.0 |
| 1-1/2" | 55.0 | 3" | 44" | 16.6 |
| 1-3/4" | 73.0 | 3-1/2" | 52" | 22.7 |
| 2" | 95.0 | 4" | 56" | 29.5 |
| 2-1/4" | 118.0 | 4-1/2" | 64" | 37.4 |
| 2-1/2" | 145.0 | 5" | 72" | 46.4 |
| 2-3/4" | 173.0 | 5-1/2" | 80" | 64.0 |
| 3" | 204.0 | 6" | 88" | 66.4 |
| 3-1/2" | 270.0 | 7" | 96" | 90.8 |
| 4" | 343 | 8" | 112" | 118.4 |
| 4-1/2" | 384 | 9" | 126" | 149.6 |
| 6" | 660 | 12" | 168" | 264.7 |

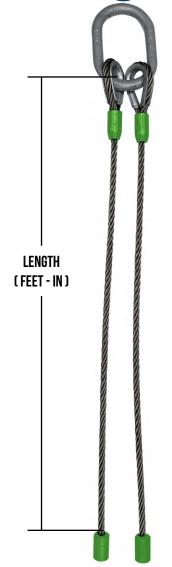
WHEN USING IN BASKET OR CHOKER CONFIGURATION, TAKE LIFTING ANGLES INTO CONSIDERATION. TO OBTAIN FULL RATED CAPACITY, THE PIN THAT THE EYE OF THE SLING PASSES OVER MUST BE A MINIMUM OF 4 TIMES THE DIAMETER OF THE COMPONENT WIRE ROPE.



Tea Cup Sling







Two leg bridle with alloy master link and thimbles top end and standard swage buttons bottom end.



| | Rated Capacitie | es in Short Tons | Min. Sling Length | |
|------------------|-------------------|------------------|----------------------|--|
| Diameter of Rope | Single Leg 90° | Two Legs 60° | | |
| 5/8" | 3.9 | 6.7 | 3' | |
| 3/4" | 5.6 | 9.6 | 3'-6" | |
| 7/8" | 7.6 | 13.1 | 4' | |
| 1" | 9.8 | 16.97 | 4'-6" | |
| 1-1/8" | 12 | 20.7 | 5' | |
| 1-1/4" | 15 | 25.9 | 5-6" | |
| 1-3/8" | 18 | 31.1 | 6' | |
| 1-1/2" | 21 | 36.3 | 7' | |

Note: Specify wire rope construction, grade, and finish if other than standard



See wire rope sling warnings page for warnings and inspection criteria

9-Part EIPS

HH-1905-EE

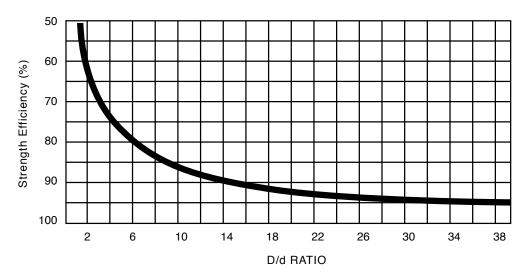


High-Capacity Low Headroom Grommet

To obtain the full rated capacity, the pin that the eye of the sling passes over must be a minimum of 1:1 D/d Ratio where D is the pin diameter, and d is the sling body diameter.

Hi-Cap LHR slings are ideal for applications in chemical plants, refineries, interstate highway construction, offshore derrick barge cranes, or whenever application requires high capacity with limited headroom.

Reduction in efficiency of wire rope when bent over pins of various sizes.



To obtain the full rated capacity, the pin that the eye of the sling passes over must be a minimum of 1:1 D/d ratio, where "D" is the pin diameter and "d" is the sling body diameter. This curve is computed for static loads only and is based on a weighted average of tests on 6-strand wire rope over pins and thimbles, on fiber core and IWRC, regular and lang constructions.

Note: The breaking strength of a grommet-type wire rope is highly dependent on the ratio of the pin diameter divided by the wire rope diameter. From this ratio, the strength efficiency can be calculated and applied to the base values on the previous page.

The values on the following four pages have been calculated based on using Crosby G-2160 Wide Body Shackles. To calculate for pins, anchor shackle bales, and trunnions:

- 1. Calculate your D/D ratio.
- 2. From your D/d ratio, determine your strength efficiency factor.
- 3. Apply your strength efficiency factor to the base working load limits at the top of page 1.



Phase 1 Grommet

Part #: HI-CAP1

Phase 1 Grommet (Single-Part)
(Working Load Limits Are in Tons of 2000 Lbs.)

Working Load Limit @ 5:1 Design Factor





| Component Rope | | Diameter of Pin, Shackle Bail, Trunnion, Etc. (inches) | | | | | | | | | | Minimum length | |
|-------------------|------|--|------|------|------|------|-------|-------|-------|-------|-------|-------------------|-------|
| Dia. (inches) | 3.00 | 3.50 | 4.00 | 4.50 | 6.00 | 8.00 | 10.00 | 12.00 | 16.00 | 20.00 | 24.00 | 30.00 | (Ft) |
| 1.50 | 27 | 28 | 29 | 29 | 31 | 32 | 34 | 35 | 36 | 37 | 37 | 38 | 5.46 |
| 1.75 | 34 | 36 | 37 | 38 | 40 | 42 | 44 | 45 | 47 | 48 | 49 | 50 | 6.38 |
| 2.00 | 43 | 46 | 47 | 49 | 52 | 55 | 57 | 58 | 61 | 63 | 64 | 66 | 7.29 |
| 2.25 | 49 | 52 | 55 | 56 | 61 | 64 | 67 | 68 | 72 | 74 | 76 | 77 | 8.20 |
| 2.50 | 58 | 62 | 65 | 67 | 73 | 77 | 81 | 83 | 86 | 90 | 92 | 94 | 9.11 |
| 2.75 | 67 | 72 | 76 | 79 | 85 | 91 | 95 | 98 | 103 | 106 | 109 | 112 | 10.02 |
| 3.00 | 77 | 82 | 87 | 91 | 99 | 106 | 111 | 115 | 120 | 124 | 128 | 132 | 10.93 |
| 3.50 | | 102 | 108 | 114 | 126 | 136 | 143 | 148 | 156 | 161 | 165 | 171 | 12.75 |
| 4.00 | | | 130 | 137 | 153 | 168 | 177 | 184 | 195 | 201 | 206 | 214 | 14.57 |
| 4.50 | | | | 160 | 181 | 200 | 212 | 222 | 235 | 244 | 250 | 259 | 16.39 |
| 6.00 | | | | | 250 | 283 | 306 | 323 | 346 | 363 | 375 | 388 | 21.86 |

Holloway Houston Inc. uses a 3, 6 and/or 12 inch diameter pin for testing purposes.

US Patent No: 6,381,939
BASKET RATINGS ALSO AVAILABLE UPON REQUEST. CONTACT US FOR MINIMUM LENGTHS.



<mark>∰Hollowa</mark>y

Phase 2 Grommet

Part #: HI-CAP2

Phase 2 Grommet (Two-Part) (Working Load Limits Are in Tons of 2000 Lbs.)

Working Load Limit @ 5:1 Design Factor





| Component Rope | | | Dia | meter o | f Pin, Sł | nackle E | Bail, Trur | nnion, E | tc. (inch | es) | | | Minimum length |
|-------------------|------|------|------|---------|-----------|----------|------------|----------|-----------|-------|-------|-------|-------------------|
| Dia. (inches) | 3.00 | 3.50 | 4.00 | 4.50 | 6.00 | 8.00 | 10.00 | 12.00 | 16.00 | 20.00 | 24.00 | 30.00 | (Ft) |
| 1.50 | 54 | 56 | 58 | 59 | 63 | 65 | 68 | 70 | 72 | 74 | 75 | 76 | 3.50 |
| 1.75 | 69 | 72 | 74 | 77 | 81 | 85 | 88 | 91 | 95 | 97 | 99 | 101 | 4.08 |
| 2.00 | 87 | 92 | 95 | 98 | 105 | 111 | 114 | 117 | 123 | 127 | 129 | 132 | 4.66 |
| 2.25 | 99 | 105 | 110 | 113 | 122 | 129 | 134 | 137 | 144 | 148 | 152 | 155 | 5.25 |
| 2.50 | 117 | 124 | 130 | 135 | 146 | 155 | 162 | 166 | 173 | 180 | 184 | 189 | 6.01 |
| 2.75 | 135 | 144 | 152 | 158 | 171 | 183 | 191 | 197 | 206 | 213 | 219 | 225 | 6.81 |
| 3.00 | 154 | 165 | 174 | 182 | 199 | 213 | 223 | 231 | 241 | 249 | 256 | 264 | 7.43 |
| 3.50 | | 204 | 217 | 228 | 252 | 273 | 287 | 297 | 312 | 322 | 331 | 343 | 8.67 |
| 4.00 | | | 260 | 274 | 307 | 336 | 355 | 369 | 390 | 403 | 413 | 429 | 10.2 |
| 4.50 | | | | 320 | 362 | 400 | 425 | 444 | 470 | 488 | 501 | 518 | 11.48 |
| 6.00 | | | | | 500 | 566 | 612 | 646 | 693 | 726 | 750 | 776 | 15.74 |

Holloway Houston Inc. uses a 3, 6 and/or 12 inch diameter pin for testing purposes.

US Patent No: 6.381.939 BASKET RATINGS ALSO AVAILABLE UPON REQUEST. CONTACT US FOR MINIMUM LENGTHS.



Synthetic Slings





















Eye & Eye Web Slings

Type 3 & 4 - EE

| Web | No. Plys | Part | Rated | l Capacities i | n Lbs. | Eye |
|-------|----------|---------|----------|----------------|-----------|--------|
| Width | of Web | No. | Vertical | Choker | V. Basket | Length |
| | 1 | EE1-91 | 1,600 | 1,280 | 3,200 | 9" |
| 4.11 | 2 | EE2-91 | 3,100 | 2,480 | 6,200 | 9" |
| 1" | 3 | EE3-91 | 4,100 | 3,300 | 8,200 | 12" |
| | 4 | EE4-91 | 6,200 | 4,960 | 12,400 | 12" |
| | 1 | EE1-92 | 3,100 | 2,480 | 6,200 | 9" |
| 2" | 2 | EE2-92 | 6,200 | 4,960 | 12,400 | 9" |
| 2 | 3 | EE3-92 | 8,300 | 6,600 | 16,600 | 12" |
| | 4 | EE4-92 | 12,400 | 9,920 | 24,800 | 12" |
| | 1 | EE1-93 | 4,650 | 3,720 | 9,300 | 9" |
| 0" | 2 | EE2-93 | 9,300 | 7,440 | 18,600 | 12" |
| 3" | 3 | EE3-93 | 12,500 | 10,000 | 25,000 | 18" |
| | 4 | EE4-93 | 18,600 | 14,880 | 37,200 | 18" |
| | 1 | EE1-94 | 6,200 | 4,960 | 12,400 | 12" |
| 4" | 2 | EE2-94 | 11,000 | 8,800 | 22,000 | 12" |
| 4" | 3 | EE3-94 | 16,000 | 12,800 | 32,000 | 18" |
| | 4 | EE4-94 | 22,000 | 17,600 | 44,000 | 18" |
| | 1 | EE1-96 | 9,300 | 7,440 | 18,600 | 14" |
| C" | 2 | EE2-96 | 16,500 | 13,200 | 33,000 | 14" |
| 6" | 3 | EE3-96 | 23,000 | 18,400 | 46,000 | 20" |
| | 4 | EE4-96 | 33,000 | 26,400 | 66,000 | 20" |
| | 1 | EE1-98 | 12,400 | 9,920 | 24,800 | 18" |
| 8" | 2 | EE2-98 | 22,000 | 17,600 | 44,000 | 18" |
| · · | 3 | EE3-98 | 30,700 | 24,560 | 61,400 | 24" |
| | 4 | EE4-98 | 44,000 | 35,200 | 88,000 | 24" |
| | 1 | EE1-910 | 15,500 | 12,400 | 31,000 | 22" |
| 10" | 2 | EE2-910 | 27,500 | 22,000 | 55,000 | 22" |
| 10 | 3 | EE3-910 | 36,800 | 29,400 | 73,600 | 28" |
| | 4 | EE4-910 | 55,000 | 44,000 | 110,000 | 28" |
| | 1 | EE1-912 | 18,600 | 14,880 | 37,200 | 26" |
| 12" | 2 | EE2-912 | 33,000 | 26,400 | 66,000 | 26" |
| 12 | 3 | EE3-912 | 44,000 | 35,200 | 88,000 | 32" |
| | 4 | EE4-912 | 66,000 | 52,800 | 132,000 | 32" |

Type 3 E&E web slings have a flat eye and are easier to remove from beneath a load.



Type 4 E&E web slings have twisted eyes that fit better in the bowl of a hook and work better in a choker hitch.





Type 3 & 4 web slings are tapered at 3" and wider unless otherwise specified.

Type 4 twisted eye slings are generally furnished unless otherwise specified.

Slings are available in nylon or polyester webbing.

Minimum 5:1 design factor.

Do not exceed rated capacities. The ratings must be reduced when lifting at angles of less than 90 degrees with the horizontal.



Endless Web Slings

Type 5 - EN

| Web | Part | Rated | l Capacities i | n Lbs. |
|-------|---------|----------|----------------|-----------|
| Width | No. | Vertical | Choker | V. Basket |
| | EN1-91 | 3,200 | 2,560 | 6,400 |
| 1" | EN2-91 | 6,200 | 4,960 | 12,400 |
| | EN3-91 | 9,300 | 7,440 | 18,600 |
| | EN4-91 | 12,400 | 9,920 | 24,800 |
| | EN1-92 | 6,200 | 4,960 | 12,400 |
| 2" | EN2-92 | 12,400 | 9,920 | 24,800 |
| 2 | EN3-92 | 18,600 | 14,880 | 37,200 |
| | EN4-92 | 22,800 | 18,240 | 45,600 |
| | EN1-93 | 9,300 | 7,440 | 18,600 |
| 3" | EN2-93 | 18,600 | 14,880 | 37,200 |
| 3 | EN3-93 | 27,900 | 22,320 | 55,800 |
| | EN4-93 | 34,400 | 27,520 | 68,800 |
| | EN1-94 | 12,400 | 9,920 | 24,800 |
| 4" | EN2-94 | 22,000 | 17,600 | 44,000 |
| 4 | EN3-94 | 34,400 | 27,520 | 68,800 |
| | EN4-94 | 45,800 | 36,640 | 91,600 |
| | EN1-96 | 18,600 | 14,880 | 37,200 |
| 6" | EN2-96 | 33,000 | 26,400 | 66,000 |
| 0 | EN3-96 | 51,600 | 41,280 | 103,200 |
| | EN4-96 | 66,000 | 52,800 | 132,000 |
| | EN1-98 | 22,000 | 17,600 | 44,000 |
| 8" | EN2-98 | 44,000 | 35,200 | 88,000 |
| U | EN3-98 | 68,800 | 55,000 | 137,600 |
| | EN4-98 | 105,000 | 84,000 | 210,000 |
| | EN1-910 | 27,500 | 22,000 | 55,000 |
| 10" | EN2-910 | 55,000 | 44,000 | 110,000 |
| 10 | EN3-910 | 86,000 | 68,800 | 172,000 |
| | EN4-910 | 114,700 | 91,760 | 229,400 |
| | EN1-912 | 33,000 | 26,400 | 66,000 |
| 12" | EN2-912 | 66,000 | 52,800 | 132,000 |
| 12 | EN3-912 | 103,300 | 82,640 | 106,600 |
| | EN4-912 | 137,600 | 110,080 | 275,200 |

Combining strength and versatility, endless slings are the most cost-effective general-purpose web slings available.



Slings are available in nylon or polyester webbing.

Minimum 5:1 design factor.

Do not exceed rated capacities. The ratings must be reduced when lifting at angles of less than 90 degrees with the horizontal.

Common Sling Hitches

Hitch

Vertical







Basket Hitch



Reversed Eye Web Slings

Type 6 - RE

| Web | Part | Rated | Capacities in | n Lbs. | Material | Eye |
|-------|---------|----------|---------------|-----------|-----------|--------|
| Width | No. | Vertical | Choker | V. Basket | Size | Length |
| | RE1-91 | 4,600 | 3,680 | 9,200 | 1" 9800 | 9" |
| | RE2-91 | 7,700 | 6,160 | 15,400 | 1" 9800 | 9" |
| 2" | RE3-91 | 11,550 | 9,240 | 23,100 | 1" 9800 | 9" |
| | RE4-91 | 11,600 | 9,280 | 23,200 | 1" 9800 | 9" |
| | RE1-915 | 6,900 | 5,520 | 13,800 | 1.5" 9800 | 12" |
| | RE2-915 | 11,600 | 9,120 | 23,200 | 1.5" 9800 | 12" |
| 3" | RE3-915 | 17,250 | 13,800 | 34,500 | 1.5" 9800 | 12" |
| | RE4-915 | 17,400 | 13,920 | 34,800 | 1.5" 9800 | 12" |
| | RE1-92 | 8,600 | 6,880 | 17,200 | 2" 9800 | 18" |
| | RE2-92 | 14,500 | 11,600 | 29,000 | 2" 9800 | 18" |
| 4" | RE3-92 | 20,400 | 16,320 | 40,800 | 2" 9800 | 18" |
| | RE4-92 | 23,000 | 18,400 | 46,000 | 2" 9800 | 18" |
| | RE1-93 | 12,000 | 9,600 | 24,000 | 3" 9800 | 14" |
| | RE2-93 | 17,400 | 13,920 | 34,800 | 3" 9800 | 18" |
| 6" | RE3-93 | 26,500 | 21,200 | 53,000 | 3" 9800 | 20" |
| | RE4-93 | 34,000 | 27,200 | 68,000 | 3" 9800 | 24" |



Abrasion-resistant Cordura wear pads cover the eyes and side of the body, giving extra protection to prevent wear.

