WIRE ROPE

INDUSTRIES (ATLANTIC)

PRODUCT CATALOGUE

Wire Rope
Wire Rope Slings
Chain Slings
Synthetic Slings
Trawl Warp
Guystrand
Hooks
Stainless Steel Hardware
Onsite Assembly
Fall Arrest
Inspection & Testing
Certification

TABLE OF CONTENTS

Wire Rope

CAUTIONS & WARNINGS FOR WIRE ROPE SLINGS

CAUTIONS

- When preparing the load, protect against:
- Twists and kinks in the sling
- Damage to sling from sharp edges and corners
- Trapping sling between or under loads
- Damage due to load turning in basket hitch
- Overloading sling and excessive sling leg angles
- Loading sling out of plain/side loading
- Point loading of hooks
- Exposure to excessive temperatures
- General abuse

SAFE OPERATING PRACTICES

- Know the working load limit of the equipment and tackle being used. **Never exceed this limit**
- Determine the load weight before rigging it
- Determine how the load is to be connected to the lifting hook and how the sling will grip, or be attached to the load.
- Inspect the sling before using it and destroy defective components. Discarded equipment may be used by someone not aware of the hazards and defects if it is not destroyed
- Never carry out any rigging or hoisting operation when the weather conditions are such that hazards to personnel, property or the public are created
- Stand clear of the lift
- Do not jerk the load

CARE, MAINTENANCE & INSPECTION

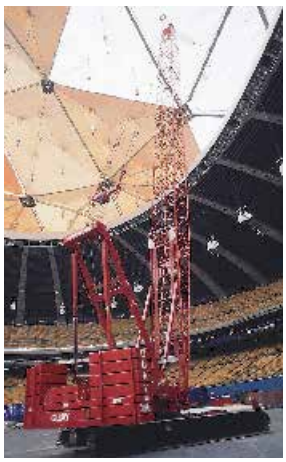
- When placing the sling into storage, the following should be considered:
- Remove dirt and other foreign materials
- Examine for broken wires, wear, abrasion, distortion, heat damage, knots and kinks
- Discard cracked, bent, worn or broken end fittings
- Examine for excessive stretch
- Assess corrosion (pitting or binding of wires)
- Assess sleeve damage or pulled eyes
- Lubricate to forestall rust
- Hang in clean dry area and avoid entanglement
- Keep an accurate written and dated record of all conditions
- Immediately dispose of slings that are rejected
- Each day before being used, a competent person shall inspect the sling and attachments for damage or defects. Additional inspections shall be performed at regular intervals based on:
  - (1) frequency of sling use
  - (2) severity of service conditions
  - (3) nature of lifts
  - (4) prior experience based on service life of slings used in similar circumstances.
- Damaged or defective slings shall be immediately removed from service. ANSI Std B30.9 & OSHA

ORDERING SLINGS

- Specify:
- Diameter of the rope
- Sling length – indicating whether measurements are bearing point to bearing point, overall length or centre to centre of the pin
- Type of sling required
- Mechanical spliced or handspliced
- Wire rope construction
- Attachments required
- Grommet slings should be ordered according to the finished diameter of the wire rope and the inside circumference

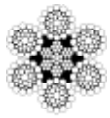
QUALITY CHECKED √	WRIA's internal quality audit system, which ensures that sleeves, ferrules and other swaged terminals are correctly pressed and immediately painted for identification purposes.

WIRE ROPE SLINGS



- Flemish-rolled high efficiency eyes
- Quality checked durable steel sleeves
- IWRC crush resistant core
- E.I.P.S. strength increases capacity
- Manufactured in accordance with ASME B30.9 standards
- Customized to specifications

Working Load Limit

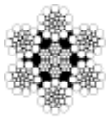
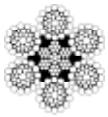
Performance Series®	Diameter inches (mm)	Vertical		*Choker		*Basket	
		lbs	(kN)	lbs	(kN)	lbs	(kN)
	6 x 26 E.I.P.S. IWRC						
 **6 x 26 E.I.P.S. IWRC**	1/4 (6)	1,300	(5.8)	960	(4.3)	2,600	(11.6)
	5/16 (8)	2,000	(8.9)	1,480	(6.6)	4,000	(17.8)
	3/8 (10)	2,800	(12.5)	2,200	(9.8)	5,800	(25.8)
	7/16 (11)	3,800	(16.9)	2,800	(12.5)	7,800	(34.7)
	1/2 (13)	5,000	(22.2)	3,800	(16.9)	10,200	(45.4)
	9/16 (14)	6,400	(28.5)	4,800	(21.4)	12,800	(56.9)
	5/8 (16)	7,800	(34.7)	5,800	(25.8)	15,600	(69.4)
	3/4 (19)	11,200	(49.8)	8,200	(36.5)	22,000	(97.9)
	7/8 (22)	15,200	(67.6)	11,200	(49.8)	30,000	(133.4)
	1 (25)	19,600	(87.2)	14,400	(64.1)	40,000	(177.9)
	6 x 36 E.I.P.S. IWRC						
 **6 x 36 E.I.P.S. IWRC**	1-1/8 (29)	24,000	(106.8)	18,200	(81.0)	48,000	(213.5)
	1-1/4 (32)	30,000	(133.4)	22,000	(97.9)	60,000	(266.9)
	1-3/8 (35)	36,000	(160.1)	26,000	(115.7)	72,000	(320.3)
	1-1/2 (38)	42,000	(186.8)	32,000	(142.3)	84,000	(373.6)
	1-3/4 (44)	56,000	(249.1)	42,000	(186.8)	114,000	(507.1)
	2 (51)	74,000	(329.2)	56,000	(249.1)	146,000	(649.4)
	2-1/4 (57)	88,000	(391.4)	70,000	(311.4)	178,000	(791.8)
	2-1/2 (63)	108,000	(480.4)	84,000	(373.6)	218,000	(969.7)
	2-3/4 (70)	130,000	(578.3)	102,000	(453.7)	260,000	(1156.5)
	3 (76)	154,000	(685.0)	120,000	(533.8)	306,000	(1361.1)

Note:
* Rated capacities based on minimum curvature of 25xD at rope/load contact points
- Rated capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter
- Calculated based on 5:1 working load factor and the use of Performance Series® wire ropes

Reference:
- ASME Spec. B30.9 latest revision

WIRE ROPE SLING COMPONENTS

Dimensions

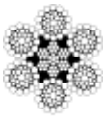
Performance Series®	Diameter inches (mm)	Standard Eye inches		Minimum Length	Thimble Eye inches	Eye Hook Tons		Sliding Hook	Screw Pin Shackle
		A	B	feet	W x L	Carbon	Alloy	inches	inches
	6 x 26 E.I.P.S. IWRC								
 **6X26 E.I.P.S. IWRC**	1/4 (6)	2	4	1.5	7/8 x 1-5/8	3/4	1	3/8	5/16
	5/16 (8)	2-1/2	5	2.0	1-1/16 x 1-7/8	1	1	3/8	3/8
	3/8 (10)	3	6	2.0	1-1/8 x 2-1/8	1-1/2	1-1/2	3/8	7/16
	7/16 (11)	3-1/2	6	2.5	1-1/4 x 2-3/8	2	2	1/2	1/2
	1/2 (13)	4	8	2.5	1/2 x 2-3/4	3	3	1/2	5/8
	9/16 (14)	4-1/2	9	3.0	1-1/2 x 2-3/4	5	4-1/2	5/8	5/8
	5/8 (16)	5	10	3.0	1-3/4 x 3-1/4	5	4-1/2	5/8	3/4
	3/4 (19)	6	12	3.5	2 x 3-3/4	7-1/2	7	3/4	7/8
	7/8 (22)	7	14	4.0	2-1/4 x 4-1/4	10	11	–	1
	1 (25)	8	16	4.5	2-1/2 x 4-1/2	10	11	–	1-1/8
	6 x 36 E.I.P.S. IWRC								
 **6X36 E.I.P.S. IWRC**	1-1/8 (29)	9	18	5.0	2-7/8 x 5-1/8	15	15	–	1-1/4
	1-1/4 (32)	10	20	5.5	2-7/8 x 5-1/8	15	15	–	1-1/2
	1-3/8 (35)	11	22	6.0	3-1/2 x 6-1/4	20	22	–	1-3/4
	1-1/2 (38)	12	24	7.0	3-1/2 x 6-1/4	25	22	–	1-3/4
	1-3/4 (44)	14	28	8.0	4-1/2 x 9	30	30	–	2
	2 (51)	16	32	9.0	6 x 12	40	37	–	2-1/2
	2-1/4 (57)	18	36	10.0	7 x 14	–	45	–	–
	2-1/2 (63)	20	40	11.0	–	–	–	–	–

WIRE ROPE BRIDLES – 2 LEGGED

- Specially designed and matched legs improve load balance
- Quality components increase sling life
- Flemish-rolled high efficiency thimble eyes
- Quality checked durable steel sleeves
- E.I.P.S. strength increases capacity
- Manufactured in accordance with ASME B30.9 standards

Standard Options:

Working Load Limit

Performance Series®	Diameter inches (mm)	60° lbs	60° (kN)	45° lbs	45° (kN)	30° lbs	30° (kN)
		6 x 26 E.I.P.S. IWRC					
 **6X26 E.I.P.S. IWRC**	1/4 (6)	2,252	(10.0)	1,838	(8.2)	1,300	(5.8)
	5/16 (8)	3,464	(15.4)	2,828	(12.6)	2,000	(8.9)
	3/8 (10)	4,850	(21.6)	3,960	(17.6)	2,800	(12.5)
	7/16 (11)	6,582	(29.3)	5,374	(23.9)	3,800	(16.9)
	1/2 (13)	8,660	(38.5)	7,071	(31.5)	5,000	(22.2)
	9/16 (14)	11,085	(49.3)	9,051	(40.3)	6,400	(28.5)
	5/8 (16)	13,510	(60.1)	11,031	(49.1)	7,800	(34.7)
	3/4 (19)	19,399	(86.3)	15,839	(70.5)	11,200	(49.8)
	7/8 (22)	26,327	(117.1)	21,496	(95.6)	15,200	(67.6)
	1 (25)	33,948	(151.0)	27,719	(123.3)	19,600	(87.2)
		6 x 36 E.I.P.S. IWRC					
 **6X36 E.I.P.S. IWRC**	1-1/8 (29)	41,569	(184.9)	33,941	(151.0)	24,000	(106.8)
	1-1/4 (32)	51,962	(231.1)	42,426	(188.7)	30,000	(133.4)
	1-3/8 (35)	62,354	(277.4)	50,912	(226.5)	36,000	(160.1)
	1-1/2 (38)	72,746	(323.6)	59,397	(264.2)	42,000	(186.8)
	1-3/4 (44)	96,995	(431.5)	79,196	(352.3)	56,000	(249.1)
	2 (51)	128,172	(570.1)	104,652	(465.5)	74,000	(329.2)

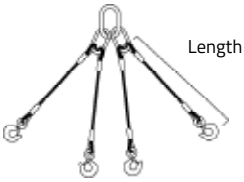
Note:
- Rated capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter
- Calculated based on 5:1 working load factor and the use of Performance Series® wire ropes

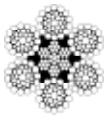
Reference:
- ASME Spec. B30.9 latest revision

WIRE ROPE BRIDLES – MULTIPLE LEGS

- Multiple matched legs maximize load control
- Quality components improve sling life
- Flemish-rolled high efficiency thimble eyes
- Quality checked durable steel sleeves
- E.I.P.S. strength increases capacity
- Manufactured in accordance with ASME B30.9 standards

Working Load Limit



Performance Series®	Diameter inches (mm)	60°		45°		30°		60°		45°		30°	
		lbs	(kN)	lbs	(kN)	lbs	(kN)	lbs	(kN)	lbs	(kN)	lbs	(kN)
		6 x 26 E.I.P.S. IWRC											
 6X26 E.I.P.S. IWRC	1/4 (6)	3,400	(15.1)	2,800	(12.5)	1,940	(8.6)	4,400	(19.6)	3,600	(16.0)	2,600	(11.6)
	5/16 (8)	5,200	(23.1)	4,200	(18.7)	3,000	(13.3)	7,000	(31.1)	5,600	(24.9)	4,000	(17.8)
	3/8 (10)	7,400	(32.9)	6,000	(26.7)	4,400	(19.6)	10,000	(44.5)	8,200	(36.5)	5,800	(25.8)
	7/16 (11)	10,000	(44.5)	8,200	(36.5)	5,800	(25.8)	13,400	(59.6)	11,000	(48.9)	7,800	(34.7)
	1/2 (13)	13,200	(58.7)	10,800	(48.0)	7,600	(33.8)	17,600	(78.3)	14,200	(63.2)	10,200	(45.4)
	9/16 (14)	16,600	(73.8)	13,600	(60.5)	9,600	(42.7)	22,000	(97.9)	18,000	(80.1)	12,800	(56.9)
	5/8 (16)	20,000	(89.0)	16,600	(73.8)	11,800	(52.5)	28,000	(124.5)	22,000	(97.9)	15,600	(69.4)
	3/4 (19)	30,000	(133.4)	24,000	(106.8)	16,800	(74.7)	38,000	(169.0)	32,000	(142.3)	22,000	(97.9)
	7/8 (22)	40,000	(177.9)	32,000	(142.3)	22,000	(97.9)	52,000	(231.3)	42,000	(186.8)	30,000	(133.4)
	1 (25)	52,000	(231.3)	42,000	(186.8)	30,000	(133.4)	68,000	(302.5)	56,000	(249.1)	40,000	(177.9)
		6 x 36 E.I.P.S. IWRC											
 6X36 E.I.P.S. IWRC	1-1/8 (29)	62,000	(275.8)	52,000	(231.3)	36,000	(160.1)	84,000	(373.6)	68,000	(302.5)	48,000	(213.5)
	1-1/4 (32)	76,000	(338.1)	62,000	(275.8)	44,000	(195.7)	102,000	(453.7)	84,000	(373.6)	60,000	(266.9)
	1-3/8 (35)	92,000	(409.2)	76,000	(338.1)	54,000	(240.2)	124,000	(551.6)	100,000	(444.8)	72,000	(320.3)
	1-1/2 (38)	110,000	(489.3)	90,000	(400.3)	64,000	(284.7)	146,000	(649.4)	120,000	(533.8)	84,000	(373.6)

Note:
- Rated capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter
- Calculated based on 5:1 working load factor and the use of Performance Series® wire ropes

Reference:
- ASME Spec. B30.9 latest revision

Caution It is wrong to assume that a three or four leg bridle will have a capacity directly based on the number of legs unless each leg is exactly equal in length, equally sharing the load and equally spaced around the centre of gravity. The above values are based on these criteria

Standard Options:

WIRE ROPE BRIDLE COMPONENTS

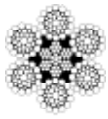
Dimensions

Performance Series®	Diameter inches (mm)	Minimum Length	Sliding Hook	Eye Hook Tons		2 Legged Oblong Ring	3 Legged Oblong Ring	4 Legged Oblong Sub-Assembly
		feet	inches	Carbon	Alloy	Diameter - inches		
	6 x 26 E.I.P.S. IWRC							
6X26 E.I.P.S. IWRC	1/4 (6)	1.25	3/8	3/4	1	1/2	1/2	3/4
	5/16 (8)	1.50	3/8	1	1	1/2	3/4	3/4
	3/8 (10)	1.67	3/8	1-1/2	1-1/2	3/4	3/4	1
	7/16 (11)	1.83	1/2	2	2	3/4	3/4	1
	1/2 (13)	2.00	1/2	3	3	3/4	1	1
	9/16 (14)	2.17	5/8	5	4-1/2	1	1	1
	5/8 (16)	2.67	5/8	5	4-1/2	1	1	1-1/4
	3/4 (19)	2.75	3/4	7-1/2	7	1	1-1/4	1-1/4
	7/8 (22)	3.25	–	10	11	1-1/4	1-1/2	2
	1 (25)	3.50	–	10	11	1-1/2	1-3/4	2
	6 x 36 E.I.P.S. IWRC							
6X36 E.I.P.S. IWRC	1-1/8 (29)	4.50	–	15	15	1-1/2	1-3/4	2
	1-1/4 (32)	4.50	–	15	15	1-3/4	2	2-1/4
	1-3/8 (35)	5.00	–	20	22	1-3/4	2	2-1/2
	1-1/2 (38)	5.50	–	25	22	2	2-1/4	2-1/2
	1-3/4 (44)	6.50	–	30	30	2	–	–
	2 (51)	8.00	–	40	37	2-1/2	–	–

ENDLESS SLINGS – MECHANICAL SPLICE

- E.I.P.S. endless construction maximizes capacity by diameter
- Potential diameter downsizing reduces sling weight
- Wear point distribution extends sling life
- Double basket and choker hitch improves load stability
- Quality checked durable steel sleeves
- Manufactured in accordance with ASME B30.9 standards

Working Load Limit

Performance Series®	Diameter inches (mm)	Vertical		Choker		Basket	
		lbs	(kN)	lbs	(kN)	lbs	(kN)
	6 x 26 E.I.P.S. IWRC						
 **6X26 E.I.P.S. IWRC**	1/4 (6)	2,000	(8.9)	1,420	(6.3)	4,000	(17.8)
	5/16 (8)	3,200	(14.2)	2,200	(9.8)	6,200	(27.6)
	3/8 (10)	4,600	(20.5)	3,200	(14.2)	9,000	(40.0)
	7/16 (11)	6,200	(27.6)	4,200	(18.7)	12,200	(54.3)
	1/2 (13)	7,800	(34.7)	5,600	(24.9)	15,800	(70.3)
	9/16 (14)	10,000	(44.5)	7,000	(31.1)	20,000	(89.0)
	5/8 (16)	12,200	(54.3)	8,600	(38.3)	24,000	(106.8)
	3/4 (19)	17,600	(78.3)	12,400	(55.2)	36,000	(160.1)
	7/8 (22)	24,000	(106.8)	16,600	(73.8)	48,000	(213.5)
	1 (25)	30,000	(133.4)	22,000	(97.9)	62,000	(275.8)
	6 x 36 E.I.P.S. IWRC						
 **6X36 E.I.P.S. IWRC**	1-1/8 (29)	38,000	(169.0)	28,000	(124.5)	78,000	(347.0)
	1-1/4 (32)	48,000	(213.5)	34,000	(151.2)	96,000	(427.0)
	1-3/8 (35)	58,000	(258.0)	40,000	(177.9)	114,000	(507.1)
	1-1/2 (38)	68,000	(302.5)	48,000	(213.5)	136,000	(605.0)
	1-3/4 (44)	92,000	(409.2)	64,000	(284.7)	182,000	(809.6)
	2 (51)	118,000	(524.9)	82,000	(364.8)	236,000	(1049.8)
	2-1/4 (57)	148,000	(658.3)	104,000	(462.6)	296,000	(1316.7)

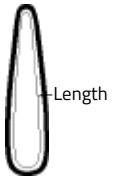
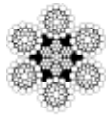
Note:
- Rated capacities based on minimum curvature of 5xD at rope/load contact points
- Calculated based on 5:1 working load factor and the use of Performance Series® wire ropes
- Inside circumferential length "L" should be specified when ordering

Reference:
- Wire Rope Technical Board Sling Manual

ENDLESS GROMMETS – ROPE-LAID

- Hand-made single strand construction
- No sleeves to snag on loads
- E.I.P.S. endless construction increases capacity by diameter
- Wear point can be shifted extending grommet life
- Double basket and choker hitch improves load stability
- Manufactured in accordance with ASME B30.9 standards

Working Load Limit

							
Performance Series®	**Diameter inches (mm)**	**Vertical**		**Choker**		**Basket**	
		lbs	**(kN)**	**lbs**	**(kN)**	**lbs**	**(kN)**
 **6X26 E.I.P.S. IWRC**	**6 x 26 E.I.P.S. IWRC**						
	1/4 (6)	1,880	(8.4)	1,320	(5.9)	3,800	(16.9)
	3/8 (10)	4,200	(18.7)	3,000	(13.3)	8,400	(37.4)
	1/2 (13)	7,400	(32.9)	5,200	(23.1)	14,600	(64.9)
	5/8 (16)	11,400	(50.7)	8,000	(35.6)	22,000	(97.9)
	3/4 (19)	16,400	(73.0)	11,400	(50.7)	32,000	(142.3)
	7/8 (22)	22,000	(97.9)	15,400	(68.5)	44,000	(195.7)
	1 (25)	28,000	(124.5)	20,000	(89.0)	58,000	(258.0)
 **6X36 E.I.P.S. IWRC**	**6 x 36 E.I.P.S. IWRC**						
	1-1/8 (29)	36,000	(160.1)	24,000	(106.8)	70,000	(311.4)
	1-1/4 (32)	42,000	(186.8)	30,000	(133.4)	86,000	(382.5)
	1-3/8 (35)	50,000	(222.4)	36,000	(160.1)	102,000	(453.7)
	1-1/2 (38)	60,000	(266.9)	42,000	(186.8)	120,000	(533.8)
	1-3/4 (44)	80,000	(355.9)	56,000	(249.1)	158,000	(702.8)
	2 (51)	100,000	(444.8)	70,000	(311.4)	202,000	(898.5)
	2-1/4 (57)	124,000	(551.6)	86,000	(382.5)	248,000	(1103.2)

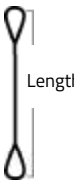
Note:
- Rated capacities based on minimum curvature of 5xD at rope/load contact points
- Calculated based on 5:1 working load factor and the use of Performance Series® wire ropes
- Inside circumferential length "L" should be specified when ordering

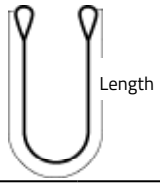
Reference:
- Wire Rope Technical Board Sling Manual

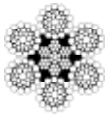
HAND SPLICED SLINGS

- Hand-spliced eyes do not catch under loads
- Optional splice servings protect hands from injury
- IWRC crush resistant core
- E.I.P.S. strength increases capacity
- Manufactured in accordance with ASME B30.9 standards
- Customized to specifications
- Not recommended for overhead lifting

Working Load Limit



Performance Series®	Diameter inches (mm)	Vertical		*Choker		*Basket		Standard Eye inches	
		lbs	(kN)	lbs	(kN)	lbs	(kN)	A	B
	6 x 26 E.I.P.S. IWRC								
 6X26 E.I.P.S. IWRC	1/4 (6)	1,260	(5.6)	990	(4.4)	2,520	(11.2)	2	4
	5/16 (8)	1,744	(7.8)	1, 386	(6.2)	3,489	(15.5)	2-1/2	5
	3/8 (10)	2,658	(11.8)	2,135	(9.5)	5,315	(23.6)	3	6
	7/16 (11)	3,550	(15.8)	2,885	(12.8)	7,099	(31.6)	3-1/2	7
	1/2 (13)	4,575	(20.4)	3,761	(16.7)	9,150	(40.7)	4	8
	9/16 (14)	5,712	(25.4)	4,751	(21.1)	11,424	(50.8)	4-1/2	9
	5/8 (16)	6,922	(30.8)	5,826	(25.9)	13,843	(61.6)	5	10
	3/4 (19)	9,643	(42.9)	8,314	(37.0)	19,286	(85.8)	6	12
	7/8 (22)	12,736	(56.7)	11,255	(50.1)	25,472	(113.3)	7	14
	1 (25)	16,544	(73.6)	14,621	(65.0)	33,088	(147.2)	8	16
	6 x 36 E.I.P.S. IWRC								
 6X36 E.I.P.S. IWRC	1-1/8 (29)	20,800	(92.5)	18,382	(81.8)	41,600	(185.0)	9	18
	1-1/4 (32)	25,568	(113.7)	22,596	(100.5)	51,136	(227.5)	10	20
	1-3/8 (35)	30,720	(136.6)	27,149	(120.8)	61,440	(273.3)	11	22
	1-1/2 (38)	36,480	(162.3)	32,239	(143.4)	72,960	(324.5)	12	24
	1-3/4 (44)	48,960	(217.8)	43,268	(192.5)	97,920	(435.6)	14	28
	2 (51)	63,360	(281.8)	55,994	(249.1)	126,720	(563.7)	16	32
	2-1/4 (57)	79,040	(351.6)	69,852	(310.7)	158,080	(703.2)	18	36
	2-1/2 (63)	96,640	(429.9)	85,406	(379.9)	193,280	(859.7)	20	40

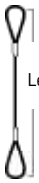
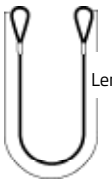
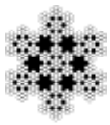
Note:
* Rated capacities based on minimum curvature of 15xD at rope/load contact points
- Rated capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter
- Calculated based on 5:1 working load factor and the use of Performance Series® wire ropes

Reference: ▪ Wire Rope Technical Board Sling Manual

CABLE-LAID SLINGS

- 7x7x7/19 flexible construction resists kinks
- Ideally suited to bend around smaller diameter surfaces
- Galvanized rope available for corrosion resistance
- Flemish-rolled high efficiency eyes
- Manufactured in accordance with ASME B30.9 standards
- Customized to specifications
- Available with standard eyes or thimble eyes

Working Load Limit

										
Cable-Laid	**Diameter inches (mm)**	**Vertical**		***Choker**		***Basket**		**Standard Eye inches**		**Minimum feet**
		lbs	**(kN)**	**lbs**	**(kN)**	**lbs**	**(kN)**	**A**	**B**	**Length**
 **7X7X7(19)**	**7 x 7 x 7 (19)**									
	1/4 (6)	1,000	(4.4)	680	(3.0)	2,000	(8.9)	2	4	1.50
	3/8 (10)	2,200	(9.8)	1,480	(6.6)	4,400	(19.6)	3	6	2.00
	1/2 (13)	3,800	(16.9)	2,600	(11.6)	7,400	(32.9)	4	8	2.50
	5/8 (16)	5,600	(24.9)	3,800	(16.9)	11,000	(48.9)	5	10	3.00
	3/4 (19)	8,200	(36.5)	5,600	(24.9)	16,200	(72.1)	6	12	3.50
	7/8 (22)	10,800	(48.0)	7,400	(32.9)	22,000	(97.9)	7	14	4.00
	1 (25)	13,800	(61.4)	9,400	(41.8)	28,000	(124.5)	8	16	4.50

Note:

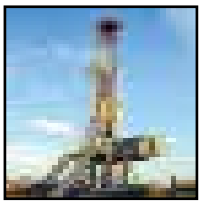
* Rated capacities based on minimum curvature of 10xD at rope/load contact points

- Rated capacities based on pin diameter no larger than natural eye width or less than the nomin
- Calculated based on 5:1 working load factor and the use of Performance Series® wire rope

Reference:

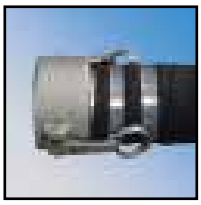
- Wire Rope Technical Board Sling Manual

INFOCHIP INSPECTIONS, MAINTENANCE & TRACKING



Drilling & Oilfield

Lifting & Fall Protection



Fluid Handling

Plants & Facilities

Vehicles & Vessels

Fire & Safety

InfoChip delivers innovative solutions that streamline any inspection and maintenance process. Mobile computing, Radio Frequency (RFID) tagging and internet applications provide you, your contractors, and your customers enhanced accuracy and operational efficiency. Not to mention eliminating most of the paperwork.

The Info Chip Advantage:

- Eliminates the errors and time constraints associated with paperwork, faxing and re-keying of data
- Avoid underutilization – eliminate calendar method of swapping out used assets
- Instruction driven inspections with digital checklists
- Timestamps prove when & where inspection took place
- RFID employee cards manage access and provide accountability
- Durable, accurate and immediate identification with RFID.
- Accommodates barcode and traditional serial number tag data.
- Simple to use electronic inspections and e-forms enforce rules
- Alert service teams and management automatically on overdue inspections / certifications and corresponding work order details
- Streamline digital inventory counts, balances and location tracking
- Immediate access to inspection and maintenance history through secure, hosted online database for manufacturers, distributors and end-users
- Functions with predictive maintenance systems
- Endorsed by safety auditors

Mobile:

- Identification
- Inspections
- Preventative Maintenance
- Certifications
- Inventory
- Asset Tracking

Immediate

InfoChip utilizes durable RFID chips for fast and accurate identification. Handheld computers capture inspections and maintenance operations, eliminating manual data entry. Convert unit-of-measure (lbs to kgs, PSI to kPa, etc.) on the fly for field operations. Capture equipment entering in and out of service as well as location transfers. All data is synchronized back to the online database and automatically disseminated to other parties.

Flexible

Enable your team or service provider to record any operation. This may include daily inspections, scheduled maintenance and annual certifications. Mobile handheld software guides users step-by-step through any task or procedure. Each job is time-stamped by user to ensure a reliable audit record.

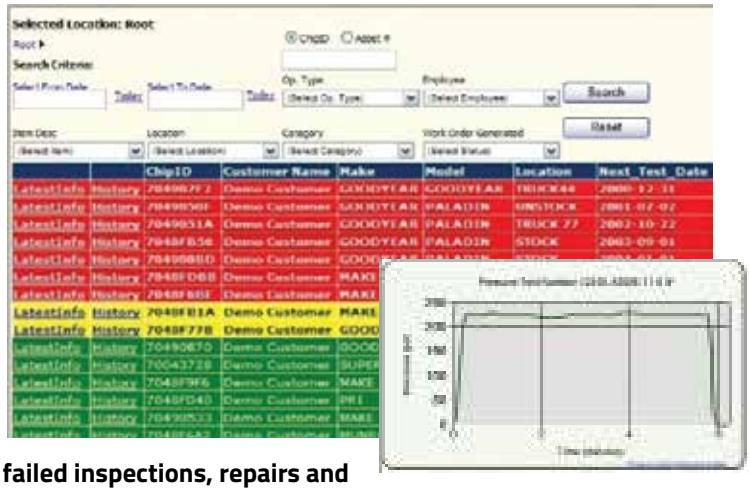
Versatile

InfoChip tracks any asset. Tailor category and item-specific attributes, inspection forms, test forms, material certs and other documentation. Initiate items in the shop or field. This is made simple with prefilled templates and dropdown menus for any asset detail you need to track.

