



Silver Back HHperLift Slings



The HHperLift family of roundslings made with Honeywell Spectra 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

HHperLift Spectra Roundsling General and Technical Data

High Contact Rigging Efficiency (HCRE)

HHperLift Spectra roundslings offer superior rigging efficiency compared with conventional materials, such as wire rope, braided rope, and traditional roundslings that generally require fairly large and fixed diameters in relation to lifting potential.

HHperLift's advantage over braided rope or helically laid stranded yarn is its use of a special oversized triple cover with parallel laid yarn inside. This cover allows the user to reshape slings to better fit available load-bearing surfaces.

HHperLift Spectra® slings increase the contact of lifting fibers with the pin, allowing the use of a smaller shackle. Because the thickness of the fiber bundle in contact with the lifting area is reduced, the required 3:1 D/d ratio is maintained.

Ratings and Design Factors:

HHperLift Spectra® roundslings are rated in metric tons.

The design factor is 5:1 (Ultimate = 5 x rated load).

Exceeding rated capacity is not recommended.





HHIperLift High Capacity Roundslings

Characteristics and Advantages:

- ▶ Much stronger: Up to 40% greater specific strength than aramid fibers (Technora, Kevlar) with outstanding toughness and durability.
- ▶ Lightweight: Spectra slings are light enough to be manipulated without the use of special equipment or work-rated ROVs. A vertical 15' 75-ton sling weighs less than 75 pounds.
- ▶ Reduced elongation: Maximum of 3.8% at breaking load.
- ▶ Floatation properties: Lightweight, with 0.97-g/cc density. Tends to remain relatively stationary in deep water.
- ▶ Prolonged saltwater immersion tolerance: Honeywell Spectra® testing indicates no reduction in lifting capacity after 6 months of saltwater immersion and only 1-2% loss after 12 months of immersion.
- ▶ Excellent fatigue resistance.
- ▶ Superior damping characteristics (vibration, shock, and impact): Can withstand high-load strain rate velocities.
- ▶ High specific modulus: Excellent for lifting and mooring in ultra-deep water. Exceptional high-pressure resistance.
- ▶ High chemical resistance.
- ▶ Good UV resistance.
- ▶ Highly cut-resistant.
- ▶ Made in America: All Honeywell Spectra fibers and cover materials are manufactured in the U.S. Sling fabrication and load testing are performed at HHI's Houston facility.
- ▶ API-Q1 standards of design, calculation, and large sample testing, as well as other proven methods, are used in the development of Spectra roundslings.





HHIperLift High Capacity Roundslings



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:**
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

HHIperLift Spectra® roundslings should be used in accordance with OSHA roundsling guidelines. Keep in mind that while Spectra® fibers are extremely resistant to cuts, the three cover layers (nylon, Cordura, and polyester) can be cut much more easily.



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.





HHIperLift High Capacity Roundslings

HH-SP & HH-SPE

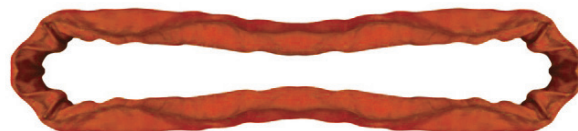
HHI Part Number Endless Roundslings	HHI Part Number Eye and Eye Roundslings	Vertical WLL in M Ton	Choker Hitch WLL in M Ton	Vertical Basket WLL in M Ton	Approx. Wgt/Ft Length (lbs.)	Recomm. Wide Body Shackles	Body Dia
HH-18T-SP	HH-18T-SPE	18t	14.4t	36t	.81	18t	1.43
HH-25T-SP	HH-25T-SPE	25t	20t	50t	1.13	30t	1.75
HH-50T-SP	HH-50T-SPE	50t	40t	100t	2.26	55t	2.38
HH-75T-SP	HH-75T-SPE	75t	60t	150t	3.39	75t	2.86
HH-100T-SP	HH-100T-SPE	100t	80t	200t	4.52	125t	3.5
HH-125T-SP	HH-125T-SPE	125t	100t	250t	5.65	125t	3.89
HH-150T-SP	HH-150T-SPE	150t	120t	300t	6.78	150t	4.29
HH-175T-SP	HH-175T-SPE	175t	140t	350t	7.91	200t	4.77
HH-200T-SP	HH-200T-SPE	200t	160t	400t	9.04	200t	4.93
HH-225T-SP	HH-225T-SPE	225t	180t	450t	10.17	250t	5.57
HH-250T-SP	HH-250T-SPE	250t	200t	500t	11.30	250t	5.89
HH-275T-SP	HH-275T-SPE	275t	220t	550t	12.43	300t	6.21
HH-300T-SP	HH-300T-SPE	300t	240t	600t	13.56	300t	6.52
HH-350T-SP	HH-350T-SPE	350t	280t	700t	15.83	400t	7.16
HH-400T-SP	HH-400T-SPE	400t	320t	800t	18.09	400t	7.48
HH-450T-SP	HH-450T-SPE	450t	360t	900t	20.35	500t	8.43
HH-500T-SP	HH-500T-SPE	500t	400t	1,000t	22.61	500t	8.91

*Larger Capacities Available upon Request

Three-layer DuraFab cover w/ parallel laid yarn, high contact rigging efficiency, rated capacity & 5:1 design factor.

Elongation, excellent fatigue & cut resistance, and good UV resistance.

Sling ratings are based on a standard type wide body shackle (or equivalent bearing surface) of equal or greater capacity.



Endless Roundslings



Eye And Eye Roundslings