Slings are available in nylon or polyester webbing.

Minimum 5:1 design factor.

Do not exceed rated capacities. The ratings must be reduced when lifting at angles of less than 90 degrees with the horizontal.

Reversed eye slings are the most durable web slings available.

They provide superior performance in heavy-duty and abrasive applications.

They work well in all three hitch configurations.



Choker & Basket Sling

Type 1 Choker Sling

| Web | Alloy | Forged | Rated | d Capacities in | Lbs. |
|-------|----------|----------|----------|-----------------|-----------|
| Width | Steel | Aluminum | Vertical | Choker | V. Basket |
| | CHS1-92 | CHA1-92 | 3,100 | 2,480 | 6,200 |
| 0" | CHS2-92 | N/A | 6,200 | 4,960 | 12,400 |
| 2" | CHS3-92 | N/A | 8,300 | 6,600 | 16,600 |
| | CHS4-92 | N/A | 12,400 | 9,920 | 24,800 |
| | CHS1-93 | CHA1-93 | 4,650 | 3,720 | 9,300 |
| o" | CHS2-93 | N/A | 9,300 | 7,440 | 18,600 |
| 3" | CHS3-93 | N/A | 12,500 | 10,000 | 25,000 |
| | CHS4-93 | N/A | 18,600 | 14,880 | 37,200 |
| | CHS1-94 | CHA1-94 | 6,200 | 4,960 | 12,400 |
| | CHS2-94 | N/A | 11,000 | 8,800 | 22,000 |
| 4" | CHS3-94 | N/A | 16,000 | 12,800 | 32,000 |
| | CHS4-94 | N/A | 22,000 | 17,600 | 44,000 |
| | CHS1-96 | CHA1-96 | 9,300 | 7,440 | 18,600 |
| 0" | CHS2-96 | N/A | 16,500 | 13,200 | 33,000 |
| 6" | CHS3-96 | N/A | 23,000 | 16,400 | 46,000 |
| | CHS4-96 | N/A | 33,000 | 26,400 | 66,000 |
| | CHS1-98 | N/A | 12,400 | 9,920 | 24,800 |
| 011 | CHS2-98 | N/A | 22,000 | 17,600 | 44,000 |
| 8" | CHS3-98 | N/A | 30,700 | 24,500 | 61,400 |
| | CHS4-98 | N/A | 44,000 | 35,200 | 88,000 |
| | CHS1-910 | N/A | 15,500 | 12,400 | 31,000 |
| | CHS2-910 | N/A | 27,500 | 22,000 | 55,000 |
| 10" | CHS3-910 | N/A | 36,800 | 29,400 | 73,600 |
| | CHS4-910 | N/A | 55,000 | 44,000 | 110,000 |
| | CHS1-912 | N/A | 18,600 | 14,880 | 37,200 |
| 40" | CHS2-912 | N/A | 33,000 | 26,400 | 66,000 |
| 12" | CHS3-912 | N/A | 44,000 | 35,200 | 88,000 |
| | CHS4-912 | N/A | 66,000 | 52,800 | 132,000 |



Metal hardware prolongs the life of slings prone to damage on the end of the sling.

Slings are available in nylon or polyester webbing.

Minimum 5:1 design factor.

Do not exceed rated capacities. The ratings must be reduced when lifting at angles of less than 90 degrees with the horizontal.

Type 2 Basket Sling

| Web | Alloy | Forged Aluminum | Rated Capa | cities in Lbs. |
|-------|----------|--------------------|------------|----------------|
| Width | Steel | Aluminum | Vertical | V. Basket |
| | BHS1-92 | BHA1-92 | 3,100 | 6,200 |
| 0" | BHS2-92 | N/A | 6,200 | 12,400 |
| 2" | BHS3-92 | N/A | 8,300 | 16,600 |
| | BHS4-92 | N/A | 12,400 | 24,800 |
| | BHS1-93 | BHA1-93 | 4,650 | 9,300 |
| 0.11 | BHS2-93 | N/A | 9,300 | 18,600 |
| 3" | BHS3-93 | N/A | 12,500 | 25,000 |
| | BHS4-93 | N/A | 18,600 | 37,200 |
| | BHS1-94 | BHA1-94 | 6,200 | 12,400 |
| 4.11 | BHS2-94 | N/A | 11,000 | 22,000 |
| 4" | BHS3-94 | N/A | 16,000 | 32,000 |
| | BHS4-94 | N/A | 22,000 | 44,000 |
| | BHS1-96 | BHA1-96 | 9,300 | 18,600 |
| 6" | BHS2-96 | N/A | 16,500 | 33,000 |
| ь | BHS3-96 | N/A | 23,000 | 46,000 |
| | BHS4-96 | N/A | 33,000 | 66,000 |
| | BHS1-98 | N/A | 12,400 | 24,800 |
| 0" | BHS2-98 | N/A | 22,000 | 44,000 |
| 8" | BHS3-98 | N/A | 30,700 | 61,400 |
| | BHS4-98 | N/A | 44,000 | 88,000 |
| | BHS1-910 | N/A | 15,500 | 31,000 |
| | BHS2-910 | N/A | 27,500 | 55,000 |
| 10" | BHS3-910 | N/A | 36,800 | 73,600 |
| | BHS4-910 | N/A | 55,000 | 110,000 |
| | BHS1-912 | N/A | 18,600 | 37,200 |
| 10" | BHS2-912 | N/A | 33,000 | 66,000 |
| 12" | BHS3-912 | N/A | 44,000 | 88,000 |
| | BHS4-912 | N/A | 66,000 | 132,000 |



Fittings available in forged aluminum or alloy steel.

Slings are available in nylon or polyester webbing.

Minimum 5:1 design factor.

Do not exceed rated capacitities.



Custom Synthetics



Velcro Sleeve Wear Pad Available In Nylon, Leather, Polyester And Cordura



Sliding Sleeve Wear Pad Available In Nylon, Leather, Polyester And Cordura



Nylon Sliding Sleeve Wear Pad With Leather On One Side Only



Spectra Sliding Sleeve Wear Pad



Chain Saver Wear Pad



Tiedown Ratchet J Hook



Tiedown Ratchet Flat Hook



Fork Lift Pad Protector



Cargo Basket Sling



Multileg Roundsling



Bridle Web Sling Available In Nylon And Polyester (1 To 4 Legs)



Steel Coil Sling

Roundslings

HHERS & HHEER

Rated Capacities in Lbs.

| Part No. | Part No. | Color Code | Vertical | Choker | Vertical Basket | Minimum Length | Body Dia | Approx. Weight Per Foot |
|-------------|-------------|---------------|----------|--------|--------------------|-------------------|-------------|-------------------------------|
| HHERS1 | HHEER1 | Purple | 2,600 | 2,100 | 5,200 | 2' | 0.71 | 0.3 LB |
| HHERS2 | HHEER2 | Green | 5,300 | 4,200 | 10,600 | 2' | 0.83 | 0.386 LB |
| HHERS3 | HHEER3 | Yellow | 8,400 | 6.700 | 16,800 | 2' | 1.03 | 0.64 LB |
| HHERS4 | HHEER4 | Tan | 10,600 | 8,500 | 21,200 | 2' | 1.11 | 0.75 LB |
| HHERS5 | HHEER5 | Red | 13,200 | 10,600 | 26,400 | 2' | 1.27 | 0.95 LB |
| HHERS6 | HHEER6 | White | 16,800 | 13,400 | 33,600 | 3' | 1.35 | 1.04 LB |
| HHERS7 | HHEER7 | Blue | 21,200 | 17,000 | 42,400 | 3' | 1.59 | 1.29 LB |
| HHERS8 | HHEER8 | Orange | 25,000 | 20,000 | 50,000 | 3' | 1.75 | 1.65 LB |
| HHERS9 | HHEER9 | Orange | 31,000 | 24,800 | 62,000 | 3' | 1.83 | 2 LB |
| HHERS10 | HHEER10 | Orange | 40,000 | 32,000 | 80,000 | 3' | 2.07 | 2.4 LB |
| HHERS11 | HHEER11 | Orange | 53,000 | 42,400 | 106,000 | 5' | 2.30 | 3 LB |
| HHERS12 | HHEER12 | Green/Black | 66,000 | 52,800 | 132,000 | 5' | 2.70 | 4 LB |
| HHERS13 | HHEER13 | Green/Black | 90,000 | 72,000 | 180,000 | 5' | 3.18 | 4.9 LB |
| HHERS14 | HHEER14 | Green/Black | 100,000 | 80,000 | 200,000 | 5' | 3.26 | 5.3 LB |

^{*}Larger Capacities Available Upon Request

For extra protection and increased durability, eye and eye roundslings are fabricated by encasing the body of an endless sling within a heavy-duty tubular Cordura sleeve.

5:1 design factor





HHERS Endless Roundslings



HHEER Eye And Eye Roundslings



Ask us about our water resistant cover.

Braided Roundslings



6-Part Braids

HH6BR

| Part Colo | Color | Rate | d Capacities in | Lbs. | Minimum | Standard Eye | Body | Approx. Weight |
|-----------|----------|----------|-----------------|--------------------|---------|-----------------|--------|-------------------|
| No. | No. Code | Vertical | Choker | Vertical Basket | Length | Length | Width | Per Foot |
| HH6BR1 | Purple | 6,700 | 5,300 | 13,400 | 5' | 14" | 3.25" | 1.10 LB |
| HH6BR2 | Green | 13,500 | 10,800 | 27,000 | 5' | 15" | 3.75" | 1.45 LB |
| HH6BR3 | Yellow | 21,400 | 17,100 | 42,800 | 6' | 18" | 4.25" | 1.90 LB |
| HH6BR4 | Tan | 27,000 | 21,600 | 54,000 | 6' | 18" | 4.50" | 2.25 LB |
| HH6BR5 | Red | 33,600 | 26,800 | 67,200 | 7' | 25" | 5.25" | 3.00 LB |
| HH6BR6 | White | 42,800 | 34,200 | 85,600 | 7' | 25" | 5.50" | 3.50 LB |
| HH6BR7 | Blue | 54,000 | 43,200 | 108,000 | 9' | 30" | 6.63" | 4.95 LB |
| HH6BR8 | Orange | 63,700 | 50,900 | 127,400 | 10' | 33" | 8.25" | 6.00 LB |
| HH6BR9 | Orange | 79,000 | 63,200 | 158,000 | 10' | 38" | 11.00" | 7.75 LB |

8-Part Braids

HH8BR

| Part Color No. | Color | Rate | d Capacities ir | n Lbs. | Minimum | Standard | Body | Approx. Weight |
|----------------|----------|---------|--------------------|---------|---------------|----------|----------|-------------------|
| | Vertical | Choker | Vertical Basket | Length | Eye Length | Width | Per Foot | |
| HH8BR1 | Purple | 9,000 | 7,200 | 18,000 | 5' | 14" | 3.50" | 1.40 LB |
| HH8BR2 | Green | 18,000 | 14,400 | 36,000 | 5' | 15" | 4.00" | 1.85 LB |
| HH8BR3 | Yellow | 28,500 | 22,800 | 57,000 | 6' | 18" | 4.75" | 2.40 LB |
| HH8BR4 | Tan | 36,000 | 28,800 | 72,000 | 6' | 18" | 5.00" | 2.85 LB |
| HH8BR5 | Red | 44,900 | 35,900 | 89,800 | 7' | 25" | 6.00" | 3.80 LB |
| HH8BR6 | White | 57,100 | 45,600 | 114,200 | 7' | 25" | 6.25" | 4.40 LB |
| HH8BR7 | Blue | 72,000 | 57,600 | 144,000 | 9' | 30" | 7.50" | 6.25 LB |
| HH8BR8 | Orange | 85,000 | 68,000 | 170,000 | 10' | 33" | 9.50" | 7.60 LB |
| HH8BR9 | Orange | 105,300 | 84,200 | 210,600 | 10' | 38" | 13.00" | 9.75 LB |



Braided roundslings achieve high working load limits without sacrificing the light weight and flexibility offered by the rest of our roundsling line.

Python Pipe Restraint



An uncontrolled flow line rupture can wreak havoc on your project site. The high-pressure explosion will not only destroy your equipment but may also result in serious injuries or even fatalities. One of the best ways to avoid these circumstances is to use pipe restrain slings.

Holloway Houston brings you the best-quality Python Pipe Restraint Slings. This simple piece of engineering can minimize the risk of pipe ruptures and potential injuries. Now available in customized colors and specifications, these slings can be used for a wide range of piping and pumping applications.

General Features:

- Specially designed to control the piping, in case of a high-pressure eruption.
- Manufactured as per the latest safety and manufacturing standards.
- High strength suitable for applications under high pressure and temperature.
- Flexible and lightweight design reduces ergonomic concerns.
- Color-coded for easy usage.
- Easy to maintain.

Python Pipe Restraint Light Duty Red Sling

- 2" Max Pressure 15.000 PSI
- 3" Max Pressure 8,000 PSI
- 4" Max Pressure 5,000 PSI

Python Pipe Restraint Medium Duty Blue Sling

- 2" Max Pressure 20,000 PSI
- 3" Max Pressure 15,000 PSI
- 4" Max Pressure 10,000 PSI

Python Pipe Restraint Heavy Duty Orange Sling

- 2" Max Pressure 20.000 PSI
- 3" Max Pressure 20,000 PSI
- 4" Max Pressure 15,000 PSI











Inspection, Care, & Use of Synthetic Slings



REMOVAL FROM SERVICE:

- 1. If rated capacity tag is missing or not readable.
- 2. Acid or alkali burns.
- 3. Melting, charring, or weld splatter of any part of the sling.
- 4. Holes, tears, cuts, snags, or imbedded particles.
- 5. Broken or worn stitches.
- 6. Excessive abrasive wear.
- 7. Knots in any part of the sling.
- 8. Distortion, excessive pitting, corrosion, or broken fittings.
- Any conditions which cause doubt as to the strength of the sling.

OPERATING PRACTICES:

- Determine weight of the load. The weight of the load shall be within the rated capacity of the sling.
- 2 Select sling having suitable characteristics for the type of load, hitch, & environment.
- Slings shall not be loaded in excess of the rated capacity. Consideration shall be given to the sling load angle, which affects rated capacity. (See load factor chart.)
- Slings with fittings, when used as a choker hitch, shall be of sufficient length to assure that the choking action is on the sling and never on a fitting.
- 5 Slings used in a basket hitch shall have the load balanced to prevent slippage.
- The opening in fittings shall be the proper shape and size to insure that the fitting will seat properly in the hook or other attachments.
- 7 Slings shall always be protected from being cut by sharp corners and edges, protrusions, and abrasive surfaces.
- 8 Slings shall not be dragged on the floor or over abrasive surfaces.
- 9 Slings shall not be twisted, tied into knots, or joined by knotting.
- 10 Slings shall not be pulled from under loads if the load is resting on the sling.
- 11 Do not drop slings equipped with fittings.
- 12 Slings that appear to be damaged shall not be used unless inspected & accepted.
- The sling shall be hitched in a manner providing control of the load.
- All parts of the body shall be kept from between the sling and the load, as well as from between the sling and the crane or hoist hook.
- 15 Personnel shall stand clear of the suspended load.
- 16 Personnel shall not ride the sling.
- 17 Shock loading shall be avoided.
- 18 Twisting and kinking the legs (branches) shall be avoided.
- 19 Load applied shall be centered in the base (bowl) of hook to prevent point loading of the hook.
- During lifting, with or without the load, personnel shall be alert for possible snagging.

- The slings' legs shall contain or support the load from the sides above the center of gravity when using a basket hitch.
- Slings shall be long enough that the rated capacity of the sling is adequate when the angle of the legs is considered (see load chart).
- Place block under load prior to setting down the load to allow removal of the sling, if applicable.
- 24 Synthetic slings shall not be used at temperatures above 194 degrees F.
- Exposure to sun or ultraviolet light degrades slings. Store slings in a cool, dry, & dark place when not in use.

INSPECTION

A. Initial Inspection

Before any new or repaired sling is placed in service, it shall be inspected by a designated person to ensure that the correct sling is being used and to determine that the sling meets the requirements of this specification and has not been damaged in shipment.

B. Frequent Inspection

This inspection shall be made by a qualified person handling the sling each time the sling is used.

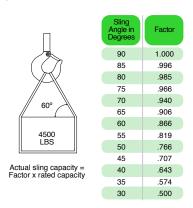
C. Periodic Inspection

This inspection shall be conducted by designated personnel. Frequency of inspection should be based on:

- 1. Frequency of sling use
- 2. Severity of service conditions
- 3. Experience gained on the service life of slings used in similar applications
- Periodic inspections should be conducted at least monthly

Sling Angle and Sling Load Chart

Sling Angle is the angle measured between a horizontal line and the sling leg or body. The angle is very important and can have a dramatic effect on the rated capacity of the sling. As illustrated, when this angle decreases, the load on each leg increases. This principle applies whether the sling is used to pull at an angle, in a basket hitch, or in multi-legged bridle slings. This data is only for equally loaded sling legs. Sling angles of less than 30 degrees are not recommended.



Additional requirements and safe operating practices are outlined in current OSHA and ASNI/ASME B30.9 and/or other regulations as applicable.

Silverback HHIperLift Slings



The Silverback HHIperlift family of roundslings made with HMPE fibers is part of a series of new-generation lifting tools utilizing space-age materials and high-tech design methodologies.

- High Specific Modulus Excellent for Lifting and Mooring in Ultra-Deep Water
- Highly Cut-Resistant
- ➤ Resists Prolonged Saltwater Immersion 100% Proof-Tested and More

HHlperLift Roundsling General and Technical Data

High Contact Rigging Efficiency (HCRE)

Silverback roundslings provide exceptional rigging efficiency when compared to traditional materials like wire rope, braided rope, and standard roundslings, which often necessitate larger and inflexible diameters for their lifting capacity.