Mobile inspections report by location

Always Available

InfoChip includes a secure online database hosting your entire asset operation history. Management are notified with alerts for

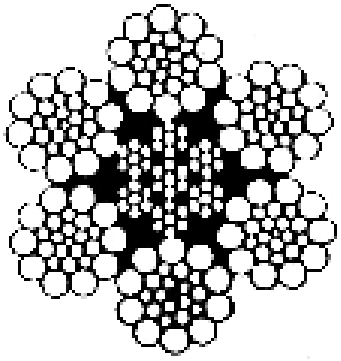


failed inspections, repairs and work order details. Various reports alert you to overdue service and inspections. Find specific assets by various search criteria including ID #, location, owner, etc. Asset detail history includes:

- **Attribute history (ie. size, length)**
- **Location tracking log**
- **Material certifications and test inspection history**
- **Asset performance analytics — evaluate usage history, performance, brand comparisons & more**
- **Complete backup download of your online database is also available.**

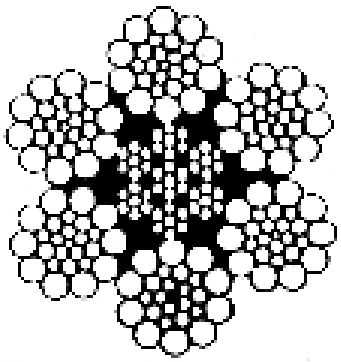
WIRE ROPE

6x26 Bright Finish EIPS IWRC Core			
Diameter inches (mm)	Nominal Breaking Strength tons	LB/FT	KG/M
1/4 (6.35)	3.40	0.12	0.18
5/16 (7.94)	5.27	0.18	0.27
3/8 (9.53)	7.55	0.26	0.39
7/16 (11.11)	10.20	0.35	0.52
1/2 (12.7)	13.30	0.46	0.68
9/16 (14.29)	16.80	0.59	0.88
5/8 (15.88)	20.60	0.72	1.07
3/4 (19.05)	29.40	1.04	1.55
7/8 (22.23)	39.80	1.42	2.11
1 (25.4)	51.70	1.85	2.75
1-1/8 (28.58)	65.00	2.34	3.48
1-1/4 (31.75)	79.90	2.89	4.30
1-3/8 (34.93)	96.00	3.50	5.21
1-1/2 (38.1)	114.00	4.16	6.19



6 X 26

6x26 Galvanized Finish EIPS IWRC Core			
Diameter inches (mm)	Nominal Breaking Strength tons	LB/FT	KG/M
1/4 (6.35)	3.40	0.12	0.18
5/16 (7.94)	5.27	0.18	0.27
3/8 (9.53)	7.55	0.26	0.39
7/16 (11.11)	10.20	0.35	0.52
1/2 (12.7)	13.30	0.46	0.68
9/16 (14.29)	16.80	0.59	0.88
5/8 (15.88)	20.60	0.72	1.07
3/4 (19.05)	29.40	1.04	1.55
7/8 (22.23)	39.80	1.42	2.11
1 (25.4)	51.70	1.85	2.75
1-1/8 (28.58)	65.00	2.34	3.48
1-1/4 (31.75)	79.90	2.89	4.30
1-3/8 (34.93)	96.00	3.50	5.21
1-1/2 (38.1)	114.00	4.16	6.19

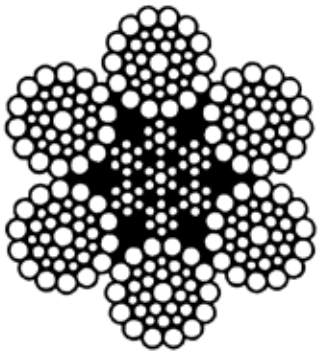


6 X 26

WIRE ROPE

6x36 Bright Finish EIPS IWRC Core

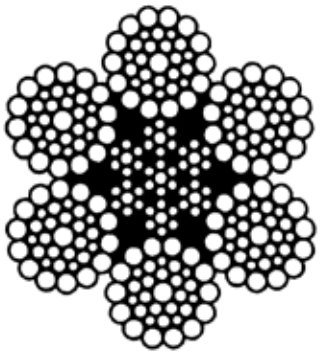
Diameter inches (mm)	Nominal Breaking Strength tons	LB/FT	KG/M
1/4 (6.35)	3.40	0.12	0.18
5/16 (7.94)	5.27	0.18	0.27
3/8 (9.53)	7.55	0.26	0.39
7/16 (11.11)	10.20	0.35	0.52
1/2 (12.7)	13.30	0.46	0.68
9/16 (14.29)	16.80	0.59	0.88
5/8 (15.88)	20.60	0.72	1.07
3/4 (19.05)	29.40	1.04	1.55
7/8 (22.23)	39.80	1.42	2.11
1 (25.4)	51.70	1.85	2.75
1-1/8 (28.58)	65.00	2.34	3.48
1-1/4 (31.75)	79.90	2.89	4.30
1-3/8 (34.93)	96.00	3.50	5.21
1-1/2 (38.1)	114.00	4.16	6.19
1-3/4 (44.45)	153.00	5.67	8.44
2 (50.8)	198.00	7.39	11.00
2-1/4 (57.15)	247.00	9.36	13.93
2-1/2 (63.5)	302.00	11.60	17.26



6 X 36

6x36 Galvanized Finish EIPS IWRC Core

Diameter inches (mm)	Nominal Breaking Strength tons	LB/FT	KG/M
1/4 (6.35)	3.40	0.12	0.18
5/16 (7.94)	5.27	0.18	0.27
3/8 (9.53)	7.55	0.26	0.39
7/16 (11.11)	10.20	0.35	0.52
1/2 (12.7)	13.30	0.46	0.68
9/16 (14.29)	16.80	0.59	0.88
5/8 (15.88)	20.60	0.72	1.07
3/4 (19.05)	29.40	1.04	1.55
7/8 (22.23)	39.80	1.42	2.11
1 (25.4)	51.70	1.85	2.75
1-1/8 (28.58)	65.00	2.34	3.48
1-1/4 (31.75)	79.90	2.89	4.30
1-3/8 (34.93)	96.00	3.50	5.21
1-1/2 (38.1)	114.00	4.16	6.19
1-3/4 (44.45)	153.00	5.67	8.44
2 (50.8)	198.00	7.39	11.00
2-1/4 (57.15)	247.00	9.36	13.93
2-1/2 (63.5)	302.00	11.60	17.26
3 (76.2)	425.00	16.60	24.70

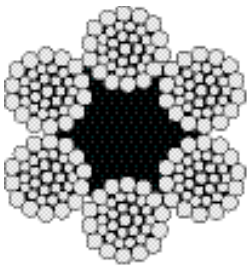


6 X 36

WIRE ROPE

6x36 Bright Finish EIPS with FC Core

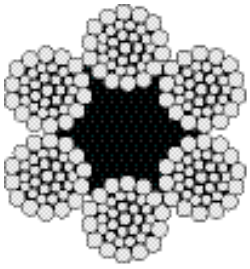
Diameter inches (mm)	Nominal Breaking Strength tons	LB/FT	KG/M
1/4 (6.35)	3.02	0.11	0.16
5/16 (7.94)	4.69	0.16	0.24
3/8 (9.53)	6.72	0.24	0.36
7/16 (11.11)	9.10	0.32	0.48
1/2 (12.7)	11.80	0.42	0.62
9/16 (14.29)	14.90	0.53	0.79
5/8 (15.88)	18.30	0.72	1.07
3/4 (19.05)	26.20	0.95	1.41
7/8 (22.23)	35.40	1.18	1.76
1 (25.4)	46.00	1.68	2.50
1-1/8 (28.58)	57.80	1.91	2.84
1-1/4 (31.75)	71.10	2.36	3.51
1-3/8 (34.93)	85.50	3.18	4.73
1-1/2 (38.1)	101.00	3.78	5.63



6 X 36

6x36 Galvanized Finish EIPS FC Core

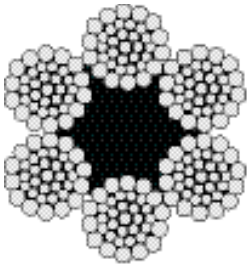
Diameter inches (mm)	Nominal Breaking Strength tons	LB/FT	KG/M
1/4 (6.35)	3.02	0.11	0.16
5/16 (7.94)	4.69	0.16	0.24
3/8 (9.53)	6.72	0.24	0.36
7/16 (11.11)	9.10	0.32	0.48
1/2 (12.7)	11.80	0.42	0.62
9/16 (14.29)	14.90	0.53	0.79
5/8 (15.88)	18.30	0.72	1.07
3/4 (19.05)	26.20	0.95	1.41
7/8 (22.23)	35.40	1.18	1.76
1 (25.4)	46.00	1.68	2.50
1-1/8 (28.58)	57.80	1.91	2.84
1-1/4 (31.75)	71.10	2.36	3.51
1-3/8 (34.93)	85.50	3.18	4.73
1-1/2 (38.1)	101.00	3.78	5.63
1-3/4 (44.45)	154.00	5.15	7.66



6 X 36

6x36 Galv. Dry EIPS Finish Poly Core

Diameter inches (mm)	Nominal Breaking Strength tons	LB/FT	KG/M
1/2 (12.7)	11.80	0.42	0.62
5/8 (15.88)	18.30	0.72	1.07
3/4 (19.05)	26.20	0.95	1.41
1 (25.4)	46.00	1.68	2.50

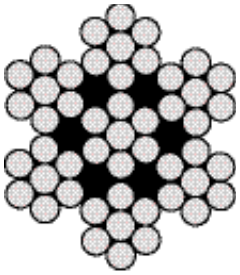


6 X 36

WIRE ROPE

7x7 Galvanized Finish Aircraft Cable with IWRC Core

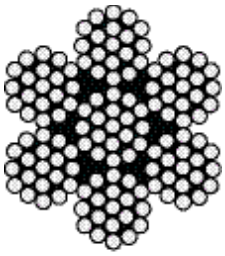
Diameter inches (mm)	Nominal Breaking Strength lbs.	LB/FT	KG/M
1/16 (1.59)	480	0.75	1.12
1/8 (3.18)	1,700	2.85	4.24



7 X 7

7x19 Galv. Finish Aircraft Cable with IWRC Core

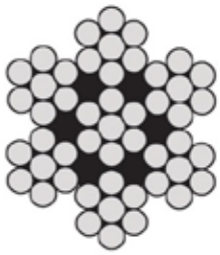
Diameter inches (mm)	Nominal Breaking Strength lbs.	LB/FT	KG/M
3/16 (4.76)	4,200	6.50	9.67
1/4 (6.35)	7,000	11.00	16.37
5/16 (7.94)	9,800	17.30	25.74
3/8 (9.53)	14,400	24.30	36.16



7 X 19

304 Stainless Steel Aircraft Cable with IWRC Core

Diameter inches (mm)	Construction	Nominal Breaking Strength lbs.	LB/FT	KG/M
1/16 (1.59)	7x7	480	0.75	1.12
1/8 (3.18)	7x19	1,760	2.90	4.32
3/16 (4.76)		3,700	6.50	9.67
1/4 (6.35)		6,400	11.00	16.37
5/16 (7.94)		9,000	17.30	25.74
3/8 (9.53)		12,000	24.30	36.16

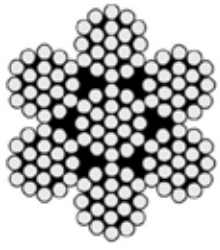


7 X 7

Type 304 stainless steel has strength comparable to galvanised, but it is much more corrosion resistant.

316 Stainless Steel Aircraft Cable with IWRC Core

Diameter inches (mm)	Construction	Nominal Breaking Strength lbs.	LB/FT	KG/M
3/16 (4.76)	7x19	2,900	6.50	9.67
1/4 (6.35)		4,900	11.00	16.37
5/16 (7.94)		7,600	17.30	25.74
3/8 (9.53)		11,000	24.30	36.16



7 X 19

Type 316 stainless steel is the standard high corrosion resistant steel for wire rope. It is resistant to many chemicals, resists pitting in marine environments and can be used in temperatures up to 480°C (900°F).

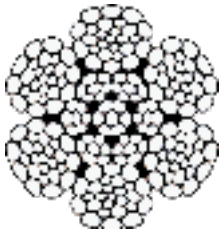
SKIDDER LOGGING ASSEMBLIES

HIGH STRENGTH MAINLINES

- Power-Pac allows for rope downsizing and increased drum capacity
- Specialized crush resistant constructions extend service life
- Smooth outer rope profile improves operator handling and minimizes fitting wear
- High efficiency pressed ferrules stand up to winch line demands

Logging Choker	
Diameter inches (mm) x feet	
7/16 (11.11)	6
	7
	8
1/2 (12.7)	6
	7
	8
9/16 (14.29)	8
	10
	12

6x26 Swaged with IWRC Core			
Diameter inches (mm)	Nominal Breaking Strength tons	LB/FT	KG/M
3/8 (9.53)	8.9	0.34	0.50
1/2 (12.7)	15.2	0.46	0.68
9/16 (14.29)	19.0	0.59	0.88
5/8 (15.88)	23.6	0.72	1.07
3/4 (19.05)	34.6	1.04	1.55



6 X 26

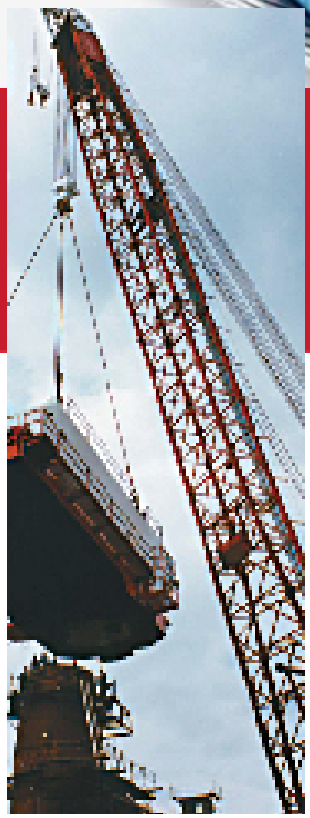
ROPE CONSTRUCTION COMPARISON

	Pro-Swaged®		Lobo® Super-Swaged®			Power-Pac®		
Diameter inches (mm)	Nominal Breaking Load		Nominal Breaking Load		Super-Swaged Strength	Nominal Breaking Load		Power-Pac Strength
	lbs	(kN)	lbs	(kN)	Improvement	lbs	(kN)	Improvement
1/2 (13)	30,400	(135)	34,800	(155)	14%	37,200	(166)	22%
9/16 (14)	38,000	(169)	43,600	(194)	15%	47,400	(211)	25%
5/8 (16)	47,200	(210)	54,800	(244)	16%	57,000	(253)	21%
11/16 (17)	57,600	(257)	–	–	–	70,600	(314)	22%
3/4 (19)	69,200	(308)	78,600	(350)	14%	84,400	(376)	22%
13/16 (21)	79,200	(352)	–	–	–	98,600	(439)	25%
7/8 (22)	93,000	(414)	105,400	(469)	13%	112,000	(499)	21%
15/16 (24)	106,600	(474)	–	–	–	132,200	(588)	24%
1 (25)	121,200	(540)	–	–	–	147,400	(656)	22%
1-1/8 (29)	150,200	(669)	–	–	–	185,800	(827)	24%
1-1/4 (32)	185,600	(826)	–	–	–	224,200	(997)	21%
1-3/8 (35)	216,400	(963)	–	–	–	257,200	(1145)	19%

Note: ▪ Breaking load values are subject to a minus tolerance of 2.5% ▪ Drum ferrules available upon request

Caution Nominal breaking loads are for comparison of rope only. Do not exceed the Manufacturer's winch rating when operating. Drum ferrules and or clamps are only intended to hold the wire rope in the winch drum and it is always recommended to maintain at least three (3) wraps of rope on the drum.

Cushion-Pac®
Dy-Pac®
Cushion®
Performance series®



An extensive line of high-performance rope to meet the demanding challenges of today's industrial applications

Wire Rope Industries (Atlantic) is one of the most trusted manufacturers of high performance wire rope products in North America. With our knowledge and expertise, we have been able to refine the art of rope making into a science.

We provide reliable rope solutions for a wide variety of industrial applications, including general industrial and construction, forestry, mining, oil and gas, fishing and marine, elevator, and utilities industries. Our high quality management system is registered to various international specifications, including ISO 9001.

Customers the world over recognize the value of our products through improved fatigue life, increased strength, shock and abrasion resistance, as well as superior delivery, packaging and technical service. To deliver this value to our customers, we strive to understand our end-user customers' needs and translate those needs into outperforming products by maximizing our research and development and manufacturing capabilities.

At Wire Rope Industries (Atlantic), we have developed exclusive processes leading to dramatically increased rope performance, greater in-service durability, and reduced equipment and maintenance down-time. These specialized manufacturing techniques including strand/rope compaction, thermal-plastic enhancement, synthetic stabilization, and lubrication optimization. Wire Rope Industries prides itself on its quality assurance program. Indeed, all of our ropes parameters are validated on a regular basis, to ensure that our customers receive the best possible quality products.

Wire Rope Industries (Atlantic) is dedicated to quality and value. Our team of professionals works together to provide our customers with the best performing products and the highest levels of service.
This is what allows us to consistently produce "Ropes that Outperform".

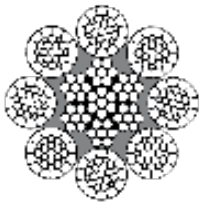
CUSHION-PAC® 8 ROPES for High-cycle Crane Applications

Cushion-Pac® 8 ropes significantly increase rope performance and productivity

A proven 8x31 IWRC rope design and specialized construction properties improve flexibility and rope fatigue life.
Dy-Pac strand compaction increases the steel area of the individual strands, producing a rope with improved resistance to crushing, improved drum spooling and increased lifting capacity.
A fully cushioned core, utilizing WRI's exclusive plastic enhancement process, protects the inner rope throughout its cycle life and allows for external inspection of operational wear.
Greater rope contact area increases rope life and reduces drum and sheave wear.
Specially formulated lubrication increases rope performance and reduces the effects of corrosion.
Blue/Green core tracers make it easy to identify Cushion-Pac 8 high performance ropes.

Cushion-Pac® 8 - RRL Dy-Pac Cushion Core

Diameter inches (mm)	Weight - approximate		Nominal Breaking Load	
	lbs./ft	(kg/m)	tons	kN
1/2 (13)	0.50	0.74	15.0	133
9/16 (14)	0.63	0.94	19.1	170
5/8 (16)	0.78	1.16	23.7	211
3/4 (19)	1.15	1.71	34.7	308
7/8 (22)	1.58	2.35	46.7	415
1-(25)	2.09	3.11	61.4	547
1-1/8 (29)	2.54	3.78	75.2	669
1-1/4 (32)	3.16	4.70	93.6	833
1-3/8 (35)	3.86	5.74	113.5	1010
1-1/2 (38)	4.56	6.79	134.5	1197



8 X 31

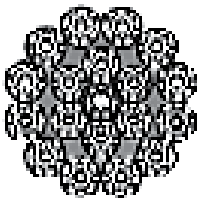
CUSHION-PAC® 18 Rotation Resistant Ropes for Crane Applications

Cushion-Pac® 18 ropes improve performance and operational safety

A fully cushioned core, utilizing WRI's exclusive plastic enhancement process, significantly reduces inter-strand cross cutting throughout the rope's life and allows for external inspection of operational wear.
A specially designed 18x19 multi-strand construction, combined with plastic enhancement, locks the core in place to support the outer strands, providing excellent rotation resistance and enhanced in-service stability.
Dy-Pac strand compaction increases the steel area of the individual strands, producing a rope with improved resistance to crushing, improved drum spooling, and increased lifting capacity.
A smooth outer strand profile improves rope wear resistance, reduces sheave and drum wear, and allows the rope to run more efficiently on high speed hoisting lines.
Specially formulated lubrication increases rope performance and reduces the effects of corrosion.
Well-marked core tracers make it easy to identify Cushion-Pac 18 outperforming ropes.

Cushion-Pac® 18 - RRL Dy-Pac Cushion Core

Diameter inches (mm)	Weight - approximate		Nominal Breaking Load	
	lbs./ft	(kg/m)	tons	kN
3/8 (10)	0.28	0.42	8.5	76
7/16 (11)	0.39	0.58	11.5	102
1/2 (13)	0.50	0.74	15.0	133
9/16 (14)	0.64	0.95	19.0	169
5/8 (16)	0.77	1.15	23.3	207
3/4 (19)	1.16	1.73	33.2	296
7/8 (22)	1.55	2.31	44.9	400
1-(25)	2.03	3.02	58.4	519
1-1/8 (29)	2.57	3.82	73.3	653
1-1/4 (32)	3.15	4.69	90.2	802
1-3/8 (35)	3.84	5.71	108.7	967
1-1/2 (38)	4.59	6.83	128.2	1141



18 X 19

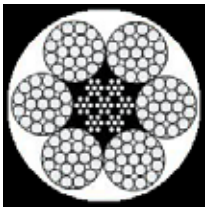
DY-PAC® 6 ROPES for Crane and Winching Applications

Increases rope performance and reduces equipment maintenance

A proven 6x25/31 IWRC construction and specially selected wire tensiles create ropes that have the most suitable characteristics for Dy-Pac enhancement and rope performance.
The Dy-Pac strand compaction process increases the steel area of the individual strands, producing a rope with greater strength and increased lifting capability.
A greater steel area in the rope results in higher crush resistance and significantly enhanced drum spooling.
A smooth outer strand profile improves rope wear resistance and reduces sheave and drum wear.
Greater contact area between each strand reduces inter-strand nicking and increases flexibility under load, enhancing fatigue life and performance.

Dy-Pac® 6 RRL Dy-Pac IWRC

Diameter inches (mm)	Weight - approximate		Nominal Breaking Load	
	lbs./ft	(kg/m)	tons	kN
3/8 (10)	0.30	0.44	8.5	76
7/16 (11)	0.39	0.58	11.5	102
1/2 (13)	0.50	0.74	15.0	133
9/16 (14)	0.64	0.95	19.0	169
5/8 (16)	0.79	1.17	23.3	207
3/4 (19)	1.14	1.69	33.2	296
7/8 (22)	1.54	2.29	44.9	400
1 (25)	2.01	2.99	58.4	519
1-1/8 (29)	2.54	3.78	73.3	653
1-1/4 (32)	3.14	4.67	90.2	802
1-3/8 (35)	3.80	5.66	108.7	967
1-1/2 (38)	4.55	6.77	128.2	1141



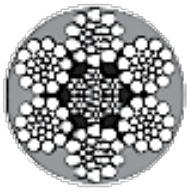
6 X 25/31

CUSHION® 6 ROPES for Crane Applicatons

A well-proven 6x26/36 IWRC rope, specially designed for plastic enhancement, provides an excellent performance/ strength combination.
WRI's exclusive plastic enhancement process maximizes impregnation that cushions and separates the rope strands from the steel core.
Full plastic enhancement significantly reduces stretch and minimizes drum crushing which improves performance and reduces downtime.
Full rope cushioning minimizes moisture and contaminant penetration reducing internal abrasion and corrosion.
A completely round outer rope profile maximizes the contact area between the rope and the equipment, enhancing rope wear resistance and significantly reducing sheave and drum wear.
Specially formulated lubrication provides protection for individual wires, reducing friction and maintaining freedom of movement between the wires and the plastic.
External markings on the rope make it easy to identify Cushion 6 high performance ropes.

Cushion® 6 Cushion Rope

Diameter inches (mm)	Weight - approximate		Nominal Breaking Load	
	lbs./ft	(kg/m)	tons	kN
3/8 (10)	0.26	0.38	6.6	59
7/16 (11)	0.35	0.52	8.7	77
1/2 (13)	0.45	0.67	11.7	104
9/16 (14)	0.58	0.86	15.0	133
5/8 (16)	0.72	1.07	18.6	166
3/4 (19)	1.02	1.51	26.3	234
7/8 (22)	1.41	2.09	36.4	324
1 (25)	1.82	2.71	47.1	419
1-1/8 (29)	2.31	3.44	57.2	509
1-1/4 (32)	2.90	4.32	69.9	622
1-3/8 (35)	3.52	5.24	85.7	763
1-1/2 (38)	4.18	6.21	101.5	903



6 X 26/36

PERFORMANCE SERIES® ROPES for Multi-purpose Applications

Performance series® 600 ropes provide consistent performance and improved operating efficiencies

A well-proven rope design provides the best performance/strength combination to ensure good wear resistance and fatigue life
Specialized constructional properties improve flexibility, handling and spliceability
EIPS tensile wire ensures the necessary strength to meet increasing equipment demands.
An Independent Wire Rope Core (IWRC) provides enhanced strand support, greater diameter consistency and reduced stretch resulting in improved performance and operational security.

Specially formulated lubrication increases rope performance, reduces corrosion and minimizes environmental impact due to fly-off.
Optional langs lay construction is ideal for fixed end applications and further enhances flexibility, improving rope life and reducing drum and sheave wear
Blue-Green colored strands and well marked core tracers in all products make it easy to identify Performance Series quality ropes

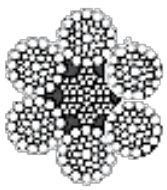
Performance Series® 620 6 x 19 Class EIPS IWRC

Diameter inches (mm)	Weight - approximate		Nominal Breaking Load	
	lbs./ft	(kg/m)	tons	kN
1/4 (6)	0.12	0.17	3.4	30
5/16 (8)	0.18	0.27	5.3	47
3/8 (10)	0.26	0.39	7.6	67
7/16 (11)	0.35	0.52	10.2	91
1/2 (13)	0.46	0.68	13.3	118
9/16 (14)	0.59	0.88	16.8	149
5/8 (16)	0.72	1.07	20.6	183
3/4 (19)	1.04	1.55	29.4	262
7/8 (22)	1.42	2.11	39.8	354
1 (25)	1.85	2.75	51.7	460
1-1/8 (29)	2.34	3.48	65.0	578
1-1/4 (32)	2.89	4.30	79.9	711
1-3/8 (35)	3.50	5.21	96.0	854
1-1/2 (38)	4.16	6.19	114.0	1014
1-5/8 (41)	4.88	7.26	132.0	1175
1-3/4 (44)	5.67	8.44	153.0	1362
1-7/8 (48)	6.50	9.67	174.0	1548
2-(51)	7.39	11.00	198.0	1762
2-1/8 (54)	8.35	12.43	221.0	1967
2-1/4 (57)	9.36	13.93	247.0	2198

6 X 19

Performance Series® 630 6 x 37 Class EIPS IWRC

Diameter inches (mm)	Weight - approximate		Nominal Breaking Load	
	lbs./ft	(kg/m)	tons	kN
1/4 (6)	0.12	0.17	3.4	30
5/16 (8)	0.18	0.27	5.3	47
3/8 (10)	0.26	0.39	7.6	67
7/16 (11)	0.35	0.52	10.2	91
1/2 (13)	0.46	0.68	13.3	118
9/16 (14)	0.59	0.88	16.8	149
5/8 (16)	0.72	1.07	20.6	183
3/4 (19)	1.04	1.55	29.4	262
7/8 (22)	1.42	2.11	39.8	354
1 (25)	1.85	2.75	51.7	460
1-1/8 (29)	2.34	3.48	65.0	578
1-1/4 (32)	2.89	4.30	79.9	711
1-3/8 (35)	3.50	5.21	96.0	854
1-1/2 (38)	4.16	6.19	114.0	1014
1-5/8 (41)	4.88	7.26	132.0	1175
1-3/4 (44)	5.67	8.44	153.0	1362
1-7/8 (48)	6.50	9.67	174.0	1548
2-(51)	7.39	11.00	198.0	1762
2-1/8 (54)	8.35	12.43	221.0	1967
2-1/4 (57)	9.36	13.93	247.0	2198
2-1/2 (64)	11.60	17.26	302.0	2687
2-3/4 (70)	14.00	20.83	361.0	3212
3-(76)	16.60	24.70	425.0	3782
3-1/4 (83)	19.50	29.02	492.0	4378
3-1/2 (89)	22.70	33.78	564.0	5019



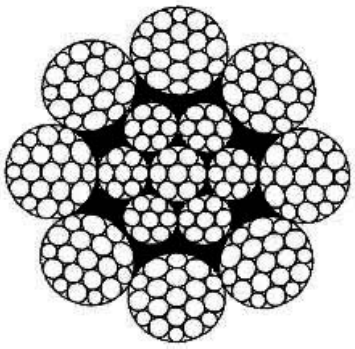
6 X 37

PERFORMANCE SERIES® 800

Improves flexibility and rope fatigue life

A durable construction provides the added flexibility, improved fatigue life and reduced wear properties necessary to meet the extra demands of high cycle, small sheave and drum crane applications.

Performance Series® 800 8 x 19 EIPS RRL IWRC				
Diameter inches (mm)	Weight - approximate		Nominal Breaking Load	
	lbs./ft	(kg/m)	tons	kN
1/4 (6)	0.12	0.18	3.0	26
5/16 (8)	0.18	0.27	4.6	41
3/8 (10)	0.26	0.39	6.6	59
7/16 (11)	0.36	0.54	9.0	80
1/2 (13)	0.47	0.69	11.6	103
9/16 (14)	0.60	0.89	14.7	131
5/8 (16)	0.73	1.08	18.1	161
3/4 (19)	1.06	1.58	25.9	230
7/8 (22)	1.44	2.14	35.0	311
1-(25)	1.88	2.80	45.5	405
1-1/8 (29)	2.39	3.56	57.3	510
1-1/4 (32)	2.94	4.38	70.5	627
1-3/8 (35)	3.94	5.86	84.9	756
1-1/2 (38)	4.94	7.35	100.0	890



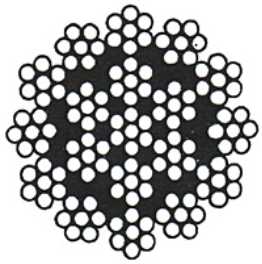
8 X 19

PERFORMANCE SERIES® 1810

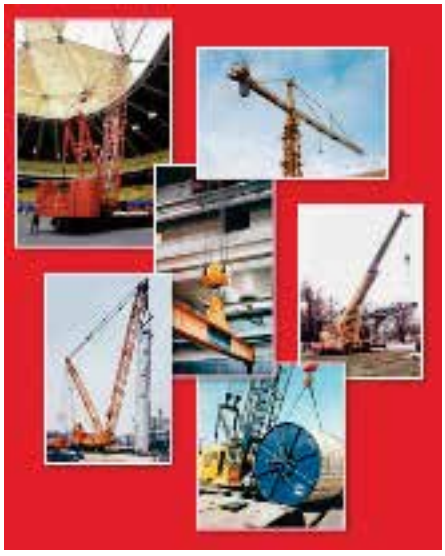
Improves rotation resistance and operational capabilities

A resilient 19x7 multi-strand construction provides the enhanced spin resistance, increased flexibility and improved drum spooling necessary to operate in rotation sensitive applications.

Performance Series® 1810 19 x 7 RRL EIPS SC				
Diameter inches (mm)	Weight - approximate		Nominal Breaking Load	
	lbs./ft	(kg/m)	tons	kN
1/2 (13)	0.45	0.66	10.8	96
9/16 (14)	0.58	0.86	13.6	121
5/8 (16)	0.71	1.06	16.8	149
3/4 (19)	1.02	1.52	24.0	214
7/8 (22)	1.39	2.07	32.5	289
1-(25)	1.82	2.71	42.2	376
1-1/8 (29)	2.30	3.42	53.1	473
1-1/4 (32)	2.84	4.23	65.1	579
1-3/8 (35)	3.43	5.10	78.4	698
1-1/2 (38)	4.08	6.07	92.8	826



19 X 7



POWERLINE

Our Powerline products are specially engineered and manufactured to meet the quality demands of the utilities industry.

Key Applications

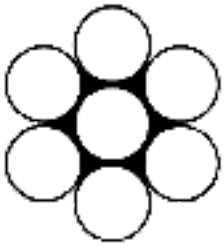
Transmission line overhead ground & guying
Dam gate control
Line stringing

Featured Ropes that Outperform

Performance Series 100 - High quality galvanized guy strand

Special Services

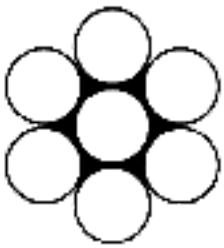
Cut & Coil - Customized cut lengths and packaging



1 X 7

Performance Series™ 100 1x7 Galvanized Strand (CAN/CSA - G12 - Class A Coating) Weights and Breaking Loads - IMPERIAL				Minimum Breaking Load - lbs		
Diameter inches	Number of Wires and Diameter inches	Approx. Metallic Area sq. inches	Approx. Weight lbs/1000 ft	Grade 110	Grade 160	Grade 180
3/16	7x0.065	0.0232	79	2,400	3,500	4,000
1/4	7x0.083	0.0379	129	3,900	5,700	6,400
9/32	7x0.095	0.0496	169	5,200	7,500	8,500
5/16	7x0.109	0.0653	223	6,800	9,900	11,100
3/8	7x0.120	0.0792	270	8,200	12,000	13,500
7/16	7x0.144	0.1140	389	11,900	17,300	19,500
1/2	7x0.165	0.1496	511	15,600	22,700	25,500
5/8	7x0.207	0.2355	813	24,600	35,800	40,200

Also available with classes B and C weights of zinc coating.



1 X 7

Performance Series™ 100 1x7 Galvanized Strand (CAN/CSA - G12 - Class A Coating) Weights and Breaking Loads - METRIC				Minimum Breaking Load - kN		
Diameter (mm)	Number of Wires and Diameter mm	Approx. Metallic Area mm2	Approx. Weight kg/1000 m	Grade 800	Grade 1100	Grade 1300
5.1	7x1.70	15.9	130	12.0	16.5	19.5
6.3	7x2.10	24.2	190	18.0	25.0	30.0
7.2	7x2.40	31.7	250	24.0	33.0	39.0
8.4	7x2.80	43.1	340	33.0	45.0	53.0
9.0	7x3.00	49.5	390	37.5	52.0	51.0
10.8	7x3.60	71.3	560	54.0	74.5	61.0
12.6	7x4.20	97.0	760	74.0	101.0	120.0

ELEVATOR ROPES
for elevator applications

Backed by over a century of rope-making experience, Wire Rope Industries offers a series of specialized Highriser products and services to meet the increasingly demanding requirements of elevator applications. Designed and tested for superior performance and value, our Highriser line includes quality Performance Series ropes.

A well-proven 8x19 rope construction provides the added flexibility and improved fatigue life necessary to meet the demands of high cycle elevators.

Specialized constructional properties further enhance flexibility and improve handling.

Blended wire tensiles ensure the necessary strength to meet increasing equipment demands.

Optional Langs Lay construction is available for those applications which demand maximum flexibility and performance.

Optional EHS tensile wire and 6x25 constructions are available when considering increased breaking load requirements or reduced stretch.

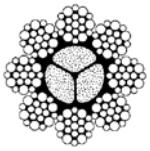
Custom made synthetic cores provide an alternative to a fiber core and improve rope performance by incorporating stretch resistance. The cores also provide a more consistent density and diameter to support the strands, resist strand abrasion, and eliminate core rot caused by wet or corrosive environments.

Specially formulated lubricants ensure compatibility with field dressings and synthetic liners, provide corrosion resistance, and increase rope performance.

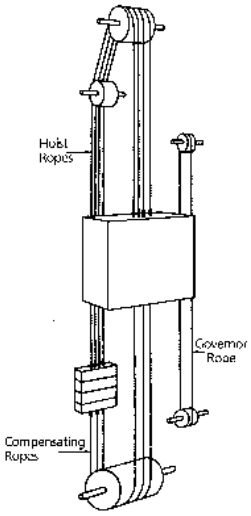
High quality standards, SPC laser controlled manufacturing processes, and batch cycle testing to industry standards (all certified to ISO-9001-00) ensure consistent rope quality and performance.

Well marked core tracers in all products make it easy to identify Performance Series quality ropes.

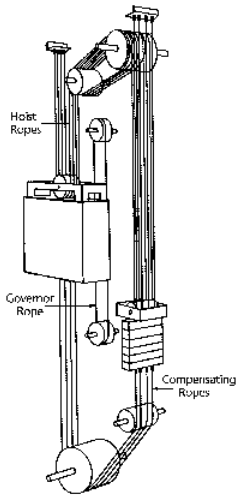
Full technical support allows WRI's customers to make the correct rope selection, obtain the relevant inspection and maintenance guidelines, and receive the necessary training.



8 X 19



Traction Elevator
V-Groove Single Wrap
Overhead Type



Traction Elevator
U-Groove Double Wrap
2 to 1 Roping

8x19 Fibre Core Performance Series 820

Diameter inches (mm)	Weight - approx. lbs./ft. (kg/m)	Iron lbs. (kN)	Nominal Breaking Load	
			Traction Steel lbs. (kN)	EHS Steel lbs. (kN)
3/8 (10)	0.20 (0.30)	4,200 (19)	8,200 (36)	9,900 (44)
7/16 (11)	0.28 (0.42)	5,600 (25)	11,000 (49)	13,500 (60)
1/2 (13)	0.36 (0.54)	7,200 (32)	14,500 (65)	17,500 (78)
9/16 (14)	0.46 (0.68)	9,200 (41)	18,500 (82)	22,100 (98)
5/8 (16)	0.57 (0.85)	11,200 (50)	23,000 (102)	27,200 (121)
11/16 (17)	0.69 (1.03)	13,400 (60)	27,000 (120)	32,800 (146)
3/4 (19)	0.82 (1.22)	16,000 (71)	32,000 (142)	38,900 (173)
13/16 (21)	0.96 (1.43)	18,600 (83)	37,000 (165)	46,000 (205)
7/8 (22)	1.11 (1.65)	21,400 (95)	42,000 (187)	52,600 (234)
15/16 (24)	1.27 (1.89)	24,600 (109)	48,000 (214)	60,000 (267)
1 (25)	1.45 (2.16)	28,000 (125)	54,000 (240)	68,400 (304)
1-1/16 (27)	1.64 (2.44)	31,400 (140)	61,000 (271)	77,000 (343)
1-1/8 (29)	1.84 (2.74)	34,400 (151)	68,000 (302)	86,000 (383)

Synthetic core stretch resistant ropes are available upon request.
Breaking load values are subject to a minus tolerance of 2.5%.