The key advantage of Silverback over braided or helically laid stranded yarn lies in its unique oversized triple cover with parallel laid yarn. This design allows for easy reshaping of the slings, ensuring optimal fit on various load-bearing surfaces.

Silverback slings maximize contact between lifting fibers and the pin, enabling the use of smaller shackles. By reducing the thickness of the fiber bundle in contact with the lifting area, the necessary 3:1 D/d ratio is maintained, enhancing safety and performance.

Ratings and Design Factors:

HHIperLift roundslings are rated in metric tons.

The design factor is 5:1 (Ultimate = $5 \times rated load$).

Exceeding rated capacity is not recommended.



Silverback HHlperLift Slings

Characteristics and Advantages:

- Significantly Stronger: Up to 40% greater specific strength than aramid fibers (like Technora or Kevlar) with exceptional toughness and durability.
- Lightweight: Silverback roundslings are easily manipulated without specialized equipment or work-rated ROVs. A 15-foot, 75-ton vertical sling weighs under 75 pounds.
- ➤ Minimal Elongation: Maximum 3.8% elongation at breaking load.
- Buoyant: Lightweight, with a density of 0.97 g/ cc, Silverback slings tend to remain stable in deep water.
- Saltwater Durability: Extensive testing shows no reduction in lifting capacity after 6 months of saltwater immersion and only 1-2% loss after 12 months.
- Fatigue Resistant: Maintains performance under repeated stress.
- Superior Damping: Effectively absorbs vibrations, shocks, and impacts; withstands high-load strain rates.
- ► High Specific Modulus: Ideal for ultra-deep water lifting and mooring, with exceptional high-pressure resistance.
- ➤ Chemical Resistant: Withstands exposure to various chemicals.
- ► UV Resistant: Maintains performance under sunlight exposure.
- Highly Cut-Resistant: Resists damage from sharp edges.
- ▶ Rigorous Standards: Our slings are meticulously fabricated and load tested at our Houston facility, ensuring the highest quality and adherence to strict safety standards. Silverback slings adhere to API-Q1 standards for design, calculation, and large sample testing, ensuring top-tier quality and reliability.



Silverback HHIperLift Slings



HHI proof-tests and certifies 100% of our HHiperLift slings before delivery:

- All slings are serialized with copies of certification maintained by HHI and available on HHI's website.
- ► HHI's triple cover system enhances durability and is designed to reduce both cover abrasion and exterior damage.

ROV Markings Available:

f 🕝 in 🗖

Upon request, prior to fabrication, ROV connection and handling points can be indicated on the slings using high contrast cover material versus a more neutral background for the body of the sling.

Use and Care

Silverback roundslings should be used in accordance with OSHA roundsling guidelines. While the core fibers of Silverback slings offer exceptional cut resistance, the outer protective layers can be more susceptible to damage and should be handled with care.

Optional Spectra* Cover Material

Available in lieu of a traditional three-material cover for use in area prone to extreme abrasion and/or sharp edges, our Spectra® cover offers much improved cut and abrasion resistance.

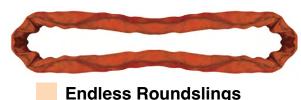
Silverback HHIperLift Slings

HH-SB & HH-SBE

| HHI Part Number Endless Roundslings | HHI Part Number Eye and Eye Roundslings | Vertical WLL in M Ton | Choker Hitch WLL in M Ton | Vertical Basket WLL in M Ton | Approx. Wgt/Ft Length (lbs.) | Recomm. Wide Body Shackles | Body Dia |
|--|--|-----------------------------|------------------------------------|---------------------------------------|---------------------------------------|----------------------------------|-------------|
| HH-18T-SB | HH-18T-SBE | 18t | 14.4t | 36t | .74 | 18t | 1.27 |
| HH-25T-SB | HH-25T-SBE | 25t | 20t | 50t | 1.04 | 30t | 1.59 |
| HH-50T-SB | HH-50T-SBE | 50t | 40t | 100t | 2.09 | 55t | 2.22 |
| HH-75T-SB | HH-75T-SBE | 75t | 60t | 150t | 3.19 | 75t | 2.78 |
| HH-100T-SB | HH-100T-SBE | 100t | 80t | 200t | 4.16 | 125t | 3.34 |
| HH-125T-SB | HH-125T-SBE | 125t | 100t | 250t | 5.20 | 125t | 3.89 |
| HH-150T-SB | HH-150T-SBE | 150t | 120t | 300t | 6.24 | 150t | 4.13 |
| HH-175T-SB | HH-175T-SBE | 175t | 140t | 350t | 7.32 | 200t | 4.54 |
| HH-200T-SB | HH-200T-SBE | 200t | 160t | 400t | 8.44 | 200t | 4.74 |
| HH-225T-SB | HH-225T-SBE | 225t | 180t | 450t | 9.49 | 250t | 5.25 |
| HH-250T-SB | HH-250T-SBE | 250t | 200t | 500t | 10.53 | 250t | 5.50 |
| HH-275T-SB | HH-275T-SBE | 275t | 220t | 550t | 11.56 | 300t | 5.75 |
| HH-300T-SB | HH-300T-SBE | 300t | 240t | 600t | 12.62 | 300t | 6.10 |
| HH-350T-SB | HH-350T-SBE | 350t | 280t | 700t | 12.83 | 400t | 7.16 |
| HH-400T-SB | HH-400T-SBE | 400t | 320t | 800t | 16.79 | 400t | 7.48 |
| HH-450T-SB | HH-450T-SBE | 450t | 360t | 900t | 18.86 | 500t | 8.43 |
| HH-500T-SB | HH-500T-SBE | 500t | 400t | 1,000t | 20.95 | 500t | 8.91 |

*Larger Capacities Available upon Request

⁻Sling ratings are based on the use of a standard wide body shackle or equivalent bearing surface with equal or greater capacity.











⁻Silverback slings feature a triple-layer DuraFab cover with parallel laid yarn, maximizing contact efficiency for optimal rigging. They boast a 5:1 design factor, ensuring a rated capacity that prioritizes safety.

⁻These slings offer minimal elongation, excellent fatigue and cut resistance, and good UV resistance, making them ideal for demanding applications.

HMPE Slings Eye & Eye



| HHI PART NUMBER | Nominal Diameter | Size # (Circ.) | Approx. Wgt Rope | Working Load Limit Vertical | Sling Minimum Tensile Strength Vertical |
|--------------------|---------------------|----------------|---------------------|--------------------------------------|---|
| | Inches | Inches | Lbs/FT | Pounds | Pounds |
| HH-11-EEP | 7/16" | 1-1/4" | 0.042 | 4,200 | 21,000 |
| HH-12-EEP | 1/2" | 1-1/2" | 0.064 | 6,260 | 31,300 |
| HH-14-EEP | 9/16" | 1-3/4" | 0.079 | 7,580 | 37,900 |
| HH-16-EEP | 5/8" | 2" | 0.106 | 10,280 | 51,400 |
| HH-18-EEP | 3/4" | 2-1/4" | 0.133 | 13,700 | 68,500 |
| HH-22-EEP | 7/8" | 2-3/4" | 0.196 | 18,520 | 92,600 |
| HH-24-EEP | 1" | 3" | 0.234 | 22,000 | 110,000 |
| HH-28-EEP | 1-1/8" | 3-1/2" | 0.319 | 29,400 | 147,000 |
| HH-30-EEP | 1-1/4" | 3-3/4" | 0.362 | 33,000 | 165,000 |
| HH-32-EEP | 1-5/16" | 4" | 0.417 | 39,200 | 196,000 |
| HH-36-EEP | 1-1/2" | 4-1/2" | 0.517 | 44,200 | 221,000 |
| HH-40-EEP | 1-5/8" | 5" | 0.66 | 58,200 | 291,000 |
| HH-44-EEP | 1-3/4" | 5-1/2" | 0.78 | 62,800 | 314,000 |
| HH-48-EEP | 2" | 6" | 0.91 | 71,000 | 355,000 |
| HH-52-EEP | 2-1/8" | 6-1/2" | 1.09 | 85,600 | 428,000 |
| HH-56-EEP | 2-1/4" | 7" | 1.22 | 96,200 | 481,000 |
| HH-60-EEP | 2-1/2" | 7-1/2" | 1.48 | 106,000 | 530,000 |
| HH-64-EEP | 2-5/8" | 8" | 1.67 | 119,200 | 596,000 |
| HH-68-EEP | 2-3/4" | 8-1/2" | 1.87 | 132,000 | 660,000 |
| HH-72-EEP | 3" | 9" | 2.14 | 156,000 | 780,000 |
| HH-76-EEP | 3-1/8" | 9-1/2" | 2.35 | 170,000 | 850,000 |
| HH-80-EEP | 3-1/4" | 10" | 2.61 | 188,000 | 940,000 |
| HH-84-EEP | 3-1/2" | 10-1/2" | 2.98 | 221,600 | 1,108,000 |
| HH-88-EEP | 3-5/8" | 11" | 3.24 | 250,000 | 1,250,000 |
| HH-92-EEP | 3-3/4" | 11-1/2" | 3.43 | 263,400 | 1,317,000 |
| HH-96-EEP | 4" | 12" | 3.94 | 304,000 | 1,520,000 |
| HH-100-EEP | 4-1/8" | 12-1/2" | 4.57 | 324,400 | 1,622,000 |
| HH-104-EEP | 4-1/4" | 13" | 5.14 | 339,400 | 1,697,000 |
| HH-108-EEP | 4-1/2" | 13-1/2" | 5.3 | 365,400 | 1,827,000 |
| HH-112-EEP | 4-5/8" | 14" | 5.46 | 376,000 | 1,880,000 |
| HH-116-EEP | 4-3/4" | 14-1/2" | 5.87 | 385,400 | 1,927,000 |
| HH-120-EEP | 5" | 15" | 6.06 | 413,900 | 2,069,500 |
| HH-124-EEP | 5-1/8" | 15-1/2" | 6.57 | 442,400 | 2,212,000 |
| HH-128-EEP | 5-1/4" | 16" | 7.03 | 471,000 | 2,355,000 |
| HH-136-EEP | 5-1/2" 5-5/8" | 16-1/2" 17" | 7.49 8.13 | 499,500 528,000 | 2,497,500 |
| HH-140-EEP | 5-3/4" | 17-1/2" | 8.71 | 556,500 | 2,640,000 2,782,500 |
| HH-144-EEP | 5-3/4 6" | 17-1/2 | 9.32 | 585,000 | 2,762,500 |
| HH-148-EEP | 6-1/8" | 18-1/2" | 9.85 | 613,600 | 3,068,000 |
| HH-152-EEP | 6-1/4" | 19" | 10.38 | 642,100 | 3,210,500 |
| HH-156-EEP | 6-1/4" | 19-1/2" | 11.03 | 670,600 | 3,353,000 |
| HH-160-EEP | 6-5/8" | 20" | 11.59 | 699,200 | 3,496,000 |
| HH-164-EEP | 6-3/4" | 20-1/2" | 12.27 | 727,700 | 3,638,500 |
| HH-168-EEP | 7" | 21" | 12.84 | 756,200 | 3,781,000 |
| HH-172-EEP | 7-1/8" | 21-1/2" | 13.34 | 792,700 | 3,963,500 |
| HH-176-EEP | 7-1/4" | 22" | 13.92 | 813,200 | 4,066,000 |
| HH-180-EEP | 7-1/2" | 22-1/2" | 14.52 | 841,800 | 4,209,000 |
| HH-184-EEP | 7-5/8" | 23" | 15.27 | 870,300 | 4,351,500 |
| HH-188-EEP | 7-3/4" | 23-1/2" | 15.89 | 898,800 | 4,494,000 |
| HH-192-EEP | 8" | 24" | 16.53 | 927,400 | 4,637,000 |
| HH-196-EEP | 8-1/8" | 24-1/2" | 17.32 | 955,800 | 4,779,000 |
| HH-200-EEP | 8-1/4" | 25" | 17.98 | 984,400 | 4,922,000 |



Features & **Benefits**

- ·Highest Strength
- Lowest Stretch
- Low Creep
- •Soft Hand
- Torque Free
- ·Easy Splicing
- Floats

Applications

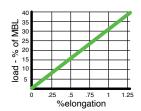
- •Replacement for Wire Rope
- Vessel Mooring
- •Inland River Barge Lines
- Lifting Slings
- Winch Lines
- Aerial Retrieval Lines
- Emergency Tow Packages

Specific gravity 0.98*

284° F (140° C)* Melting point 150° F (65° C)* Critical temp. Coefficient of friction 0.09-0.12-Elongation at break 4%-5%

Fiber water absorption 0% UV resistance moderate Wet abrasion superior Dry abrasion superior

*-value based on date supplied by the fiber manufacturer for new, dry fiber



Tensile Strengths are determined in accordance with Cordage Institute 1500.2.

Minimum Tensile Strength (MTS) published

Assumes spliced terminations. Weight are calculated at linear density under stated preload (200d2) plus 4%.

<-> Design Factor 5:1 <-> Minimum D/d 3:1

HMPE Slings Endless Grommet

HH-EP



| HHI PART NUMBER | Nominal Diameter | Size # (Circ.) | Approx. Wgt Rope | Working Load Limit Vertical | Sling Minimum Tensile Strength Vertical |
|------------------------|---------------------|----------------|---------------------|--------------------------------------|---|
| | Inches | Inches | Lbs/FT | Pounds | Pounds |
| HH-11-EP | 7/16" | 1-1/4" | 0.042 | 6,930 | 34,650 |
| HH-12-EP | 1/2" | 1-1/2" | 0.064 | 10,329 | 51,645 |
| HH-14-EP | 9/16" | 1-3/4" | 0.079 | 12,507 | 62,535 |
| HH-16-EP | 5/8" | 2" | 0.106 | 16,962 | 84,810 |
| HH-18-EP | 3/4" | 2-1/4" | 0.133 | 22,605 | 113,025 |
| HH-22-EP | 7/8" | 2-3/4" | 0.196 | 30,558 | 152,790 |
| HH-24-EP | 1" | 3" | 0.234 | 36,300 | 181,500 |
| HH-28-EP | 1-1/8" | 3-1/2" | 0.319 | 48,510 | 242,550 |
| HH-30-EP | 1-1/4" | 3-3/4" | 0.362 | 54,450 | 272,250 |
| HH-32-EP | 1-5/16" | 4" | 0.417 | 64,680 | 323,400 |
| HH-36-EP | 1-1/2" | 4-1/2" | 0.517 | 72,930 | 364,650 |
| HH-40-EP | 1-5/8" | 5" | 0.66 | 96,030 | 480,150 |
| HH-44-EP | 1-3/4" | 5-1/2" | 0.78 | 103,620 | 518,100 |
| HH-48-EP | 2" | 6" | 0.91 | 117,150 | 585,750 |
| HH-52-EP | 2-1/8" | 6-1/2" | 1.09 | 141,240 | 706,200 |
| HH-56-EP | 2-1/4" | 7" | 1.22 | 158,730 | 793,650 |
| HH-60-EP | 2-1/2" | 7-1/2" | 1.48 | 174,900 | 874,500 |
| HH-64-EP | 2-5/8" | 8" | 1.67 | 196,680 | 983,400 |
| HH-68-EP | 2-3/4" | 8-1/2" | 1.87 | 217,800 | 1,089,000 |
| HH-72-EP | 3" | 9" | 2.14 | 257,400 | 1,287,000 |
| HH-76-EP | 3-1/8" | 9-1/2" | 2.35 | 280,500 | 1,402,500 |
| HH-80-EP | 3-1/4" | 10" | 2.61 | 310,200 | 1,551,000 |
| HH-84-EP | 3-1/2" | 10-1/2" | 2.98 | 365,640 | 1,828,200 |
| HH-88-EP | 3-5/8" | 11" | 3.24 | 412,500 | 2,062,500 |
| HH-92-EP | 3-3/4" | 11-1/2" | 3.43 | 434,610 | 2,173,050 |
| HH-96-EP | 4" | 12" | 3.94 | 501,600 | 2,508,000 |
| HH-100-EP | 4-1/8" | 12-1/2" | 4.57 | 535,260 | 2,676,300 |
| HH-104-EP | 4-1/4" | 13" | 5.14 | 560,010 | 2,800,050 |
| HH-108-EP | 4-1/2" | 13-1/2" 14" | 5.3 | 602,910 | 3,014,550 |
| HH-112-EP | 4-5/8" | | 5.46 | 620,400 | 3,102,000 |
| HH-116-EP HH-120-EP | 4-3/4" 5" | 14-1/2" 15" | 5.87 | 635,910 | 3,179,550 |
| HH-124-EP | 5-1/8" | | 6.06 6.57 | 682,935 729,960 | 3,414,675 3,649,800 |
| HH-128-EP | 5-1/6" | 15-1/2" 16" | 7.03 | 729,900 | 3,885,750 |
| HH-132-EP | 5-1/4" | 16-1/2" | 7.49 | 824,175 | 4,120,875 |
| HH-136-EP | 5-5/8" | 17" | 8.13 | 871,200 | 4,356,000 |
| HH-140-EP | 5-3/4" | 17-1/2" | 8.71 | 918,225 | 4,591,125 |
| HH-144-EP | 6" | 18" | 9.32 | 965,250 | 4,826,250 |
| HH-148-EP | 6-1/8" | 18-1/2" | 9.85 | 1,012,440 | 5,062,200 |
| HH-152-EP | 6-1/4" | 19" | 10.38 | 1,059,465 | 5,297,325 |
| HH-156-EP | 6-1/2" | 19-1/2" | 11.03 | 1,106,490 | 5,532,450 |
| HH-160-EP | 6-5/8" | 20" | 11.59 | 1,153,680 | 5,768,400 |
| HH-164-EP | 6-3/4" | 20-1/2" | 12.27 | 1,200,705 | 6,003,525 |
| HH-168-EP | 7" | 21" | 12.84 | 1,247,730 | 6,238,650 |
| HH-172-EP | 7-1/8" | 21-1/2" | 13.34 | 1,307,955 | 6,539,775 |
| HH-176-EP | 7-1/4" | 22" | 13.92 | 1,341,780 | 6,708,900 |
| HH-180-EP | 7-1/2" | 22-1/2" | 14.52 | 1,388,970 | 6,944,850 |
| HH-184-EP | 7-5/8" | 23" | 15.27 | 1,435,995 | 7,179,975 |
| HH-188-EP | 7-3/4" | 23-1/2" | 15.89 | 1,483,020 | 7,415,100 |
| HH-192-EP | 8" | 24" | 16.53 | 1,530,210 | 7,651,050 |
| HH-196-EP | 8-1/8" | 24-1/2" | 17.32 | 1,577,070 | 7,885,350 |
| HH-200-EP | 8-1/4" | 25" | 17.98 | 1,624,260 | 8,121,300 |



Features & Benefits

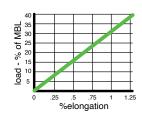
- ·Highest Strength
- Lowest Stretch
- Low Creep
- •Soft Hand
- Torque Free
- ·Easy Splicing
- •Floats

Applications

- •Replacement for Wire Rope
- Vessel Mooring
- •Inland River Barge Lines
- Lifting Slings
- •Winch Lines
- Aerial Retrieval Lines
- •Emergency Tow Packages

Specific gravity 0.98* Melting point Critical temp. 284° F (140° C)* 150° F (65° C)* Coefficient of friction 0.09-0.12-Elongation at break 4%-5% Fiber water absorption 0% UV resistance moderate Wet abrasion superior Dry abrasion superior

 $\mbox{\ensuremath{^{\star}}}\mbox{-value}$ based on date supplied by the fiber manufacturer for new, dry fiber



Tensile Strengths are determined in accordance with Cordage Institute 1500.2.

Minimum Tensile Strength (MTS) published

Assumes spliced terminations . Weight are calculated at linear density under stated preload (200d2) plus 4%.

<-> Design Factor 5:1 <-> Minimum D/d 3:1



Hammerhead Slings







- High Strength
- Light Weight
- Durable
- Repairable
- Low Stretch
- ► 100% Proof Tested

Sling's working load is based on a 5:1 factor of safety.

Rated Capacities in Pounds

| No. | Vertical | Choker 120° or > | Basket 90° | length | Dia. | Sling Dia. | linar foot of sling |
|-----------|----------|---------------------|---------------|--------|--------|------------|------------------------|
| HH-9-EPC | 5,770 | 2,450 | 10,300 | 2' | 3/8" | 1/2" | 0.09 |
| HH-11-EPC | 6,930 | 2,940 | 12,400 | 2' | 7/16" | 9/16" | 0.11 |
| HH-12-EPC | 10,300 | 4,380 | 18,500 | 2' | 1/2" | 11/16" | 0.16 |
| HH-16-EPC | 16,900 | 7,190 | 30,500 | 2' | 5/8" | 7/8" | 0.27 |
| HH-18-EPC | 22,600 | 9,590 | 40,600 | 2' | 3/4" | 1" | 0.33 |
| HH-22-EPC | 30,500 | 12,900 | 55,000 | 2.5' | 7/8" | 1-3/16" | 0.49 |
| HH-24-EPC | 36,300 | 15,400 | 65,300 | 2.5' | 1" | 1-3/8" | 0.59 |
| HH-28-EPC | 48,500 | 20,500 | 87,300 | 3' | 1-1/8" | 1-1/2" | 0.80 |
| HH-30-EPC | 54,400 | 23,100 | 98,000 | 3' | 1-1/4" | 1-5/8" | 0.91 |
| HH-36-EPC | 72,900 | 30,900 | 131,200 | 3.5' | 1-1/2" | 2" | 1.29 |
| HH-40-EPC | 96,000 | 40,700 | 172,800 | 3.5' | 1-5/8" | 2-3/16" | 1.65 |
| HH-44-EPC | 103,600 | 43,900 | 186,500 | 4' | 1-3/4" | 2-3/8" | 1.95 |
| HH-48-EPC | 117,100 | 49,700 | 210,800 | 4' | 2" | 2-5/8" | 2.28 |
| HH-52-EPC | 141,200 | 59,900 | 254,200 | 4.5' | 2-1/8" | 2-7/8" | 2.73 |
| HH-56-EPC | 158,700 | 67,300 | 285,700 | 4.5' | 2-1/4" | 3" | 3.05 |
| HH-60-EPC | 174,900 | 74,200 | 314,800 | 5' | 2-1/2" | 3-3/8" | 3.70 |
| HH-64-EPC | 196,600 | 83,400 | 354,000 | 5' | 2-5/8" | 3-1/2" | 4.18 |
| HH-68-EPC | 217,800 | 92,400 | 392,000 | 6' | 2-3/4" | 3-5/8" | 4.68 |
| HH-72-EPC | 257,400 | 109,200 | 463,300 | 6.5' | 3" | 4" | 5.35 |
| HH-76-EPC | 280,500 | 119,000 | 504,000 | 6.5' | 3-1/8" | 4-1/8" | 5.88 |
| HH-80-EPC | 310,000 | 131,600 | 558,000 | 6.5' | 3-1/4" | 4-3/8" | 6.53 |
| HH-84-EPC | 365,000 | 155,100 | 658,000 | 7.5' | 3-1/2" | 4-5/8" | 7.45 |
| HH-88-EPC | 412,000 | 175,000 | 742,000 | 7.5' | 3-5/8" | 4-7/8" | 8.10 |
| HH-96-EPC | 501,000 | 212,800 | 902,000 | 8.5' | 4" | 5-3/8" | 9.85 |
| | | | | | | | |





Holloway has enhanced the traditional soft shackle with an innovative design. Our unique braiding machine adds an extra layer of protection: a braided polyester jacket coated with Fiber Lock. This significantly improves the HIppo Link's abrasion resistance, extending its lifespan and overall durability.



- Light Weight
- ▶ Floats
- Low Stretch
- Easy Handling
- High Strength
- ► Will Not Rust
- Easy On Equipment

| Part Number | Size | Length | Work Load Limit Pounds | Weight in lbs |
|----------------|--------|--------|---------------------------|---------------|
| EHL-316-006 | 3/16" | 6" | 2,700 | 1.056 |
| EHL-014-006 | 1/4" | 6" | 4,000 | 1.088 |
| EHL-516-010 | 5/16" | 10" | 5,800 | 1.187 |
| EHL-038-010 | 3/8" | 10" | 8,700 | 1.296 |
| EHL-716-010 | 7/16" | 10" | 9,400 | 1.357 |
| EHL-012-010 | 1/2" | 10" | 12,500 | 1.608 |
| EHL-916-010 | 9/16" | 10" | 15,160 | 1.790 |
| EHL-058-018 | 5/8" | 18" | 20,500 | 2.484 |
| EHL-034-018 | 3/4" | 18" | 27,400 | 2.862 |
| EHL-078-024 | 7/8" | 24" | 37,000 | 4.528 |
| EHL-001-024 | 1" | 24" | 44,000 | 5.212 |
| EHL-118-024 | 1-1/8" | 24" | 58,800 | 7.380 |
| EHL-114-024 | 1-1/4" | 24" | 66,000 | 8.240 |
| EHL-112-028 | 1-1/2" | 28" | 88,400 | 15.476 |













Chain

Grade 30 Proof Coil Chain

A general-purpose chain of standard commercial quality. Made from low-carbon steel, this chain is frequently used for fabricating tow chains, logging chains, and when appropriate, tie down or binding chains. The manufacturer's symbol and grade (3, 30, or 300) is marked on chain links approximately every 12 inches. This chain should not be used in overhead lifting applications.

Grade 40 High-Test Chain

Commonly used in the trucking industry for tie downs meeting DOT specifications, this chain is made of steel with increased carbon content. Compared to proof coil chain of the same size, this high-test chain increases working load limits by a factor of 2:1. The manufacturer's symbol and grade (4, 40, 43, or 400) is marked on chain links approximately every 12 inches. This chain should not be used in overhead lifting applications.

Grade 70 Transport Chain

As its name implies, transport chain is primarily used to tie down loads on over-the-road equipment. Made from heat-treated carbon steel, it is about 25% stronger than high-test chains. The manufacturer's symbol and grade (7, 70, or 700) is marked on chain links approximately every 12 inches. This chain should not be used in overhead lifting applications.

Grade 80 Alloy Chain

Designed to stretch a minimum of 15% before breaking, alloy chain is the only grade of chain approved for overhead lifting by OSHA and other agencies. Its heat-treated alloy steel makes it ideal for lifting slings and heavy-duty tow chains. The manufacturer's symbol and grade (8, 80, or 800) is marked on chain links approximately every 12 inches. This chain is suitable for overhead lifting applications.

The most recent alloy chain provides about 25% higher working load limits than Grade 80 alloy chain with some limitations reported in lower ambient temperatures and availability of fittings. The manufacturer's symbol and grade marking: 10 or 100 is placed on the chain links every foot or so. Suitable for overhead lifting.



Grade 100 Alloy Chain

Grade 100, the most recently developed alloy chain, improves on Grade 80 chain's working load limits by about 25%, though that figure is impacted by lower ambient temperatures and the availability of fittings. The manufacturer's symbol and grade (10 or 100) is marked on chain links approximately every 12 inches. This chain is suitable for overhead lifting applications.



Chain Sling Ratings

Spectrum Alloy Chain

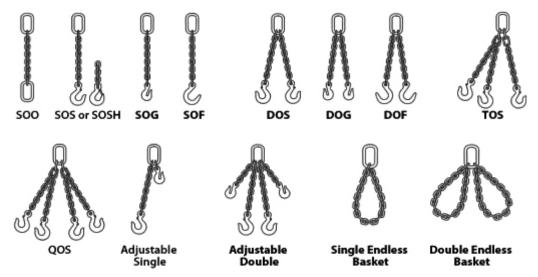
Grade 100 Chain Sling Components

Working load limit - 4 to 1 design factor



^{*}For choker applications, the working load limit must be reduced by 20%. The Crosby A-1338 cradle grab hook doesn't require any reduction of the working load limit. The design factor of 4:1 on Spectrum 10 alloy chain agrees with the design factor used by the International Standards Organization (ISO) and ANSI B30.9 and is the preferred set of working load limit values to be used.

All Grade 100 fittings shown below can also be attached to Grade 80 chain.



Holloway Houston offers a wide array of chain slings. Please contact us for more information on custom chain slings.



Braided Chain Slings



Holloway's Braided Chain Slings, crafted from Grade 100 alloy chain, offer unparalleled strength and durability for even the most demanding lifting tasks. These slings excel in high-temperature environments and withstand the harshest conditions, making them an ideal choice for heavy-duty applications. Available in a wide range of sizes, from 7/32" to 1/2" chain links, our Braided Chain Slings can be customized with either standard hook-friendly links or choker end links to meet your specific needs.

Features and Benefits:

- Resistance to abrasion and cutting.
- 100% Proof test on each sling
- Wide bearing area helps distribute the load
- High strength steel end links with G100 chain parts
- End links fit most crane hooks and are customizable
- Length, width, and capacity are customizable
- Low stretch
- Repairable
- Hard stamped with a serial number for traceability

Wire Rope

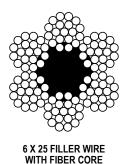
Holloway offers the wire rope solutions you need. We stock a wide range of American-made and imported wire rope in diameters up to 6", catering to standard and specialized requirements.

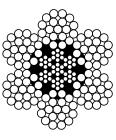
With years of industry experience, our team is committed to delivering top-quality products and exceptional service, ensuring you find the ideal wire rope for your project.

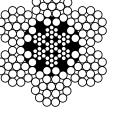




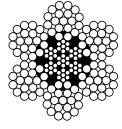
Wire Rope



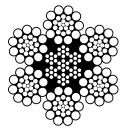




6 X 19 SEALE WITH IWRC







6 X 26 WARRINGTON SEALE WITH IWRC

FIBER CORE (EIPS)

| Diameter in Inches | Breaking Strength in Tons* |
|--------------------------|----------------------------------|
| 1/4 | 3.01 |
| 5/16 | 4.69 |
| 3/8 | 6.71 |
| 7/16 | 9.10 |
| 1/2 | 11.80 |
| 9/16 | 14.90 |
| 5/8 | 18.40 |
| 3/4 | 26.20 |
| 7/8 | 35.40 |
| 1 | 46.00 |
| 1.1/8 | 57.90 |
| 1.1/4 | 71.10 |

IWRC (EIPS)**

| | , , | |
|--------------------------|--|----------------------------------|
| Diameter in Inches | Approx. Weight per Foot in Pounds | Breaking Strength in Tons* |
| 1/4 | 0.116 | 3.40 |
| 5/16 | 0.180 | 5.27 |
| 3/8 | 0.260 | 7.55 |
| 7/16 | 0.350 | 10.20 |
| 1/2 | 0.460 | 13.30 |
| 9/16 | 0.590 | 16.80 |
| 5/8 | 0.720 | 20.60 |
| 3/4 | 1.040 | 29.40 |
| 7/8 | 1.420 | 39.80 |
| 1 | 1.850 | 51.70 |
| 1.1/8 | 2.340 | 65.00 |
| 1.1/4 | 2.890 | 79.90 |
| 1.3/8 | 3.500 | 96.00 |
| 1.1/2 | 4.160 | 114.00 |
| 1.5/8 | 4.880 | 132.00 |
| 1.3/4 | 5.670 | 153.00 |
| 2 | 7.390 | 198.00 |
| 2.1/4 | 9.360 | 247.00 |
| 2.3/8 | 10.400 | 274.00 |
| 2.1/2 | 11.600 | 302.00 |

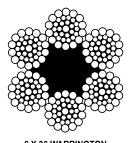
^{**}EEIPS available in some sizes and constructions.

According to A.S.T.M. A1023/1023M Wire Rope for General Purposes and Federal Specification RR-W-410, current re vision, as applicable. Meets the performance requirements of API-9A.Preformed, right regular lay.

*Listed for comparison only. Actual operating loads should never exceed the recommended design factor or 20% of catalog Breaking Strength.

NOTE: Lang lay, left lay, alternate lay, Seale available in some sizes. Heavy lubrication on request.

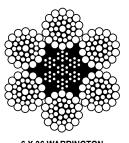
Wire Rope



6 X 36 WARRINGTON SEALE WITH FIBER CORE

FIBER CORE (EIPS)

| Diameter in Inches | Breaking Strength in Tons* |
|--------------------------|----------------------------------|
| 1/4 | 3.01 |
| 5/16 | 4.69 |
| 3/8 | 6.71 |
| 7/16 | 9.10 |
| 1/2 | 11.80 |
| 9/16 | 14.90 |
| 5/8 | 18.40 |
| 3/4 | 26.20 |
| 7/8 | 35.40 |
| 1 | 46.00 |
| 1.1/8 | 57.90 |
| 1.1/4 | 71.10 |



6 X 36 WARRINGTON SEALE WITH IWRC

IWRC (EIPS)**

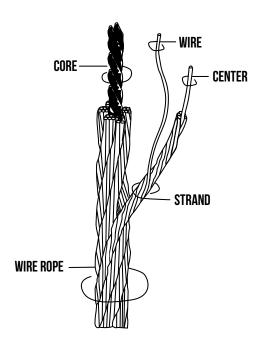
| Diameter in Inches | Approx. Weight per Foot in Pounds | Breaking Strength in Tons* |
|--------------------------|--|----------------------------------|
| 1/4 | 0.116 | 3.40 |
| 5/16 | 0.180 | 5.27 |
| 3/8 | 0.260 | 7.55 |
| 7/16 | 0.350 | 10.20 |
| 1/2 | 0.460 | 13.30 |
| 9/16 | 0.590 | 16.80 |
| 5/8 | 0.720 | 20.60 |
| 3/4 | 1.040 | 29.40 |
| 7/8 | 1.420 | 39.80 |
| 1 | 1.850 | 51.70 |
| 1.1/8 | 2.340 | 65.00 |
| 1.1/4 | 2.890 | 79.90 |
| 1.3/8 | 3.500 | 96.00 |
| 1.1/2 | 4.160 | 114.00 |
| 1.5/8 | 4.880 | 132.00 |
| 1.3/4 | 5.670 | 153.00 |
| 2 | 7.390 | 198.00 |
| 2.1/4 | 9.360 | 247.00 |
| 2.1/2 | 11.600 | 302.00 |
| 2.3/4 | 14.000 | 361.00 |
| 3 | 16.600 | 425.00 |
| 3.1/2 | 22.700 | 572.00 |
| | | |

^{**}EEIPS available in some sizes and constructions.

According to A.S.T.M. A1023/1023M Wire Rope for General Purposes and Federal Specification RR-W-410, current re vision, as applicable. Meets the performance requirements of API-9A.Preformed, right regular lay.

*Listed for comparison only. Actual operating loads should never exceed the recommended design factor or 20% of catalog Breaking Strength.

Inspection Procedure



The most widely used wire rope replacement, inspection, and maintenance standard for mobile-type cranes is ASME B30.5, section 5-2.4. Following is an excerpt from that standard:

For more information on wire rope, please see the Wire Rope User's Manual.

All running ropes in service should be visually inspected once each working day. A visual inspection shall consist of observation of all rope which can reasonably be expected to be in use during the day's operations. These visual observations should be concerned with discovering gross damage, such as listed below which may be an immediate hazard:

- [A] Distortion of the rope such as kinking, crushing, unstranding, birdcaging, main strand displacement, or core protrusion. Loss of rope diameter in a short rope length or unevenness of outer strands should provide evidence that the rope must be replaced.
- [B] General Corrosion
- [C] Broken or Cut strands
- [D] Number, distribution, and type of visible broken wires

[E] Core failure in rotation resistant ropes: when such damage is discovered, the rope shall be either removed from service or given an inspection (further detail per S-2.4.2).