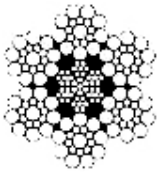
Fishing

PERFORMANCE SERIES™ ROPES

for commercial fishing applications

The commercial fishing industry is known for its varied and demanding operating conditions. Wire Rope Industries offers a full line of specialized Trawl-Mor products and services to meet these challenges. Tested and designed for superior performance and value, our Trawl-Mor line includes quality Performance Series ropes.

- A resilient 6x19 (9.9.1) construction and specialized wire provide enhanced wear resistance and improved drum spooling.
- Optional independent wire rope cores (IWRC) provide enhanced strand support, greater diameter consistency, and reduced stretch, resulting in improved performance and operational security.
- High quality galvanizing minimizes the effects of corrosion and ensures smooth operation.
- Specially formulated lubrication increases rope performance and further enhances corrosion resistance.
- High quality standards and manufacturing techniques, certified to ISO-9001-00, ensure consistent rope quality and performance.
- Blue-Green colored strands and well-marked core tracers in all products make it easy to identify Performance Series quality ropes.
- Larger diameter long length warps are supplied on steel reels for safer handling and installation.



6 X 19

6x19 RRL EIPS Galvanized - IWRC & Poly Core

Diameter inches (mm)	Weight - approximate lbs./ft. (kg/m)		Nominal Breaking Load tons (kN)	
	IWRC / Poly Core		IWRC / Poly Core	
3/8 (10)	0.26 (0.39)	0.24 (0.35)	5.9 (53)	5.5 (49)
7/16 (11)	0.35 (0.52)	0.32 (0.48)	8.0 (71)	7.4 (66)
1/2 (13)	0.46 (0.68)	0.42 (0.63)	10.4 (92)	9.6 (86)
9/16 (14)	0.59 (0.88)	0.53 (0.79)	13.1 (116)	12.2 (108)
5/8 (16)	0.72 (1.07)	0.66 (0.98)	16.1 (143)	15.0 (134)
3/4 (19)	1.04 (1.55)	0.95 (1.41)	23.0 (205)	21.4 (191)
7/8 (22)	1.42 (2.11)	1.29 (1.92)	31.1 (277)	29.0 (258)
1 (25)	1.85 (2.75)	1.68 (2.50)	40.4 (360)	37.6 (335)
1-1/8 (29)	2.34 (3.48)	2.13 (3.17)	50.9 (453)	47.3 (421)
1-1/4 (32)	2.89 (4.30)	2.63 (3.91)	62.5 (556)	58.1 (517)
1-3/8 (35)	3.50 (5.21)	3.18 (4.73)	75.2 (669)	69.9 (622)

Breaking load values are subject to a minus tolerance of 2.5%.

- A specially designed 4x7 construction provides the added abrasion and abuse resistance necessary to operate on difficult ground warp and bridle applications.
- Specialized packaging simplifies handling on deck.

4 X 7

4x7 RRL Poly Core

Diameter inches (mm)	Weight - approx. lbs./ft. (kg/m)	Nominal Breaking Load Tons (kN)
7/8 (22)	1.21 (1.80)	37.5 (334)
1 (25)	1.59 (2.37)	49.4 (440)

Breaking load values are subject to a minus tolerance of 2.5%.

TRAWL-PAC®6

Ropes for Trawl Warp Applications

The commercial fishing industry is known for its varied and demanding operating conditions. Wire Rope Industries offers a full line of specialized Trawl-Mor products and services to meet these challenges. Tested and designed for superior performance and value, our Trawl-Mor line includes high performance products such as Trawl-Pac 6.

6 X 25

Trawl-pac® 6 Main Warps Increase Rope Performance and Reduce Equipment Maintenance

- A proven 6x25 IWRC construction and specially selected wire tensiles create ropes that have the most suitable characteristics for Dy-Pac enhancement and rope performance.
- The Dy-Pac strand compaction process increases the steel area of the individual strands, producing a rope with greater strength. This process enables rope diameter downsizing which increases the amount of rope that can be installed on the drum.
- A greater steel area in the rope results in higher crush resistance and significantly enhanced drum spooling.
- A smooth outer strand profile improves rope wear resistance and reduces equipment wear.
- Greater contact area between each strand reduces inter-strand nicking and increases flexibility under load, enhancing fatigue life and performance.
- High quality galvanizing minimizes the effects of corrosion and ensures smooth operation.
- Specially formulated lubrication increases rope performance and further enhances corrosion resistance.
- High quality standards and manufacturing techniques, certified to ISO-9001-00, ensure consistent rope quality and performance.
- Well-marked core tracers make it easy to identify Trawl-Pac 6 high performance rope.
- Larger diameter long length warps are supplied on steel reels for safer handling and installation.

TRAWL-PAC 6 Main Warps					
6x25 IWRC					
		Guaranteed Break load		Linear Weight	
Inch	mm	Tonne	Ton	kg/m	lb/ft
3/8"	9.5	6.6	7.3	0.4	0.88
7/16"	11	9	9.9	0.55	1.21
1/2"	13	12.4	13.7	0.75	1.65
9/16"	14	14.9	16.4	0.91	2.01
5/8"	16	18.7	20.6	1.14	2.51
3/4"	19	26.5	29.2	1.61	3.55
7/8"	22	36.1	39.8	2.2	4.85
1"	26	49.4	54.5	3.01	6.64
1-1/8"	29	59.7	65.8	3.63	8.00
1-1/4"	32	74.8	82.5	4.55	10.03

Trawl-pac® 6 Ropes Reduce Operating Costs and Increases Profits

- Reduced overall operating costs as a result of significantly enhanced rope performance.
- Reduced equipment downtime as a result of fewer rope change-outs.
- Lower maintenance costs as a result of reduced equipment wear.

CUSHION®6

High Performance Purse Seine Lines

The commercial fishing industry is known for its varied and demanding operating conditions. Wire Rope Industries offers a full line of specialized Trawl-Mor products and services to meet these challenges. Tested and designed for superior performance and value, our Trawl-Mor line includes top performers such as Cushion 6 ropes.

Cushion™ 6 PURSE LINES Increase Rope Performance and Reduce Equipment Maintenance

6 X 26

- A proven IWRC rope, specially designed for plastic enhancement, provides an excellent performance-strength combination.
- WRI's exclusive plastic enhancement process maximizes impregnation which cushions and separates the rope strands from the steel core. This process creates a more balanced rope in which stress is evenly distributed and inter-strand nicking is virtually eliminated, resulting in improved performance and better resistance to shock loading.
- Full plastic enhancement significantly reduces stretch and minimizes drum crushing which improves performance and reduces downtime.
- A completely round outer rope profile maximizes the contact area between the rope and the equipment, enhancing rope wear resistance and significantly reducing ring, sheave, and drum wear.
- Full rope cushioning and high quality galvanized wire combine to reduce moisture penetration and minimize internal corrosion.
- Specially formulated lubrication provides added protection for individual wires, reducing friction and maintaining freedom of movement between the wires and the plastic.
- High quality standards and manufacturing techniques, certified to ISO-9001-00, ensure consistent rope quality and performance.

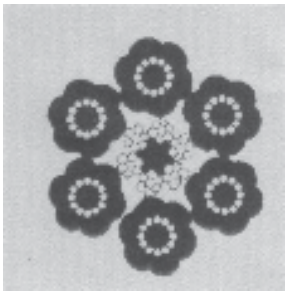
Cushion™ 6 Ropes Reduce Operating Costs and Increase Profits

- Reduced overall operating costs as a result of significantly enhanced rope performance and trouble-free operation.
- Lower equipment maintenance costs as a result of reduced ring, sheave, and drum wear.

6x26 RRL Galvanized Cushion Rope

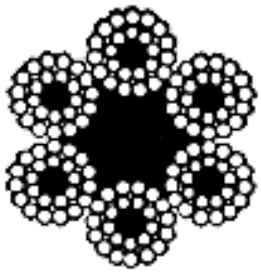
Diameter inches (mm)	Weight - approx. lbs./ft. (kg/m)	Nominal Breaking Load tons (kN)
3/8 (10)	0.26 (0.38)	6.6 (59)
7/16 (11)	0.35 (0.52)	9.0 (81)
1/2 (13)	0.45 (0.67)	11.7 (104)
9/16 (14)	0.58 (0.86)	15.0 (133)
5/8 (16)	0.72 (1.07)	18.6 (165)
3/4 (19)	1.02 (1.51)	26.3 (234)
7/8 (22)	1.41 (2.09)	36.4 (324)
1 (25)	1.82 (2.71)	47.1 (419)
1-1/8 (29)	2.18 (3.24)	57.2 (510)
1-1/4 (32)	2.88 (4.29)	69.6 (620)
1-3/8 (35)	3.52 (5.24)	85.7 (763)

6 Strand Combination Rope + IWRC				
Diameter mm	Construction	Approx. Weight kg/m	Min. Breaking Load	
			kN	kp
8.0	6 x 5	0.09	15.7	1.600
10.0	6 x 6	0.15	25.5	2.600
12.0	6 x 6	0.20	31.4	3.200
14.0	6 x 8	0.28	45.6	4.650
16.0	6 x 8	0.37	60.8	6.200
18.0	6 x 8	0.46	74.6	7.600
20.0	6 x 8	0.58	95.2	9.700
22.0	6 x 8	0.88	139.3	14.200
24.0	6 x 8	1.04	167.7	17.100
26.0	6 x 8	1.17	186.4	19.000
28.0	6 x 8	1.33	211.9	21.600
30.0	6 x 8	1.54	245.3	25.000
32.0	6 x 8	1.78	285.5	29.100



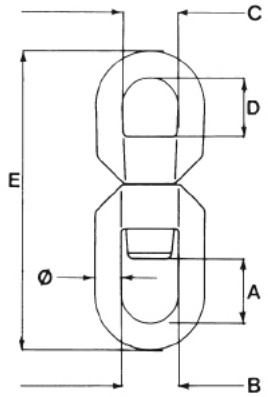
- Right regular lay - Preformed
- Steel wire strands covered with PP split film
- Blue with white marking yarns in one strand
- Min. tensile strength of wire: Galvanized 160 kp/mm = 1570 N/mm

Mooring Line 6x24 Galv. Clean Finish with Poly Core		
Diameter inches (mm)	Nominal Breaking Strength tons	lb/ft
3/8 (9.53)	4.06	0.20
1/2 (12.7)	8.40	0.35
9/16 (14.29)	10.25	0.44
5/8 (15.88)	13.00	0.54
3/4 (19.05)	18.60	0.78
7/8 (22.23)	23.94	1.06
1 (25.4)	28.44	1.38
1-1/8 (28.58)	33.38	1.75

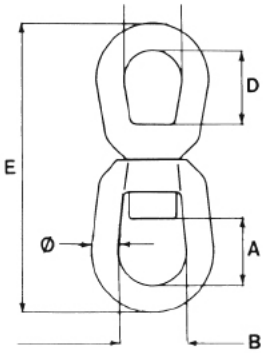


6 X 24

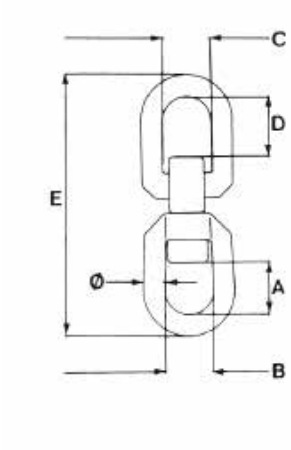
SWIVELS



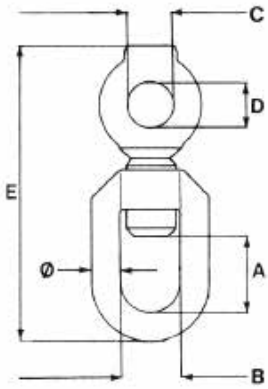
Stainless Steel								
Size (")	= Ø (mm)	SWL 5:1 (Tons)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight (kg)
1/4	06	0.27	14	14	14	14	64	0.05
5/16	08	0.50	19	19	19	19	93	0.14
3/8	10	1.10	30	28	20	20	110	0.23
1/2	13	1.60	29	28	27	30	140	0.36
5/8	16	3.20	43	38	35	47	180	0.89
3/4	19	4.70	45	39	38	40	205	1.80
3/4	19	4.70	45	39	38	63	230	1.85
7/8	22	6.30	45	40	40	42	222	2.25
7/8	22	6.30	45	40	40	65	250	2.40
1	25	8.30	52	50	42	52	278	4.10
1	25	8.30	52	47	47	84	300	4.30
1-1/4	32	12.00	60	50	50	98	350	8.15
1-1/2	38	18.00	72	58	58	112	390	13.00



Light Blue Steel, Stainless Steel Center								
Size (")	= Ø (mm)	SWL 5:1 (Tons)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight (kg)
3/8	10	1.0	29	29	25	31	135	0.29
1/2	12	1.6	33	30	28	36	143	0.38
5/8	16	2.6	40	38	35	41	178	0.83
3/4	19	4.0	46	38	35	51	205	1.40



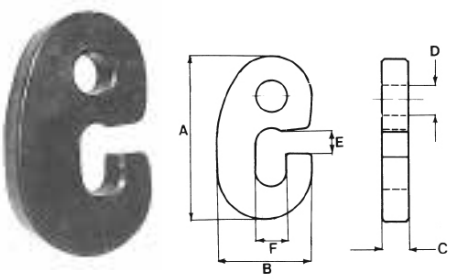
Stainless Steel Flex								
Size (")	**= Ø (mm)**	**SWL 5:1 (Tons)**	**A (mm)**	**B (mm)**	**C (mm)**	**D (mm)**	**E (mm)**	**Weight (kg)**
1/2	13	1.6	30	28	28	34	160	0.56
5/8	16	3.2	41	38	37	48	200	1.20
3/4	19	4.7	44	40	40	54	235	2.00
7/8	22	6.3	44	40	40	55	255	2.90
1	25	8.3	55	50	45	70	320	4.70
1-1/4	32	12.0	55	55	54	93	360	9.20
1-1/2	38	18.0	62	58	60	110	410	14.60
1-3/4	45	28.0	75	70	70	115	515	24.00



Dark Blue Forged Steel								
Size (")	**= Ø (mm)**	**SWL 5:1 (Tons)**	**A (mm)**	**B (mm)**	**C (mm)**	**D (mm)**	**E (mm)**	**Weight (kg)**
5/8	16	2.4	30	28	22	22	150	0.87
3/4	19	3.8	42	40	28	28	185	1.30
7/8	22	5.3	57	48	34	34	230	2.20
1	25	7.2	63	52	37	37	265	3.65
1-1/8	28	9.0	65	52	37	37	280	4.30

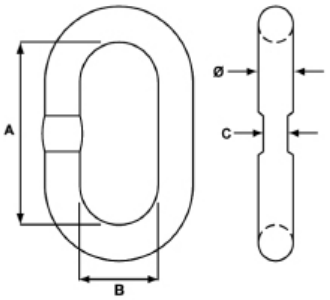
G-Hooks

SWL 5:1 (Tons)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight (kg)
1.0	88	55	12	17	10.5	14	0.36
1.5	107	66	16	20	13.0	19	0.60
3.2	123	77	20	26	15.0	22	0.90
4.4	150	95	25	32	20.0	26	1.80
5.6	180	115	30	38	23.0	31	3.10
10.0	195	126	35	41	25.0	34	4.40
12.5	230	140	40	47	28.0	38	6.60



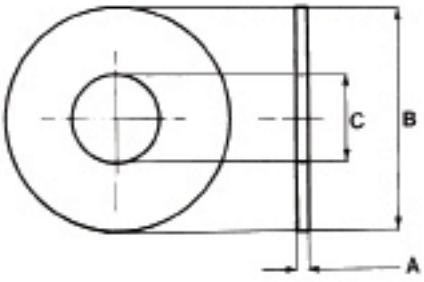
Recessed Links

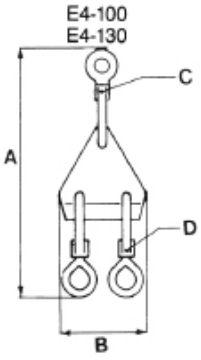
SWL 5:1 (Tons)	Ø (mm)	A (mm)	B (mm)	C (mm)	Weight (kg)
1.0	12	70	30	10	0.20
1.5	16	85	35	12	0.40
3.2	20	110	45	14	0.90
4.4	25	130	50	18	1.50
5.6	28	150	60	21	2.10
10.0	32	150	60	23	2.80
12.5	35	160	73	26	3.80

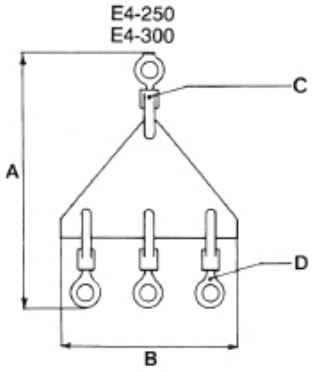


Washers

A (mm)	B (mm)	C (mm)	Weight (kg)	For Chain (mm)
8	100	40.0	40.0	10
8	100	50.0	37.0	13
8	120	40.0	60.0	10
8	120	50.0	55.0	13
8	150	40.0	120.0	10
8	150	40.0	110.0	13
8	150	60.0	100.0	16
10	120	25.5	78.0	-
10	120	30.5	75.0	-
10	120	50.0	70.0	13
10	120	60.0	65.0	16
10	150	40.0	150.0	10
10	150	50.0	140.0	13
10	150	60.0	130.0	16
10	150	75.0	102.0	19
10	200	75.0	233.0	19
12	150	70.0	135.0	19
12	200	75.0	340.0	19
14	150	75.0	140.0	19
14	200	75.0	327.0	19
20	200	75.0	560.0	19
25	200	75.0	700.0	19

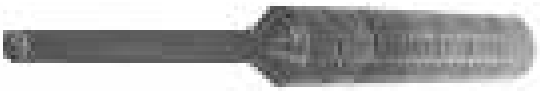


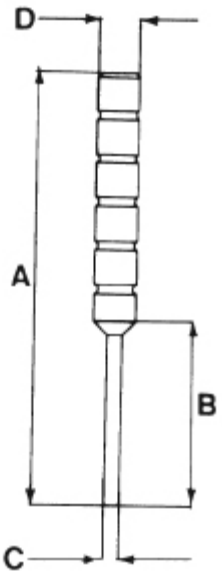




Triangle with Swivels

SWL 5:1 (Tons)	A (mm)	B (mm)	Weight (kg)	Plate (mm)
2.4	340	100	15.0	2.90
3.8	440	130	20.0	5.50
5.3	480	250	20.0	9.50
9.0	570	300	25.0	17.50

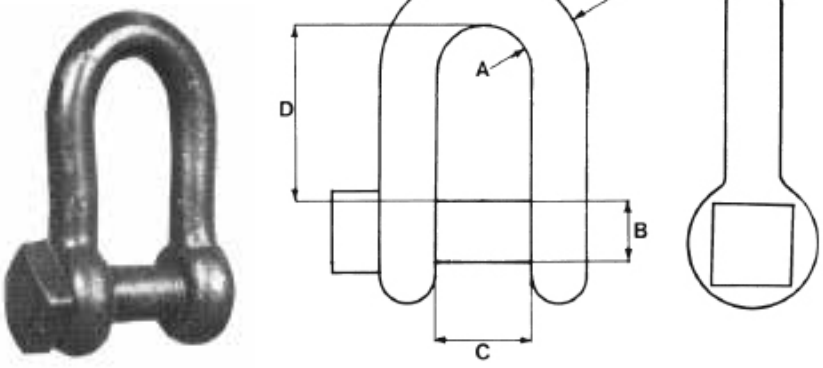




Punches

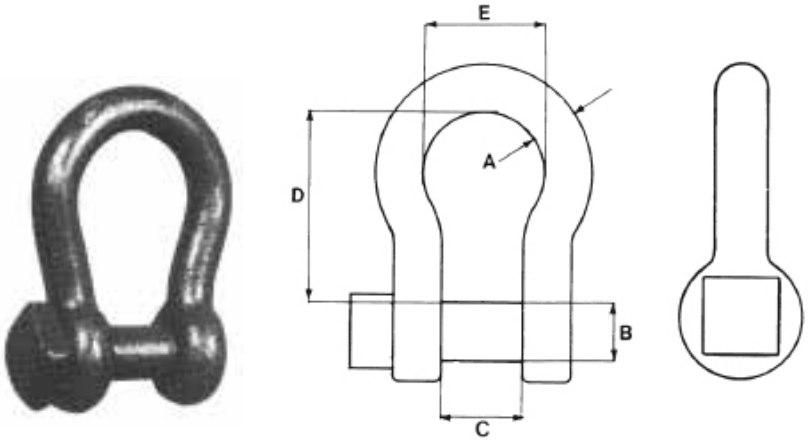
A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)	For Connector
175	50	5	22	0,33	7
190	70	7	22	0,36	10
210	85	9	22	0,41	13
220	100	11	22	0,45	16
240	115	13	22	0,50	19
250	125	15	22	0,55	22
265	140	17	22	0,65	26

STEEL SHACKLES



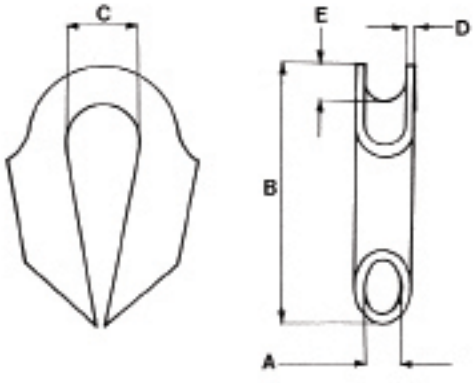
Blue Dee Type

Size (")	SWL 5:1 (Tons)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg/100)	Sacks of
3/8	1.0	10	12	18	43	15.0	250
1/2	1.5	12	16	27	56	30.0	250
5/8	2.5	16	19	33	67	60.0	80
3/4	3.0	19	22	39	80	105.0	40
7/8	4.0	22	25	45	80	145.0	30
1	5.0	25	28	48	92	210.0	20

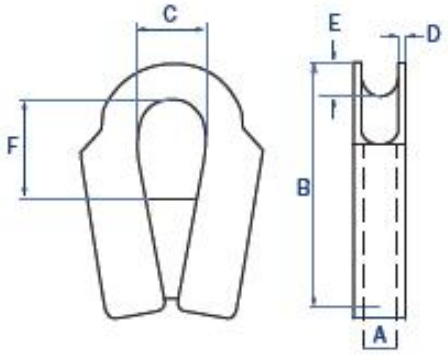


Bow Type

Size (")	SWL 5:1 (Tons)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight (kg/100)	Sacks of
1/2	1.5	12	16	27	61	44	32.0	200
5/8	2.5	16	19	33	70	54	70.0	80
3/4	3.0	19	22	38	84	63	120.0	40
7/8	4.0	22	25	44	90	70	165.0	30
1	5.0	25	28	48	105	82	240.0	20

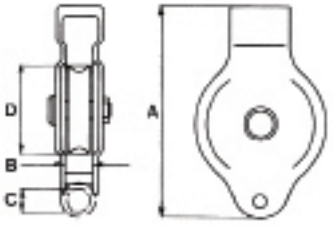


Tube-Type Thimble						
A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight (kg)	For Wire Max.
15	109	27	5.0	10	0.42	12
17	115	27	5.0	10	0.50	14
19	125	32	5.0	12	0.60	16
22	140	35	5.0	15	0.75	18
25	158	45	6.3	16	1.23	22
28	176	45	7.0	16	1.54	24
30	195	47	7.0	18	1.82	26
35	210	60	7.0	22	2.40	32



Tube-Type Thimble, comes with Gusset							
A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight (kg)	For Wire Max.
15	109	27	5.0	10	49	0.46	12
17	115	27	5.0	10	40	0.54	14
19	125	32	5.0	12	43	0.67	16
22	140	35	5.0	15	58	0.80	18
25	158	45	6.3	16	59	1.36	22
28	176	45	7.0	16	61	1.65	24
30	195	47	7.0	18	78	2.00	26
35	210	60	7.0	22	93	2.73	32

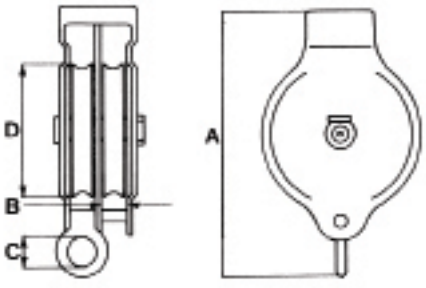
GALVANIZED BMM BLOCKS



lead

Single

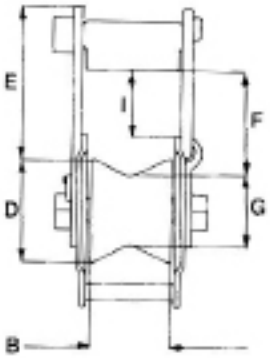
SWL (Tons)	Max load on head-fitting (Tons)	Test Load (Tons)	A (mm)	B (mm)	C (mm)	D (mm)	Max Wire (mm)	Weight (kg)
1.0	2.0	4.0	163	22	16	80	16	1.7
2.0	4.0	8.0	195	24	22	110	18	3.1
3.0	6.0	8.0	257	28	31	150	20	6.4
4.0	8.0	16.0	330	35	40	185	22	11.1
6.0	12.0	24.0	365	42	40	210	24	17.0

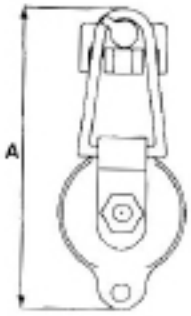


Head

Double

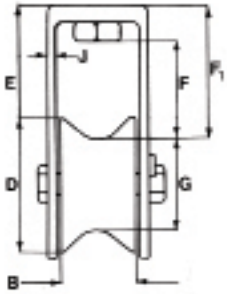
SWL 5:1 (Tons)	Max load on head-fitting (Tons)	Test Load (Tons)	A (mm)	B (mm)	C (mm)	D (mm)	Max Wire (mm)	Weight (kg)
1.0	2.0	4.0	187	22	16	80	16	3.1
2.0	4.0	8.0	224	24	22	110	18	5.2
3.0	6.0	12.0	296	28	31	150	20	11.0
4.0	8.0	16.0	385	35	40	185	22	19.0
6.0	12.0	24.0	425	42	40	210	24	27.8

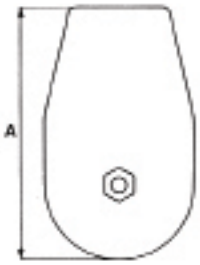




Galvanized BMM Snatch Blocks

SWL (Tons)	Max load on head-fitting (Tons)	Test Load (Tons)	A (mm)	B (mm)	D (mm)	I (mm)	Max Wire (mm)	Weight (kg)
2.0	4.0	8.0	225	24	110	23	18	3.7
3.0	6.0	12.0	300	28	150	30	18	7.5
4.0	8.0	16.0	330	35	185	33	22	13.5
6.0	12.0	24.0	378	41	210	35	24	19.4





Head

Galvanized BMM Trawl Blocks

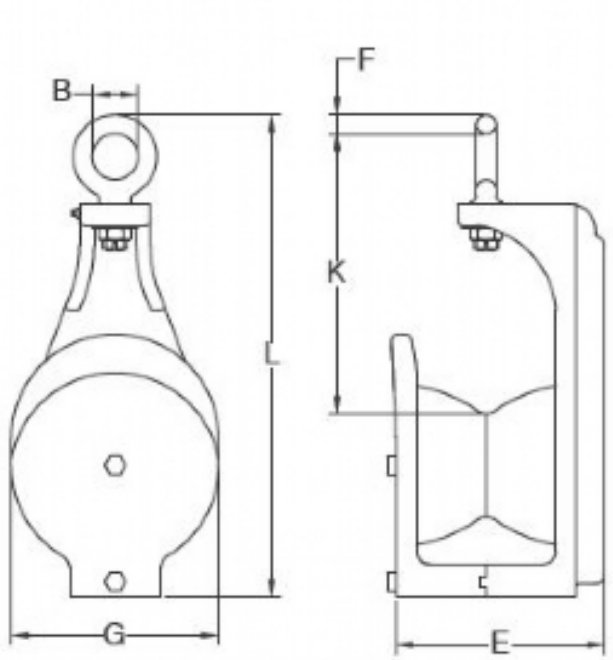
SWL 5:1 (Tons)	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	F (mm)	G (mm)	J (mm)	Weight (kg)
4.0	240	100	130	110	85	133	85	10	16.0
6.0	305	100	170	140	100	163	125	10	25.0
6.0	355	100	215	132	110	165	164	10	36.5
9.0	405	120	230	150	110	180	170	12	45.0
9.0	420	150	240	190	140	220	170	12	54.0
11.0	475	120	300	170	120	200	240	12	64.0
13.0	580	140	370	240	140	285	285	12	110.0
15.0	670	180	400	245	210	305	300	15	180.0

Blue. Available only with roller bearing

LOBSTER BLOCKS

Category : Aluminum Snatch Block
Series : 8-532
Name : Lobster Block
Description : Corrosive resistant for increased block life in a salt water environment.

- Blocks are supplied with a pressure lubed fitting for a longer block life.
- Bearings are sealed for increase block life and performance.
- Each block is individually tested for
- maximum safety.