The frequency of detailed and thorough inspections should be determined by a qualified person, who takes into account the following factors:

- Expected rope life as determined by [a] maintenance records, and [b] experience on the particular installation or similar installations.
- Severity of environment.
- Percentage of capacity lifts.
- Frequency rates of operation, and exposure to shock loads.

Inspect the entire length of the rope. Some areas of the wire rope such as around the core are more difficult to inspect. To inspect the core, examine the rope as it passes over the sheaves. The strands have a tendency to open up slightly which will afford the inspector a better view of the core. Also regularly inspect for any reduction in diameter and lengthening of rope lay as both conditions indicate core damage.



For more information on wire rope, Holloway Houston advises to read the Wire Rope Users Manual.

World's Largest stocking Crosby Distributor

Crosby







Fittings and Chain

- WIRE ROPE END FITTINGS
- SHACKLES
- SLING SAVER FITTINGS
- HOOKS & SWIVELS
- RIGGING ACCESSORIES
- CHAIN & ACCESSORIES
- McKISSICK BLOCKS
- WESTERN & MARINE BLOCKS
- **CROSBY LIFTING CLAMPS**
- SPECIAL PRODUCTS
- RIGGING INFORMATION

In Recognition for

World's largest distributor Over \$12,000,000 in 2006

RIGGING TRAINING



























Holloway has been the world's largest stocking Crosby distributor since 1989 and stocks a broad assortment of fittings and accessories for pick-up or delivery.





Crosby® Bolt Type Shackles

G-2130 / S-2130 Bolt Type Anchor Shackles



G-2130 S-2130

Bolt Type Anchor shackles with thin head bolt - nut with cotter pin. Meets the performance requirement of Federal Specifications RR-C-271D Type IVA, Grade A, Class 3, except for those provisions required of the contractor.

- Capacities 1/3 thru 150 metric tons, grade 6.
- · Working Load Limit and grade "6" permanently shown on every shackle.
- Forged Quenched and Tempered, with alloy bolts.
- Hot Dip galvanized or self colored. (85, 120, and 150 metric ton shack-les

are all hot dip galvanized bows and the bolts are ${\sf Dimetcoted} @$ and painted red)

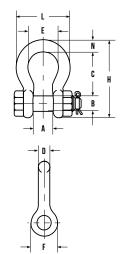
- Fatigue rated (1/3t 55t).
- · Shackles 25t and larger are RFID EQUIPPED.
- Approved for use at -40 degree C (-40 degree F) to 204 degree C (400 degree F).
- · Meets or exceeds all requirements of ASME B30.26.
- Shackles 85 metric tons and larger are individually proof tested to 2.0 times the

working load limit.

- Type Approval certification in accordance with ABS 2007 Steel Vessel Rules
- 1-11-17.7 and ABS Guide for Certification on Cranes available. Certificates available

when requested at time of order and may include additional charges test from 3.25t up to 25 tons to DNV2.7-1 and EN13889.





G-2130 S-2130

| Nominal Size | Working Load Limit | | ock o. | Weight Each | | Dimensions (In.) | | | | | | | Toleranc +/- | | |
|-----------------|-----------------------|----------|-----------|----------------|------|---------------------|-------|------|-------|------|-------|-------|-----------------|-----|-----|
| (ln.) | (t)* | G-2130 | S-2130 | (lbs.) | A | В | С | D | E | F | Н | L | N | С | A |
| 3/16 | 1/3 | 1019464 | - | .06 | .38 | .25 | .88 | .19 | .60 | .56 | 1.47 | .98 | .19 | .06 | .06 |
| 1/4 | 1/2 | 1019466 | - | .11 | .47 | .31 | 1.13 | .25 | .78 | .61 | 1.84 | 1.28 | .25 | .06 | .06 |
| 5/16 | 3/4 | 1019468 | - | .22 | .53 | .38 | 1.22 | .31 | .84 | .75 | 2.09 | 1.47 | .31 | .06 | .06 |
| 3/8 | 1 | 1019470 | - | .33 | .66 | .44 | 1.44 | .38 | 1.03 | .91 | 2.49 | 1.78 | .38 | .13 | .06 |
| 7/16 | 1-1/2 | 1019471 | - | .49 | .75 | .50 | 1.69 | .44 | 1.15 | 1.06 | 2.91 | 2.03 | .44 | .13 | .06 |
| 1/2 | 2 | 1019472 | 1019481 | .79 | .81 | .64 | 1.88 | .50 | 1.31 | 1.19 | 3.28 | 2.31 | .50 | .13 | .06 |
| 5/8 | 3-1/4 | 1019490 | 1019506 | 1-68 | 1.06 | .77 | 2.38 | .63 | 1.69 | 1.50 | 4.19 | 2.94 | .69 | .25 | .06 |
| 3/4 | 4-3/4 | 1019515 | 1019524 | 2.72 | 1.25 | .89 | 2.81 | .75 | 2.00 | 1.81 | 4.97 | 3.50 | .81 | .25 | .06 |
| 7/8 | 6-1/2 | 1019533 | 1019542 | 3.95 | 1.44 | 1.02 | 3.31 | .88 | 2.28 | 2.09 | 5.83 | 4.03 | .97 | .25 | .06 |
| 1 | 8-1/2 | 1019551 | 1019560 | 5.66 | 1.69 | 1.15 | 3.75 | 1.00 | 2.69 | 2.38 | 6.56 | 4.69 | 1.06 | .25 | .06 |
| 1-1/8 | 9-1/2 | 1019579 | 1019588 | 8.27 | 1.81 | 1.25 | 4.25 | 1.13 | 2.91 | 2.69 | 7.47 | 5.16 | 1.25 | .25 | .06 |
| 1-1/4 | 12 | 1019597 | 1019604 | 11.71 | 2.03 | 1.40 | 4.69 | 1.29 | 3.25 | 3.00 | 8.25 | 5.75 | 1.38 | .25 | .06 |
| 1-3/8 | 13-1/2 | 1019613 | 1019622 | 15.83 | 2.25 | 1.53 | 5.25 | 1.42 | 3.63 | 3.31 | 9.16 | 6.38 | 1.50 | .25 | .13 |
| 1-1/2 | 17 | 1019631 | 1019640 | 19.00 | 2.38 | 1.66 | 5.75 | 1.53 | 3.88 | 3.63 | 10.00 | 6.88 | 1.62 | .25 | .13 |
| 1-3/4 | 25 | 10119659 | 1019668 | 33.91 | 2.88 | 2.04 | 7.00 | 1.84 | 5.00 | 4.19 | 12.34 | 8.80 | 2.25 | .25 | .13 |
| 2 | 35 | 1019677 | 1019686 | 52.25 | 3.25 | 2.30 | 7.75 | 2.08 | 5.75 | 4.81 | 13.68 | 10.15 | 2.40 | .25 | .13 |
| 2-1/2 | 55 | 1019695 | 1019702 | 98-25 | 4.13 | 2.80 | 10.50 | 2.71 | 7.25 | 5.69 | 17.90 | 12.75 | 3.13 | .25 | .25 |
| 3 | 85 | 1019711 | - | 154.00 | 5.00 | 3.30 | 13.00 | 3.12 | 7.88 | 6.50 | 21.50 | 14.62 | 3.62 | .25 | .25 |
| 3-1/2 | 120 | 1019739 | - | 265.00 | 5.25 | 3.76 | 14.63 | 3.62 | 9.00 | 8.00 | 24.88 | 17.02 | 4.38 | .25 | .25 |
| 4 | 150 | 1019757 | - | 338.00 | 5.50 | 4.26 | 14.50 | 4.00 | 10.00 | 9.00 | 25.68 | 18.00 | 4.56 | .25 | .25 |

* NOTE: Maximum Proof Load is 2.0 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit. Individually Proof Tested with certification. ‡ Furnished in Anchor style only and furnished with Round Head Bolts with welded handles.















Crosby® Bolt Type Shackles

G-2140 / S-2140 Alloy Bolt Type Anchor Shackles



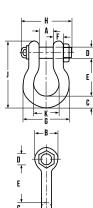
G-2140 meets the performance requirements of Federal Specification RR-C-271F, Type IVA, Grade B, Class 3, except for those provisions required of the contractor

G-2140E

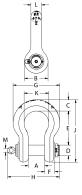


Crosby Easy-Loc

- Quenched and Tempered.
- Alloy bows, Alloy bolts.
- Forged Alloy Steel 2 thru 200 metric tons. Cast Alloy Steel 250 thru 400 metric tons. Meets performance requirements of Grade 8 shackles.
- ▶ Working Load Limit is permanently shown on every shackle.
- 30, 40, 55, and 85 metric ton shackle bows are available galvanized or self colored with pins that are galvanized and painted red.
- ▶ 120, 150, 175 metric ton shackle bows are hot-dip galvanized; pins are Dimetcoted and painted red.
- > 200, 250, 300 and 400 metric ton shackle bows are Dimetcoted; pins are Dimetcoted and painted red.
- ➤ Sizes 1-1/2 and larger are RFID EQUIPPED.
- ➤ Approved for use at -40 degree C (-40 degree F) to 204 degree C (400 degree F).
- Shackles are Quenched and Tempered and can meet DNV impact requirements of 42 joules (31 ft-lbs.) at -20 degree C (-4 degree F).
- All sizes are individually proof tested to 2.0 times the Working Load Limit.
- ▶ Refer to page 85 for Crosby COLD TUFF® shackles that meet the additional requirements of DNV rules for certification of lifting applications - Loose Gear.
- > Shackles 200 metric tons and larger are provided as follows.
 - ·Serialized Pin and Bow
 - ·Material Certification (Chemical)
 - ·Magnetic Particle Inspected.
 - ·Certification must be requested at time of order.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these shackles meet other critical performance requirements including impact properties and material traceability, not addressed by ASME B30.26.
- Type Approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes.
 Look for the Red Pin. . . the mark of genuine Crosby quality.



G-2140 S-2140



G-2140 / S-2140 Crosby® Alloy Bolt Type Shackles

| Nominal Shackle Size | Working Load Limit | Sto N | ock o. | Weight Each | | Dimensions (In.) | | | | | | | Tolerance +/- | | | | |
|----------------------------|-----------------------|----------|-----------|----------------|------|---------------------|------|-------|-------|------|-------|-------|------------------|-------|------|------|------|
| (ln.) | (t)* | G-2140 | S-2140 | (lbs.) | A | В | С | D+/02 | E | F | G | Н | J | K | L | A | E |
| 3/8 | 2 | 1021015 | - | 0.33 | 0.66 | 0.91 | 0.38 | 0.44 | 1.44 | 0.38 | 1.78 | 2.17 | 2.49 | 1.03 | 0.28 | 0.06 | 0.13 |
| 7/16 | 2-2/3 | 1021020 | - | 0.49 | 0.75 | 1.06 | 0.44 | 0.50 | 1.69 | 0.41 | 2.03 | 2.51 | 2.91 | 1.06 | 0.44 | 0.06 | 0.13 |
| 1/2 | 3-1/13 | 1021029 | - | 0.79 | 0.81 | 1.19 | 0.50 | 0.64 | 1.88 | 0.46 | 2.31 | 2.80 | 3.28 | 1.31 | 0.50 | 0.06 | 0.13 |
| 5/8 | 5 | 1021038 | - | 1.68 | 1.06 | 1.50 | 0.69 | 0.77 | 2.38 | 0.58 | 2.94 | 3.56 | 4.19 | 1.69 | 0.63 | 0.06 | 0.13 |
| 3/4 | 7 | 1021047 | - | 2.72 | 1.25 | 1.81 | 0.81 | 0.89 | 2.81 | 0.69 | 3.50 | 4.15 | 4.97 | 2.00 | 0.75 | 0.06 | 0.25 |
| 7/8 | 9-1/2 | 1021056 | - | 3.95 | 1.44 | 2.09 | 0.97 | 1.02 | 3.31 | 0.81 | 4.03 | 4.82 | 5.83 | 2.28 | 0.88 | 0.06 | 0.25 |
| 1 | 12-1/2 | 1021065 | - | 5.66 | 1.69 | 2.38 | 1.06 | 1.15 | 3.75 | 0.92 | 4.69 | 5.39 | 6.56 | 2.69 | 1.00 | 0.06 | 0.25 |
| 1-1/8 | 15 | 1021074 | - | 8.27 | 1.81 | 2.69 | 1.25 | 1.25 | 4.25 | 1.04 | 5.16 | 5.90 | 7.47 | 2.91 | 1.13 | 0.06 | 0.25 |
| 1-1/4 | 18 | 1021083 | - | 11.7 | 2.03 | 3.00 | 1.38 | 1.40 | 4.69 | 1.16 | 5.75 | 6.69 | 8.25 | 3.25 | 1.29 | 0.06 | 0.25 |
| 1-3/8 | 21 | 1021092 | - | 15.8 | 2.25 | 3.31 | 1.50 | 1.53 | 5.25 | 1.28 | 6.38 | 7.21 | 9.16 | 3.63 | 1.42 | 0.13 | 0.25 |
| 1-1/2 | 30 | 1021110 | 1021129 | 18.8 | 2.38 | 3.62 | 1.62 | 1.63 | 5.75 | 1.39 | 6.88 | 7.73 | 10.00 | 3.88 | 1.53 | 0.13 | 0.25 |
| 1-3/4 | 40 | 1021138 | 1021147 | 33.8 | 2.88 | 4.19 | 2.25 | 2.00 | 7.00 | 1.75 | 8.81 | 9.33 | 12.34 | 5.00 | 1.84 | 0.13 | 0.25 |
| 2 | 55 | 1021156 | 1021165 | 49.9 | 3.25 | 4.81 | 2.40 | 2.25 | 7.75 | 2.00 | 10.16 | 10.41 | 13.68 | 5.75 | 2.08 | 0.13 | 0.25 |
| 2-1/2 | 85 | 1021174 | 1021183 | 103 | 4.12 | 5.81 | 3.12 | 2.75 | 10.50 | 2.62 | 12.75 | 13.58 | 17.90 | 7.25 | 2.71 | 0.25 | 0.25 |
| 3 | 120 | 1021192 | - | 162 | 5.00 | 6.50 | 3.63 | 3.25 | 13.00 | 3.00 | 14.62 | 15.13 | 21.50 | 7.88 | 3.12 | 0.25 | 0.25 |
| 3-1/2 | 150 | 1021218 | - | 268 | 5.25 | 8.00 | 4.38 | 3.75 | 14.63 | 3.75 | 17.02 | 17.62 | 24.88 | 9.00 | 3.62 | 0.25 | 0.25 |
| 4 | 175 | 1021236 | - | 332 | 5.50 | 9.00 | 4.56 | 4.25 | 14.50 | 4.00 | 18.00 | 20.37 | 25.68 | 10.00 | 4.00 | 0.25 | 0.25 |
| 7** | 400 | 1021478 | - | 1200 | 8.25 | 14.00 | 7.25 | 7.00 | 22.50 | 6.50 | 26.00 | 28.68 | 40.25 | 13.00 | 6.00 | 0.25 | 0.25 |

G-2140E / S-2140E Crosby® Alloy crosby® easy loc Shackles

| Nominal Shackle Size | Working Load Limit | | ock lo. | Weight Each | | Dimensions (in.) | | | | | | | | Toler | rance -/- | | | |
|----------------------------|-----------------------|---------|------------|----------------|------|---------------------|------|-------|-------|------|-------|-------|-------|-------|--------------|------|------|------|
| (In.) | (t)* | G-2140E | S-2140E | (lbs.) | Α | В | С | D+/02 | E | F | G | Н | J | K | L | М | Α | E |
| 4-3/4 | 200 | 1021422 | - | 452 | 7.25 | 10.50 | 5.00 | 4.75 | 15.19 | 4.58 | 20.84 | 23.11 | 27.81 | 11.00 | 4.75 | 1.75 | 0.25 | 0.25 |
| 5** | 250 | 1021442 | - | 594 | 8.50 | 12.00 | 5.63 | 5.00 | 18.50 | 4.48 | 23.63 | 24.28 | 32.63 | 13.00 | 5.00 | 1.75 | 0.25 | 0.25 |
| 6** | 300 | 1021460 | - | 791 | 8.38 | 13.00 | 6.06 | 6.00 | 18.72 | 4.89 | 24.76 | 25.45 | 34.28 | 13.00 | 5.88 | 1.75 | 0.25 | 0.25 |

* Note: Maximum Proof Load is 2.0 times the Working Load Limit. Minimum Ultimate Load is 4.5 times the Working Load Limit on 2 thru 21 metric tons. For sizes 30 thru 175 metric tons, Minimum Ultimate Load is 5.4 times the Working Load Limit for 200 thru 400 metric tons, Minimum Ultimate Load is 4.times the Working Load Limit. ** Cast Alloy Steel. † Furnished with Round Head Bolts with an eyebolt for handling.













Crosby® Screw Pin Shackles

Screw Pin Anchor Shackles



G-209 / S-209

G-209 Screw pin anchor shackles meet the performance requirements of Federal Specification RR-C-271F Type IVA, Grade A, Class 2, except for those provisions required of the contractor.

Capacities 1/3 thru 55 metric tons, grade 6.

- Forged Quenched and Tempered, with alloy pins.
- ▶ Working Load Limit and grade "6" permanently shown on every shackle.
- ► Hot Dip galvanized or Self Colored.
- Fatigue rated.
- ► Shackles 25t and larger are RFID EQUIPPED.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Charges for proof testing and certification available when requested at the time of order.
- ➤ Approved for use at -40 degree C (-40 degree F) to 204 degree C (400 degree F). 2t through 25t bow and screw pin are Certified to meet charpy impact testing of 42 joules (31 ft-lbs.) min. ave. at -20 degree C (-4 degree F).
- ➤ All shackles are Quenched and Tempered and can meet DNV impact requirements of 42 joules (31 ft. lbs.) at -20 degree C (-4 degree F).
- Meets or exceeds all requirements of ASME B30.26.
- ▶ Type Approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes.
- Crosby 2t through 25t G209 anchor shackles are type approved to DNV
- ➤ Certification Notes 2.7-1 -Offshore Containers. These Crosby shackles are statistical proof and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Look for the Red Pin. . . the mark of genuine Crosby quality.