Sheave Dimensions (mm)		Bearing Type	Working Load Limit	N.W.	
mm	Rim Thickness	Tapered bearing	tonnes*	lbs	kg
114	70		1	14	6

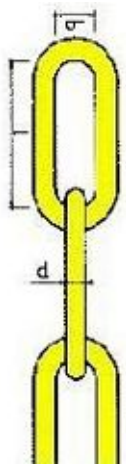
FISHING CHAIN

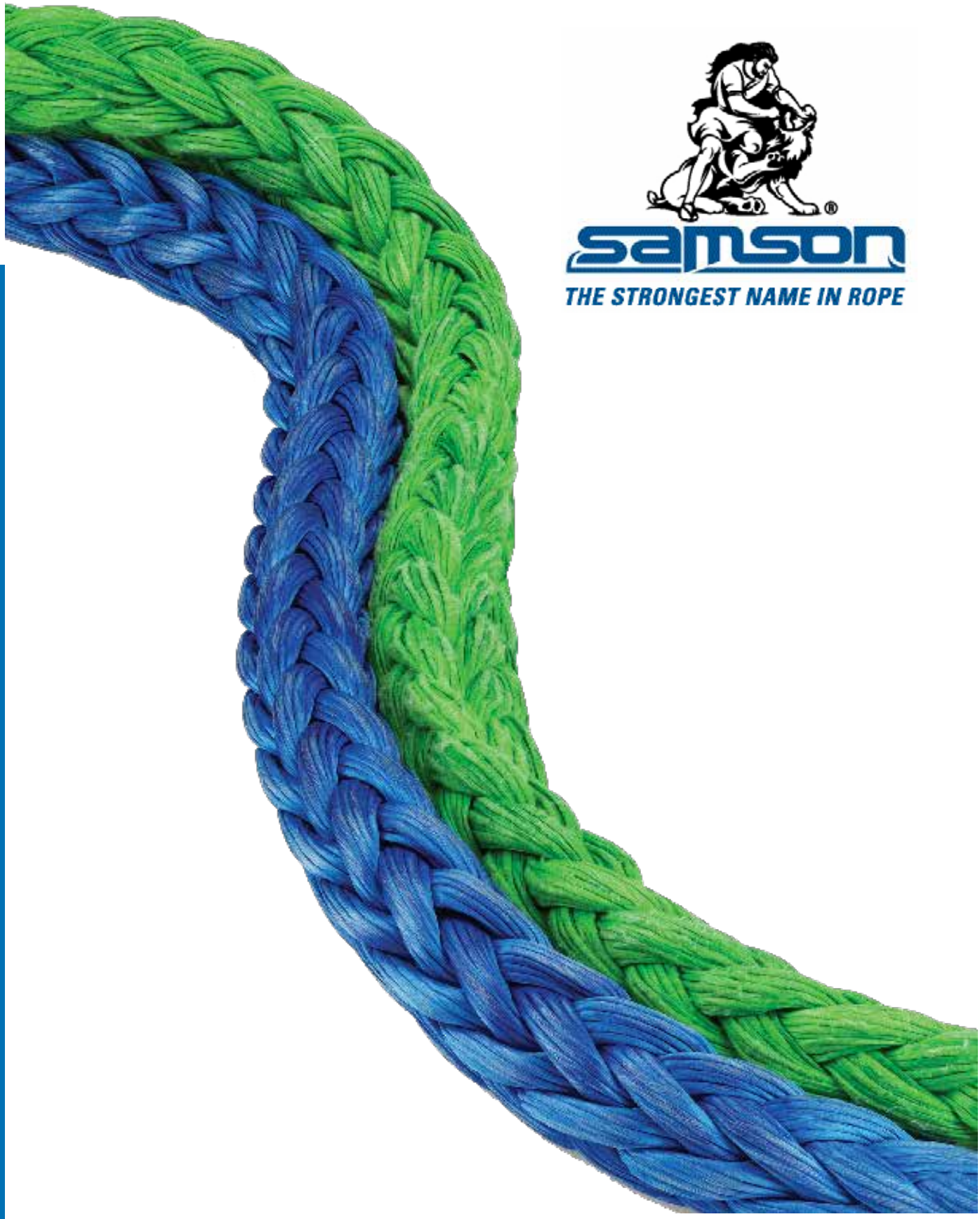
Beacon Fishing Chain							
Size in	Material Diameter	Inside Length	Inside Width	Finish	Working Load Limit	Feet per Package	Weight per Package
3/8	0.39 in	1.58 in	0.59 in	Bright	6600 lb	200 ft	268 lb
1/2	0.51 in	2.05in	0.83 in	Bright	11300 lb	200 ft	460 lb
5/8	0.63 in	2.52 in	0.94 in	Bright	15800 lb	200 ft	680 lb

Campbell®

Fishery Chain - Yellow Painted					
Type	Dimension (b x l x d)	Weight Kg/m	Proof load (t)	Breaking load (t)	Max. working load (t)
HLL	9-8 mm - 57x16mm length of 280m	1.4	5.2	10.4	2.6
KL	10-8 mm - 30x14mm length of 200m	2.3	6.4	12.8	3.2
HLL	11-8 mm-66x18mm length of 200m	2.1	7.7	15.5	3.8
KL	13-8 mm-39x17mm length of 150m	3.4	10.8	21.6	5.4
HL	13-8 mm-50x18mm length of 150m	3	10.8	21.6	5.4
HLL	13-8 mm-81x22mm length of 150m	2.7	10.8	21.6	5.4
KL	16-8 mm-48x22mm length of 100m	5.7	16.4	32.8	8.2
HL	16-8 mm-65x29mm length of 100m	5.1	16.4	32.8	8.2
LL	16-8 mm-100x26mm length of 100m	4.3	16.4	32.8	8.2
KL	19-8 mm - 57x26mm length of 75m	8	23.1	46.2	11.5
HL	19-8 mm - 75x32mm length of 75m	7.1	23.1	46.2	11.5
LL	19-8 mm -100x28mm length of 75m	6.5	23.1	46.2	11.5
KL	20-8 mm - 60x26mm length of 55m	8.5	25.6	51.2	12.8
KL	22-8 mm - 66x30mm length of 55m	11	31	62	15.5
HL	22-8 mm -88x30mm length of 55m	9.4	31	62	15.5
LL	22-8 mm -120x32mm length of 55m	8.5	31	62	15.5
KL	25-8 mm - 75x33mm length of 50m	14.5	40	80	20
LL	25-8 mm -140x41mm length of 50m	11	40	80	20
LL	28-8 mm -150x39mm length of 50m	14	50.2	100.4	25.1
LL	32-8 mm -170x44mm length of 50m	19	65.6	131.2	32.8

TRYGG
Nøsted Kjetting a·s





samson®

THE STRONGEST NAME IN ROPE

Comparison of Fiber Characteristics

(Using nylon as a basis of 1)

[1] **TENACITY** is the measurement of the resistance of fiber to breaking.
[2] **ELONGATION** refers to percent elongation of fiber at break.
[3] **COEFFICIENT OF FRICTION** is based on reluctance to slip or slide.
[4] **CRITICAL TEMPERATURE** is defined as the point at which degradation is caused by temperature alone.
[5] **COLD FLOW (CREEP)** is defined as fiber deformation (elongation) due to molecular slippage under a constant static loading situation. Fibers that have this inherent characteristic will display extremely low or negligible creep if minor fluctuations occur in the rate and/or frequency of load levels. In rope form, this would apply to polypropylene, polyethylene and HMPE fibers such as Spectra® and Dyneema® fiber. Bleach 91

samson
THE STRONGEST NAME IN ROPE

Generic Fiber Type	Nylon	Polyester	Polypropylene	HMPE	LCP	Aramid	Zylon
Tenacity (g/den)[1]	7.5-10.5	7-10	6.5	32 (Sk-60) 40 (Sk-75)	23-26	28	42
Elongation[2]	15-28%	12-18%	18-22%	3.6%	3.3%	4.6%	2.5%
Coefficient of Friction[3]	.12-.15	.12-.15	.15-.22	.05-.07	.12 - .15	.12 - .15	.18
Melting Point	425°-490° F	480°-500° F	300° F	300° F	625° F	930° F	1200° F
Critical Temperature[4]	225° F	350° F	250° F	150° F	300° F	520° F	750° F
Specific Gravity	1.14	1.38	.91	.97	1.40	1.39	1.56
Cold-Flow (Creep)[5] in Mooring Line Use	Negligible	Negligible	Negligible to High	Negligible to High	Negligible	Negligible	Negligible

Rope Contruction

Both CLASS I and CLASS II ropes can be produced in various rope constructions such as: 3-strand, 8-strand, 8x3-strand, 12-strand, double braids, or core dependent braids.

All samson ropes are categorized for splicing and testing purposes as a CLASS I or CLASS II construction.

CLASS I ropes are produced with non high modulus fibers that impart the strength and stretch characteristics to the rope which have tenacities of 15 grams/denier (gpd) or less and a total stretch at break of 6% or greater.

CLASS I ropes are produced with traditional fibers such as: olefin (polypropylene or polyethylene), nylon, and polyester.

CLASS II ropes are produced with high modulus fibers that impart the strength and stretch characteristics to the rope which have tenacities greater than 15 grams/denier (gpd) and a total stretch at break of less than 6%.

Typical CLASS II ropes are produced with HMPE (Dyneema® or Spectra®), Aramid® (Technora® or Kevlar®), LCP® (Vectran®), PBO (Zylon®), and Carbon fibers.

All rope size dimensions are nominal diameters and do not reflect exact dimensions. Weights depicted are average net rope weights relaxed and standard tolerances are plus or minus five percent.

Super Strong - Double Braided Nylon Rope

A double braid of high tenacity nylon fiber treated with Pro-Gard marine finish. This firm but flexible product maximizes wet wear life and strength due to the Pro-Gard marine finish. Certain sizes meet U.S. Military specification MIL-DTL-24050E. Please ask your customer service representative for details.

FEATURES:

- Excellent shock mitigaion
- Excellent wet wear
- Remains flexible and won't shrink harden
- Class 1 Double Braid splice
- High energy absorption/shock mitigation
- Excellent wear resistance
- Highly flexible-easy to handle

APPLICATIONS:

- Dock Lines
- Anchor Lines
- Trawl and Bridle Lines
- Gillnet Lead and Cork Lines
- Purse Seine Lines
- Secondary Mooring Lines US Navy-Coast Guard mooring lines
- Halters/Headgear
- Leads/Longelines/Mecates
- Rodeo/Rigging/Utility

Size Diameter inches (mm)	Weight		Minimum Breaking Strength		Average Breaking Strength	
	lbs./100 ft.	kg/100 m	lbs.	kg	lbs.	kg
1/4 (6)	1.6	2.4	2,000	890	2,300	1,000
5/16 (8)	2.6	3.9	2,900	1,300	3,400	1,500
3/8 (9)	3.7	5.5	4,200	1,900	4,900	2,200
7/16 (11)	5.1	7.6	5,600	2,500	6,600	3,000
1/2 (12)	6.6	9.8	7,300	3,300	8,600	3,900
5/8 (16)	12.0	17.9	12,900	5,900	15,200	6,900
3/4 (18)	15.0	22.3	16,000	7,200	18,800	8,500
7/8 (22)	22.0	32.7	24,700	11,200	29,000	13,200
1 (24)	26.0	38.7	30,600	13,900	36,000	16,300
1-1/16 (26)	31.0	46.1	34,600	15,700	40,700	18,500
1-1/8 (28)	36.0	53.6	38,300	17,400	45,000	20,400
1-1/4 (30)	41.0	61.0	44,200	20,000	52,000	23,600
1-5/16 (32)	43.5	64.7	50,400	22,900	59,300	26,900
1-1/2 (36)	60.0	89.3	64,300	29,100	75,600	34,300
1-5/8 (40)	74.0	110.0	78,200	35,500	92,000	41,700
1-3/4 (44)	89.0	132.0	96,300	43,700	113,000	51,400
2 (48)	106.0	158.0	111,000	50,500	131,000	59,400
2-1/8 (52)	124.0	185.0	132,000	59,700	155,000	70,200
2-1/4 (56)	144.0	214.0	150,000	68,200	177,000	80,300
2-1/2 (60)	165.0	246.0	172,000	77,900	202,000	91,600
2-5/8 (64)	188.0	280.0	196,000	88,700	230,000	104,000
2-3/4 (68)	212.0	315.0	218,000	99,100	257,000	117,000
3 (72)	238.0	354.0	243,000	110,000	286,000	130,000
3-1/4 (80)	294.0	437.0	289,000	131,000	340,000	154,000
3-5/8 (88)	356.0	530.0	353,000	160,000	415,000	188,000
4 (96)	423.0	629.0	425,000	193,000	500,000	227,000
4-1/4 (104)	497.0	740.0	479,000	217,000	564,000	256,000
4-5/8 (112)	576.0	857.0	549,000	249,000	646,000	293,000
5 (120)	662.0	985.0	622,000	282,000	732,000	332,000

Quantum-12

All purpose Commercial Marine Rope for tug, mooring and offshore

Quantum-12 is the latest addition in the continuing development of products utilizing Samson's exclusive patented use of DPX fiber. Much like Quantum-8, Quantum-12 is a light-weight, high-strength, floating rope that can grip on a capstan or H-bitt. The DPX yarn provides superior abrasion and cut resistance, but with a higher coefficient of friction than similar high performance ropes such as AmSteel-Blue. The 12-strand construction provides added flexibility, improved handling and easy spliceability. Green Samthane coating provides excellent visibility and additional abrasion resistance. Standard color: Vivid green.

Features:

- Utilizes Samson's patented DPX fiber technology yarns in its surface strands for higher coefficient of friction (better grip)
- Floats
- Excellent abrasion resistance
- Easily spliced

Applications:

- Wire Replacement - Non Jacketed
- High Performance Tug Lines
- High performance tug working line
- Offshore messenger or pick-up line
- For use on H-bitts, capstans and winches
- General Working Lines
- Rig Tow Lines
- SVMS Component

Size Diameter inches (mm)	Weight		Minimum Breaking Strength		Average Breaking Strength	
	lbs./100 ft.	kg/100 m	lbs.	kg	lbs.	kg
1 (24)	23.3	34.7	73,800	33,500	82,000	37,200
1-1/8 (28)	29.5	43.9	94,500	42,900	105,000	47,600
1-1/4 (30)	36.4	54.2	117,000	53,100	130,000	59,000
1-5/16 (32)	40.1	59.7	131,000	59,600	146,000	66,200
1-5/8 (40)	61.5	91.5	216,000	98,000	240,000	109,000
1-3/4 (44)	71.4	106.0	275,000	125,000	305,000	138,000
2 (48)	93.2	139.0	302,000	137,000	335,000	152,000
2-1/8 (52)	105.0	156.0	338,000	153,000	375,000	170,000
2-1/4 (56)	118.0	176.0	374,000	169,000	415,000	188,000
2-3/8 (57)	131.0	195.0	419,000	190,000	465,000	211,000
2-1/2 (60)	146.0	217.0	495,000	225,000	550,000	249,000
2-5/8 (64)	161.0	240.0	558,000	253,000	620,000	281,000
2-3/4 (68)	176.0	262.0	612,000	278,000	680,000	308,000
3 (72)	210.0	312.0	698,000	316,000	775,000	352,000
3-1/4 (80)	246.0	366.0	768,000	348,000	853,000	387,000
3-5/8 (88)	306.0	455.0	855,000	388,000	950,000	431,000
4 (96)	373.0	555.0	1,035,000	469,000	1,150,000	522,000
4-1/4 (104)	421.0	626.0	1,170,000	531,000	1,300,000	590,000
4-5/8 (112)	498.0	741.0	1,395,000	633,000	1,550,000	703,000
5 (120)	583.0	868.0	1,620,000	735,000	1,800,000	816,000

SSR-1200-3

The highest strength and most wear-resistant combination rope produced. SSR-1200 ropes are a compound plied yarn construction that utilizes the ultimate compatibility of filament polyester and Ultra Blue fibers. This unique combination yields strength and wear resistance equal to an all-polyester rope but with a significant reduction in weight.

Features:

- Higher strength than other combo ropes
- More durable than polypropylene
- More economical than polyester
- Lighter weight than an all polyester rope
- Class 1 3-Strand splice
- Equal strength and wear of an all Polyester rope
- 20% less weight than an all Polyester rope
- Low working elongation
- Excellent grip on H-bitts

Applications:

- Barge/dredge working lines
- Non-HMPE Tug Lines
- Locklines and Working Ropes

Size Diameter inches (mm)	Weight		Minimum Breaking Strength		Average Breaking Strength	
	lbs./100 ft.	kg/100 m	lbs.	kg	lbs.	kg
3/4 (18)	14.4	21.4	13,300	6,000	14,800	6,700
13/16 (20)	17.3	25.7	15,800	7,200	17,600	8,000
7/8 (22)	20.6	30.7	18,800	8,500	20,900	9,500
1 (24)	25.6	38.1	22,900	10,400	25,400	11,500
1-1/8 (28)	33.0	49.1	29,500	13,400	32,800	14,900
1-1/4 (30)	39.4	58.6	35,100	15,900	39,000	17,700
1-5/16 (32)	43.3	64.4	38,700	17,600	43,000	19,500
1-1/2 (36)	56.2	83.6	48,600	22,000	54,000	24,500
1-5/8 (40)	68.0	101.0	58,500	26,500	65,000	29,500
1-3/4 (44)	78.4	117.0	67,500	30,600	75,000	34,000
2 (48)	99.0	147.0	84,600	38,400	94,000	42,600
2-1/8 (52)	111.0	166.0	94,500	42,900	105,000	47,600
2-1/4 (56)	129.0	192.0	108,000	49,000	120,000	54,400
2-1/2 (60)	156.0	232.0	128,000	58,000	142,000	64,400
2-5/8 (64)	170.0	253.0	140,000	63,700	156,000	70,800
3 (72)	221.0	328.0	182,000	82,500	202,000	91,600
3-1/4 (80)	263.0	391.0	216,000	98,000	240,000	109,000

AmSteel-Blue®

The best all-around Dyneema® rope, a direct replacement for wire ropes proven to reduce tug assist and mooring costs. AmSteel-Blue is a proven cost-saving replacment for wire rope in key applications where strength, weight and safety are important.

Recognized worldwide as the standard for single braid HMPE ropes, AmSteel-Blue is easily spliced and inspected. These features, with the superior wear and flex fatigue of Dyneema SK-75 fiber and Samthane coating, are combined in a torque-free 12-Strand single braid design. The result is an industry leading braided synthetic rope that outlasts wire rope and has proven operator cost saving benefits.

AmSteel-Blue, at only 1/7th the weight of wire, requires less committed crew for mooring operations, significantly reduces mooring times and tug costs, and improves crew safety. The reduced weight, high strength and low stretch also make it ideal for Tug Assist/maneuvering lines, resulting in quick, efficient connections and control response. AmSteel-Blue is proven to provide longer service life and reduced costs in a variety of applications.

Standardized working pendants are available for mooring and tug assist lines. Recommended for split drum winch applications; not recommended for use on H-bitts, capstans or cleats if surging or rendering the rope is required.

Size Diameter inches (mm)	Weight		Minimum Breaking Strength		Average Breaking Strength	
	lbs./100 ft.	kg/100 m	lbs.	kg	lbs.	kg
3/16 (5)	1.0	1.5	4,900	2,200	5,400	2,400
1/4 (6)	1.6	2.4	7,700	3,500	8,600	3,900
5/16 (8)	2.7	4.0	12,300	5,600	13,700	6,200
3/8 (9)	3.6	5.4	17,600	8,000	19,600	8,900
7/16 (11)	4.2	6.2	21,500	9,800	23,900	10,800
1/2 (12)	6.4	9.5	30,600	13,900	34,000	15,400
9/16 (14)	7.9	11.8	36,500	16,500	40,500	18,400
5/8 (16)	10.2	15.2	47,500	21,600	52,800	24,000
3/4 (18)	13.3	19.8	58,000	26,300	64,400	29,200
7/8 (22)	19.6	29.2	81,700	37,100	90,800	41,200
1 (24)	21.8	32.4	98,100	44,500	109,000	49,400
1-1/16 (26)	27.5	40.9	118,000	53,600	131,000	59,600
1-1/8 (28)	31.9	47.5	133,000	60,400	148,000	67,100
1-1/4 (30)	36.2	53.9	149,000	67,500	165,000	75,000
1-5/16 (32)	41.8	62.2	166,000	75,200	184,000	83,600
1-3/8 (34)	45.0	67.0	185,000	83,900	205,000	93,200
1-1/2 (36)	51.7	76.9	205,000	93,000	228,000	103,000
1-5/8 (40)	65.2	97.0	255,000	116,000	283,000	128,000
1-11/16 (42)	71.0	106.0	276,000	125,000	307,000	139,000
1-3/4 (44)	78.4	117.0	302,000	137,000	335,000	152,000
2 (48)	87.0	130.0	343,000	155,000	381,000	173,000
2-1/8 (52)	109.0	162.0	411,000	186,000	457,000	207,000
2-1/4 (56)	116.0	173.0	484,000	219,000	537,000	244,000
2-1/2 (60)	148.0	220.0	529,000	240,000	588,000	267,000
2-5/8 (64)	167.0	249.0	595,000	270,000	662,000	300,000
2-3/4 (68)	187.0	278.0	662,000	300,000	735,000	333,000
3 (72)	206.0	307.0	748,000	339,000	832,000	377,000
3-1/8 (76)	228.0	339.0	828,000	376,000	920,000	417,000
3-1/4 (80)	240.0	357.0	906,000	411,000	1,007,000	457,000
3-3/4 (92)	350.0	521.0	992,000	450,000	1,102,000	500,000
3-5/8 (95)	324.0	482.0	945,000	429,000	1,050,000	476,000

Features:

- Uses Dyneema® SK-75 fiber
- Stronger than wire
- Same elongation as wire
- Extremely light
- Highly abrasion resistant
- Non-rotational
- Class 2 12-Strand splice
- Stronger than AmSteel
- Much stronger than steel
- Very low stretch
- Easily spliced
- Superior flex
- Torque free
- Floats
- Fatigue and wear resistant

Applications:

- Competition Grade Running Rigging
- Trawl and Bridle Lines
- Wire Replacement - Non Jacketed
- High Performance Tug Lines
- Climbing and Rigging Accessories
- Pulling and Stringing Lines
- Winch Lines
- Horizontal Lifelines
- Logging
- General Working Lines

SYNTHETIC ROPE

SuperDan 3-Strand Polypropylene Rope				
Diameter inches (mm)	**Breaking Strength lbs.**	**Colour**	**Coil Length feet**	**Coil Weight lbs.**
1/4 (6.35)	1,670	Green	1,200	14.76
	1,670	Yellow	1,200	14.76
9/32 (7.14)	2,560	Green	1,200	21.60
	2,560	Yellow	1,200	21.60
5/16 (7.94)	3,170	Green	1,200	26.64
	3,170	Yellow	1,200	26.64
3/8 (9.53)	3,920	Green	1,200	32.76
	3,920	Yellow	1,200	32.76
7/16 (11.11)	4,870	Green	1,200	39.96
	4,870	Yellow	1,200	39.96
1/2 (12.7)	6,870	Green	600	29.28
	6,870	Yellow	600	29.28
	6,870	Green	1,200	58.56
	6,870	Yellow	1,200	58.56
9/16 (14.29)	9,320	Green	1,200	75.00
	9,320	Yellow	1,200	75.00
5/8 (15.88)	11,500	Green	600	51.00
	11,500	Yellow	600	51.00
	11,500	Green	1,200	102.00
	11,500	Yellow	1,200	102.00
3/4 (19.05)	14,600	Green	600	65.40
	14,600	Yellow	600	65.40
	14,600	Green	1,200	130.80
7/8 (22.23)	21,100	Green	600	97.80
	21,100	Green	1,200	195.60
1 (25.4)	24,300	Green	600	115.20
1-1/8 (28.58)	31,600	Green	600	157.20
1-1/4 (31.75)	34,600	Green	600	177.60
1-1/2 (38.1)	48,500	Green	600	259.80
1-5/8 (41.28)	58,500	Green	600	319.20
2 (50.8)	87,800	Green	600	500.40

Wire Rope Industries (Atlantic) carries a full line of SuperDan 3-strand polypropylene rope. SuperDan delivers advanced durability, with excellent anti-abrasion properties and prolonged lifetime (over 105% that of regular poly). It also delivers superior strength, typically up to 50% greater than B.S. and ISO ratings. A proven multi-purpose rope, it has excellent application in the fishing sector, especially for deep-water traps.

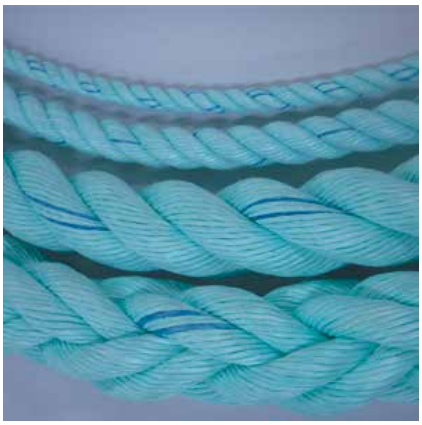
SYNTHETIC ROPE

Manila Rope

Diameter inches (mm)	Breaking Strength lbs.	Coil Length feet	Coil Weight lbs.
1/4 (6.35)	600	1,200	25
5/16 (7.94)	1,000	1,200	50
3/8 (9.53)	1,350	1,200	45
1/2 (12.7)	2,650	600	50
5/8 (15.88)	4,400	600	67
3/4 (19.05)	5,400	600	100
7/8 (22.23)	7,700	600	135
1 (25.4)	9,000	600	162
1-1/4 (31.75)	13,500	600	225
1-1/2 (38.1)	18,500	600	360
2 (50.8)	31,000	600	650

New SuperTec® 3-Strand Rope

DIA		CIR	Weight	Tensile Strength
MM	INCH	INCH	KGS/200M	TON
6	1/4	3/4	3.5	0.65
8	5/16	1	6.2	1.27
9	3/8	1-1/8	7.8	1.52
10	13/32	1-1/4	9.6	1.79
12	15/32	1-1/2	13.9	2.52
14	9/16	1-3/4	18.8	3.36
16	5/8	2	24.2	4.26
18	23/32	2-1/4	30.8	5.26
20	13/16	2-1/2	38.0	6.30
22	7/8	2-3/4	46.0	7.70
24	15/16	3	54.7	9.10
26	1-1/32	3-1/4	63.8	10.50
28	1-1/8	3-1/2	73.6	11.90
30	1-3/16	3-3/4	85.2	13.10
32	1-1/4	4	96.7	14.80
34	1-11/32	4-1/4	110.0	16.60
36	1-7/16	4-1/2	122.0	18.60
38	1-1/2	4-3/4	135.0	20.40
40	1-9/32	5	152.0	22.20
42	1-21/32	5-1/4	167.0	24.60
45	1-25/32	5-5/8	191.0	27.80
48	1-7/8	6	218.0	31.10
50	2	6-1/4	236.0	33.60
52	2-1/16	6-1/2	256.0	36.20
55	2-5/32	6-7/8	286.0	39.90
60	2-3/8	7-1/2	340.0	47.00
65	2-9/16	8-1/16	399.0	54.90
70	2-3/4	8-11/16	463.0	63.80
75	2-31/32	9-1/4	531.0	72.80
80	3-5/32	10	605.0	82.90
85	3-3/8	10-1/2	683.0	93.00
90	3-9/16	11-1/8	765.0	103.00



DSR'S innovative technology enables us to offer a stronger and affordable rope. SuperTEC® is the stronger rope among PP, PE and Polyolefin ropes. For Same breaking strength, smaller size of SuperTEC® can replace regular PP rope. It shows higher abrasion resistance than general PP rope. And smaller size of SuperTEC® rope leads to saving working hours and labor cost. It is easy to handle because it floats and does not absorb water.

- SuperTEC is 23% stronger than high tenacity PP ropes.
- SuperTEC is 50% ~ 60% stronger on average than general PP ropes.

3 Strand Polypropylene Rope

Dia. (")	Break Strength (lbs)	Approx. lbs/coil
3/16	760	14
1/4	1050	16
9/32	1350	18
5/16	1700	22
3/8	2450	34
7/16	3150	42
1/2	3600	58
9/16	4400	75
5/8	5500	45
7/8	10400	80
1	12250	107
1-1/4	18434	159
1-1/2	26876	245

Sizes 3/16"- 9/16" sold in 1200' coils; Sizes 5/8"- 1" sold in 600' coils only

This is the lightest and most economical of all synthetic ropes. It floats and is highly resistant to chemicals, but not recommended for crticial situations. Available in Yellow with green Tracer and Black. Other sizes, colors and tracers available via Special Order.

3 Strand Polypropylene - Reels
Yellow Industrial Rope

Diameter inches (mm)	Breaking Strength lbs.	Reel Length feet
3/16 (4.76)	720	2,125
1/4 (6.35)	1,050	1,310
5/16 (7.94)	1,700	975
3/8 (9.53)	2,450	630
1/2 (12.7)	3,600	335
5/8 (15.88)	5,500	200

SuperDan 8-Strand Polypropylene (Plated) Rope

Diameter inches (mm)	Circumference inches	Breaking Strength lbs.	Coil Length feet	Coil Weight lbs.
1-5/8 (41.28)	5	62,500	720	382
2 (50.8)	6	91,400	720	577
2-1/4 (57.15)	7	120,600	720	781
2-5/8 (66.68)	8	155,000	720	1,016
3 (76.2)	9	197,100	720	1,282
3-1/4 (82.55)	10	238,600	720	1,584

Danline 8-Strand Polypropylene (Plated) Rope

Diameter inches (mm)	Circumference inches	Breaking Strength lbs.	Coil Length feet	Coil Weight lbs.
1-5/8 (41.28)	5	36,000	720	342
2 (50.8)	6	52,000	720	497
2-1/4 (57.15)	7	69,000	720	663
2-5/8 (66.68)	8	90,000	720	864
3 (76.2)	9	114,000	720	1,102
3-1/4 (82.55)	10	137,000	720	1,368

Double Braided Nylon Rope

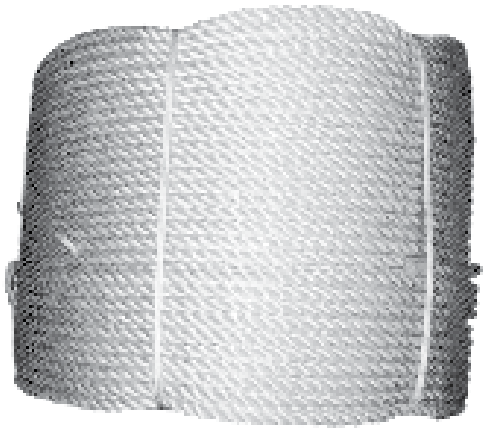
Rope Size inches (mm)	Diameter (mm)	Circumference inches	Weight		Minimum Tensile Strength	
			lbs/100ft	kg/100m	lbs.	kg
1/4 (6.35)	6	3/4	1.7	2.5	1,665	758
5/16 (7.94)	8	1	2.6	3.9	2,610	1,185
3/8 (9.53)	10	1-1/8	3.7	5.5	3,700	1,680
1/2 (12.7	12	1-1/2	6.4	9.5	6,525	2,962
5/8 (15.88)	16	2	12.0	17.9	10,200	4,631
3/4 (19.05)	18	2-1/4	16.0	23.8	14,500	6,583
7/8 (22.23)	22	2-3/4	21.8	32.5	19,500	8,853
1 (25.4)	24	3	29.0	38.7	25,225	11,452
1-1/4 (31.75	30	3-3/4	41.0	31.1	38,700	17,570
1-1/2 (38.1)	36	1-1/2	59.8	89.1	55,000	24,970

This rope is engineered for general marine, industrial, commercial and general use where controlled elongation, high strength and abrasion resistance are needed. It has 100% nylon braided core and cover that is fully spliceable. It resists mildew, rot and most chemicals.

- Specific gravity 1.14
- Controlled elongation
- High strength
- Abrasion resistance
- Mildew resistance
- Fully spliceable

Standard 3 Strand Twisted Nylon - White

Rope Size inches (mm)	Min. Breaking Load lbs.	Coil Length feet	Coil Weight lbs.
1/4 (6.35)	1,540	1,200	18
5/16 (7.94)	2,860	1,200	30
3/8 (9.53)	3,696	1,200	42
1/2 (12.7	6,600	600	39
5/8 (15.88)	11,660	600	63
3/4 (19.05)	16,500	600	87
7/8 (22.23)	22,000	600	120
1 (25.4)	28,400	600	156
1-1/8 (28.58)	34,760	600	204
1-1/4 (31.75)	44,000	600	240
1-1/2 (38.1)	59,800	600	330
1-3/4 (44.45)	70,000	600	498



This medium lay, high strength rope is used for anchor lines, dock lines and heavy marine applications.

Wrapping Rope

Rope Size inches (mm)	Reel Length feet
3/4 (19.05)	600

This rope is used for wrapping combination wire, selective grids or other purposes. This rope is a combination of nylon and polypropylene.

Shock Cord

Rope Size inches (mm)	Reel Length feet
3/16 (4.76)	1,000
1/4 (6.35)	500
5/16 (7.94)	500

Elastic rope.

Tarred Marlin

Quantity lbs.
1
5

Barbour Twine

Quantity (g.)
250

Sash Cord

Type	Diameter inches (mm)	Coil Length feet
5	1/8 (3.18)	1,000
6	3/16 (4.76)	100
6		760
7	7/16 (11.11)	100
7		660
8	1/4 (6.35)	100
8		500
10	5/16 (7.94)	100
10		350
12	3/8 (9.53)	100
12		240
16	1/2 (12.7)	170

Brownell Nylon Treated Twine

Size	Diameter inches	Feet per unit approximate	Tensile Strength
9	.044	1,700	95
12	.047	1,300	115
15	.054	1,100	135
18	.059	800	180
21	.067	700	225
24	.075	600	275
30	.080	500	315
36	.086	400	365
42	.095	300	385
48	.103	300	445
60	.119	200	620

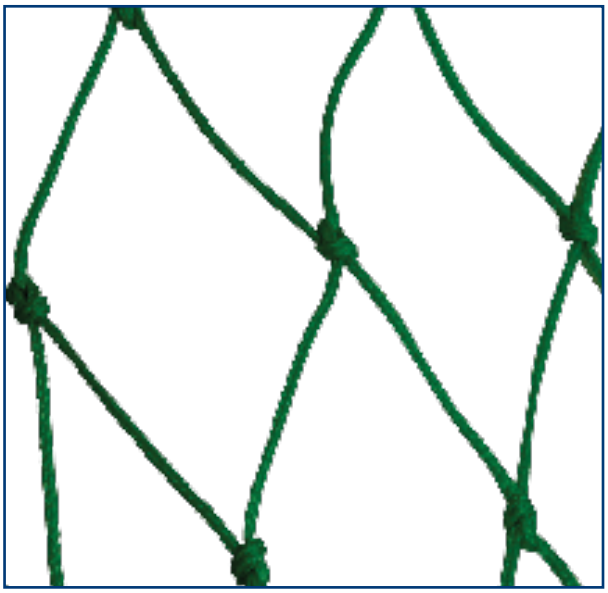
This twine offers a unique construction that resists twisting and tangling and will not unlay when cut. Brownell twines are treated with a proprietary bonding agent that provides stiffness and excellent resistance to abrasion.
This 3 ply 100% nylon twine is precision twisted to provide the right combination of relatively hard construction yet evenly laid. It is sealed with Brownell's exclusive HT treatment to enhance knot holding.
In addition to lobster heads, this twine is ideal for net hanging and repairing. Available in brown, green & white.

"The Green Netting"
Polyethylene Super Braided - High Density

This netting has been used in the last two decades as the top material in the Trawl Industry. The advantage of this material in the Bottom Fishing industry is well known by all.

Some of those advantages are:

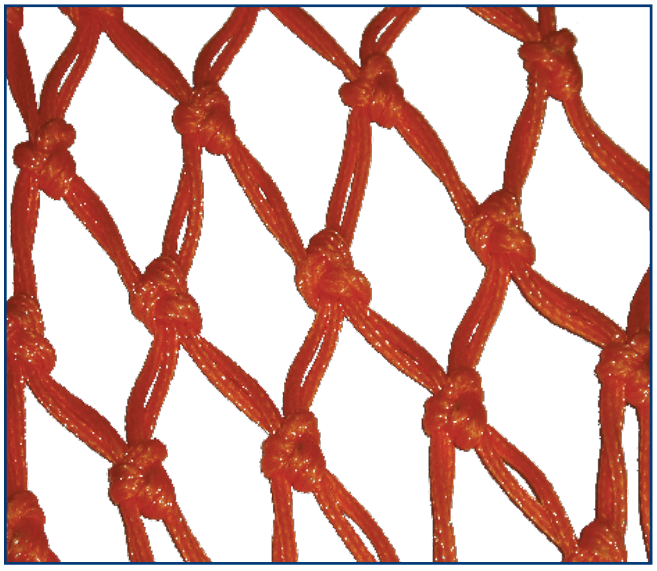
- It floats
- Lower operating costs
- Very good abrasion properties
- Efficient fishing
- Clean fishing



Diameter (mm)	Runnage m/kg	Breaking Strength kgf
1.8	615	60
2.5	405	100
3.0	274	120
3.5	232	160
4.0	190	185
4.5	168	200
5.0	125	350
5.5	85	350
6.0	75	380
7.0	54	580
8.0	37	650

Twisted Netting Polyethylene - High Density

This high density polyethylene twisted netting is used in fishing by a large number of small fishing boats and is available in the following twine sizes:



Reference	Diameter (mm)	Runnage m/kg	Breaking Strength kgf
10/9	1.1	1,950	20
10/12	1.3	1,280	28
10/15	1.4	1,150	32
10/18	1.5	980	38
10/21	1.7	840	45
10/24	1.7	720	53
10/27	1.9	625	58
10/30	2.0	540	64
10/39	2.3	400	88
10/45	2.5	350	100
10/60	3.0	290	120
12/60	3.5	240	145
12/90	4.0	125	250
12/120	5.0	88	300
15/60	4.0	140	215

* Netting is also sold by the bail.