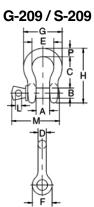




G-210 / S-210

G-210 Screw pin chain shackles meet the performance requirements of Federal Specification RR-C-271F, Type IVB, Grade A, Class 2, except for those provisions required of the contractor.

G-209 / S-209 Screw Pin Anchor Shackles



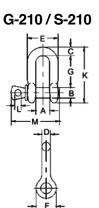
| Nominal Shackle Size | Working Load Limit | Str N | ock lo. | Weight Each | | Dimensions (In.) | | | | | | | | | Tolerance +/- | | |
|----------------------------|-----------------------|----------|------------|----------------|------|---------------------|-------|------|------|------|-------|-------|------|-------|------------------|-----|-----|
| (ln.) | (t)* | G-209 | S-209 | (lbs.) | Α | В | С | D | E | F | G | Н | L | M | Р | С | Α |
| 3/16 | 1/3 | 1018357 | - | 0.06 | .38 | .25 | .88 | .19 | .60 | .56 | .98 | 1.47 | .16 | 1.14 | .19 | .06 | .06 |
| 1/4 | 1/2 | 1018375 | 1018384 | .10 | .47 | .31 | 1.13 | .25 | .78 | .61 | 1.28 | 1.84 | .19 | 1.43 | .25 | .06 | .06 |
| 5/16 | 3/4 | 1018393 | 1018400 | .18 | .53 | .38 | 1.22 | .31 | .84 | .75 | 1.47 | 2.09 | .22 | 1.71 | .31 | .06 | .06 |
| 3/8 | 1 | 1018419 | 1018428 | .31 | .66 | .44 | 1.44 | .38 | 1.03 | .91 | 1.78 | 2.49 | .25 | 2.02 | .38 | .13 | .06 |
| 7/16 | 1-1/2 | 1018437 | 1018446 | .38 | .75 | .50 | 1.69 | .44 | 1.16 | 1.06 | 2.03 | 2.91 | .31 | 2.37 | .44 | .13 | .06 |
| 1/2 | 2 | 1018455 | 1018464 | .72 | .81 | .63 | 1.88 | .50 | 1.31 | 1.19 | 2.31 | 3.28 | .38 | 2.69 | .50 | .13 | .06 |
| 5/8 | 3-1/4 | 1018473 | 1018482 | 1.37 | 1.06 | .75 | 2.38 | .63 | 1.69 | 1.50 | 2.94 | 4.19 | .44 | 3.34 | .69 | .13 | .06 |
| 3/4 | 4-3/4 | 1018491 | 1018507 | 2.35 | 1.25 | .88 | 2.81 | .75 | 2.00 | 1.81 | 3.50 | 4.97 | .50 | 3.97 | .81 | .25 | .06 |
| 7/8 | 6-1/2 | 1018516 | 1018525 | 3.62 | 1.44 | 1.00 | 3.31 | .88 | 2.28 | 2.09 | 4.03 | 5.83 | .50 | 4.50 | .97 | .25 | .06 |
| 1 | 8-1/2 | 1018534 | 1018543 | 5.03 | 1.69 | 1.13 | 3.75 | 1.00 | 2.69 | 2.38 | 4.69 | 6.56 | .56 | 5.13 | 1.06 | .25 | .06 |
| 1-1/8 | 9-1/2 | 1018552 | 1018561 | 7.41 | 1.81 | 1.25 | 4.25 | 1.16 | 2.91 | 2.69 | 5.16 | 7.47 | .63 | 5.71 | 1.25 | .25 | .06 |
| 1-1/4 | 12 | 1018570 | 1018589 | 9.50 | 2.03 | 1.38 | 4.69 | 1.29 | 3.25 | 3.00 | 5.75 | 8.25 | .69 | 6.25 | 1.38 | .25 | .06 |
| 1-3/8 | 13-1/2 | 1018598 | 1018605 | 13.53 | 2.25 | 1.50 | 5.25 | 1.42 | 3.63 | 3.31 | 6.38 | 9.16 | .75 | 6.83 | 1.50 | .25 | .13 |
| 1-1/2 | 17 | 1018614 | 1018623 | 17.20 | 2.38 | 1.63 | 5.75 | 1.54 | 3.88 | 3.63 | 6.88 | 10.00 | .81 | 7.33 | 1.62 | .25 | .13 |
| 1-3/4 | 25 | 1018632 | 1018641 | 27.78 | 2.88 | 2.00 | 7.00 | 1.84 | 5.00 | 4.19 | 8.86 | 12.34 | 1.00 | 9.06 | 2.25 | .25 | .13 |
| 2 | 35 | 1018650 | 1018669 | 45.00 | 3.25 | 2.25 | 7.75 | 2.08 | 5.75 | 4.81 | 9.97 | 13.68 | 1.22 | 10.35 | 2.40 | .25 | .13 |
| 2-1/2 | 55 | 1018678 | 1018687 | 85.75 | 4.13 | 2.75 | 10.50 | 2.71 | 7.25 | 5.69 | 12.87 | 17.84 | 1.38 | 13.00 | 3.13 | .25 | .13 |







G-210 / S-210 Screw Pin Chain Shackles



| Nominal Shackle Size | Working Load Limit | Sto N | ock o. | Weight Each | | | | | Dimer (Ir | | | | | | Toler | rance ./- |
|----------------------------|-----------------------|----------|-----------|----------------|------|------|------|------|--------------|------|------|-------|------|-------|-------|--------------|
| (ln.) | (t) [⋆] | G-210 | S-210 | (lbs.) | А | В | С | D | E | F | G | K | L | M | G | А |
| 1/4 | 1/2 | 1019150 | 1019169 | .11 | .47 | .31 | .25 | .25 | .97 | .62 | .97 | 1.59 | .19 | 1.43 | .06 | .06 |
| 5/16 | 3/4 | 1019178 | 1019187 | .17 | .53 | .38 | .31 | .31 | 1.15 | .75 | 1.07 | 1.91 | .22 | 1.71 | .06 | .06 |
| 3/8 | 1 | 1019196 | 1019203 | .28 | .66 | .44 | .38 | .38 | 1.42 | .92 | 1.28 | 2.31 | .25 | 2.02 | .13 | .06 |
| 7/16 | 1-1/2 | 1019212 | 1019221 | .43 | .75 | .50 | .44 | .44 | 1.63 | 1.06 | 1.48 | 2.67 | .31 | 2.37 | .13 | .06 |
| 1/2 | 2 | 1019230 | 1019249 | .59 | .81 | .63 | .50 | .50 | 1.81 | 1.18 | 1.66 | 3.03 | .38 | 2.69 | .13 | .06 |
| 5/8 | 3-1/4 | 1019258 | 1019267 | 1.25 | 1.06 | .75 | .63 | .63 | 2.32 | 1.50 | 2.04 | 3.76 | .44 | 3.34 | .13 | .06 |
| 3/4 | 4-3/4 | 1019276 | 1019285 | 2.63 | 1.25 | .88 | .8 | .75 | 2.75 | 1.81 | 2.40 | 4.53 | .50 | 3.97 | .25 | .06 |
| 7/8 | 6-1/2 | 1019294 | 1019301 | 3.16 | 1.44 | 1.00 | .97 | .88 | 3.20 | 2.10 | 2.86 | 5.33 | .50 | 4.50 | .25 | .06 |
| 1 | 8-1/2 | 1019310 | 1019329 | 4.75 | 1.69 | 1.13 | 1.00 | 1.00 | 3.69 | 2.38 | 3.24 | 5.94 | .56 | 5.13 | .25 | .06 |
| 1-1/8 | 9-1/2 | 1019338 | 1019347 | 6.75 | 1.81 | 1.25 | 1.25 | 1.13 | 4.07 | 2.69 | 3.61 | 6.78 | .63 | 5.71 | .25 | .06 |
| 1-1/4 | 12 | 1019356 | 1019365 | 9.06 | 2.03 | 1.38 | 1.38 | 1.25 | 4.53 | 3.00 | 3.97 | 7.50 | .69 | 6.25 | .25 | .13 |
| 1-3/8 | 13-1/2 | 1019374 | 1019383 | 11.63 | 2.25 | 1.50 | 1.50 | 1.38 | 5.01 | 3.31 | 4.43 | 8.28 | .75 | 6.53 | .25 | .13 |
| 1-1/2 | 17 | 1019392 | 1019409 | 15.95 | 2.38 | 1.63 | 1.62 | 1.50 | 5.38 | 3.62 | 4.87 | 9.05 | .81 | 7.33 | .25 | .13 |
| 1-3/4 | 25 | 1019418 | 1019427 | 26.75 | 2.88 | 2.00 | 2.12 | 1.75 | 6.38 | 4.19 | 5.78 | 10.97 | 1.00 | 9.06 | .25 | .13 |
| 2 | 35 | 1019436 | 1019445 | 42.31 | 3.25 | 2.25 | 2.36 | 2.10 | 7.25 | 5.00 | 6.77 | 12.74 | 1.13 | 10.35 | .25 | .13 |
| 2-1/2 | 55 | 1019454 | 1019463 | 71.75 | 4.12 | 2.75 | 2.63 | 2.63 | 9.38 | 5.68 | 8.07 | 14.85 | 1.38 | 13.00 | .25 | .25 |













Crosby® Wide Body Shackles

G-2160/S-2160 "Wide Body" **Shackles**



G-2160E



PATENTED

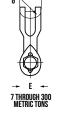


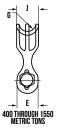
Crosbu Easy-Loc

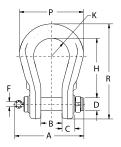
- ▶ All sizes Quenched and Tempered for maximum strength.
- Forged alloy steel from 7 through 300 metric tons.
- Cast alloy steel from 400 through 1550 metric tons.
- Sizes 300 metric tons and smaller are proof tested to 2 times the Working Load Limit.
- ▶ Sizes 400 metric tons and larger are tested to 1.33 times Working Load Limit.
- All ratings are in metric tons, embossed on side of bow.
- ► G-2160, (7-55t), are Hot Dip Galvanized and pins are painted red.
- G-2160, (75t and larger), bows are furnished Dimetcoted, and pins are
- Dimetcoted, then painted red.
- S-2160 bows and pins are painted red.
- ► Shackles, 30t and larger, are RFID EQUIPPED.
- Can be used to connect HIGH STRENGTH Synthetic Web Slings, HIGH
- STRENGTH Synthetic Round Slings or Wire Rope Slings.
- Increase in shackle bow radius provides minimum 58% gain in sling bearing surface and eliminates need for a thimble.
- Increases usable sling strength minimum of 15% and greatly improves life of wire
- ▶ Pin is non-rotating, with weld-on handles for easier use (75t and larger).
- ▶ Approved for use at -40 degree C (-40 degree F) to 204 degree C (400 degree F).
- ▶ Bow and bolt are Certified to meet charpy impact testing of 42 joules (31 ft-lbs.) min. ave. at -20 degree C (-4 degree F).
- All 2160 shackles are individually proof tested and magnetic particle inspected.
- Crosby certification available at time of order. F
- Shackles requiring ABS, Lloyds and other certifications are available upon special request and must be specified at time of order.
- Shackles 18t and larger have DNV Type Approval to Rules for Certification of
- Lifting Appliances, and are produced in accordance with DNV MSA requirements.
- Databook is provided that includes required documents.
 - · Serialization / Identification
 - · Material Testing (Physical / Chemical / Charpy)
 - · Proof Testing
- Look for the Red Pin. . . the mark of genuine Crosby quality.













G-2160E / S-2160E Crosby® easy loc "Wide Body" Shackles

| Working Load Lim | G-2160 Stock | S-2160 Stock | Weight Each | | Dimensions (ln.) | | | | | | | | | | |
|---------------------|-----------------|-----------------|----------------|-------|---------------------|------|---------|-------|------|------|-------|-------|------|-------|-------|
| (t)* | No. | No. | (lbs) | А | B+/25 | С | D+/-0.2 | E | F | G | Н | J | K | Р | R |
| 125 | 1021309 | - | 178 | 16.75 | 5.12 | 3.50 | 3.15 | 6.50 | 1.19 | 3.75 | 14.36 | 5.91 | 4.33 | 15.47 | 23.00 |
| 200 | 1021320 | - | 401 | 19.76 | 5.91 | 3.39 | 4.12 | 8.41 | 1.75 | 5.25 | 18.90 | 8.63 | 5.41 | 20.47 | 30.44 |
| 300 | 101330 | - | 777 | 23.05 | 7.38 | 5.63 | 5.25 | 10.50 | 1.75 | 6.13 | 23.63 | 10.38 | 6.31 | 23.83 | 37.51 |







* 7t-300t Proof Load is 2 times the Working Load Limit. Ultimate Load is 5 times the Working Load Limit, 400t-1550t Proof Load is 1.33 times the Working Load Limit. Ultimate Load is 4.5 times the Working Load Limit.

G-2160 / S-2160 Crosby® "Wide Body" Shackles

| Working Load Limit | G-2160 Stock | S-2160 Stock | Weight Each | Dimensions (In.) | | | | | | | | | | |
|-----------------------|-----------------|-----------------|----------------|---------------------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|
| (t)* | No. | No. | (lbs) | А | B+/25 | С | D+/-0.2 | Е | G | Н | J | K | Р | R |
| 7 | 1021256 | 1021548 | 4.0 | 4.14 | 1.25 | .69 | .88 | 1.82 | 1.25 | 3.56 | 1.60 | 1.25 | 4.10 | 5.87 |
| 12.5 | 1021265 | 1021557 | 10 | 5.38 | 1.69 | .92 | 1.13 | 2.38 | 1.37 | 4.63 | 2.13 | 1.63 | 5.51 | 7.63 |
| 18 | 1021274 | 1021566 | 15 | 6.69 | 2.03 | 1.16 | 1.38 | 2.69 | 1.50 | 5.81 | 2.50 | 2.00 | 6.76 | 9.38 |
| 30 | 1021283 | 1021575 | 25 | 7.69 | 2.37 | 1.38 | 1.63 | 3.50 | 1.75 | 6.94 | 3.13 | 2.50 | 8.50 | 11.38 |
| 40 | 1021285 | 1021584 | 35 | 9.28 | 2.88 | 1.69 | 2.00 | 4.00 | 2.31 | 8.06 | 3.75 | 3.00 | 10.62 | 13.62 |
| 55 | 1021287 | 1021593 | 71 | 10.36 | 3.25 | 2.00 | 2.25 | 4.63 | 2.63 | 9.36 | 4.50 | 3.50 | 12.26 | 15.63 |
| 75 | 1021290 | - | 100 | 14.37 | 4.13 | 2.12 | 2.75 | 5.00 | 2.50 | 11.53 | 4.75 | 3.64 | 12.28 | 18.41 |
| 125 | 1021307 | - | 178 | 16.51 | 5.12 | 2.56 | 3.15 | 5.71 | 3.15 | 14.36 | 5.91 | 4.33 | 14.96 | 22.65 |
| 200 | 1021316 | - | 500 | 20.67 | 5.91 | 3.35 | 4.12 | 7.28 | 4.33 | 18.90 | 8.07 | 5.41 | 19.49 | 29.82 |
| 300 | 1021325 | - | 835 | 24.20 | 7.38 | 4.00 | 5.25 | 9.25 | 5.38 | 23.63 | 10.38 | 6.31 | 23.38 | 37.26 |
| 400 | 1021334 | - | 1103 | 30.27 | 8.66 | 5.16 | 6.30 | 11.81 | 6.30 | 22.64 | 12.60 | 7.28 | 27.17 | 38.78 |
| 500 | 1021343 | - | 1433 | 33.35 | 9.84 | 5.73 | 7.09 | 13.39 | 6.69 | 24.81 | 13.39 | 8.86 | 31.10 | 42.72 |
| 600 | 1021352 | - | 1897 | 36.02 | 10.83 | 6.23 | 7.87 | 15.50 | 7.28 | 27.56 | 14.57 | 9.74 | 34.06 | 47.24 |
| 700 | 1021361 | - | 2585 | 38.91 | 11.81 | 6.59 | 8.46 | 14.80 | 7.87 | 28.94 | 15.75 | 10.63 | 37.01 | 50.18 |
| 800 | 1021254 | - | 3075 | 41.66 | 12.80 | 7.30 | 9.06 | 16.54 | 8.27 | 29.53 | 16.54 | 10.92 | 38.39 | 52.09 |
| 900 | 1021389 | - | 3720 | 43.73 | 13.78 | 7.78 | 9.84 | 16.93 | 8.66 | 29.82 | 17.32 | 11.52 | 40.35 | 54.04 |
| 1000 | 1021370 | - | 4130 | 45.98 | 14.96 | 8.33 | 10.63 | 17.72 | 9.06 | 29.92 | 18.11 | 12.11 | 42.32 | 55.31 |
| 1250 | 1021372 | - | 6310 | 49.86 | 16.93 | 9.15 | 11.81 | 21.00 | 10.43 | 36.61 | 20.87 | 12.70 | 46.26 | 65.35 |
| 1550 | 1021281 | - | 8155 | 54.89 | 18.31 | 10.58 | 12.60 | 23.82 | 15.92 | 42.32 | 22.82 | 13.29 | 49.41 | 73.43 |





The leading brand for premium quality lifting and lashing equipment.



Bolt Type Anchor Shackle



Big Mouth Shackle



Polar Shackle



Eye Sling Hooks



Thimbles



Wire Rope Clips



Turnbuckles



Load Binders



Hoist Rings



Weld-On Rings

Green Pin® combines innovative, high-quality products with the quickest delivery and the best customer support. The best lifting and lashing equipment developed with a clear vision of what you need. Produced with raw materials from trustworthy suppliers, at our state-of-the-art production facilities. Facilities that produce products with minimal margins of error compared to other production methods. These Green Pin® products are available all over the world by one of our 900 distributors. We make sure that we are always ready to meet the demands of the most complex lifting projects in the world.