SCALLOP GEAR

Scallop Chain

Size
11mm
1/2" Mid-Link
5/8" Thur-Hard

Link Closers

• Alloy steel and rubber grip steel tubular handles used to close scallop links. High quality and Performance

Scallop Rings

Size (")
3 x 5/16
3 x 3/8
3-1/2 x 3/8
3-1/2 x 7/16
4 x 7/16

Black Iron Swivels

Size (")
5/8
1-1/4

Black Iron Shackles

Size (")
3/8
1/2
5/8

Scallop Links

Sold by the Keg (100lbs each)

Size
3/8" x 2"
5/16 x 2"

MCC Bolt Cutters

• Alloy steel blades, rubber grip steel tubular handles, toggle joint transforms 50lbs of hand pressure to 4000lbs of pressure on cutting edges of the jaws, adjustment bolt to align cutting heads, blades are drop forged, cutting edges induction quenched

• Maximum hardness of material to be cut HRC40

Size (")
30
36
42

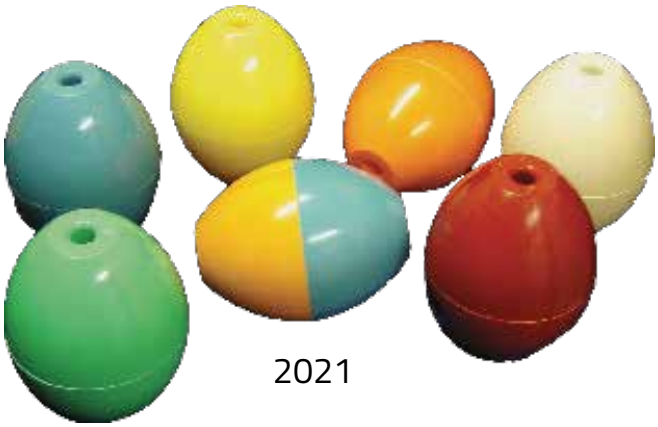
FLOATS

Oval Floats

Part. No.	Diameter mm	Colour	Buoyancy grams*	Maximum Depth meters	Working Depth meters	Weight grams
2021 (1060)	120 x 150	yellow/white	780	700	500	400
2041 (104)	110 x 150	orange/white	707	450	400	400

*Buoyancy has been measured in fresh water. In salt water the buoyancy increases.

Oval floats are specially designed to use with all kinds of gill nets. Recommended working depths: 400 - 550 m



2021

Trawl Floats with Handles

Part. No.	Diameter mm	Colour	Buoyancy grams*	Maximum Depth meters	Working Depth meters	Weight grams
8025 (2080)	200	yellow	2,690	1,850	1,700	1,500
9045 (629)	230	green	4,000	2,000	1,800	2,310

*Buoyancy has been measured in fresh water. In salt water the buoyancy increases.

Trawl floats with handles are designed for increased strength and greater buoyancy. Available in two sizes: 8" and 9". Recommended working depths: 1700 - 1800 m.

FLOATS

Trawl Float with Center Hole

Part. No.	Diameter mm	Colour	Buoyancy grams*	Maximum Depth meters	Working Depth meters	Weight grams
8021 (1084)	200	green	3,270	600	500	1,000
8022 (1085)	200	orange	2,650	1,200	1,050	1,300
8023 (1086)	200	yellow	2,450	1,400	1,200	1,500
8043 (508)	200	red	2,470	1,300	1,200	1,500
8044 (577)	280	yellow	2,470	1,300	1,200	1,500
1121 (1101)	280	orange	8,650	650	600	2,500
1122 (1102)	280	yellow	7,980	1,050	950	3,200
1141 (446)	280	orange	8,400	670	600	2,620
1142 (511)	280	red/yellow	7,500	1,050	950	3,460
1441 (714)	360	white	17,600	900	800	7,145

*Buoyancy has been measured in fresh water. In salt water the buoyancy increases.

1141

1142

8043

8044

1441

Trawl floats with a centre hole designed for general trawling. Strong and durable and available in three sizes: 8", 11" and 14". Recommended working depts: 400 - 1200 meters.

Trawl Float with Two Side Holes

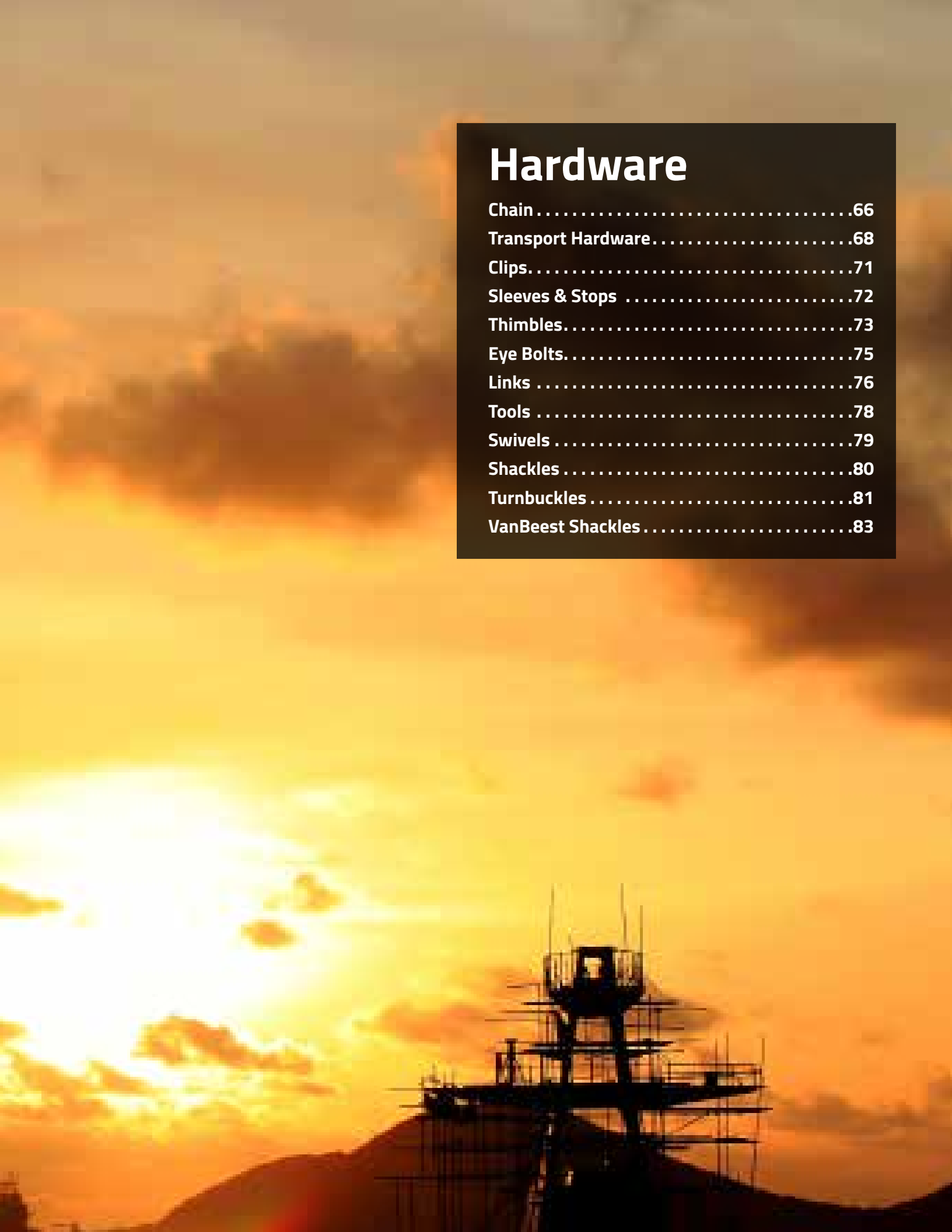
Part. No.	Diameter mm	Colour	Buoyancy grams*	Maximum Depth meters	Working Depth meters	Weight grams
5041 (364)	125	orange	630	670	600	275
6041 (357)	160	orange	1,575	450	400	390
8041 (356)	200	orange	3,480	450	400	850
8046 (138)	200	orange	3,100	800	700	1,100

*Buoyancy has been measured in fresh water. In salt water the buoyancy increases.

5041

6041

8046



Hardware


capital
SAFETY
GLOBAL LEADER IN
FALL PROTECTION
DBI
SALA
PROTECTA
We have more patents, engineers and industry innovators than any other
fall protection manufacturer.

the Crosby group

Crosby is your single source for accessories used in the lifting and material handling industry with the highest levels of quality control available

Recognized Dependability

Crosby is considered the standard of the industry. Crosby products are manufactured with the highest design factors in the industry. Crosby products are better able to withstand abusive field conditions because of the improved impact and fatigue characteristics designed into each item of our line.

Crosby recognizes the importance of four essential performance properties in its products:

- Working Load Limit
- Ductility
- Fatigue
- Toughness

Engineering Excellence

Engineering is the application of scientific principles to practical ends in the design, construction and use of equipment and systems. Crosby engineers its product to perform. The applications of the following items are an example of the available engineering expertise that has resulted in Crosby being considered the standard of the industry

- Proper selection of material and heat treatment process that allows for superior strength and impact performance.
- Active participants in professional societies and committees including ASTM, CVSA, API, ASM and ANSI.
- Extensive expertise in computer aided design (CAD), Finite Element Analysis, Non-Destructive Testing and Failure Analysis of Products.
- ISO 9001 Certified.

Quality Control

The majority of the steel purchased by Crosby is isolated from production until approved by our metallurgical lab. Each product is individually "PIC Coded" (Product Identification Code) to allow traceability to its respective date of production and material certification.

CHAIN

Galvanized Chain - Grade 30

Trade Size (in)	WLL 4 : 1 (lbs)	Inside Measurements (in)		Weight per 100 ft (lbs)	Feet per Drum
		Length	Width		
1/4	1 300	1.24	0.38	66	800
5/16	1 900	1.29	0.44	86	550
3/8	2 650	1.38	0.55	142	400
1/2	4 500	1.79	0.72	242	200
5/8	6 900	2.20	0.79	357	150

Self Coloured Chain - Grade 30

Trade Size (in)	WLL 4 : 1 (lbs)	Inside Measurements (in)		Weight per 100 ft (lbs)	Feet per Drum
		Length	Width		
1/4	1 300	1.24	0.38	66	800
5/16	1 900	1.29	0.44	86	550
3/8	2 650	1.38	0.55	142	400
1/2	4 500	1.79	0.72	242	200
5/8	6 900	2.20	0.79	357	150

Mid Link Chain - Self Coloured

Trade Size (in)	WLL 4 : 1 (lbs)	Inside Measurements (in)		Feet per Drum
		Length	Width	
3/8	6 800	1.57	0.60	400
1/2	10 700	2.04	0.75	200
5/8	16 000	2.51	1.00	150
3/4	22 500	2.99	1.14	100

Long Link Lashing Chain

Trade Size (in)	Breaking Strength (lbs)	Inside Measurements (in)	
		Length	Width
3/8	38 500	2.59	0.71
1/2	64 000	3.19	0.87
5/8	90 000	3.93	1.02

CHAIN

Stainless Steel Chain - 316 SS

Trade Size (in)	WLL 3 : 1 (lbs)	Inside Measurements (in)		Feet per Drum
		Length	Width	
3/16	1 050	0.96	0.29	750
1/4	1 700	1.15	0.45	800
5/16	2 250	1.29	0.47	550
3/8	3 500	1.39	0.57	400
1/2	6 425	1.80	0.74	200

Transport Chain - Grade 70

Trade Size (in)	WLL 4 : 1 (lbs)	Inside Measurements (in)		Weight per 100 ft (lbs)	Feet per Drum
		Length	Width		
1/4	3 150	0.85	0.44	63	800
5/16	4 700	1.01	0.48	111	550
3/8	6 600	1.38	0.55	142	400
1/2	11 300	1.70	0.75	238	200

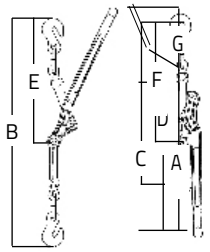
Overhead Lifting Chain - Grade 80

Trade Size (in)	WLL 4 : 1 (lbs)	Material Diameter (in)	Inside Measurements (in)		Weight per 100 ft (lbs)	Feet per Drum
			Length	Width		
9/32	3 500	0.27	0.83	0.35 - 0.41	70	800
5/16	4 500	0.31	0.94	0.39 - 0.47	92	550
3/8	7 100	0.39	1.18	0.49 - 0.59	142	400
1/2	12 000	0.51	1.53	0.64 - 0.79	244	200
5/8	18 100	0.63	1.86	0.79 - 0.94	356	150
3/4	28 300	0.79	2.36	0.98 - 1.18	562	100

Alloy Chain - Grade 100

Chain Size Inches	Working Load Limit*(lbs)	OD	E	H	Weight 100 ft (lbs)
5/16	5 700	0.32	0.95	0.45	97
3/8	8 800	0.40	1.2	0.58	151
1/2	15 000	0.52	1.5	0.72	253
5/8	22 600	0.63	1.9	0.87	450

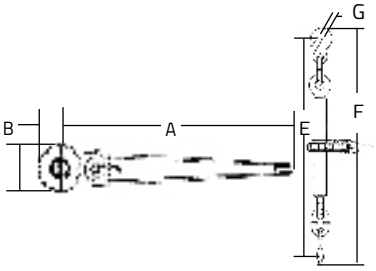
LOAD BINDERS



Lever Load Binder

Forged Steel - Quenched & Tempered. Extra heavy construction at leverage point to prevent spreading. Heel of binder toggles away from load, permitting easy release. Ball and socket swivel joints at hook assemblies permit a straight line pull.

Chain Size		Working Load Limit lbs.	Weight lbs.	Dimensions - inches									Price
minimum inches (mm)	maximum inches (mm)			Handle length	Take up	A	B	C	D	E	F	G	
5/16 (7.94)	3/8 (9.53)	5,400	6.70	16.00	4.50	24.13	22.13	17.88	16.00	10.38	10.38	0.50	24.94
3/8 (9.53)	1/2 (12.7)	9,200	11.50	18.50	4.50	27.81	25.75	21.25	18.69	12.00	12.00	0.63	44.88



Ratchet Load Binder

Chain Size		Working Load Limit lbs.	Weight lbs.	Dimensions - inches									Price
minimum inches (mm)	maximum inches (mm)			Handle length	Barrel length	Take up	A	B	C	E	F	G	
5/16 (7.94)	3/8 (9.53)	5,400	10.50	14	10	8.0	14.00	1.38	2.75	22.94	25.13	0.50	41.35
3/8 (9.53)	1/2 (12.7)	9,200	12.90	14	10	8.0	14.00	1.38	2.75	25.25	27.63	0.63	48.42
1/2 (12.7)	5/8 (15.88)	16,000	14.38	14	10	8.0	14.00	1.38	2.75	26.38	29.44	0.72	111.12

IMPROPER OPERATION OF LOAD BINDERS CAN RESULT IN SERIOUS INJURY OR DEATH.

Do not operate the binder while you or anyone else is on the load. You might slip or fall risking serious injury or death.

When applying the binder, always position the load binder so the handle is tightened in a downward manner. Failure to do so may result in a sudden snapping back of the lever, which might result in serious injury or death.

Load binders are designed to be tightened to the approximate Working Load Limit by a substantial hand effort.

Do not use a handle extension. Extensions can severely damage the binder system and result in serious injury or death.

The operator should at all times use the load binder from a firm standing position that will ensure protection for himself as well as those in the immediate vicinity.

Load binders are a form of machinery and require periodic inspection and maintenance.

Inspect for wear, deformation, cracks, nicks, or gouges before using. Replace if damaged. Load binders should be periodically lubricated to give optimum performance and reduce friction losses.

LOAD BINDERS, LEVER TYPE

In releasing lever type binders, be sure no one is positioned to be struck by the handle, which may release suddenly. If there is a possibility for a relaxation of the chain when the binder is in the locked or "over center" position, the handle should be secured to the binding chain by securely wrapping the loose end of the chain around the handle. Whenever possible, secure the handle down with a positive retaining method.

RATCHET STRAP ASSEMBLIES

WIRE ROPE INDUSTRIES (ATLANTIC) can design and manufacture heavy or light duty ratchet assemblies that are weather and wear resistant and will secure your load properly and safely.

WIRE ROPE INDUSTRIES (ATLANTIC) tie down straps and ratchet assemblies are manufactured from the highest quality proof tested webbing hardware. They can be supplied with any one of several standard or custom made end fittings to ensure that your load is adequately and safely secured. Larger ratchet assemblies are available in standard or long handled versions.

Ratchet Strap Assemblies Design factor 3:1

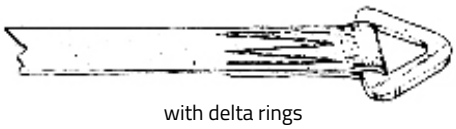
Description imperial (metric)		End Fittings		Reach foot (m)	Working Load Limit lbs.
1" (25.4)	Ratchet & Strap Assembly	2	Double-J-Hook	20 (6.1)	1,000
1-3/4" (44.45)		2	Double-J-Hook		3,000
1-3/4" (44.45)		2	Flat-Hook		3,000
3" (76.2)		2	Double-J-Hook	30 (9.14)	5,400
3" (76.2) x 30' (9.14)	Flat Hook	1	Flat Hook		5,400
4" (101.6) x 30' (9.14)		1	Flat Hook		5,400
3" (76.2) x 30' (9.14)	Chain Assembly	1	Chain Assembly		5,400
4" (101.6) x 30' (9.14)		1	Chain Assembly		5,400

Tie Down Cargo Strap with

Width inches (mm)	Length feet (m)
2 (50.8)	10 (3.05)
	15 (4.57)
	20 (6.1)
	25 (7.62)
	30 (9.14)
3 (76.2)	10 (3.05)
	15 (4.57)
	20 (6.1)
	25 (7.62)
	30 (9.14)
4 (101.6)	10 (3.05)
	15 (4.57)
	20 (6.1)
	25 (7.62)
	30 (9.14)

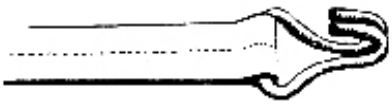
with flat hooks

HEAVY-DUTY RACHET ASSEMBLY
Available in 1", 1-3/4" and 3" widths



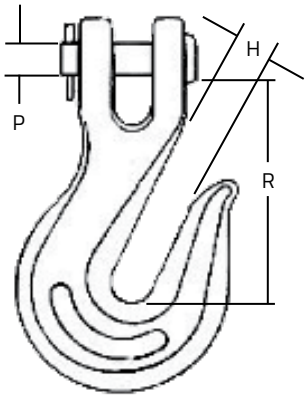
with delta rings

with snap hooks



with wire hooks

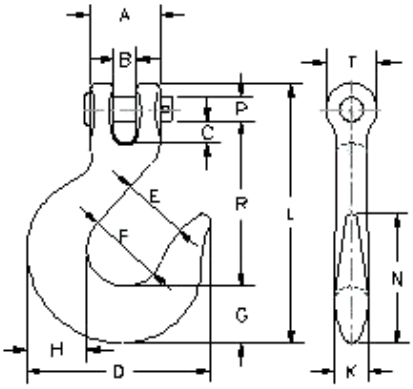
HOOKS



Grade 70 Clevis Grab Hook

Forged Alloy Steel. Not for overhead lifting. Design factor 4:1

Chain Size inches (mm)	Hook Dimensions - inches			Working Load Limit Tons
	P - Pin Diameter	R Pull to Pull	H Throat	
1/4 (6.35)	0.31	1.64	0.32	3,500
5/16 (7.94)	0.38	2.02	0.39	4,700
3/8 (9.53)	0.44	2.41	0.45	7,100
1/2 (12.7)	0.63	3.19	0.66	12,000



Grade 70 Clevis Slip Hook

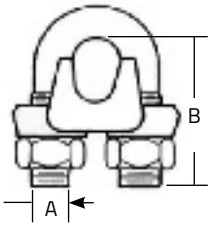
Forged Alloy Steel. Not for overhead lifting. Design factor 4:1 GRADE 70.

Dimensions in Inches													Working Load Limit lbs	Weight lbs. each
Size	A	B	C	D	E	F	G	H	K	L	N	R		
1/4	1.06	0.32	0.29	2.75	0.94	1.19	0.81	0.88	0.50	3.95	2.13	2.58	2,750	0.55
5/16	1.22	0.43	0.34	3.06	1.06	1.25	0.94	1.00	0.56	4.52	2.25	2.87	4,300	0.79
3/8	1.38	0.45	0.44	3.63	1.31	1.50	1.13	1.19	0.66	5.15	2.56	3.25	5,250	1.21
1/2	1.88	0.57	0.53	4.81	1.69	1.94	1.56	1.63	0.91	6.53	3.44	4.00	9,000	2.75
5/8	2.31	0.71	0.71	5.63	2.00	2.38	1.81	1.94	1.09	7.89	4.00	4.94	13,500	4.75

CLIPS

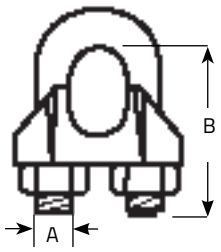
Drop Forged Clip

Rope Diameter inches (mm)	Dimensions - inches			Clips minimum
	A	B	Turnback	
1/8 (3.18)	0.22	0.72	3-1/4	2
3/16 (4.76)	0.25	0.97	3-3/4	2
1/4 (6.35)	0.31	1.03	4-3/4	2
5/16 (7.94)	0.38	1.38	5-1/4	2
3/8 (9.53)	0.44	1.50	6-1/2	2
1/2 (12.7)	0.50	1.88	11-1/2	3
9/16 (14.29)	0.56	2.22	12	3
5/8 (15.88)	0.56	2.38	12	3
3/4 (19.05)	0.62	2.75	18	4
7/8 (22.23)	0.75	3.12	19	4
1 (25.4)	0.75	3.50	26	5
1-1/8 (28.58)	0.75	3.88	34	6
1-1/4 (31.75)	0.88	4.25	44	7
1-1/2 (38.1)	0.88	4.94	54	8
1-3/4 (44.45)	1.13	5.75	61	8
2 (50.8)	1.25	6.44	71	8



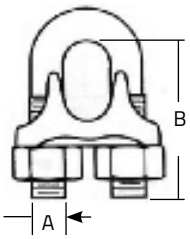
Malleable Clip

Rope Diameter inches (mm)	Dimensions - inches			Clips minimum
	Stock	Length	Turnback	
1/8 (3.18)	0.18	0.81	4-3/4	3
3/16 (4.76)	0.25	0.94	5-1/2	3
1/4 (6.35)	0.31	1.19	7	3
5/16 (7.94)	0.31	1.31	7-3/4	3
3/8 (9.53)	0.38	1.63	9-1/2	3
1/2 (12.7)	0.44	2.25	15-1/4	4
5/8 (15.88)	0.50	2.31	16	4
3/4 (19.05)	0.56	2.56	22-1/4	5
7/8 (22.23)	0.63	3.06	23-1/2	5
1 (25.4)	0.63	3.44	31	6

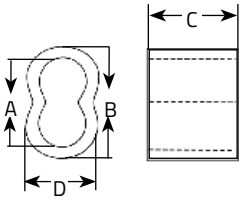


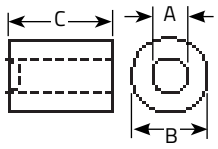
Stainless Steel Clip

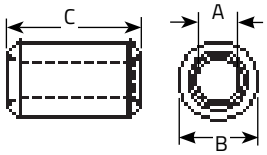
Rope Diameter inches (mm)	Dimensions - inches			Clips minimum
	A	B	Turnback	
1/8 (3.18)	0.22	0.72	3-1/4	2
3/16 (4.76)	0.25	0.97	3-3/4	2
1/4 (6.35)	0.31	1.03	4-3/4	2
5/16 (7.94)	0.37	1.19	5-1/4	2
3/8 (9.53)	0.44	1.50	6-1/2	2
1/2 (12.7)	0.50	1.88	11-1/2	3
5/8 (15.88)	0.56	2.38	12	3



SLEEVES & STOPS







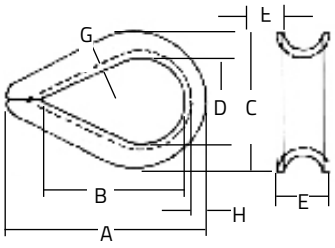
Duplex Sleeves - Aluminum and Copper (Zinc Plated)

Diameter inches (mm)	After Swage inches	Width inches	Length inches	Depth inches
	A	B	C	D
Aluminum				
1/16 (1.59)	0.19	0.25	0.38	0.17
3/32 (2.38)	0.28	0.41	0.50	0.28
1/8 (3.18)	0.31	0.50	0.63	0.34
5/32 (3.97)	0.38	0.56	0.69	0.38
3/16 (4.76)	0.44	0.66	1.00	0.44
1/4 (6.35)	0.56	0.81	1.13	0.53
5/16 (7.94)	0.69	1.03	1.25	0.69
3/8 (9.53)	0.81	1.16	1.44	0.75
Copper (Zinc Plated)				
1/16 (1.59)	0.18	0.20	0.22	0.17
3/32 (2.38)	0.26	0.33	0.33	0.23
1/8 (3.18)	0.26	0.3	0.33	0.33
5/32 (3.97)	0.35	0.42	0.33	0.38
3/16 (4.76)	0.35	0.42	0.33	0.44
1/4 (6.35)	0.60	0.66	0.69	0.52
5/16 (7.94)	0.73	1.02	1.13	0.67
3/8 (9.53)	0.80	1.47	1.88	0.72

Wire Stop - Aluminum and Copper

Diameter inches (mm)	After Swage inches	Width inches	Length inches
	A	B	C
Aluminum			
1/16 (1.59)	0.18	0.20	0.22
3/32 (2.38)	0.26	0.33	0.33
1/8 (3.18)	0.26	0.33	0.33
5/32 (3.97)	0.35	0.42	0.33
3/16 (4.76)	0.35	0.42	0.33
1/4 (6.35)	0.60	0.66	0.69
5/16 (7.94)	0.60	0.66	0.69
Copper (Zinc Plated)			
1/16 (1.59)	0.18	0.20	0.22
3/32 (2.38)	0.26	0.33	0.33
1/8 (3.18)	0.26	0.33	0.33
5/32 (3.97)	0.35	0.42	0.33
3/16 (4.76)	0.35	0.42	0.33
1/4 (6.35)	0.60	0.66	0.69
5/16 (7.94)	0.60	0.66	0.69

THIMBLES

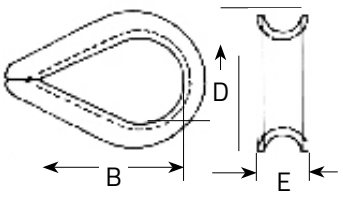


Standard Wire Rope Thimbles

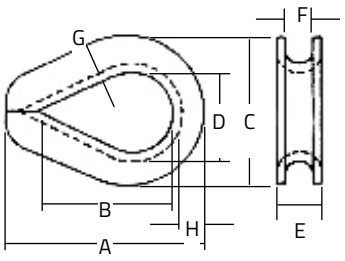
Rope Diameter inches (mm)	Dimensions - inches								Weight lbs.
	A	B	C	D	E	F	G	H	
1/8 (3.18)	1.94	1.31	1.06	0.69	0.25	0.16	0.05	0.13	0.03
3/16 (4.76)	1.94	1.31	1.06	0.69	0.31	0.22	0.05	0.13	0.03
1/4 (6.35)	1.94	1.31	1.06	0.69	0.38	0.28	0.05	0.13	0.03
5/16 (7.94)	2.13	1.50	1.25	0.81	0.44	0.34	0.05	0.13	0.04
3/8 (9.53)	2.38	1.63	1.47	0.94	0.53	0.41	0.06	0.16	0.07
1/2 (12.7)	2.75	1.88	1.75	1.13	0.69	0.53	0.08	0.19	0.13
5/8 (15.88)	3.50	2.25	2.38	1.38	0.91	0.66	0.13	0.34	0.34
3/4 (19.05)	3.75	2.50	2.69	1.63	1.08	0.78	0.14	0.34	0.47
7/8 (22.23)	5.00	3.50	3.19	1.88	1.27	0.94	0.16	0.44	0.85
1 (25.4)	5.69	4.25	3.75	2.50	1.39	1.06	0.16	0.41	0.98
1-1/8 (28.58) ▪ 1-1/4 (31.75)	6.25	4.50	4.31	2.75	1.75	1.31	0.22	0.50	1.75

Stainless Steel Heavy Duty

Rope Diameter inches (mm)	Eye Dimensions - inches		
	B	D	E
1/8 (3.18)	1.31	0.69	0.25
3/16 (4.76)	1.31	0.69	0.31
1/4 (6.35)	1.63	0.88	0.41
5/16 (7.94)	1.88	1.06	0.50
3/8 (9.53)	2.13	1.13	0.63
1/2 (12.7)	2.75	1.50	0.81
5/8 (15.88)	3.25	1.75	0.97
3/4 (19.05)	3.75	2.00	1.22
7/8 (22.23)	4.25	2.25	1.38
1 (25.4)	4.50	2.50	1.56

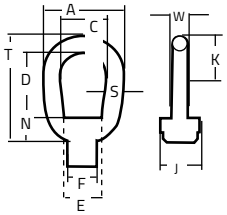


THIMBLES & EYE NUTS



Heavy Duty Wire Rope Thimbles

Rope Diameter inches (mm)	Dimensions - inches								Weight lbs.
	A	B	C	D	E	F	G	H	
1/4 (6.35)	2.19	1.63	1.50	0.88	0.41	0.28	0.06	0.23	0.07
5/16 (7.94)	2.50	1.88	1.81	1.06	0.50	0.34	0.08	0.28	0.12
3/8 (9.53)	2.88	2.13	2.13	1.13	0.63	0.41	0.11	0.34	0.25
7/16 (11.11)	3.25	2.38	2.38	1.25	0.72	0.47	0.13	0.38	0.30
1/2 (12.7)	3.63	2.75	2.75	1.50	0.81	0.53	0.14	0.41	0.51
9/16 (14.29)	3.63	2.75	2.69	1.50	0.88	0.59	0.14	0.41	0.51
5/8 (15.88)	4.25	3.25	3.13	1.75	0.97	0.66	0.16	0.50	0.75
3/4 (19.05)	5.00	3.75	3.81	2.00	1.22	0.78	0.22	0.66	1.47
7/8 (22.23)	5.50	4.25	4.25	2.25	1.38	0.94	0.22	0.75	1.75
1 (25.4)	6.13	4.50	4.94	2.50	1.56	1.06	0.25	0.88	2.75
1-1/8 (28.58) ▪ 1-1/4 (31.75)	7.00	5.13	5.88	2.88	1.81	1.31	0.25	1.13	4.00
1-1/4 (31.75) ▪ 1-3/8 (34.93)	9.06	6.50	6.81	3.50	2.19	1.44	0.38	1.13	8.17
1-1/2 (38.1)	9.00	6.25	7.13	3.50	2.56	1.56	0.50	1.13	11.75
1-3/4 (44.45)	12.19	9.00	8.50	4.50	2.84	1.84	0.50	1.31	17.75
2 (50.8)	15.13	12.00	10.38	6.00	3.09	2.09	0.50	1.50	25.00
2-1/4 (57.15)	17.13	14.00	11.88	7.00	3.63	2.38	0.63	1.63	39.50
2-1/2 (63.5)	18.00	14.00	12.63	6.75	4.38	3.00	0.72	2.13	50.50
3 (76.2)	19.50	14.50	14.25	7.75	5.00	3.63	0.78	2.25	73.00



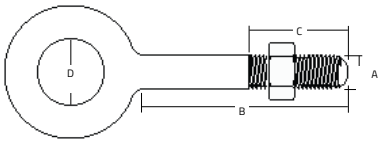
Eye Nuts Galvanized Ultimate load is 5 times the working load limit. Rating based on standard tap size.

Size	Standard Tap inches (mm)	Dimensions - inches											Working Load Limits lbs.	Weight lbs.
		A	C	D	E	F	J	K	N	S	T	W		
1	1/4 (6.35)	1.25	0.75	1.00	0.75	0.50	0.69	0.63	0.46	0.25	1.72	0.31	520	0.09
2	3/8 (9.53)	1.62	1.00	1.20	0.83	0.56	0.81	0.89	0.58	0.31	2.09	0.41	1,250	0.17
3A	1/2 (12.7)	2.00	1.25	1.44	1.08	0.81	1.00	1.09	0.73	0.38	2.55	0.50	2,250	0.28
4	5/8 (15.88)	2.50	1.50	1.92	1.35	1.00	1.31	1.31	0.83	0.50	3.25	0.69	3,600	0.60
5	3/4 (19.05)	3.00	1.75	2.28	1.59	1.12	1.50	1.57	1.05	0.63	3.96	0.84	5,200	1.00
6	7/8 (22.23)	3.50	2.00	2.50	1.96	1.38	1.88	1.77	1.14	0.75	4.40	1.00	7,200	1.65
7	1 (25.4)	4.00	2.25	2.92	2.21	1.56	2.13	2.02	1.30	0.88	5.10	1.19	10,000	2.69
8	1-1/4 (31.75)	4.50	2.50	3.35	2.46	1.88	2.38	2.27	1.52	1.00	5.87	1.38	15,500	3.87

EYE BOLTS

Regular Eye Bolt - Forged

Dimensions - inches				Working Load Limit lbs.
Shank (mm)		Thread	Eye	
A	B	C	D	
3/8 (9.53)	6 (152.4)	2.50	0.75	1,550
1/2 (12.7)	8 (203.2)	3.00	1.00	2,600
	10 (254.0)	3.00	1.00	2,600
5/8 (15.88)	8 (203.2)	3.00	1.25	5,200
	10 (254.0)	3.00	1.25	5,200
	12 (304.8)	4.00	1.25	5,200
3/4 (19.05)	8 (203.2)	3.00	1.50	7,200
	10 (254.0)	3.00	1.50	7,200
	12 (304.8)	4.00	1.50	7,200
1 (25.4)	12 (304.8)	4.00	2.00	13,300



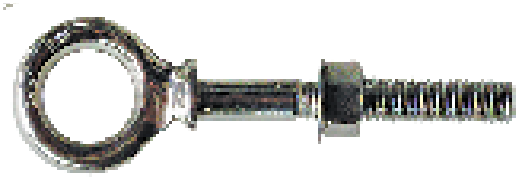
- Working load ratings are for in-line with respect to centerline of shank.
- For angular lifts, the shoulder type eye bolt should be used.
- Angular lifts should not be applied to eyebolts that are turned into a tapped hole.
- In making angular lifts the working load should be reduced as follows:

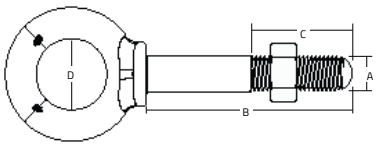
Direction of pull
adjusted working load
45° 30% of rated working load
90° 25% of rated working load

The above ratings are for eye bolts having the shoulder firmly seated against the mating. Direction of pull is in respect to the plane of the eye as shown in the illustration.