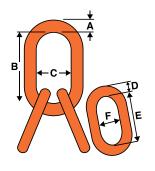
@Holloway

William Hackett DNV Master Links and Quad Assemblies

DNV Quad Assemblies DNV 2.7-1, EN 12079 & EN 1677-4

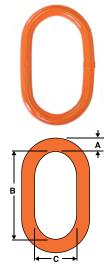
| Part Code | Description | A | В | С | D | E | F | WLL t | Mass Kg |
|--------------|-------------|----|-----|-----|----|-----|-----|----------|------------|
| 350.160 | HA16QA | 16 | 150 | 75 | 13 | 90 | 50 | 4.1 | 1.3 |
| 350.220 | HA22QA | 22 | 162 | 90 | 20 | 140 | 70 | 8.83 | 3.6 |
| 350.230 | HA23QA | 22 | 270 | 140 | 16 | 150 | 75 | 5.8 | 3.8 |
| 350.250 | HA25QA | 25 | 270 | 140 | 20 | 140 | 70 | 8.83 | 5.3 |
| 350.260 | HA26QA | 28 | 270 | 140 | 20 | 140 | 70 | 11.8 | 5.9 |
| 350.280 | HA28QA | 28 | 200 | 110 | 22 | 140 | 70 | 14.5 | 5.5 |
| 350.320 | HA32QA | 32 | 270 | 140 | 26 | 185 | 90 | 17.1 | 9.7 |
| 350.360 | HA36QA | 36 | 270 | 140 | 28 | 190 | 100 | 23 | 11.9 |
| 350.400 | HA40QA | 40 | 280 | 155 | 32 | 200 | 110 | 28.1 | 16.4 |
| 350.450 | HA45QA | 45 | 320 | 175 | 36 | 225 | 125 | 38.3 | 23.5 |
| 350.500 | HA50QA | 50 | 350 | 195 | 40 | 260 | 130 | 45 | 32.3 |
| 350.600 | HA60QA | 60 | 430 | 230 | 50 | 350 | 195 | 65 | 63.9 |
| 350.700 | HA70QA | 70 | 480 | 260 | 60 | 410 | 220 | 85 | 102.6 |
| 350.900 | HA90QA | 90 | 500 | 300 | 70 | 400 | 200 | 150 | 164.0 |





DNV Master Links DNV 2.7-1, EN 12079 & EN 1677-4

| Part Code | Description | Amm | B | Cmm | WLL t | Mass Kg |
|--------------|-------------|-----|-----|-----|----------|------------|
| 330.160 | HA16ML | 16 | 150 | 75 | 4.1 | 0.7 |
| 330.225 | HA22MS | 22 | 162 | 90 | 8.83 | 1.5 |
| 330.220 | HA22ML | 22 | 270 | 140 | 5.8 | 2.3 |
| 330.250 | HA25ML | 25 | 270 | 140 | 8.83 | 3.3 |
| 330.285 | HA28MS | 28 | 200 | 110 | 14.5 | 3.0 |
| 330.280 | HA28ML | 28 | 270 | 140 | 11.8 | 3.8 |
| 330.320 | HA32ML | 32 | 270 | 140 | 17.1 | 5.1 |
| 330.360 | HA26ML | 36 | 270 | 140 | 23.0 | 6.5 |
| 330.400 | HA40ML | 40 | 280 | 155 | 28.1 | 8.5 |
| 330.450 | HA45ML | 45 | 320 | 175 | 38.3 | 22.2 |
| 330.500 | HA50ML | 50 | 350 | 195 | 45.0 | 16.6 |
| 330.600 | HA60ML | 60 | 430 | 230 | 65.0 | 29.2 |
| 330.700 | HA70ML | 70 | 480 | 260 | 85.0 | 44.3 |
| 330.900 | HA90ML | 90 | 500 | 300 | 150.0 | 86.0 |
| 330.1200 | HA120ML | 120 | 610 | 410 | 250.0 | 197.0 |







Rigging Attachments and Fittings

To meet the demands of our large and growing customer base, Holloway Houston manufactures and sources domestic and imported fittings, attachments, and accessories of the highest quality. For swaged end terminations, Holloway maintains four presses: 500-, 800, and 1500-ton presses, plus a 5000-ton press, the largest swaged press in the western hemisphere.

- Alloy Chain Fittings
- Blocks Container
- Deck Lashing Fittings
- Eye Bolts
- Eye Nuts
- Hand Swaging Tools/Sleeves
- Hoists
- Hooks
- Latch Assemblies
- Links
- Load Binders
- Master Links
- Pad Eyes
- Quick Release Hooks
- Rings

- Shackles
- Snakes
- Sockets
- Swage Fittings
- Swivel Hoist Rings
- Swivels
- Thimbles
- Turnbuckles
- Web Sling Fittings
- Wedge Sockets
- Wire Rope Clips
- Wire Rope Cutters
- Wire Rope Grips
- Wire Rope Pullers
- · And more...



















































MORBAR Quick Shot Spreader Bars

HHI offers custom-fabricated lifting beams, spreader bars, tri-links, equalizer bars, lifting frames, and other lifting hardware in any quantity, and all hardware meets ASME, DNV, API, and other requirements. HHI also offers turnkey lifting solutions designed, deployed, and serviced by lifting industry experts.

HHI Fabricated Equipment Features:

- Fabricated to take Crosby G2130 & G2160 shackles for crown and drop connections.
- Proof-tested to 125%/150% of SWL (minimum).
- Standard coating: sandblasted to near white, primed, and painted with two coats of urethane enamel.

Includes data book containing all mill certs, NDE reports, proof-test certs, weld certs, etc., as applicable.





Note:

- 1. Spreader bars can be proof-tested to increased load, painted to different specs, etc., as required.
- 2. For even quicker delivery, HHI stocks pre-fabricated, adjustable-length telescopic spreader bars.





Rental Products

- ► MORBAR Rigging Rentals
- ► Load Measuring Equipment & Calibration

Holloway rents a broad selection of rigging equipment. Available with flexible rental periods and competitive pricing, our rental rigging equipment is certified and maintained to the highest standards, so it's always ready when you are.

Need professional measuring and calibration services? Holloway's team of trained and experienced technicians offer turnkey water bag load testing, specialty weighing services and equipment, center of gravity calculations, calibration services, and more.



Rigging Rentals



Holloway's specialized rigging division expertly engineers, manufactures, and assembles spreader bars, wire rope slings, and associated rigging solutions for a global clientele.

- Spreader Bars & Rental Slings
- Multi-Point Lifting Beams
- Rental Hardware

Ideal for:

- Construction companies, industrial fabricators, marine contractors, petrochemical facilities.
- ► One-time engineered lifts
- ▶ Remote location lifts.

Eliminates:

- Initial time and expense of locating and purchasing equipment.
- ► Possible backorder delays.
- Storage and maintenance expense before and after the lift.

Advantages:

- ► Saves time and expense involved
- in locating and purchasing equipment.
- Prevents backorder delays.
 No storage or maintenance expenses before or after the lift.











Rigging Rentals





Wide selection of rigging equipment available:

- Slings (single leg, 9-part, synthetics)
- Wide body shackles
- Link plates and master links
- 150-ton rolling blocks
- Load measuring devices
- ROV shackles & hooks
- Swivels
- Deadweight
- Trilinks from up 1500 ton

Value-added features:

- All systems are pre-rigged to save downtime.
- All lifts include a full rigging drawing for prior approval, per your request.
- ► All MORBAR spreader bar lifting links are proof-tested.
- 9-part slings are tested as one unit, under a full test load.
- Our slings are manufactured to the tightest measured length tolerances in the world.

Rigging Rentals



Multi-Point Lifting Beams



Man Baskets & Skip Pans

RP-HHI 4 X 4 PB-1

ISOMETRIC VIEW

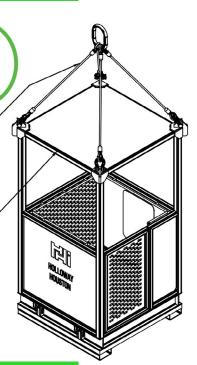
TOTAL WEIGHT: 2,350 LBS
TEST WEIGHT: 1,400 LBS
BASKET WEIGHT: 1,220 LBS
BASKET CAPACITY: 1,000 LBS

(1) 1 1/4" MASTER LINK CAPACITY: 39,100 LBS

(4) 5/8" x 4' WIRE ROPE SLING CAPACITY: 3.9T ea.

(4) 7/8" BOLT TYPE SHACKLE CAPACITY: 6.5T ea.

Heavy Gauge / Expanded Metal



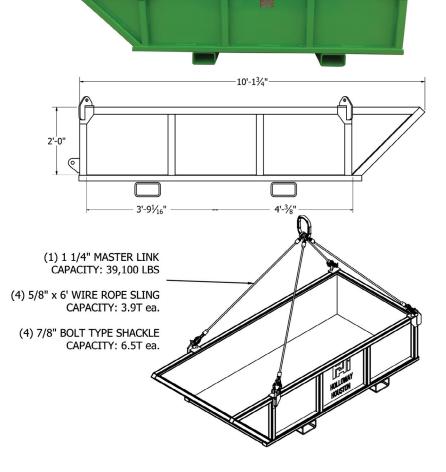


RP-HHI 4 X 8 HDSP-1

ISOMETRIC VIEW

TARE WEIGHT: 1,850 LBS RATED CAPACITY: 4,000 LBS







Telemetry Load Shackles: Up To 1550 M Ton

Holloway offers an unparalleled range of rental load cells, from 0.25 mt to an impressive 1550 mt in tension, and 5 mt to 750 mt in compression.

Our flagship 1550 mt telemetry load shackle stands as a testament to our commitment to providing cutting-edge solutions for the most demanding lifting projects.

This high-capacity shackle delivers real-time load data via telemetry, ensuring precise monitoring and enhanced safety throughout your operation.



Running Line Tensioners



Holloway offers a diverse selection of running line tensioners, both for rent and purchase, designed for precise load monitoring in demanding marine and offshore environments. Engineered by industry experts, these tensioners deliver exceptional accuracy and corrosion resistance.

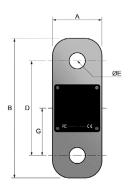
Our tensioners feature calibrated load pins for reliable readings across the entire measurement range, with optional proximity sensors to track speed and distance for precise line pay-out/pay-in data.

We offer a range of models to accommodate various wire rope sizes and load capacities. Each tensioner utilizes a 3-roller system, ensuring maximum accuracy and repeatability in even the harshest conditions.

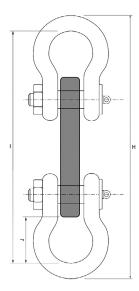


Load Cells











| Load Capacity | | A | | В | | C | | D | | E | Shackle Size | Approx Weight |
|------------------|-----|--------|------|--------|-----|--------|-----|--------|-----|--------|-----------------|------------------|
| (Tonne) | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches | (Tonne) | (Kgs) |
| 1 | 52 | 2.047 | 151 | 5.94 | 31 | 1.22 | 117 | 4.60 | 12 | 0.47 | 6.5 | 0.35 |
| 3.25 | 60 | 2.362 | 183 | 7.20 | 31 | 1.22 | 133 | 5.23 | 20 | 0.78 | 13.5 | 0.65 |
| 6.5 | 84 | 3.307 | 238 | 9.37 | 32 | 1.25 | 162 | 6.37 | 27 | 1.06 | 25 | 1.35 |
| 13.5 | 84 | 3.307 | 292 | 11.49 | 45 | 1.77 | 182 | 7.16 | 40 | 1.57 | 35 | 2.3 |
| 25 | 127 | 5.000 | 332 | 13.07 | 60 | 2.36 | 206 | 8.11 | 55 | 2.16 | 55 | 5.7 |
| 55 | 163 | 6.417 | 466 | 18.34 | 75 | 2.95 | 286 | 11.25 | 75 | 2.95 | 85 | 16 |
| 100 | 236 | 9.291 | 610 | 24.01 | 105 | 4.13 | 350 | 13.77 | 100 | 3.93 | 120 | 36.05 |
| 150 | 272 | 10.708 | 695 | 27.36 | 136 | 5.35 | 395 | 15.55 | 118 | 4.64 | 150 | 59.5 |
| 250 | 353 | 13.897 | 829 | 32.63 | 175 | 6.88 | 469 | 18.46 | 145 | 5.70 | 200 | 123.5 |
| 300 | 398 | 15.669 | 937 | 36.88 | 190 | 7.48 | 517 | 20.35 | 158 | 6.22 | 250 | 167 |
| 400 | 490 | 19.291 | 1037 | 40.82 | 198 | 7.79 | 547 | 21.53 | 180 | 7.08 | 300 | 251 |
| 500 | 540 | 21.259 | 1137 | 44.76 | 198 | 7.79 | 607 | 23.89 | 190 | 7.48 | 400 | 311 |

Typical Specification

| Rated Load | 5 to 500 tonne |
|--------------------------|--------------------------------------|
| Proof Load | 200% rated load (6.5te - 250te sizes |
| | 150% rated load 300te and above |
| Repeatability | < +/- 0.1% of applied load |
| Operating temperature | -20°C to +70°C |
| Environmental Rating | IP67 |
| Transmit rate | 900ms (standard) |
| Radio (Wireless Version) | 2.4 Ghz; worldwide licence free |

| Calibration | 12 months (calibration service available) |
|-----------------|---|
| Warranty | 12 months |
| Material Finish | Lightweight, high tensile grade aluminium |

Note: T24 Data-logging handset also available.

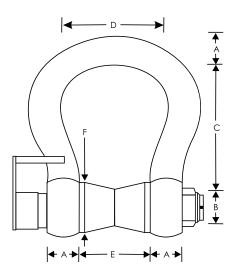
^{*} Cabled version available



Load Shackles

Telemetry Load Shackle





| SWL | A | В | E | C | D | F | WEIGHT |
|---------|-----|-----|-----|-----|-----|-----|--------|
| (Tonne) | mm | mm | mm | mm | mm | mm | Kgs |
| 25 | 45 | 50 | 74 | 178 | 126 | 87 | 15 |
| 35 | 50 | 57 | 83 | 178 | 126 | 94 | 21 |
| 55 | 65 | 70 | 105 | 254 | 185 | 107 | 41 |
| 85 | 75 | 80 | 127 | 330 | 190 | 130 | 63 |
| 110 | 80 | 82 | 127 | 330 | 200 | 134 | 70 |
| 120 | 89 | 95 | 150 | 381 | 238 | - | 110 |
| 140 | 90 | 95 | 133 | 381 | 238 | - | 105 |
| 150 | 102 | 108 | 170 | 400 | 275 | 174 | 160 |
| 175 | 102 | 108 | 140 | 400 | 250 | - | 150 |
| 200 | 120 | 125 | 180 | 500 | 290 | 208 | 235 |
| 250 | 125 | 140 | 200 | 540 | 305 | 210 | 285 |
| 300 | 135 | 150 | 200 | 600 | 305 | 232 | 340 |
| 400 | 165 | 175 | 225 | 650 | 325 | 280 | 560 |
| 500 | 175 | 185 | 250 | 700 | 350 | - | 685 |
| 600 | 195 | 205 | 275 | 700 | 375 | - | 880 |
| 700 | 205 | 300 | 300 | 700 | 400 | - | 980 |
| 800 | 210 | 220 | 300 | 700 | 400 | - | 1100 |
| 900 | 220 | 230 | 320 | 700 | 420 | - | 1280 |
| 1000 | 230 | 240 | 340 | 700 | 420 | - | 1460 |

Typical Specification

| Rated Load | 25 to 1000 tonnes |
|--------------------------------|--------------------|
| Proof Load | 200% of rated load |
| Ultimate Load | 400% |
| Recommended Excitation Voltage | 10V |
| Maximum Excitation Voltage | 15V |
| Zero Balance | < +/- 0.05% |
| Bridge Resistance | 700 ohm |

| Insulation Resistance | >2G Ohm @ 100V |
|-------------------------------|----------------------|
| Accuracy | +/- 1% of reading* |
| Repeatability | +/- 0.25% of reading |
| Sensitivity | 2.0mV/V |
| Zero Temperature Co-Efficient | -< +/- 0.005% |
| Span Temperature Co-Efficient | -< +/- 0.003% |
| Operational Temperature Range | -10 to +50°C |

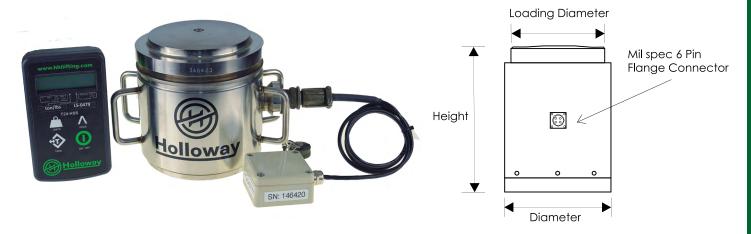
| Electrical Connection | Red +ve Supply. Green +ve Signal |
|-------------------------|------------------------------------|
| | Blue -ve Supply, Yellow -ve Signal |
| Enviromental Protection | IP67 |
| Telemetry Range | 300 m |

Note: T24 Data-logging handset also available

* Cabled version available



Compression Load Cells



| Cell Type | Nominal Rated Load | Height | Diameter | Loading Dia. | Base Diameter | В.Н. | Swivel Top Dia. | S.T.H. |
|-----------|--------------------------|--------|----------|-----------------|------------------|------|--------------------|--------|
| Comp 50 | 50 | 110 | 76 | 60 | 130 Dia | 40 | 65 | 10 |
| Comp 100 | 100 | 150 | 100 | 80 | 150 Dia | 50 | 100 | 20 |
| Comp 200 | 200 | 180 | 127 | 110 | 150 Dia | 50 | 127 | 30 |
| Comp 300 | 300 | 180 | 150 | 130 | 200 Dia | 50 | 150 | 30 |
| Comp 500 | 500 | 300 | 203 | 170.5 | 265 Dia | 50 | 203 | 50 |
| Comp 1000 | 1000 | 425 | 290 | 250 | 400 Dia | 75 | 290 | 50 |

Typical Specification

| Rated Load | 5 to 400 tonne | | |
|--------------------------------|--------------------|--|--|
| Proof Load | 150% of rated load | | |
| Ultimate Load | 500% of rated load | | |
| Rated Outpu | 1.5mV/v +/- 0.5% | | |
| Recommended Excitation Voltage | 10V | | |
| Maximum Excitation Voltage | 20V | | |
| Zero Balance | < +/- 1% | | |
| Bridge Resistance | 700 Ohm | | |
| Insulation Resistance | >2G Ohm @ 100V | | |

| Accuracy | < +/- 1% |
|-------------------------------|-------------------------------------|
| Non-Repeatability | < +/- 0.2% |
| Zero Temperature Co-efficient | < +/- 0.005% |
| Span Temperature Co-efficient | <+/- 0.003% |
| Compensated Temperature Rage | -10 to + 40°C |
| Electrical Connection | Red +ve Supply. Green +ve Signal. |
| | Blue -ve Supply. Yellow -ve Signal. |
| Enviromental Protection | IP67 |
| | |

Note: T24 Data-logging handset also available



Hydraulic Cylinders



Hydraulic Cylinders

- Rental hydraulic cylinders (10,000 psi) from 20 ton to 1,000 ton.
- Rental hydraulic pumps, hoses,PSI gauges, & dial gauges available.
- Data acquisition package available.
- Calibration for special requirements available.
- Complete package with load cells also available.