Shoulder Eye Bolt - Forged

Dimensions - inches				Working Load Limit lbs.
Shank (mm)		Thread	Eye	
A	B	C	D	
1/4 (6.35)	2 (50.8)	1.50	0.50	650
	3 (76.2)	2.50	0.50	650
5/16 (7.94)	2-1/4 (57.15)	1.50	0.63	1,200
	4-1/4 (107.95)	2.50	0.63	1,200
3/8 (9.53)	2-1/2 (63.50)	1.50	0.75	1,550
	4-1/2 (114.30)	2.50	0.75	1,550
1/2 (12.7)	3-1/4 (82.55)	1.50	1.00	2,600
	6 (152.4)	3.00	1.00	2,600
5/8 (15.88)	4 (101.6)	2.00	1.25	5,200
	6 (152.4)	3.00	1.25	5,200
3/4 (19.05)	4-1/2 (114.30)	2.00	1.50	7,200
	6 (152.4)	3.00	1.50	7,200
7/8 (22.23)	5 (127.0)	2.50	1.75	10,600
1 (25.4)	6 (152.4)	3.00	2.50	13,300
	9 (228.6)	4.00	2.50	13,300
1-1/4 (31.75)	8 (203.2)	4.00	2.50	21,000
	12 (304.8)	4.00	2.50	21,000
	15 (381.0)	6.00	3.00	21,000





SNAP HOOKS & LINKS

Snap Hook Plated & Stainless Steel

*Not for overhead lifting

Stock inches (mm)	Plated		Stainless	
	Part #	Price	Part #	Price
3/16 (4.76)	88671	.28	82341	2.25
1/4 (6.35)	88673	.46	82343	2.63
5/16 (7.94)	88663	.57	82344	4.28
3/8 (9.53)	88664	1.39	82331	6.76
1/2 (12.7)	88679	3.51	82346	13.34
9/16 (14.29)	88660	9.00	n/a	n/a

Snap Hook Galvanized

*Not for overhead lifting

Stock inches (mm)	Working Load Limits lbs.
7/16 (11.11)	750
9/16 (14.29)	1,000

Galvanized Quick Link

Mild steel, zinc coated. Not for overhead lifting.

Chain Stock inches (mm)	Working Load Limit lbs.
1/8 (3.18)	200
3/16 (4.76)	520
1/4 (6.35)	750
5/16 (7.94)	1,525
3/8 (9.53)	1,800
7/16 (11.11)	2,550
1/2 (12.7)	3,300

Stainless Steel Quick Link

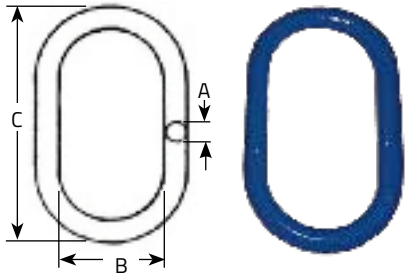
Not for overhead lifting.

Chain Stock inches (mm)	Working Load Limit lbs.
1/8 (3.18)	330
3/16 (4.76)	600
1/4 (6.35)	950
5/16 (7.94)	1,350
3/8 (9.53)	1,700
1/2 (12.7)	2,975

Master Link

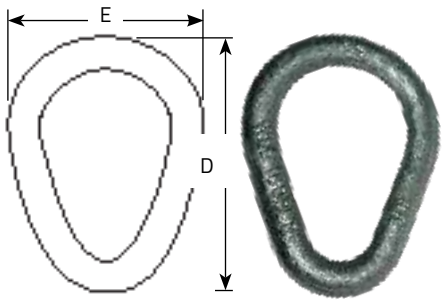
Ultimate load is 5 times the working load limit.

Stock A inches (mm)	Dimensions - inches		Working Load Limit lbs.
	B Width	C Length	
5/8 (15.88)	3.00	6.00	9,000
3/4 (19.05)	2.75	5.50	12,300
1 (25.4)	3.50	7.00	24,360
1-1/4 (31.75)	4.38	8.75	36,200
1-1/2 (38.1)	5.25	10.50	54,300
1-3/4 (44.45)	6.00	12.00	84,900
2 (50.8)	7.00	14.00	102,600



Galvanized Sling/Pear Link

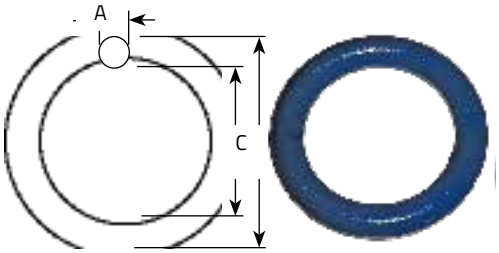
Stock inches (mm)	Dimensions - inches		Working Load Limit lbs.
	D Length	E Width	
3/8 (9.53)	3.00	2.25	1,800
1/2 (12.7)	4.00	3.00	2,900
5/8 (15.88)	5.00	3.75	4,200
3/4 (19.05)	6.00	4.50	6,000
7/8 (22.23)	7.00	5.25	8,300
1 (25.4)	8.00	6.00	10,800
1-1/4 (31.75)	10.25	7.50	16,750



Weldless Ring

Ultimate load is 6 times the working load limit.

Stock A inches (mm)	Dimensions - inches		Working Load Limit lbs.
	B Inside	C Outside	
7/8 (22.23)	4.00	5.75	7,200
7/8 (22.23)	5.50	7.25	5,600
1 (25.4)	4.00	6.00	10,800
1-1/8 (28.58)	6.00	8.25	10,400
1-1/4 (31.75)	5.00	7.50	17,000
1-1/4 (31.75)	10.00	8.25	19,000



TOOLS

Swaging Tools

Tool #	Style	Can Swage Size Sleeves / Stops	
1/16 (1.59)	A	1/16	1/16
1/8 (3.18)	B	1/8	5/32 - 3/16
3/16 (4.76)	B	3/16	3/16
1/4 (6.35)	B	1/4	1/4
1/16 - 3/16	C	1/16 - 3/16	1/16 - 7/32

B

C

Wire Cable Cutters

Model	Wire Capacity inches (mm)	Length inches (mm)
Felco C-7	3/16 (4.76)	7-1/2 (190.5)
Felco C-9	3/8 (9.53)	12-1/2 (317.5)
Felco C-12	1/2 (12.7)	19 (482.6)
Felco C-16	5/8 (15.88)	23 (584.2)
HK Porter	5/8 (15.88)	36 (914.4)
HK Porter	3/4 (19.05)	42 (1066.8)
Impacto	3/32 (2.38) - 3/4 (19.05)	11/16 (17.46)

Felco C-7

Felco C-9

Bolt Cutters

Bolt Diameter inches (mm)	Length inches (mm)	Cutter Heads Part #
7/16 (11.11)	24 (609.6)	0113C
1/2 (12.7)	30 (762)	0213C
9/16 (14.29)	36 (914.4)	0313C
11/16 (17.46)	42 (1066.8)	0513C

Impacto

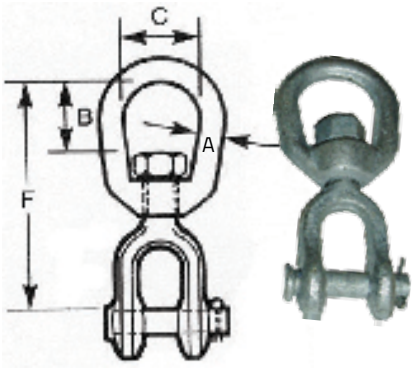
HK 390

HK 590

SWIVELS

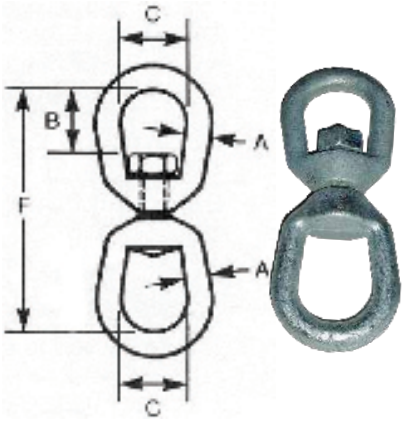
Jaw & Eye Galvanized Swivel

Stock inches (mm) A	Dimensions - inches			Working Load Limit lbs.
	B	C	F	
1/4 (6.35)	0.69	0.75	2.63	850
5/16 (7.94)	0.81	1.00	2.94	1,250
3/8 (9.53)	0.94	1.25	3.63	2,250
1/2 (12.7)	1.31	1.50	4.50	3,600
5/8 (15.88)	1.56	1.75	5.31	5,200
3/4 (19.05)	1.75	2.00	6.06	7,200
7/8 (22.23)	2.06	2.25	7.00	10,000
1 (25.4)	2.31	2.50	8.56	12,500
1-1/4 (31.75)	2.69	3.13	9.75	18,000
1-1/2 (38.1)	3.88	4.00	14.25	45,200



Eye & Eye Galvanized Swivel

Stock inches (mm) A	Dimensions - inches			Working Load Limit lbs.
	B	C	F	
1/4 (6.35)	0.69	0.75	2.94	850
5/16 (7.94)	0.81	1.00	3.56	1,250
3/8 (9.53)	0.94	1.25	4.31	2,250
1/2 (12.7)	1.31	1.50	5.44	3,600
5/8 (15.88)	1.56	1.75	6.56	5,200
3/4 (19.05)	1.75	2.00	7.18	7,200
7/8 (22.23)	2.06	2.25	8.38	10,000
1 (25.4)	2.31	2.50	9.63	12,500
1-1/4 (31.75)	2.69	3.13	11.44	18,000
1-1/2 (38.1)	3.88	4.00	17.13	45,200



Eye & Eye Stainless Swivel

Stock inches (mm) A	Dimensions - inches			Working Load Limit lbs.
	B	C	L	
1/4 (6.35)	-	-	-	600
5/16 (7.94)	0.80	0.82	3.71	1,100
3/8 (9.53)	1.05	0.95	4.64	1,540
1/2 (12.7)	1.35	1.22	5.97	2,640
5/8 (15.88)	1.72	1.49	7.37	4,750
3/4 (19.05)	2.12	1.62	9.00	7,000

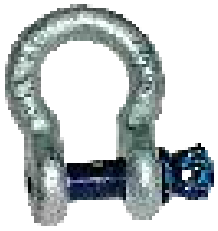
Scallop Swivel

Type	Stock inches (mm)
Long Bow	5/8 (15.88)
Short Bow	1-1/4 (31.75)

SHACKLES

Screw Pin Bow Shackle Load Rated Design factor 6:1

Nominal Size inches (mm)	Working Load Limit tons
3/16 (4.76)	1/3
1/4 (6.35)	1/2
5/16 (7.94)	3/4
3/8 (9.53)	1
7/16 (11.11)	1-1/2
1/2 (12.7)	2
5/8 (15.88)	3-1/4
3/4 (19.05)	4-3/4
7/8 (22.23)	6-1/2
1 (25.4)	8-1/2
1-1/8 (28.58)	9-1/2
1-1/4 (31.75)	12
1-3/8 (34.93)	13-1/2
1-1/2 (38.1)	17
1-3/4 (44.45)	25
2 (50.8)	35
2-1/2 (63.5)	55



Safety Anchor Shackle Load Rated Design factor 6:1

Nominal Size inches (mm)	Working Load Limit tons
3/8 (9.53)	1
7/16 (11.11)	1-1/2
1/2 (12.7)	2
5/8 (15.88)	3-1/4
3/4 (19.05)	4-3/4
7/8 (22.23)	6-1/2
1 (25.4)	8-1/2
1-1/8 (28.58)	9-1/2
1-1/4 (31.75)	12
1-3/8 (34.93)	13-1/2
1-1/2 (38.1)	17
1-3/4 (44.45)	25
2 (50.8)	35
2-1/2 (63.5)	55
3 (76.2)	85

Screw Pin Chain Shackle Design factor 6:1

Nominal Size inches (mm)	Working Load Limit tons
1/4 (6.35)	0.50
5/16 (7.94)	0.75
3/8 (9.53)	1.00
1/2 (12.7)	2.00
5/8 (15.88)	3.25
3/4 (19.05)	4.75
7/8 (22.23)	6.50
1 (25.4)	8.50

Screw Pin Chain Shackle Stainless

Stock inches (mm)
1/4 (6.35)
5/16 (7.94)
3/8 (9.53)
1/2 (12.7)
5/8 (15.88)

Screw Pin Chain Shackle Stainless

Stock inches (mm)
1/8 (3.18)
3/16 (4.76)
1/4 (6.35)
5/16 (7.94)
3/8 (9.53)
1/2 (12.7)
5/8 (15.88)
3/4 (19.05)

Black D Shackle

Stock inches (mm) A	Shackle Dimensions - inches			Working Load Limit
	B Throat	C Pull to Pull	D Pin	
3/8 (9.53)	0.78	1.06	0.38	non-rated
1/2 (12.7)	1.00	1.91	0.50	non-rated
5/8 (15.88)	1.25	2.50	0.63	non-rated

TURNBUCKLES

Forged Steel Quenched & Tempered

Jaw & Jaw

Dimensions (in)		Working Load Limit (lbs)	Weight (lbs)
Diameter & Takeup	Minimum length		
1/4 X 4	7.90	500	0.36
5/16 X 4 1/2	9.40	800	0.52
3/8 X 6	11.38	1 200	0.81
1/2 X 6	13.00	2 200	1.56
1/2 X 9	16.00	2 200	1.74
1/2 X 12	19.00	2 200	2.40
5/8 X 6	14.88	3 500	2.72
5/8 X 9	17.88	3 500	3.43
5/8 X 12	20.88	3 500	3.91
3/4 X 6	16.60	5 200	4.11
3/4 X 9	19.60	5 200	5.46
3/4 X 12	22.60	5 200	6.56
3/4 X 18	28.60	5 200	8.03
7/8 X 12	24.32	7 200	8.17
1 X 12	26.06	10 000	13.14
1 X 18	32.06	10 000	15.14
1 X 24	38.06	10 000	18.08
1 1/4 X 18	35.54	15 200	24.68
1 1/4 X 24	41.54	15 200	28.20
1 1/2 X 18	37.50	21 400	36.75
1 1/2 X 24	43.50	21 400	41.60
2 X 24	52.72	37 000	94.25
2 1/2 X 24	58.18	60 000	165.00
2 3/4 X 24	61.50	75 000	198.00

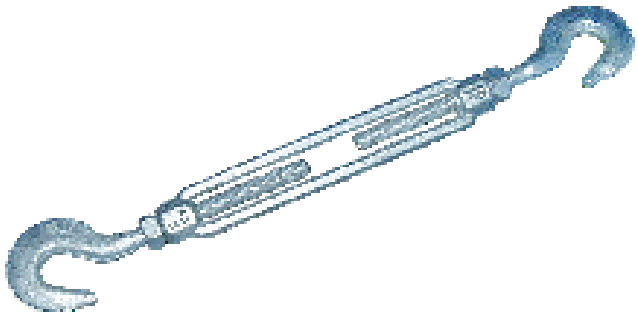
Bottle - Jaw & Jaw

Diameter (in)	Working Load Limit (lbs)
3/8	1 200
1/2	2 200
5/8	3 500
3/4	5 200
7/8	7 200
1	10 000
1 1/4	15 200

TURNBUCKLES

Hook & Hook

Dimensions (in)		Working Load Limit (lbs)	Weight (lbs)
Diameter & Takeup	Minimum length		
5/16 X 4 1/2	9.31	700	0.47
3/8 X 6	11.72	1 000	0.78
1/2 X 6	13.38	1 500	1.60
1/2 X 9	16.38	1 500	1.83
5/8 X 6	15.25	2 250	2.75
5/8 X 9	18.25	2 250	3.38
3/4 X 9	20.28	3 000	5.28
3/4 X 12	23.28	3 000	5.43
7/8 X 12	25.00	4 000	8.10
1 X 12	26.69	5 000	11.93



Eye & Eye

Dimensions (in)		Working Load Limit (lbs)	Weight (lbs)
Diameter & Takeup	Minimum length		
5/16 X 4 1/2	9.62	800	0.45
3/8 X 6	12.16	1 200	0.76
1/2 X 6	13.96	2 200	1.54
1/2 X 9	16.96	2 200	1.83
1/2 X 12	19.96	2 200	2.14
5/8 X 6	15.68	3 500	2.40
5/8 X 9	18.68	3 500	2.83
3/4 X 9	20.62	5 200	4.61
3/4 X 12	23.62	5 200	5.48
7/8 X 12	24.82	7 200	7.22
1 X 12	27.72	10 000	11.50

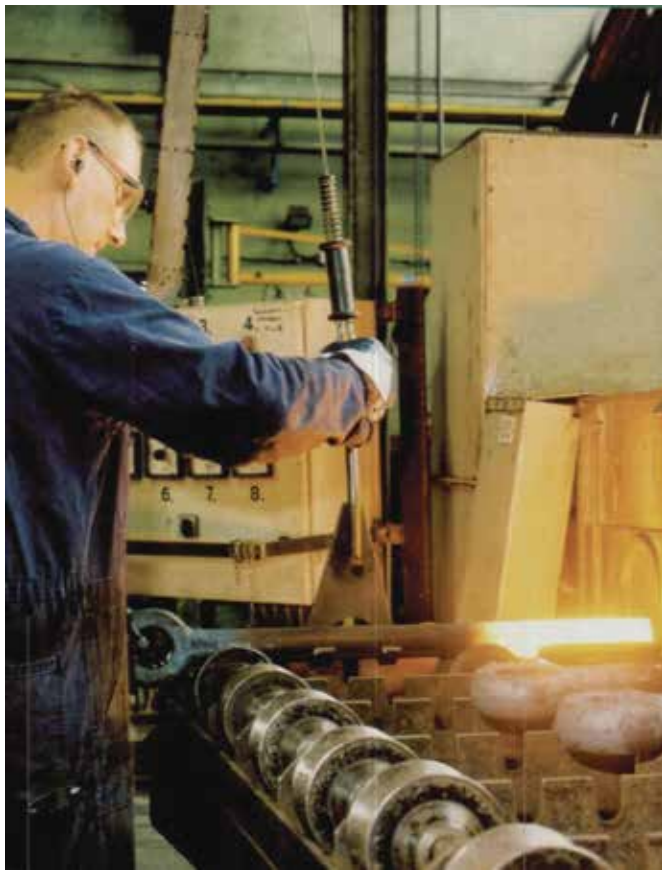
Stainless Steel - Jaw & Jaw

Dimensions (in)	Working Load Limit (lbs)
Diameter & Takeup	
1/4 x 4	500
5/16 x 5	800
3/8 x 6	1 200
1/2 x 6	2 200
5/8 x 6	3 500
3/4 x 6	5 200

Green Pin®

To ensure the high and steady quality of Green Pin products, Van Beest is certified according to the latest ISO norm, 9001:2000. The combination of the right material and a balanced heat treatment results in a high quality product with optimal strength and durability.

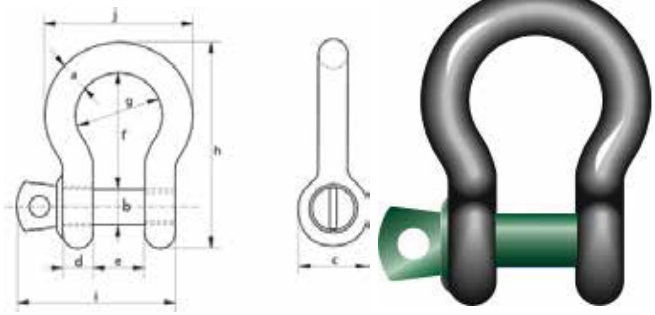
Make sure you are using the original Green Pin product by checking the marking on the body of the shackle. Besides the steel grade and CE conformity sign, you will find the manufacturer code below Green Pin standard shackles or vBs for Green Pin Super shackles. Furthermore, Green Pin products show a traceability code that enables tracing any shackle back to the raw material and all the stages of the production process to its final testing.



G4161 Bow Shackles with Screw Collar Pin

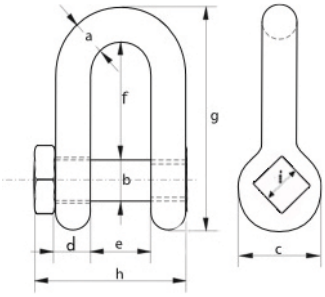
Green Pin®

Material:	Bow and pin high tensile steel, Grade 6, quenched and tempered
Safety Factor:	MBL equals 6 x WLL
Standard:	EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, Grade A
Finish:	Hot dipped galvanized
Temperature Range:	-20°C up to +200°C
Certificates:	At no extra charge, this product can be supplied with a works certificate, certificate of basic raw material, manufacturer test certificate and/or EC Declaration of Conformity.



Working Load Limit tons	Stock A inches (mm)	Dimensions - inches									Weight lbs. per shackle
		B	C	D	E	F	G	H	I	J	
0.33	3/16 (5)	1/4	1/2	3/16	3/8	7/8	5/8	1-5/8	1-1/4	1-1/8	0.05
0.50	1/4 (7)	5/16	11/16	9/32	1/2	1-5/32	25/32	2-1/8	1-9/16	1-1/2	0.11
0.75	5/16 (9)	3/8	13/16	11/32	17/32	1-9/32	7/8	2-3/8	1-15/16	1-11/16	0.22
1.00	3/8 (10)	7/16	29/32	3/8	11/16	1-7/16	1	2-25/32	2-3/16	1-15/16	0.30
1.50	7/16 (11)	1/2	1-1/32	7/16	3/4	1-23/32	1-5/32	3-5/32	2-11/16	2-1/8	0.42
2.00	1/2 (13.5)	5/8	1-11/32	17/32	7/8	2	1-9/32	3-19/32	3	2-1/2	0.79
3.25	5/8 (16)	3/4	1-19/32	5/8	1-3/32	2-17/32	1-23/32	4-1/2	3-11/16	3-1/8	1.38
4.75	3/4 (19)	7/8	1-7/8	3/4	1-1/4	3	2	5-11/32	4-3/16	3-23/32	2.22
6.50	7/8 (22)	1	2-3/32	7/8	1-7/16	3-9/32	2-9/32	6-5/32	4-13/16	4-3/16	3.31
8.50	1 (25)	1-1/8	2-11/32	1	1-23/32	3-3/4	2-11/16	6-29/32	5-9/16	4-7/8	4.86
9.50	1-1/8 (28)	1-1/4	2-5/8	1-1/8	1-7/8	4-1/4	2-15/16	7-3/4	6-3/16	5-3/8	6.97
12.00	1-1/4 (32)	1-3/8	2-29/32	1-9/32	2	4-17/32	3-9/32	8-9/16	6-29/32	6-1/32	9.49
13.50	1-3/8 (35)	1-1/2	3-5/32	1-3/8	2-1/4	5-1/4	3-5/8	9-7/16	7-9/16	6-11/16	12.24
17.00	1-1/2 (38)	1-5/8	3-1/2	1-17/32	2-11/32	5-3/4	3-29/32	10-5/16	8-3/16	7-3/16	16.37
25.00	1-3/4 (45)	2	4-1/8	1-25/32	2-29/32	7	4-15/16	12-11/32	9-13/16	8-29/32	28.31
35.00	2 (50)	2-1/4	4-11/32	1-31/32	3-9/32	7-3/4	5-7/16	14-3/32	11-3/32	9-13/16	40.01
42.50	2-1/4 (57)	2-9/16	5-9/32	2-1/4	3-3/4	8-3/4	6-9/32	16-5/16	12-5/8	11-5/16	57.96
55.00	2-1/2 (65)	2-3/4	5-3/4	2-9/16	4-1/8	10-1/4	7-3/32	18-1/4	14	12-15/16	82.89

Green Pin®

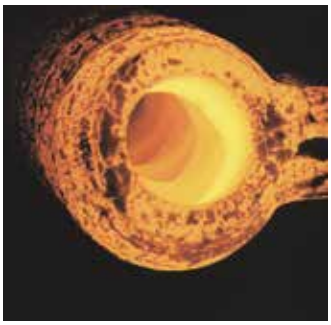


G4154 Green Pin® Trawling Shackle

Dee shackle with square headed screw pin

Material:	Bow and pin high tensile steel, Grade 6, quenched and tempered
Safety Factor:	MBL equals 6 x WLL
Standard:	Meets performance requirements of US Fed. Spec. RR-C-271, Grade A
Finish:	Hot dipped galvanized
Certificates:	At no extra charge, this product can be supplied with a works certificate, certificate of basic raw material, manufacturer test certificate and/or EC Declaration of Conformity.

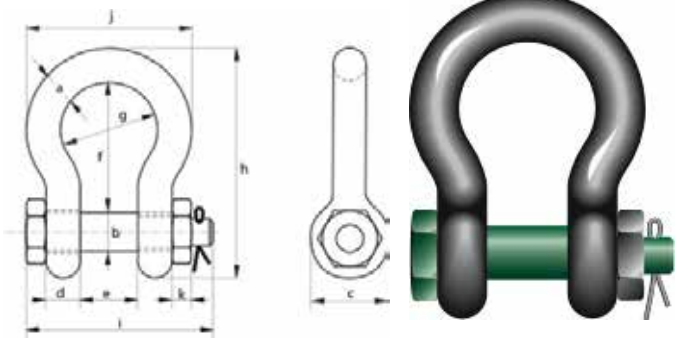
Working Load Limit tons	Stock A inches (mm)	Dimensions - inches								Weight lbs. per shackle
		B	C	D	E	F	G	H	I	
2.00	1/2 (13.5)	5/8	1-11/32	17/32	7/8	1-23/32	3-11/32	2-9/32	7/8	0.70
3.25	5/8 (16)	3/4	1-19/32	5/8	1-3/32	2	4-1/8	2-25/32	1-3/32	1.28
4.75	3/4 (19)	7/8	1-7/8	3/4	1-1/4	2-5/16	4-29/32	3-1/4	1-9/32	2.03
6.50	7/8 (22)	1	2-3/32	7/8	1-7/16	2-7/8	5-11/16	3-11/16	1-9/32	2.93
8.50	1 (25)	1-1/8	2-11/32	1	1-23/32	3-11/32	6-5/16	4-1/4	1-7/16	4.48
9.50	1-1/8 (28)	1-1/4	2-5/8	1-1/8	1-7/8	3-9/16	7-1/32	4-3/4	1-5/8	6.35
12.00	1-1/4 (32)	1-3/8	2-29/32	1-9/32	2	3-23/32	7-13/16	5-3/8	1-31/32	8.72
13.50	1-3/8 (35)	1-1/2	3-5/32	1-3/8	2-1/4	4-17/32	8-11/16	5-7/8	1-31/32	11.56
17.00	1-1/2 (38)	1-5/8	3-1/2	1-17/32	2-11/32	5	9-3/8	6-1/2	2-11/32	15.00
25.00	1-3/4 (45)	2	4-1/8	1-25/32	2-29/32	5-7/8	11-5/32	7-9/16	2-11/32	24.74



G4163 Bow Shackle with Safety Bolt

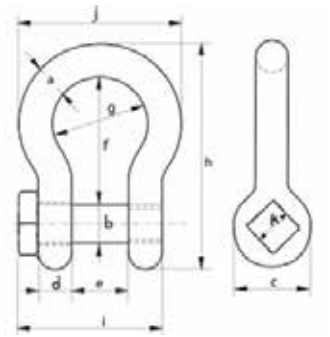
Material: Bow and pin high tensile steel, Grade 6, quenched and tempered
Safety Factor: MBL equals 6 x WLL
Standard: EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A
Finish: Hot dipped galvanized
Temperature Range: -20°C up to +200°C
Certificates: At no extra charge, this product can be supplied with a works certificate, certificate of basic raw material, manufacturer test certificate and/or EC Declaration of Conformity.

Green Pin®



Working Load Limit tons	Stock A inches (mm)	Dimensions - inches										Weight lbs. per shackle
		B	C	D	E	F	G	H	I	J	K	
0.50	1/4 (7)	5/16	11/16	9/32	1/2	1 -5/32	25/32	2-1/8	1-23/32	1 -1/2	5/32	0.13
0.75	5/16 (9)	3/8	13/16	11/32	17/32	1-9/32	7/8	2-3/8	2	1-11/16	3/16	0.25
1.00	3/8 (10)	7/16	29/32	3/8	11/16	1-7/16	1	2-25/32	2-3/8	1-15/16	5/16	0.34
1.50	7/16 (11)	1/2	1-1/32	7/16	3/4	1-23/32	1-5/32	3-5/32	2-11/16	2-1/8	7/16	0.48
2.00	1/2 (13.5)	5/8	1-11/32	17/32	7/8	2	1-9/32	3-19/32	3-9/32	2-1/2	17/32	0.92
3.25	5/8 (16)	3/4	1-19/32	5/8	1 -3/32	2 -17/32	1-23/32	4-1/2	3-29/32	3-1/8	11/16	1.62
4.75	3/4 (19)	7/8	1-7/8	3/4	1-1/4	3	2	5-11/32	4-17/32	3-23/32	25/32	2.59
6.50	7/8 (22)	1	2-3/32	7/8	1-7/16	3-9/32	2-9/32	6-5/32	5-5/32	4-3/16	29/32	3.90
8.50	1 (25)	1-1/8	2-11/32	1	1-23/32	3-3/4	2-11/16	6-29/32	5-15/16	4-7/8	1	5.69
9.50	1-1/8 (28)	1-1/4	2-5/8	1-1/8	1-7/8	4-1/4	2-15/16	7-3/4	6-19/32	5-3/8	1-1/8	8.06
12.00	1-1/4 (32)	1-3/8	2-29/32	1-9/32	2	4-17/32	3-9/32	8-9/16	7-1/32	6-3/32	1-1/4	10.81
13.50	1-3/8 (35)	1-1/2	3-5/32	1-3/8	2-1/4	5-1/4	3-5/8	9-7/16	7-25/32	6-23/32	1-11/32	14.42
17.00	1-1/2 (38)	1-5/8	3-1/2	1-17/32	2-11/32	5-3/4	3-29/32	10-5/16	8	7-3/16	3/4	18.06
25.00	1-3/4 (45)	2	4-1/8	1-25/32	2-29/32	7	4 -15/16	12-11/32	9-19/32	8-29/32	15/16	31.34
35.00	2 (50)	2-1/4	4-11/32	1-31/32	3-9/32	7-3/4	5-7/16	14-3/32	10-5/8	9-13/16	1-3/32	43.77
42.50	2-1/4 (57)	2-9/16	5-9/32	2-1/4	3-3/4	8-3/4	6-9/32	16-5/16	11-7/8	11-5/16	1-3/16	62.46
55.00	2-1/2 (65)	2-3/4	5-3/4	2-9/16	4-1/8	10-1/4	7-9/32	18-1/4	13	12-15/16	1-5/16	87.27
85.00	3	3-1/4	6-7/16	2-15/16	5	12-15/16	7-1/2	21-29/32	14-25/32	14	1-19/32	136.69

Green Pin®



G4164 Green Pin® Trawling Shackle

Bow shackle with square headed screw pin

Material:	Bow and pin high tensile steel, Grade 6, quenched and tempered
Safety Factor:	MBL equals 6 x WLL
Standard:	Meets performance requirements of US Fed. Spec. RR-C-271, Grade A
Finish:	Hot dipped galvanized
Certificates:	At no extra charge, this product can be supplied with a works certificate, certificate of basic raw material, manufacturer test certificate and/or EC Declaration of Conformity.