Load Measuring Equipment & Calibration



- Load Cells
- Strain-Gauging
- Load Shackles
- Hydraulic Jacks
- Running Line Tensioners











Holloway

www.hhilifting.com





Services

- ▶ Testing Services
- Weighing Services
- ▶ Inspection & Repair
- ► Rigging Training

- ► Multimedia Services
- ► Technical Services
- ► Fabrication Services

Holloway complements its broad product line with a wide array of professional services, including testing, inspection, repair, multimedia, technical, and fabrication services.



General Testing



Holloway's state-of-the-art testing facility, equipped with over 13 test beds, offers comprehensive testing solutions for lifting components up to 10,000 tons.

Our cutting-edge technology and experienced technicians provide detailed reports on fatigue performance, stress data, elongation, temperature, and continuity, ensuring the utmost confidence in the quality and reliability of your equipment

- ▶ Wire Rope
- ► Synthetic Rope
- ► Slings and Assemblies
- ► Oilfield Equipment and Tools
- ► Special Products
- ► Elevator Links
- ► Riser Pipes







Cyclic Testing



Holloway Houston's Testing Department conducts comprehensive cyclic testing, not only to measure the initial capacity of new products but also to track their performance over time.

This in-depth analysis examines factors such as wear, corrosion, and other variables, providing valuable insights into product lifespan and durability.

HHI's Big 3 Cyclic Test Beds

| Capacity | Width | Length | |
|---------------------|-------|--------|--|
| 550 ton Test Bed | 4′ 3" | 45' | |
| 3000 ton Test Bed | 9′ | 200′ | |
| 10,000 ton Test Bed | 15" | 90′ | |

Environmental Testing

Test specimens can be submerged in a representative working environment, such as salt or dirty water, as well as subjected to the effects of commonly associated equipment and materials, such as fairleaders, sheaves, and lubricants.

Temperature Monitoring

All temperature data is recorded digitally.

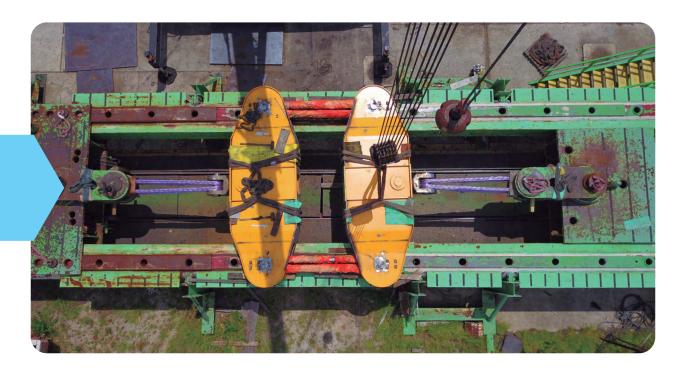
Video Recording

All video is recorded digitally.

Proof Load and Break Testing

Holloway's Testing Services Division:

Our comprehensive testing division houses one of the world's largest and most diverse collections of load measurement and testing equipment. With a dedicated team of experts, we serve a wide range of industries, prioritizing the safety, productivity, and profitability of our customers.





Water Bag Proof Load Testing



Auxiliary Rigging and Accessories

- ► In-house technical services
- Fully trained technicians
- Transportation to your site

Solid Weight Proof Load Testing



Modular Solid Weights



Holloway Houston supplies modular solid weights for the proof load testing of:

- Mobile Cranes
- Overhead Cranes
- Maritime Cranes
- Spreader Beams
- Multi-Point Lifting Beams
- Man Lifts
- Special Heavy Lift Equipment
- Winches
- Overboarding Equipment and More
- Solid Weights up to 780 Tons

| Dead Weight Baskets |
|---------------------|
| 100 t |
| 150 t |
| 280 t |
| 400 t |

Services Include:

- Certified ASTM E-4 specifications
- Full compliment of auxiliary
- rigging accessories
- Offshore transportability
- In house technical services
- Calibrated measuring equipment
- ► Full range of auxiliary rigging accessories
- In-house technical services



On-Site Testing and Inspection



Holloway's testing professionals, equipped with years of experience and a vast inventory of specialized tools including hydraulic jacks, load shackles, running line monitors, anti-two block systems, and more, provide unparalleled On-Site Testing and Inspection services.

Our On-Site Testing and Inspection services include:

- ► Tension Measurement
- Onboard Weighing
- Center of Gravity Calculations
- Calibration Services
- Specialty Weighing
- **▶** Crane Testing
- ▶ Pad Eye Pulling
- **▶** Field Socketing
- ▶ Field Testing of Sockets

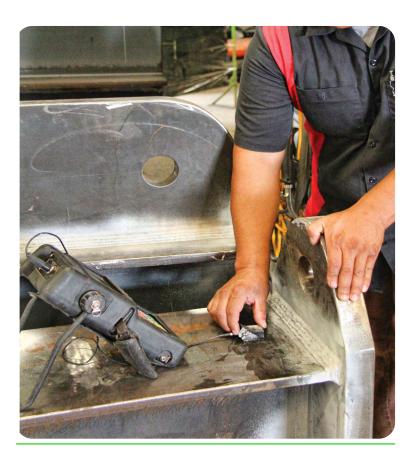
Inspection & Repair

Holloway's skilled inspection and repair team provides comprehensive repair and testing services for a wide range of equipment. Our expertise extends to the inspection of most lifting equipment types, including chains, slings, plate clamps, chain falls, come-alongs, load cells, blocks, and more. Other services include:

- Liquid Penetrant Testing
- Wet or Dry Magnetic Particle Inspection
- Ultrasonic Testing
- Pad Eye Visual Inspection
 & Proof Testing Sling
 Inspection and Recertification
- Sandblasting and Welding
- ► In-House Machining & Fabrication
- Experienced, Certified Welders



NDT Nondestructive Testing







Holloway's NDT specialists expertly assess and analyze the performance of structural components, reliably identifying flaws, discontinuities, and defects that could compromise structural integrity, equipment longevity, and worker safety.

We offer comprehensive non-destructive testing (NDT) services, utilizing the latest equipment and proven procedures, either on-site at your location or within our state-of-the-art labs.

At Holloway, we pride ourselves on providing rapid, 24/7 NDT testing services to minimize customer downtime and ensure uninterrupted operations.

With Holloway's NDT expertise, you gain access to premium service and results at a competitive price. By reducing testing costs, extending equipment life, and ensuring the safest possible work environment for your employees, we provide a comprehensive solution for your testing needs.





Rigging Inspection Services













Holloway is dedicated to providing comprehensive and cost-effective rigging inspection services that adhere to all recommended procedures from ASME, OSHA, and manufacturers. Our Rigging Inspection Department, staffed by a team of highly knowledgeable engineers with an outstanding industry reputation, works closely with you throughout your operation to ensure your rigging meets the highest standards of integrity and safety.

Our technicians thoroughly evaluate each and every component in your rigging system, including:

- **►**Hooks
- **▶**Chains
- ► Hoist rings
- **▶**Shackles
- **►**Eyebolts
- Load blocks
- ►Turn buckles

We also inspect all sling types, including:

- ▶ Wire rope
- ▶ Synthetic
- **▶** Web
- High Performance Slings
- ▶ Below-the-hook lifting devices

All Holloway rigging inspections include a comprehensive visual report detailing the condition of your rigging equipment. If any defects are identified in standard or custom rigs, we provide repair recommendations and actionable steps to enhance safety and ensure compliance with relevant regulations.

To learn more about Holloway's rigging inspection services, contact one of our knowledgeable representatives today.

Rigging Training

As part of our Value-Added proposition, Holloway Houston provides "Fundamentals of Rigging Safety" training seminars at NO COST to either existing or prospective clients. We see it as an investment in people's knowledge in order to promote a "risk management culture." Our goal is to provide you and your employees with a better understanding of how to properly select, inspect and use rigging gear. These training seminars are available at our facilities, in English or Spanish.

A typical seminar covers 4-hours and each attendee will receive the following items.

- 16-Panel Crosby "Users Guide for Lifting" Rigging Card (ASME)
- ► ASME / OSHA Based Product Application Seminar Workbook (Crosby)
- Holloway Houston, INC. Products Catalog
- The Crosby Group General Products Catalog
- Holloway Houston Certificate of Attendance
- Tour of Holloway Houston Facilities (optional)

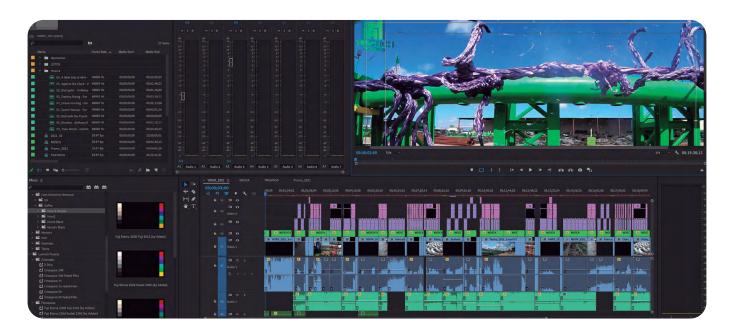








Multimedia Services







HHI's multimedia team specializes in break test footage, high-definition photos, and other documentation of testing, repair, and other services, as well as onsite footage and promotional videos. For more information about our affordable multimedia packages and services and how you can boost business with promotional video, please speak to your HHI sales representative.

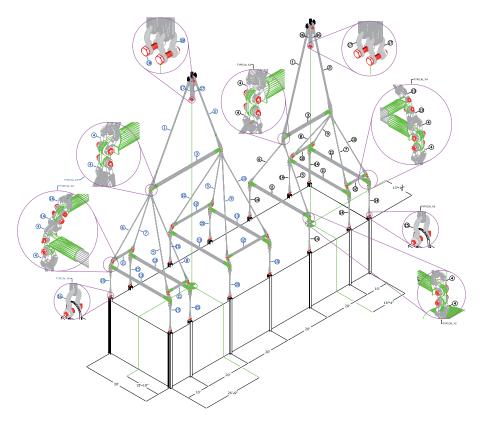
Technical Services

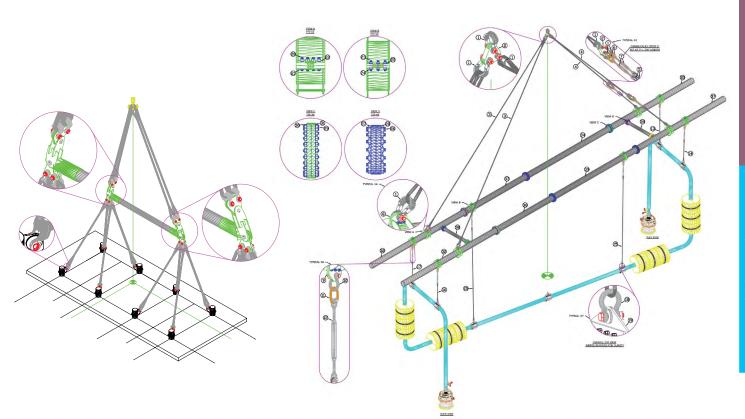
Lifting Solutions

Our lifting solutions provide comprehensive support for your projects. We specialize in tailored solutions, meticulous lift planning, and complete custom rigging systems. Leveraging our rental fleet, we offer various packages to ensure you have the right equipment. Our team is dedicated to providing safe, efficient, and innovative solutions.

Design and Fabrication

With certified expertise, our design and fabrication services deliver exceptional results. We hold industry certifications, ensuring the highest quality products. Our extensive product range covers a wide array of needs, and our engineering capabilities enable us to tackle complex challenges. Our fabrication services integrate engineering and manufacturing, providing custom solutions at competitive prices.





Stress

Technical Services

Data Acquisition

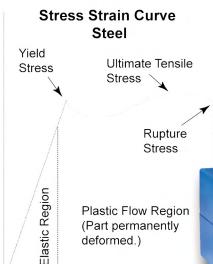
Holloway offers comprehensive strain gauge and thermocouple installation and testing services. We install these sensors in a wide range of on-site environments, utilizing various data acquisition, handling, and software systems to accurately capture and record strain gauge data.

Additionally, we offer in-house testing services for both strain gauges and thermocouples, following industry best practices and recommended procedures to ensure reliable results.

FEATURES:

- Stable, accurate, low-noise signal conditioning
- +/-0.5% measurement accuracy
- 0.5 microstrain measurement resolution
- Individual input cards for strain gauge and strain gauge-based transducers, sensors with high-level voltage outputs, and linear variable displacement transducers
- Built-in, electronically selectable bridge completion for 120-, 350-, and 1000-ohm strain gauges
- Maximum scan rate of 2048 samples per second
- Self-calibration traceable to NIST standard
- Simultaneous samples with anti-aliasing filter and analog-to-digital conversion for each channel

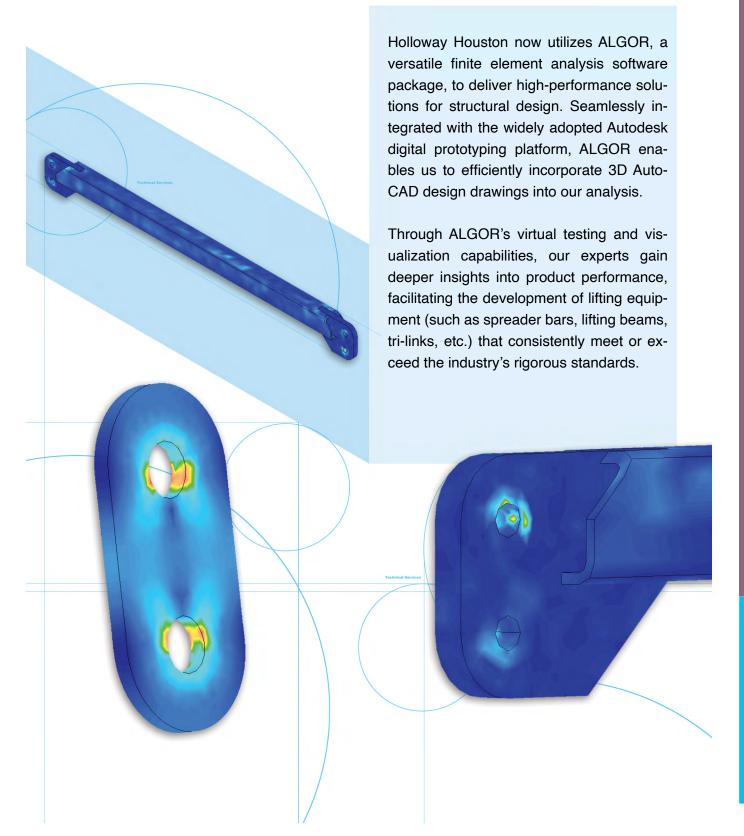






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Technical Services



Fabrication Services

Beyond our established expertise in rigging equipment sales and rentals, Holloway also excels in the fabrication of a diverse range of custom equipment and components, offered at competitive prices.

Our custom fabrication capabilities include:

- Spreader Bars
- ► Lifting Beams
- ▶ Lifting Frames
- Lifting Links
- ROV-Modified
- Hooks & Shackles
- Specialty Load Cells
- T-Cups
- And Much More
 - * Welders are qualified to AWS D1.1 standard.















Fabrication Services























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3-Part EIPS slings













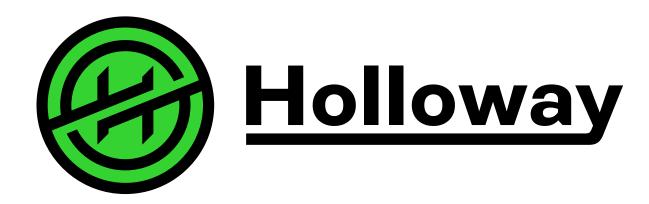












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Holloway



TESTING SERVICES



SYNTHETIC SLINGS



WIRE ROPE SLINGS



RENTAL PRODUCTS



RIGGING RENTALS



WIRE ROPE



WATER BAG PROOF LOAD TESTING



FABRICATION SERVICES



RIGGING ATTACHMENTS AND FITTINGS



OFF-ROAD SYNTHETIC SLINGS

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