Working Load Limit tons	Stock A inches (mm)	Dimensions - inches										Weight lbs. per shackle
		B	C	D	E	F	G	H	I	J	K	
2.00	1/2 (13.5)	5/8	1-11/32	17/32	7/8	2	1-9/32	3-19/32	2-9/32	2-1/2	7/8	0.75
3.25	5/8 (16)	3/4	1-19/32	5/8	1-3/32	2-17/32	1-23/32	4-1/2	2-25/32	3-1/8	1-3/32	1.39
4.75	3/4 (19)	7/8	1-7/8	3/4	1-1/4	3	2	5-3/8	3-1/4	3-23/32	1-9/32	2.21
6.50	7/8 (22)	1	2-3/32	7/8	1-7/16	3-9/32	2-9/32	6-3/16	3-11/16	4-3/16	1-9/32	3.17
8.50	1 (25)	1-1/8	2-11/32	1	1-23/32	3-3/4	2-11/16	6-7/8	4-1/4	4-7/8	1-7/16	4.86
9.50	1-1/8 (28)	1-1/4	2-5/8	1-1/8	1-7/8	4-1/4	2-15/16	7-3/4	4-3/4	5-3/8	1-5/8	7.01
12.00	1-1/4 (32)	1-3/8	2-29/32	1-9/32	2	4-17/32	3-9/32	8-19/32	5-3/8	6-3/32	1-31/32	9.52
13.50	1-3/8 (35)	1-1/2	3-5/32	1-3/8	2-1/4	5-1/4	3-5/8	9-7/16	5-7/8	6-11/16	1-31/32	12.49
17.00	1-1/2 (38)	1-5/8	3-1/2	1-17/32	2-11/32	5-3/4	3-7/8	10-5/16	6-1/2	7-1/4	2-11/32	16.23
25.00	1-3/4 (45)	2	4-1/8	1-25/32	2-29/32	7	5	12-11/32	7-9/16	8-7/8	2-11/32	27.29

Lifting

CAUTIONS & WARNINGS FOR CHAIN SLINGS

CAUTIONS

When preparing the load, protect against:

- Twists and kinks in the sling
- Damage to sling from sharp edges and corners
- Trapping sling between or under loads
- Damage due to load turning in basket hitch
- Shockloading
- Overloading sling and excessive sling leg angles
- Loading sling out of plane/side loading
- Point loading of hooks
- Exposure to temperatures in excess of 600F
- Exposure to chemically active environments, which can affect sling capacities
- General abuse

SAFE OPERATING PRACTICES

- Know the working load limit of the equipment and tackle being used. Never exceed this limit
- Determine the load weight before rigging it
- Determine how the load is to be connected to the lifting hook and how the sling will grip, or be attached to the load
- Do not twist sling to shorten, but follow adjustment methods set out by the sling manufacturer
- Inspect the sling before using it and destroy defective components. Discarded equipment may be used by someone not aware of the hazards and defects
- Never carry out any rigging or hoisting operation when the weather conditions are such that hazards to personnel, property or the public are created
- Stand clear of the lift
- Do not jerk the load

CARE, MAINTENANCE & INSPECTION

When placing the sling into storage, the following should be considered:

- Examine for damage, such as wear, nicks, cracks, gouges or stretch
- Weld splatter
- Excessive wear and rust
- End attachments, including hooks that are cracked, deformed or obviously worn
- Twisted links
- Knots
- Hang in clean dry area and avoid entanglement
- Inspect link by link
- Capacity tag to be legible and in tact
- Keep records of inspections including dates and conditions of sling
- Each day before being used, the sling and all attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during sling use where service conditions warrant. Damage or defective slings shall be immediately removed from servicel

ORDERING SLINGS

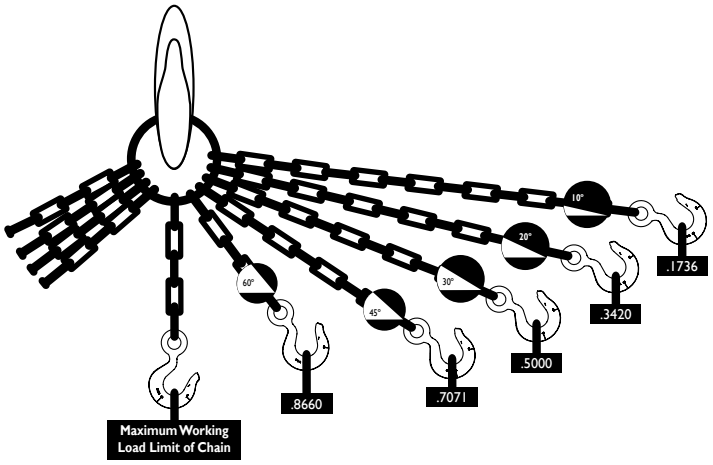
Specify:

- Chain size
- Number of legs
- Sling type
- Bottom attachments
- Sling length (measure bearing point to bearing
- point)

CHAIN SLINGS

Varying Lifting Angles

Percentages shown are of the maximum Working Load Limit of chain.



Chain Sling Classification Code

D O S - 1 6 - 1 5 - G 8

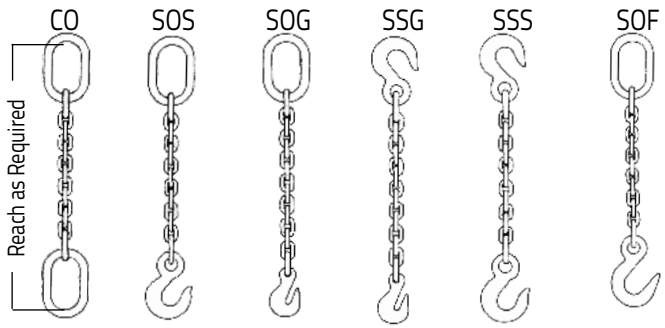
- Sling Type
- Chain Size (measured in 32nds)
- Length (measured in feet)
- Chain Grade

G8 = Grade 80
G10 = Grade 100

How to Order a Chain Sling

1. Determine the maximum load to be lifted.
2. Choose the proper type of chain sling (single, double, etc.) dictated by the size, shape and weight of the load.
3. Estimate the approximate angle between a leg of the sling and the load during operation.
4. Select the proper attachment (hooks and master links) for your sling.
5. Determine the overall reach from bearing point on the master link to bearing point on attachment.
6. Refer to the Working Load Limit Chart and to your pre-determined angle of the type sling you have selected.
7. Choose the chain size which meets your requirements.
8. When placing your order be sure you give complete information as to size, reach and attachments required.

Note: Angle to the load on multiple leg slings will be 60° or greater as long as the distance between lifting eyes of the lifting load is not greater than reach shown on identification tag.



Types of Chain Slings

Slings are designated throughout the industry by these symbols.

First Symbols (Basic Type)

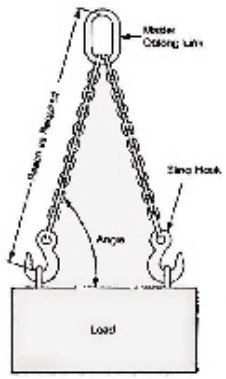
S Single Chain Sling with master link and hook, or hook each end.
C Single Choker Chain with master link each end. No hooks.
D Double Chain Sling with standard master links and hooks.
T Triple Chain Sling with standard master link and hooks.
Q Quadruple Chain Sling with standard master link and hooks.

Second Symbol (Type of master link or end)

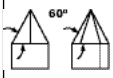
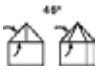
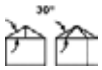
O Standard Oblong Master Link – Recommended for all.
P Pear Shaped Master Link – Available on request.
R Round Link – Not recommended.
S Sling Hook

Third Symbol

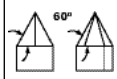
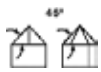
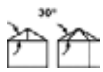
S Sling Hook
G Grab Hook
F Foundry Hook



GRADE 80/100 ALLOY CHAIN SLINGS – SINGLE & DOUBLE

Grade 80 Chain Slings - Alloy Steel									
Working Load Limit (WLL) in pounds									
		Single-Leg	Single-Leg	Double-Legged Bridle Sling			Triple and Quadruple-Legged Bridle Sling		
		Vertical Hitch	 Choker Hitch	 Single Basket Sling			  Double Basket Sling		
Nominal chain size									
Inches	mm	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs
7/32	5.5	2 100	1 700	3 600	3 000	2 100	5 500	4 400	3 200
9/32	7	3 500	2 800	6 100	4 900	3 500	9 100	7 400	5 200
5/16	8	4 500	3 600	7 800	6 400	4 500	11 700	9 500	6 800
3/8	10	7 100	5 700	12 300	10 000	7 100	18 400	15 100	10 600
1/2	13	12 000	9 600	20 800	17 000	12 000	31 200	25 500	18 000
5/8	16	18 100	14 500	31 300	25 600	18 100	47 000	38 400	27 100
3/4	20	28 300	22 600	49 000	40 000	28 300	73 500	60 000	42 400
7/8	22	34 200	27 400	59 200	48 400	34 200	88 900	72 500	51 300
1	26	47 700	38 200	82 600	67 400	47 700	123 900	101 200	71 500
1 1/4	32	72 300	57 800	125 200	102 000	72 300	187 800	153 400	108 400

The horizontal angle is the angle formed between the inclined leg and the horizontal plane of the load.
Design factor 4 : 1. (As per ASME B30.9-2003 Sling)

Grade 100 Chain Slings - Alloy Steel									
Working Load Limit (WLL) in pounds									
		Single-Leg	Single-Leg	Double-Legged Bridle Sling			Triple and Quadruple-Legged Bridle Sling		
		Vertical Hitch	 Choker Hitch	 Single Basket Sling			  Double Basket Sling		
Nominal chain size									
Inches	mm	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs
7/32	5.5	2 700	2 100	4 700	3 800	2 700	7 000	5 700	4 000
9/32	7	4 300	3 500	7 400	6 100	4 300	11 200	9 100	6 400
5/16	8	5 700	4 500	9 900	8 100	5 700	14 800	12 100	8 500
3/8	10	8 800	7 100	15 200	12 400	8 800	22 900	18 700	13 200
1/2	13	15 000	1 200	26 000	21 200	15 000	39 000	31 800	22 500
5/8	16	22 600	18 100	39 100	32 000	22 600	58 700	47 900	33 900
3/4	20	35 300	28 300	61 100	49 900	35 300	91 700	74 900	53 000
7/8	22	42 700	34 200	74 000	60 400	42 700	110 900	90 600	64 000

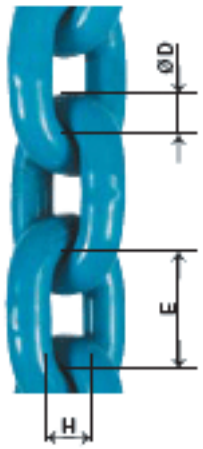
The horizontal angle is the angle formed between the inclined leg and the horizontal plane of the load.
Design factor 4 : 1. (As per ASME B30.9-2003 Sling)

GRADE 100 CHAIN & FITTINGS

Alloy Chain - Grade 100

Model	Chain Size Inches	Working Load Limit*(Lbs)	OD	E	H	Weight (100 ft) Lbs
KLA-8-10	5/16"	5 700	0.32	0.94	0.45	97
KLA-10-10	3/8"	8 800	0.40	1.2	0.57	151
KLA-13-10	1/2"	15 000	0.52	1.5	0.72	253
KLA-16-10	5/8"	22 600	0.65	1.9	0.91	394

*Design Factor 4

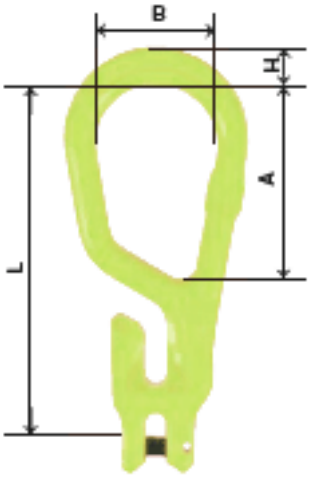


An all in one fitting, combining master link, connector and shortening function for single leg sling.

Master Grab Single Type MG

Model	Chain Size Inches	Working Load Limit*(Lbs)	L(in)	A	B	H	Weight Each(Lbs)
MG-8-10	5/16"	5 700	6.7	3.6	2.4	0.71	2.0
MG-10-10	3/8"	8 800	8.3	4.4	3.0	0.87	4.0
MG-13-10	1/2"	15 000	10.3	5.4	3.5	1.0	7.7
MG-16-1	5/8"	22 600	12.2	6.2	4.1	1.2	13.4

*Design Factor 4

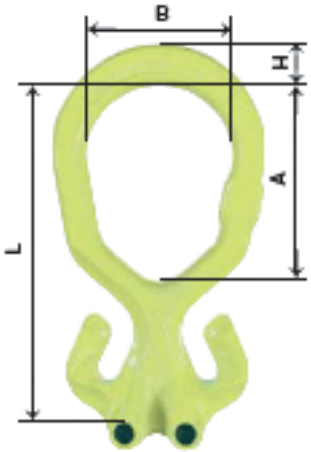


An all in one fitting, combining master link, connector and shortening function for a two leg sling.

Master Grab Dual Type MGD

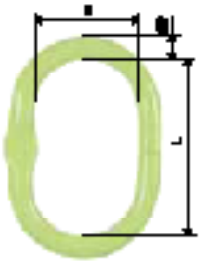
Model	Chain Size Inches	Working Load Limit*(Lbs) at 60	L(in)	A	B	H	Weight Each (Lbs)
MGD-8-10	5/16"	9 900	6.7	3.9	3.0	0.83	2.9
MGD-10-10	3/8"	15 200	8.3	4.9	3.5	0.94	5.1
MGD-13-10	1/2"	26 000	10.3	5.9	4.1	1.2	11.5
MGD-16-10	5/8"	39 100	12.2	6.9	4.7	1.4	17.4

*Design Factor 4



GRADE 100

For 1, 2, 3, or 4 leg chain slings when used with C-Grab and C-Lok connectors

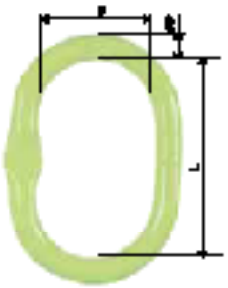


Oblong Master Link - MF

Model	Trade Size Inches	1-Leg 90	Working Load Limit (Lbs)	2-Leg 60	Working Load Limit (Lbs)	3-4 Legs 60	Working Load Limits (lbs)	L	B	D	Weight Each (Lbs)
MF-86-10	1/2"	5/16"	-	-	-	-	4.9	2.8	0.55	0.9	5 700
MF-108-10	5/8"	3/8"	5/16"	9 900	-	-	5.5	3.1	0.67	1.8	8 800
MF-1310-10	7/8"	1/2"	3/8"	15 200	5/16"	14 800	6.3	3.7	0.87	3.3	15000
MF-1613-10	1"	5/8"	1/2"	26 000	3/8"	22 900	7.5	4.3	1.1	4.8	22 600
MF-2016-10	1 3/8"	-	5/8"	39 100	1/2"	39 000	9.4	5.5	1.3	11.5	-
MF-2220-10	1 1/2"	-	-	-	5/8"	58 700	9.8	5.9	1.6	16.1	-

For 1 or 2 leg chain slings when used with C-Grab and C-Lok connectors

Oblong Master Link - MFX Oversized for Large Crane Hooks



Model	Trade Size Inches	1-Leg 90	Working Load Limit (Lbs)	2-Leg 60	Working Load Limit (Lbs)	L	B	D	Weight Each (Lbs)
MFX-108-10	1"	5/16"	5 700	-	-	13.4	7.1	1.0	8.2
MFX-108-10	1"	3/8"	8 800	5/16"	9 900	13.4	7.1	1.0	8.2
MFX-1310-10	1 1/8"	1/2"	15 000	3/8"	15 200	13.4	7.1	1.1	10.4
MFX-1613-10	1 3/8"	5/8"	22 600	1/2"	26 000	13.4	7.1	1.3	15.6
MFX-2016-10	1 1/2"	-	-	5/8"	39 100	13.4	7.1	1.5	18.7

For 1, 2, 3, or 4 leg chain slings when used with C-Grab and C-Lok connectors

MFH Oversized Master Link Designed for use on Large Crane Hooks

Model	Trade Size Inches	1-Leg 90	Working Load Limit (Lbs)	2-Leg 60	Working Load Limits (lbs)	3-4 Legs 60	Working Load Limit (lbs)	L	B	D	Weight (Lbs)
MFH-1310-10	7/8"	5/16"	5 700	-	-	-	-	9.1	4.9	0.9	4.2
MFH-1310-10	7/8"	3/8"	8 800	5/16"	9 900	9.1	4.9	0.9	4.2		
MFH-1310-10	7/8"	1/2"	15 000	3/8"	15 200	5/16"	14 800	9.1	4.9	0.9	4.2
MFH-1613-10	1"	5/8"	22 600	1/2"	26 000	3/8"	22 900	9.8	5.3	1.1	7.1
MFH-2016-10	1 1/4"	-	-	5/8"	39 000	1/2"	39 000	11.0	5.3	1.3	10.1
MFH-2220-10	1 1/2"	-	-	-	-	5/8"	58 700	12.6	6.9	1.6	19.0
MFHW-2220-10	1 1/2"	-	-	-	-	5/8"	58 700	14.0	8.9	1.6	21.8

GRADE 100

A connecting link used with MF, MFX, or MFH master links to attach one leg of chain.
Can also be used as an adjustable sliding choker.
Fitting includes built-in chain pocket for shortening or creating leg loops

C-Grab Type CG

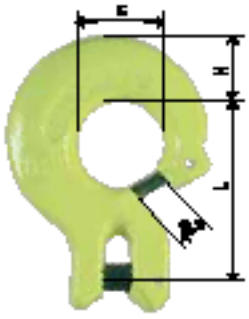
Model	Chain Size Inches	Working Load Limit (Lbs) at 90	L	B	E	H	Weight Each (Lbs)
CG-8-10	5/16"	5 700	4.2	0.47	1.3	0.9	1.5
CG-10-10	3/8"	8 800	5.3	0.59	1.6	1.1	3.3
CG-13-10	1/2"	15 000	6.8	0.75	2.0	1.5	7.1
CG-16-10	5/8"	22 600	8.5	0.87	2.5	1.9	13.4

A connecting link used with MF, MFX, or MFH master links to attach two legs of chain.
Fitting includes built-in chain pockets for shortening or creating leg loops.

C-Grab Dual Type CGD

Model	Chain Size Inches	Working Load Limit (Lbs) at 90	L	B	E	H	Weight Each (Lbs)
CGD-8-10	5/16"	9 900	4.2	0.47	1.3	1.1	2.4
CGD-10-10	3/8"	15 200	5.3	0.59	1.6	1.5	4.8
CGD-13-10	1/2"	26 000	6.8	0.75	1.9	1.9	11.9
CGD-16-10	5/8"	39 100	8.5	0.87	2.5	2.2	20.1

A connecting link used with MF, MFX, or MFH master links to attach one leg of chain.
The C-Lok can also be used at the bottom of a sling as a sliding choker.



C-Lok Type CL

Model	Chain Size Inches	Working Load Limit (Lbs) at 90	L	B	E	H	Weight Each (Lbs)
CL-8-10	5/16"	5 700	2.3	0.47	1.3	0.9	1.1
CL-10-10	3/8"	8 800	2.9	0.59	1.6	1.1	2.2
CL-13-10	1/2"	15 000	3.7	0.71	2.0	1.5	4.4
CL-16-10	5/8"	22 600	4.7	0.87	2.5	1.9	8.4

GRADE 100

A connecting link used with MF, MFX, or MFH master links to attach two

C-Lok Dual Type CLD

Model	Chain Size Inches	Working Load Limit (Lbs) at 60	L	B	E	H	Weight Each (Lbs)
CLD-8-10	5/16"	9 900	0.47	1.3	1.1	1.3	2.3
CLD-10-10	3/8"	15 200	0.59	1.6	1.5	2.6	2.9
CLD-13-10	1/2"	26 000	0.71	2.0	1.8	6.8	3.7
CLD-16-10	5/8"	39 100	1.0	2.5	2.2	12.1	4.7

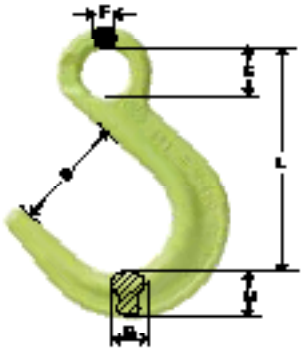
EGKN Sling Hook

Model	Chain Size Inches	Working Load Limit (Lbs) at 90	L	B	G	H	Weight Each (Lbs)
EGKN-8-10	5/16"	5 700	3.7	1.1	0.67	0.87	1.1
EGKN-10-10	3/8"	8 800	4.8	1.4	0.91	1.2	2.2
EGKN-13-10	1/2"	15 000	5.7	1.7	1.1	1.5	5.1
EGKN-16-10	5/8"	22 600	6.7	2.0	1.4	1.8	8.4

GRADE 100

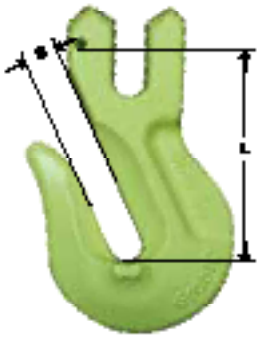
OKE Foundry Hook (Eye Type)

Model	Chain Size Inches	Working Load Limit (Lbs)	L	B	E	F	G	H	Weight Each (Lbs)
OKE-7/8-10	5/16"	5 700	4.8	2.5	1.1	0.45	0.79	1.0	1.5
OKE-10-10	3/8"	8 800	5.9	3.0	1.3	0.59	1.0	1.1	2.9
OKE-13-10	1/2"	15 000	7.2	3.5	1.7	0.75	1.3	1.5	6.2
OKE-16-10	5/8"	22 600	8.5	4.0	2.2	0.91	1.6	1.8	10.8



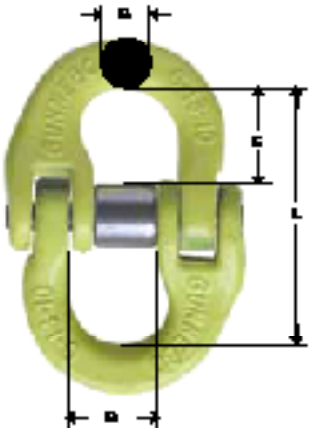
GG Grab Hook (Clevis Cradle Type)

Model	Chain Size Inches	Working Load Limit (Lbs)	L	B	Weight Each (Lbs)
GG-8-10	5/16"	5 700	0.41	0.88	2.2
GG-10-10	3/8"	8 800	0.47	2.0	3.3
GG-13-10	1/2"	15 000	0.63	4.0	3.8
GG-16-10	5/8"	22 600	0.79	6.8	4.9



G Alloy Coupling Links

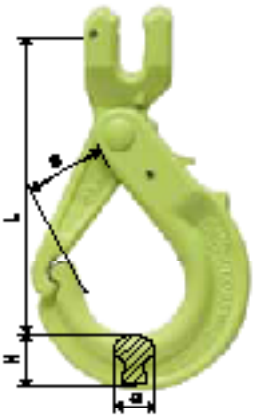
Model	Chain Size Inches	Working Load Limit (Lbs)	L	B	G	E	Weight Each (Lbs)
G-8-10	5/16"	5 700	2.2	0.71	0.35	0.87	0.44
G-10-10	3/8"	8 800	2.7	1.0	0.47	1.0	0.66
G-13-10	1/2"	15 000	3.5	1.1	0.59	1.3	1.5
G-16-10	5/8"	22 600	4.1	1.4	0.75	1.6	2.6

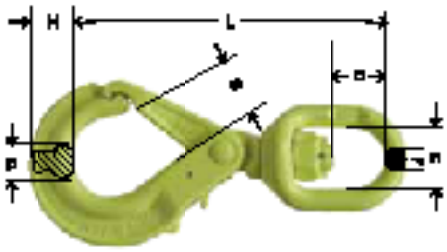


GRADE 100

GBK Self Locking Clevis Hook

Model	Chain Size Inches	Working Load Limit (Lbs) at 90	L	B	G	H	Weight Each (Lbs)
GBK-8-10	5/16"	5 700	1.5	0.79	0.87	1.8	4.7
GBK-10-10	3/8"	8 800	1.9	0.83	1.2	3.1	5.9
GBK-13-10	1/2"	15 000	2.1	1.2	1.5	6.0	6.8
GBK-16-10	5/8"	22 600	2.4	1.5	1.9	9.7	8.1





BKL Swivel Eye Grip Latch Self-Locking Hook (with Bronze Bushing)

Model	Chain Size Inches	Working Load Limit (Lbs)	L	B	C	E	F	G	H	Weight Each (Lbs)
LBK-7/8-10	5/16"	5 700	1.5	1.1	1.5	1.8	6.9	0.47	0.79	0.87
LBK-10-10	3/8"	8 800	1.9	1.4	1.7	4.0	8.4	0.59	0.87	1.1
LBK-13-10	1/2"	15 000	2.1	1.9	1.9	8.4	9.3	0.75	1.1	1.4
LBK-16-10	5/8"	22 600	2.7	2.6	2.4	13.2	12.8	0.91	1.1	1.7

*Will not swivel under load.

BKLK Swivel Eye Grip Latch Self-Locking Hook (with Ball Bearings)

Model	Chain Size Inches	Working Load Limit (Lbs)	L	B	C	E	F	G	H	Weight Each (Lbs)
LKBK-7/8-10	5/16"	5 700	1.5	1.1	1.5	1.8	6.9	0.47	0.79	0.87
LKBK-10-10	3/8"	8 800	1.9	1.4	1.7	4.0	8.4	0.59	0.87	1.1
LKBK-13-10	1/2"	15 000	2.1	1.9	1.9	8.4	9.3	0.75	1.1	1.4
LKBK-16-10	5/8"	22 600	2.7	2.4	2.4	13.2	12.6	0.91	1.1	1.7

*Will swivel under load

SPARE PARTS

Spare Parts For GBK LBK & LKBK "GRIP LATCH" Style Hooks

Model	Trade Size MM	Trade Size Inch	Weight Each (Lbs)
RD OBK/GBK-7/8	8	5/16	0.1
RD OBK/GBK-10	10	3/8	0.1
RD OBK/GBK-13	13	1/2	0.2
RD OBK/GBK-16	16	5/8	0.3

EGKNS Latch Set

Replacement Latch Kit for GrabiQ EGKN Hook. Set includes Latch Latch Spring and Rivet

Model	Connector Size	Weight Each (Lbs)
RDEKN-8-10	5/16"	0.1
RDEKN-10-10	3/8"	0.1
RDEKN-13-10	1/2"	0.2
RDEKN-16-10	5/8"	0.4

BKGS Trigger Set

Replacement trigger set for GrabiQ BKG hook includes release trigger and stainless steel spring spring dowel pin.

Model	Connector Size	Weight Each (Lbs)
RDBK-8-10	5/16"	0.1
RDBK-10-10	3/8"	0.1
RDBK-13-10	1/2"	0.2
RDBK-16-10	5/8"	0.4

CoupLing Pin & Lock Washer S et

Model	Trade Size mm	Trade Size Inch	Working Load Limit	Weight Each (Lbs)
SKA- 7/8-10	8	5/16"	5700	0.4
SKA-10-10	10	3/8"	8800	0.2
SKA-13-10	13	3/8"	15000	0.2
SKA-16-10	16	1/2"	22600	0.3

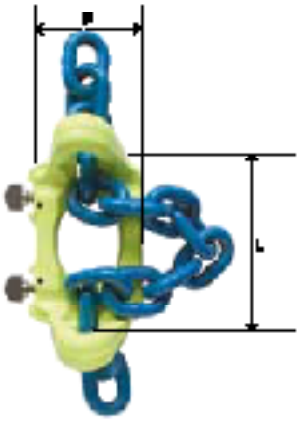
*Design factor 4:1

MIG Midgrab Shortener (Removable)
With Close / Open Device On Either End

Model	Chain Size Inches	Working Load Limit (Lbs)	L	A	B	Weight Each (Lbs)
MIG CC-8-10	5/16"	5 700	2.0	2.4	1.5	5.7
MIG CC-10-10	3/8"	8 800	2.8	3.0	2.4	3.7
MIG CC-13-10	1/2"	15 000	3.5	3.1	4.9	5.9

MIG Midgrab Shortener (Non-Removable)
With Close / Open Device On One End & Locking Device On Opposite End

Model	Chain Size Inches	Working Load Limit (Lbs)	L	A	B	Weight Each (Lbs)
MIG CL-8-10	5/16"	5 700	2.0	2.4	5.7	3.7
MIG CL-10-10	3/8"	8 800	2.8	3.0	1.5	4.9
MIG CL-13-10	1/2"	15 000	3.5	3.1	2.4	5.9



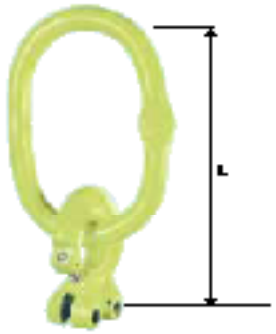
GRADE 100

Top Lok Type TL1
Assembly required for 1-Leg non-adjustable sling

Components Required	Chain Size INches	Working Load Limit (Lbs) at 90	L	Weight Each (Lbs)
MF- 86-10 + CL -8-10	5/16"	5 700	7.1	2.0
MF- 108-10 + CL-10-10	3/8"	8 800	8.4	3.5
MF-1310-10 + CL-13-10	1/2"	15 000	10.1	7.7
MF-1613-10 + CL-16-10	5/8"	22 600	12.2	13.2

Top Lok Type TL2
Assembly required for 2-Leg non-adjustable sling

Components Required	Chain Size INches	Working Load Limit (Lbs) at 90	L	Weight Each (Lbs)
MF- 108-10 + CLD- 8-10	5/16"	9 900	7.8	3.3
MF-1310-10 + CLD-10-10	3/8"	15 200	9.1	6.6
MF-1613-10 + CLD-13-10	1/2"	26 000	11.2	11.9
MF-2016-10 + CLD-16-10	5/8"	39 100	14.0	24.5



Top Lok Type TL3
Assembly required for 3-Leg non-adjustable sling

Components Required	Chain Size INches	Working Load Limit (Lbs) at 90	L	Weight Each (Lbs)
MF-1310-10 + CLD- 8-10 + CL- 8-10	5/16"	14 800	8.5	6.2
MF-1613-10 + CLD-10-10 + CL-10-10	3/8"	22 900	10.3	10.1
MF-2016-10 + CLD-13-10 + CL-13-10	1/2"	39 000	13.2	22.7
MF-2220-10 + CLD-16-10 + CL-16-10	5/8"	58 700	14.4	37.5

Top Lok Type TL4
Assembly required for 4-Leg non-adjustable sling

Components Required	Chain Size INches	Working Load Limit (Lbs) at 90	L	Weight Each (Lbs)
MF-1310-10 + 2 CLD- 8-10	5/16"	14 800	8.5	6.8
MF-1613-10 + 2 CLD-10-10	3/8"	22 900	10.3	11.5
MF-2016-10 + 2 CLD-13-10	1/2"	39 000	13.2	25.3
MF-2220-10 + 2 CLD-16-10	5/8"	58 700	14.4	42.3

Wire Rope Industries Atlantic is proud to announce that we are now a stocking supplier of Grade 80 and Grade 100 YOKE® brand rigging hardware!

YOKE®

Trade Size (in)	Working Load Limit	
	lbs	tonnes
3/8	3,000	1.25
1/2	4,920	2.5
5/8	6,600	4.0
3/4	10,320	5.4
7/8	14,040	7.5
1	24,360	10.0
1 1/8	27,000	10.0
1 1/4	35,160	12.0
1 3/8	42,000	17.0
1 1/2	47,880	25.0
1 5/8	60,600	28.0
1 3/4	62,520	37.0

Design factor 4:1 proof tested and certified

YOKE®

G-100 Connecting Link

For Grade 100 Chain (in)	Working Load Limit	
	lbs	tonnes
7/32	2,700	1.4
1/4 - 5/16	5,700	2.5
3/8	8,800	4.0
1/2	15,000	6.7
5/8	22,600	10.0
3/4	35,300	16.0
7/8	42,700	19.0
1	59,700	26.5
1 1/4	90,400	40.0

Design factor 4:1 proof tested and certified

YOKE® G-100 Eye Self Locking Hook

For Grade 100 Chain (in)	Working Load Limit	
	lbs	tonnes
7/32	2,700	1.4
1/4 - 5/16	5,700	2.5
3/8	8,800	4.0
1/2	15,000	6.7
5/8	22,600	10.0
3/4	35,300	16.0
7/8	42,700	19.0

Design factor 4:1 proof tested and certified

YOKE® G-100 Clevis Self Locking Hook

For Grade 100 Chain (in)	Working Load Limit	
	lbs	tonnes
7/32	2,700	1.4
1/4 - 5/16	5,700	2.5
3/8	8,800	4.0
1/2	15,000	6.7
5/8	22,600	10.0
3/4	35,300	16.0
7/8	42,700	19.0

Design factor 4:1 proof tested and certified

YOKE® G-100 Swivel Self Locking Hook, with brass bushing

For Grade 100 Chain (in)	Working Load Limit	
	lbs	tonnes
7/32	2,700	1.4
1/4 - 5/16	5,700	2.5
3/8	8,800	4.0
1/2	15,000	6.7
5/8	22,600	10.0
3/4	35,300	16.0
7/8	42,700	19.0
1	59,700	26.5

Design factor 4:1 proof tested and certified

YOKE® G-100 Swivel Self Locking Hook, with ball bearing

For Grade 100 Chain (in)	Working Load Limit	
	lbs	tonnes
7/32	2,700	1.4
1/4 - 5/16	5,700	2.5
3/8	8,800	4.0
1/2	15,000	6.7
5/8	22,600	10.0
3/4	35,300	16.0
7/8	42,700	19.0
1	59,700	26.5

Design factor 4:1 proof tested and certified

YOKE® G-100 Clevis Sling Hook, with latch

For Grade 100 Chain (in)	Working Load Limit	
	lbs	tonnes
7/32	2,700	1.4
1/4 - 5/16	5,700	2.5
3/8	8,800	4.0
1/2	15,000	6.7
5/8	22,600	10.0
3/4	35,300	16.0

Design factor 4:1 proof tested and certified

YOKE® G-100 Clevis Grab Hook

For Grade 100 Chain (in)	Working Load Limit	
	lbs	tonnes
7/32	2,700	1.4
1/4 - 5/16	5,700	2.5
3/8	8,800	4.0
1/2	15,000	6.7
5/8	22,600	10.0
3/4	35,300	16.0

Design factor 4:1 proof tested and certified

Weld-on Lifting Point Code DAA

Working Load Limit	
lbs	tonnes
2,200	1.0
6,600	3.0
11,000	5.0
17,000	8.0
22,000	10.0
33,000	15.0

Design factor 5:1

Excavator Weld-on Hook Code YX

Working Load Limit	
lbs	tonnes
2,200	1.0
4,400	2.0
6,600	3.0
8,800	4.0
11,000	5.0
17,600	8.0
22,000	10.0

Design factor 5:1
YOKE® recommends that the Working Load Limit is reduced to meet any appropriate legislative requirements if welding to an excavator Please contact **Hercules SLR** for further information.

Forged Anchor Shackle with Bolt Pin Carbon Steel

Nominal Size (in)	Working Load Limit
	tonnes
1/2	2.00
5/8	3.25
3/4	4.75
7/8	6.50
1	8.50

Minimum Ultimate Load is 6 times the Working Load Limit
Maximum Proof Load is 2 times the Working Load Limit

Forged Anchor Shackle with Screw Pin Carbon Steel

Nominal Size (in)	Working Load Limit
	tonnes
1/2	2.00
5/8	3.25
3/4	4.75
7/8	6.50
1	8.50

Minimum Ultimate Load is 6 times the Working Load Limit
Maximum Proof Load is 2 times the Working Load Limit

YOKE® X-950 / G-100 Eye Grip Safe Locking Hook

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)								N.W.
	tonnes*	mm	K	W	P	O	A	T	D	H	Kg
X-950-10	4.0	10	175	139	71	49	32	27	13	31	1.9
X-950-13	6.7	13	227	174	80	57	40	34	16	39	3.0
X-950-16	10.0	16	277	212	114	78	50	39	21	47	6.3
X-950-20	16.0	20	329	250	127	91	60	54	23	56	11.7
X-950-22	20.0	22	350	260	151	105	70	56	24	59	14.5

YOKE® X-951 / G-100 Clevis Grip Safe Locking Hook

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)							N.W.
	tonnes*	mm	K	W	P	O	A	T	H	Kg
X-951-10	4.0	10	153	139	71	49	11	27	31	1.9
X-951-13	6.7	13	206	174	80	57	14	34	39	4.1
X-951-16	10.0	16	243	212	114	78	18	39	47	6.4
X-951-20	16.0	20	310	250	127	91	21	54	56	12.7
X-951-22	20.0	22	300	260	151	105	24	56	59	14.1

YOKE® X-952N / G-100 Swivel Grip Safe Locking Hook

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)									N.W.
	tonnes*	mm	K	W	P	O	A	B	T	D	H	Kg
X-952N-10	4.0	10	225	139	71	49	41	34	27	16	31	2.4
X-952N-13	6.7	13	285	174	80	57	46	44	34	21	39	5.2
X-952N-16	10.0	16	345	212	114	78	61	50	39	23	47	8.4
X-952N-20	16.0	20	433	250	127	91	74	82	54	25	56	14.5
X-952N-22	20.0	22	475	260	151	105	97	95	56	33	59	19.9

CAUTIONS & WARNINGS FOR POLYESTER ROUND SLINGS

CAUTIONS

- When preparing the load, protect against:
- Twists and kinks in the sling
- Damage to sling from sharp edges and corners
- Trapping sling between or under loads
- Damage due to load turning in basket hitch
- Overloading sling and excessive sling leg angles
- Loading sling out of plane/side loading
- Wear by use of wear pads or other protection
- Point loading of hooks
- Exposure to fumes, vapours, sprays or mists of alkalies, ethers or concentrated sulphuric acid
- Exposure to excessive temperatures
- General abuse

SAFE OPERATING PRACTICES

- Know the working load limit of the equipment and tackle being used. Never exceed this limit
- Determine the load weight before rigging it
- Determine how the load is to be connected to the lifting hook and how the sling will grip, or be attached to the load.
- Inspect the sling before using it and destroy defective components. Discarded equipment may be used by someone not aware of the hazards and defects
- Polyester Round Slings shall always be protected from being cut by sharp corners, sharp edges, protrusions, or abrasive surfaces
- Polyester Round Slings shall not be twisted, shortened, lengthened or tied into knots, or joined by knotting
- Never carry out any rigging or hoisting operation when the weather conditions are such that hazards to personnel, property or the public are created
- Stand clear of the lift
- Do not jerk the load
- For more information on safe operating practices, please refer to ASME B30.9b 1998 latest Rev.

CARE, MAINTENANCE & INSPECTION

When placing the sling into storage, the following should be considered:

- Holes, tears, cuts, snags, embedded particles or abrasive wear that expose the core fibres
- Broken or worn stitching in the cover that expose the core fibres
- Knots in any part of the Polyester Round Sling
- Capacity tag to be legible and in tact
- Distortion, excessive pitting, corrosion or broken fitting
- Acid or alkali burns
- Signs of melting (particularly the internal load bearing fibres), charring or weld splatter of any part of the sling
- Hang in clean dry area and avoid entanglement
- Store away from exposure to sunlight
- All accessories used with the sling must be free of sharp edges
- An accurate written and dated record of all conditions should be kept
- Dispose immediately of slings that are rejected
- Each day before being used, the sling and all attachments shall be inspected for damage or defects by a competent person. Additional inspections shall be performed at regular intervals based on;
- (1) frequency of sling use
- (2) severity of service conditions
- (3) nature of lifts
- (4) prior experience based on service life of slings used
- in similar circumstances.
- Damaged or defective slings shall be immediately removed from service. ANSI Std B30.9 & OSHA

ORDERING SLINGS

Specify:

- Capacity of sling
- Sling length – Feet (bearing point to bearing point)
- Type of sling required
- Attachments required

POLYESTER SLINGS

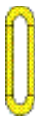
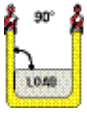
SLINGMASTER POLYESTER ROUND SLINGS

FEATURES & BENEFITS

- Slings feature a durable blue double jacket construction, meaning the outside of the sling takes the abuse while protecting the inner load-bearing strands.
- Slings include new and improved tags:
- Slings tags are colour coded by capacity, which helps workers quickly identify the right sling for the job.
- Slings have individualized serial numbers which increase the traceability of the product.
- By law, the tag is the only mandatory part of a round sling. Our new tags are extra durable and designed to last the life of the sling.
- All round slings conform to ASME B30.9 standards.

SLINGMASTER Polyester Round Slings

Working Load Limit (WLL) in pounds, 5:1 design factor

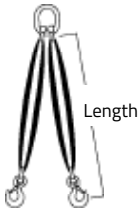
Tag Color	Vertical 	Choker 	90° Basket 	60° Basket 	45° Basket 	Approx. Diameter (inches)	Approx. Weight/ FT (pounds)	Vertical/ Choker Min. Connection Hardware Thickness (inches)	Basket Min. Connection Hardware Thickness (inches)	Min. Length
Purple	3 000	2 400	6 000	5 200	4 200	0.75	0.25	0.50	0.62	18”
Black	4 000	3 200	8 000	6 900	5 600	0.80	0.35	0.50	0.62	18”
Green	6 000	4 800	12 000	10 300	8 400	0.90	0.40	0.62	0.88	18”
Yellow	9 000	7 200	18 000	15 500	12 600	1.00	0.50	0.75	1.00	2’
Tan	12 000	9 600	24 000	20 600	16 800	1.25	0.75	0.88	1.25	3’
Red	14 000	11 200	28 000	24 100	19 600	1.30	0.85	1.00	1.38	3’
Orange	17 000	13 600	34 000	29 300	23 800	1.60	0.95	1.12	1.62	3’
Blue	23 000	18 400	46 000	39 500	32 200	1.65	1.25	1.25	1.75	3’
Orange	26 000	20 800	52 000	44 700	36 400	1.75	1.45	1.38	1.88	3’
Grey	32 000	25 600	64 000	55 000	44 800	2.15	1.75	1.50	2.00	3’
Orange	40 000	32 000	80 000	68 800	56 000	2.45	2.25	1.62	2.38	4’
Brown	54 000	43 200	108 000	92 900	75 600	3.00	2.75	1.88	2.75	6’
Olive Green	68 000	54 400	136 000	117 000	95 200	3.25	3.60	2.12	3.00	8’
Black	90 000	72 000	180 000	155 000	126 000	3.75	4.10	2.50	3.50	8’

Note: For choker applications the Working load limit must be reduced by 20%. The use of a cradle grab hook with a choker angle of less than 120 degree does not require any reduction in Working Load.

POLYESTER SLINGS

SLINGMASTER POLYESTER ROUND SLINGS – BRIDLES

- Matched legs improve load balance and control
- Quality components increase sling life
- Strong, lightweight and easy to handle
- A durable polyester double cover protects loads and improves inspectability
- Color coded tags and leather sling tags makes it easy to identify capacities

Working Load Limit							
							
							
Size #	Color	lbs	(kN)	lbs	(kN)	lbs	(kN)
1	Purple	4,500	(20.0)	3,700	(16.5)	2,600	(11.6)
2	Green	9,200	(40.9)	7,500	(33.4)	5,300	(23.6)
3	Yellow	14,500	(64.5)	11,900	(52.9)	8,400	(37.4)
4	Tan	18,400	(81.8)	15,000	(66.7)	10,600	(47.2)
5	Red	22,900	(101.9)	18,700	(83.2)	13,200	(58.7)
6	White	29,100	(129.4)	23,800	(105.9)	16,800	(74.7)
7	Blue	36,700	(163.2)	30,000	(133.4)	21,200	(94.3)
8	Orange	43,300	(192.6)	35,400	(157.5)	25,000	(111.2)
9	Grey	53,700	(238.9)	43,800	(194.8)	31,000	(137.9)
10	Orange	69,300	(308.3)	56,600	(251.8)	40,000	(177.9)
11	Orange	91,800	(408.3)	74,900	(333.2)	53,000	(235.8)
12	Orange	114,300	(508.4)	93,000	(413.7)	66,000	(293.6)
13	Orange	155,900	(693.5)	127,300	(566.3)	90,000	(400.3)

Note:
- The rated capacities shown are calculated based on a working load factor of 5:1
- Maximum length is currently 50 ft pull to pull

Reference:
- Web Sling & Tie Down Assoc. 1994

Caution	Do not exceed rated capacities. Color codes and rated capacities may vary among manufacturers. Always check the identification tag to determine if the polyester round sling capacity is applicable for the lift.

Standard Optic

320N Shackle Assembly

Master Link Shackle Assembly

S252 Shackle

S253 Shackle

CAUTIONS & WARNINGS FOR NYLON SLINGS

CAUTIONS

- When preparing the load, protect against:
- Twists and kinks in the sling
- Damage to sling from sharp edges and corners
- Trapping sling between or under loads
- Damage due to load turning in basket hitch
- Overloading sling and excessive sling leg angles
- Loading sling out of plane/side loading
- Wear by use of wear pads or other protection
- Point loading of hooks
- Exposure to fumes, vapours, sprays or mists of alkalies, ethers or concentrated sulphuric acid
- Exposure to temperatures in excess of 200°F
- General abuse

SAFE OPERATING PRACTICES

- Know the working load limit of the equipment and tackle being used. Never exceed this limit
- Determine the load weight before rigging it
- Determine how the load is to be connected to the lifting hook and how the sling will grip, or be attached to the load.
- Sling shall not be dragged on the floor, or over an abrasive area
- Sling shall not be tied into knots, or joined by knotting
- Sling shall always be protected from being cut by sharp corners, sharp edges, protrusions or abrasive surfaces.
- Inspect the sling before using it and destroy defective components. Discarded equipment may be used by someone not aware of the hazards and defects
- Never carry out any rigging or hoisting operation when the weather conditions are such that hazards to personnel, property or the public are created
- Stand clear of the lift
- Do not jerk the load

CARE, MAINTENANCE & INSPECTION

- When placing the sling into storage, the following should be considered:
- Examine for damage, such as cuts, holes, tears, snags or abrasions.
- Broken or worn stitching in load bearing stitch pattern
- Excessive wear in lifting eyes or in the body of a sling
- Signs of melting, charring, weld splatter or chemical damage
- Remove dirt and other foreign materials
- Knots
- Distortion, excessive pitting, corrosion or damage of any fitting or component
- Hang in clean dry area and avoid entanglement
- Store away from exposure to sunlight
- All accessories used with the sling must be free of sharp edges
- Capacity tag to be legible and intact
- Keep records of inspections including dates and conditions of slings
- Each day before being used, the sling and all attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during sling use where service conditions warrant.
- Damaged or defective slings shall be immediately removed from service.

ORDERING SLINGS

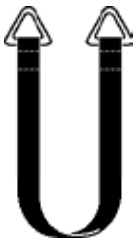
Specify:

- Sling type
- Number of plys
- Type of webbing (ie. treated)
- Sling width
- Sling length (measure pull to pull of reach (length) in feet

NYLON WEB SLINGS

SLINGMASTER NYLON WEB SLINGS – TYPE 1 & 2

- Lightweight, pliable and easy to handle
- Treated webbing is non-marring and abrasion resistant
- Sling saver steel triangles increase sling life
- A flat profile better stabilizes the load
- Easy-to-read leather sling tags provide necessary load ratings

	Web Width inches (mm)	Code Number	Working Load Limit					
			Vertical		Choker		Basket	
			lbs	(kN)	lbs	(kN)	lbs	(kN)
 TYPE 1 SLING Triangle & Choker Fittings	**Single Ply**							
	2 (50.8)	TC1-902	3,100	(13.8)	2,325	(10.3)	6,200	(27.6)
	3 (76.2)	TC1-903	4,700	(20.9)	3,525	(15.7)	9,400	(41.8)
	4 (101.6)	TC1-904	6,200	(27.6)	4,650	(20.7)	12,400	(55.2)
	5 (127)	TC1-905	7,800	(34.7)	5,850	(26.0)	15,600	(69.4)
	6 (152.4)	TC1-906	9,300	(41.4)	6,975	(31.0)	18,600	(82.7)
	8 (203.2)	TC1-908	11,750	(52.3)	8,813	(39.2)	23,500	(104.5)
	10 (254.0)	TC1-910	14,700	(65.4)	11,025	(49.0)	29,400	(130.8)
	12 (304.8)	TC1-912	17,650	(78.5)	13,238	(58.9)	35,300	(157.0)
	Double Ply							
	2 (50.8)	TC2-902	6,200	(27.6)	4,650	(20.7)	12,400	(55.2)
	3 (76.2)	TC2-903	8,800	(39.1)	6,600	(29.4)	17,600	(78.3)
	4 (101.6)	TC2-904	11,000	(48.9)	8,250	(36.7)	22,000	(97.9)
	5 (127)	TC2-905	13,700	(60.9)	10,275	(45.7)	27,400	(121.9)
	6 (152.4)	TC2-906	16,500	(73.4)	12,375	(55.0)	33,000	(146.8)
 TYPE 2 SLING Two Triangle Fittings	**Single Ply**							
	2 (50.8)	TT1-902	3,100	(13.8)	–	–	6,200	(27.6)
	3 (76.2)	TT1-903	4,700	(20.9)	–	–	9,400	(41.8)
	4 (101.6)	TT1-904	6,200	(27.6)	–	–	12,400	(55.2)
	5 (127)	TT1-905	7,800	(34.7)	–	–	15,600	(69.4)
	6 (152.4)	TT1-906	9,300	(41.4)	–	–	18,600	(82.7)
	8 (203.2)	TT1-908	11,750	(52.3)	–	–	23,500	(104.5)
	10 (254.0)	TT1-910	14,700	(65.4)	–	–	29,400	(130.8)
	12 (304.8)	TT1-912	17,650	(78.5)	–	–	35,300	(157.0)
	Double Ply							
	2 (50.8)	TT2-902	6,200	(27.6)	–	–	12,400	(55.2)
	3 (76.2)	TT2-903	8,800	(39.1)	–	–	17,600	(78.3)
	4 (101.6)	TT2-904	11,000	(48.9)	–	–	22,000	(97.9)
	5 (127)	TT2-905	13,700	(60.9)	–	–	27,400	(121.9)
	6 (152.4)	TT2-906	16,500	(73.4)	–	–	33,000	(146.8)

Note:
- The rated capacities shown are calculated on a working load factor of 5:1 and based on a stuffer weave construction webbing possessing a minimum certified tensile strength of 9800 lb/in.

Reference:
- Web Sling & Tie Down Assoc.1994

Caution	Do not exceed rated capacities.

NYLON WEB SLINGS

SLINGMASTER NYLON WEB SLINGS – TYPE 3, 4 & 5

Lightweight, pliable and easy to handle
Optional eye or endless configurations meet varied lifting requirements
Treated webbing is non-marring and abrasion resistant
Non-sparking feature allows for use in explosive atmospheres

Working Load Limit								
	Web Width inches (mm)	Code Number	Vertical		Choker		Basket	
			lbs	(kN)	lbs	(kN)	lbs	(kN)
 TYPE 3 & 4 SLING Flat or Twisted Eyes	Single Ply							
	1 (25.4)	EE1-901	1,600	(7.1)	1,280	(5.3)	3,200	(14.2)
	2 (50.8)	EE1-902	3,100	(13.8)	2,485	(10.3)	6,200	(27.6)
	3 (76.2)	EE1-903	4,700	(20.9)	3,760	(15.7)	9,400	(41.8)
	4 (101.6)	EE1-904	6,200	(27.6)	4,960	(20.7)	12,400	(55.2)
	5 (127)	EE1-905	7,800	(34.7)	6,240	(26.0)	15,600	(69.4)
	6 (152.4)	EE1-906	9,300	(41.4)	7,440	(31.0)	18,600	(82.7)
	Double Ply							
	1 (25.4)	EE2-901	3,100	(13.8)	2480	(10.3)	6,200	(27.6)
	2 (50.8)	EE2-902	6,200	(27.6)	4,960	(20.7)	12,400	(55.2)
	3 (76.2)	EE2-903	8,800	(39.1)	7,040	(29.4)	17,600	(78.3)
	4 (101.6)	EE2-904	11,000	(48.9)	8,800	(36.7)	22,000	(97.9)
	5 (127)	EE2-905	13,700	(60.9)	10,960	(45.7)	27,400	(121.9)
	6 (152.4)	EE2-906	16,500	(73.4)	13,200	(55.0)	33,000	(146.8)
 TYPE 5 SLING Endless Grommet	Single Ply							
	1 (25.4)	EN1-901	3,200	(14.2)	2,400	(10.7)	6,400	(28.5)
	2 (50.8)	EN1-902	6,200	(27.6)	4,650	(20.7)	12,400	(55.2)
	3 (76.2)	EN1-903	9,400	(41.8)	7,050	(31.4)	18,800	(83.6)
	4 (101.6)	EN1-904	12,400	(55.2)	9,300	(41.4)	24,800	(110.3)
	5 (127)	EN1-905	15,600	(69.4)	11,700	(52.0)	31,200	(138.8)
	6 (152.4)	EN1-906	18,600	(82.7)	13,950	(62.1)	37,200	(165.5)
	Double Ply							
	1 (25.4)	EN2-901	6,200	(27.6)	4,650	(20.7)	12,400	(55.2)
	2 (50.8)	EN2-902	12,400	(55.2)	9,300	(41.4)	24,800	(110.3)
	3 (76.2)	EN2-903	17,600	(78.3)	13,200	(58.7)	35,200	(156.6)
	4 (101.6)	EN2-904	22,000	(97.9)	16,500	(73.4)	44,000	(195.7)
	5 (127)	EN2-905	27,400	(121.9)	20,550	(91.4)	54,800	(243.8)
	6 (152.4)	EN2-906	33,000	(146.8)	24,750	(110.1)	66,000	(293.6)

Note:
- The rated capacities shown are calculated on a working load factor of 5:1 and based on a stuffer weave construction webbing possessing a minimum certified tensile strength of 9800 lb/in.

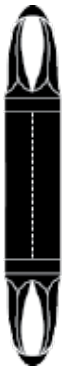
Reference:
- Web Sling & Tie Down Assoc.1994

Caution	Do not exceed rated capacities.

NYLON WEB SLINGS

SLINGMASTER NYLON WEB WIDE LIFT SLINGS

- Specialized wide lift design provides superior load balance
- Tapered and reinforced eyes accommodate crane hooks and are durable
- Treated webbing is non-marring and abrasion resistant
- Available with additional wear protection

Working Load Limit								
	Web Width inches (mm)	Code Number	Vertical		Choker		Basket	
			lbs	(kN)	lbs	(kN)	lbs	(kN)
 Widelift	Single Ply							
	6 (152.4)	WL1-906	–	–	–	–	15,400	(68.5)
	8 (203.2)	WL1-908	–	–	–	–	20,400	(90.7)
	10 (254.0)	WL1-910	–	–	–	–	25,600	(113.9)
	12 (304.8)	WL1-912	–	–	–	–	30,800	(137.0)
	16 (406.4)	WL1-916	–	–	–	–	38,000	(169.0)
	20 (508.0)	WL1-920	–	–	–	–	45,000	(200.2)
	24 (609.6)	WL1-924	–	–	–	–	52,000	(231.3)
	Double Ply							
	6 (152.4)	WL2-906	–	–	–	–	28,600	(127.2)
	8 (203.2)	WL2-908	–	–	–	–	36,000	(160.1)
	10 (254.0)	WL2-910	–	–	–	–	44,000	(195.7)
	12 (304.8)	WL2-912	–	–	–	–	53,000	(235.8)
	16 (406.4)	WL2-916	–	–	–	–	62,000	(275.8)
	20 (508.0)	WL2-920	–	–	–	–	67,000	(298.0)
	24 (609.6)	WL2-924	–	–	–	–	73,000	(324.7)
Note: ▪ The rated capacities shown are calculated on a working load factor of 5:1								
Caution	Do not exceed rated capacities.							

We make customs slings- Call for pricing!

We also carry:

Type 1 or 2
Triangle 1 & 2 Ply

Type 3 or 4
Eye & Eye 3 & 4 Ply

Type 5
Endless 1 & 2 Ply

Fixed Bail Construction And Marine Rigging Blocks

Johnson offers a host of advantages in this product line. Beginning with 100 standard models, you are assured of selections that fit your every need. The lowest weight to capacity ratios, the quickest rigging and the easiest maintenance are a few additional benefits that prove once again that Johnson Blocks are consistent in quality and value.

STANDARD FEATURES

- 10 to 135 ton capacity
- 4 to 1 design factor
- 1 - 6 sheaves
- Full coverage side plates and center plates
- Top dead-end shackle
- Tapered roller bearings
- Oval pattern side plates

OPTIONAL FEATURES

- Bronze bushings
- Diamond pattern side plates
- Fully galvanized for corrosion resistance
- High capacity, custom engineered blocks available upon request

Gunnebo Johnson

Overhaul Balls

Johnson Overhaul Balls supply the downfall weight necessary to counter bearing friction and winch-to-boomtip line weight. Because these units must meet a wide range of field applications, we offer an equally wide range of unit sizes. It is, in fact, one of the widest ranges available—over 240 models, 35 through 1150 pounds; 3 through 30 tons W.L.L. Non-swivel balls are also available.

STANDARD FEATURES

- 3 through 30 tons
- 35 through 1150 pounds
- 4 to 1 design factor
- Heavy duty J-Latch standard

OPTIONAL FEATURES

- High capacity, custom engineered balls available upon request

Quick Reeve Mobile Crane Block

STANDARD FEATURES

- Quick release, zinc plated, rope retention pin meets OSHA requirements for rope retention. Cannot be completely removed from block to avoid pin loss.
- Johnson J-Latch™ heavy duty, steel, lockable, spring loaded latch meets OSHA personnel lifting requirements.
- The Johnson J-Latch™ provides a fast hook deformation inspection point.
- Available tonnage capacities from 5-300 tons. Larger capacities available upon request.
- Quick Reeve™ upright design rests on its own hook for a stable base while reeving.
- No bulky, drop down, trap door to handle or damage.
- Wire rope end fitting will pass through block without removal from wire rope.

GUNNEBO JOHNSON CORPORATION

GUNNEBO JOHNSON

Shorty "J" Crane Blocks

Shorty "J" represents the broadest line of standard crane blocks in the industry. In all, this company manufactures more than 1500 standard models of crane blocks, not including options. To our customers this means a better chance we'll have exactly what the end user requires. Shorty "J" is one of today's most popular crane blocks, and for a good reason. The J-Block can be used with all types of mobile cranes, truck cranes, overhead cranes, hydraulic and cable cranes. Johnson Quick Reeve crane blocks are also available.

STANDARD FEATURES

- 3 thru 350 ton capacities
- 4 to 1 design factor
- 1 through 8 sheaves
- 10 through 30 inch sheave diameters
- Reeving guides, all models
- Bronze bushed and roller bearing sheaves
- Direct-channel sheave bearing lubrication through center pin
- Flame hardened grooves on sheave sizes 16 through 30 inch diameters.
- Dual action (swing/swivel) roller thrust bearing hooks
- Forged steel hooks - 3 through 30 tons
- Total disassembly capability

OPTIONAL FEATURES

- Forged steel hooks - 35 through 300 tons
- Cast alloy steel duplex hooks with bar latch 25 through 1,750 tons
- Cast alloy steel quad hooks
- Forged steel duplex hooks
- Anti-rotation locking devices, all models
- Swivel safety anchor shackles, all models
- Sheave shrouds, all models
- Detachable cast iron and steel cheek weights, all models
- Pull test and certification, radiograph, magnetic particle, and other non-destructive testing to specification designated by customer

Snatch Blocks

Johnson produces a wide variety of multipurpose snatch blocks. Over 235 standard models of single and double sheave snatch blocks are offered. Capacities range from 2 through 30 tons; sheave diameters from 3 through 24 inches. Only top grade materials are used for each component.

Johnson Snatch Blocks have the convenient side opening feature. This is true even of our heavy duty top dead-end models, and makes it easy to reeve the block without removing any fittings from the end of the wire rope. Other features include choice of swivel hook, shackle, eye fittings, or Tailboard Blocks (which have no fittings at all).

STANDARD FEATURES

- Easy to open side plates
- 4 to 1 design factor
- Bronze bushings
- 3 through 24 inches sheave O.D.
- 2 - 30 tons

OPTIONAL FEATURES

- Hook latches
- Roller bearings
- Galvanized
- High capacity, custom engineered snatch blocks available upon request

GUNNEBO JOHNSON CORPORATION

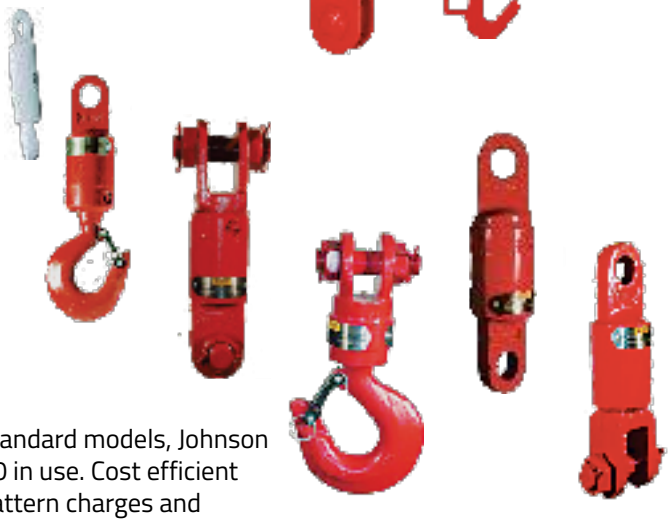
GUNNEBO JOHNSON

Oilfield Blocks

Johnson has been producing oilfield equipment for over three decades. Because of this expertise in sheaves and blocks, as well as an on-site heat treat facility, Johnson has become a respected manufacturer for the petroleum industry. We know the needs and we know how to fulfill them with quality lifting devices. High capacity, custom engineered oilfield blocks available upon request.

Swivels

Standard designs are available in a wide variety of styles. Engineered for long life at a reasonable cost. Features include roller thrust bearings, recessed grease fittings and hooks of drop forged steel. All swivels have a 4 to 1 design factor. High capacity, custom engineered swivels available upon request. Heavy duty J-Latch standard on hook models.



Wire Rope Sheaves

Available in sizes ranging from 3" to 108", and over 250 standard models, Johnson Wire Rope Sheaves are industry proven with over 100,000 in use. Cost efficient custom designs are available with no upfront tooling or pattern charges and no premium for small order quantities. 16" to 108" O.D. sheaves have flame-hardened, precision grooves for slow, even wear and long rope life. (Less than 16" O.D. flame-hardened upon request.) The integrity of Johnson's single disc forged steel construction provides a sheave with superior strength.

STANDARD FEATURES

- 3 through 108 inch sheave diameters
- 1/4 through 3 inch wire rope sizes
- 4 to 1 design factor
- Cast iron, ductile iron, cast steel, ForgeFab steel types

OPTIONAL FEATURES

- Custom designs to customer shaft, bearing mounting, hub, sheave O.D. or wire rope size requirement
- Electroplate inorganic zinc compound and other corrosion resistant coatings available
- Hub-located grease fittings
- Modifications as required to API and other applicable industry standards
- Special shafts, furnished for any sheave listed
- AISE No. 6 specifications
- Cold weather properties

GUNNEBO JOHNSON CORPORATION

GUNNEBO JOHNSON

Custom Engineered Products

Custom engineering is a Johnson specialty. We provide quotation and product delivery of custom engineered blocks, as well as a wide variety of lifting tackle, in the shortest time possible. Johnson custom engineered blocks are available to 3000 tons and above capacity with the design factor to your specifications. Proof testing is available to 500 tons (price on application).

BOTTOM FITTING OPTIONS:

- Single Hooks
- Duplex Hooks
- Quad Hooks
- Fixed Shackles
- Swivel Shackles
- Custom-fabricated Fittings

CORROSION-RESISTANT FINISHES AVAILABLE:

- Zinc Plating
- 3 part marine epoxy
- Hot Dip Galvanized and Carbozinc 11
- Dimetcote No. 3 & 6
- Various Mil Specs.

Open Wedge Sockets

Open Wedge Sockets combine positive attachment with optimum versatility. Easy-to-change Johnson Wedge Sockets are a high strength cast alloy steel with sharpy value of 25 lbs/ft. at -4° F. Each socket accepts at least two different ductile iron wedges. This allows the socket to be used with more than one rope size. Together, wedge and body act as a vise which grips the wire rope and locks it into place. The headed attachment pin is standard and has a charpy value of 25 lbs/ft. at -4° F.

Scrap Handling Block

This Johnson Crane Block is specifically designed for Scrap Handling applications, "Magnet and Dropball use." Johnson Scrap Handling Blocks are available in sizes ranging from 15 to 30 tons with sheave O.D.'s from 16 to 24 inches. Other sheave O.D.'s and tonnage capacities are available upon request.

FEATURES

- Larger Sheave Hub and Bronze Bushing for extended block life.
- Swivel/Swing Hook.
- Rope retention guides.
- Heavy duty J-Latch standard.
- Swivel Tee and Shackle Assembly optional.
- Hook anti-rotation locking device optional.

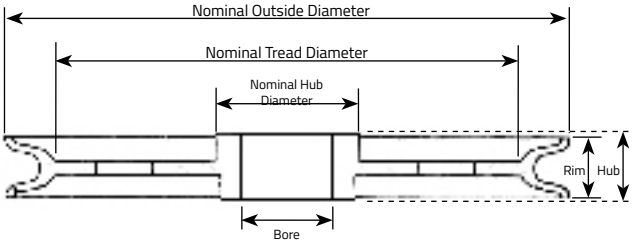
GUNNEBO JOHNSON CORPORATION

SHEAVES

Ordering Information

Sheaves come in a variety of sizes to suit your specific applications. To inquire or order sheaves please provide the following information:

Common Bore Sheaves



DIMENSIONAL INFORMATION

Nominal Outside Diameter:_____ Wire Rope Size:_____ Rim Width:__

+ Shaft Size:_____ * Hub Width:_____

Nominal Tread Diameter (Optional):_____ Nominal Hub Diameter (Optional):_____

* Hub width is measured over the cone of the Tapered Bearing Sheaves

+ Shaft Size is Bore Size on Plain Bore Sheaves.

BEARING TYPE

Bronze Bushing + Roller Bearing Tapered Roller Bearing

Finish / Plain Bore Other

+ Requires hardened and ground shaft

MATERIAL TYPE

Roll Forged (Flame hardened 14" and larger) . Forged Steel

Cast Steel Other

APPLICATION INFORMATION

Line Pull:_____ Fleet Angle: _____ Degree of Wrap: _____

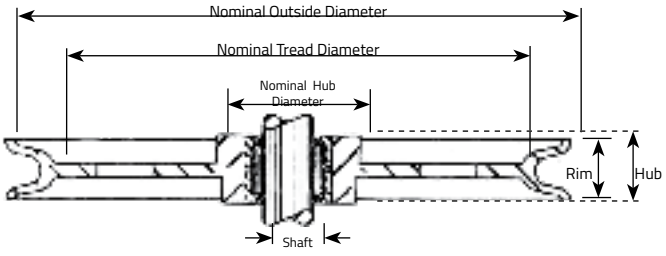
Line Speed:_____ Environment:_____

SPECIAL REQUIREMENTS

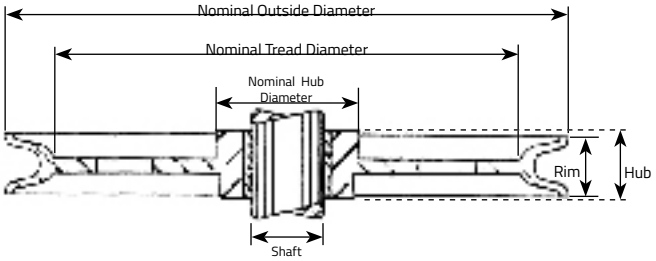
SpecialTesting:_____

Finish:_____

Roller Bearing Sheaves



Bronze Bushed Sheaves



BLOCKS

Triple Wooden Blocks
Also available

Single Wooden Block

WRIA Can supply blocks with any kind of special fittings.
Ultimate load is 4 times the working load limit.

Size inches (mm)	Working Load Limit lbs.
3 (76.2)	500
4-1/2 (114.30)	1,000
5 (127)	1,200
6 (152.4)	1,800
8 (203.2)	2,800

Double Wooden Block

WRIA can supply blocks with any kind of special fittings.
Ultimate load is 4 times the working load limit.

Size inches (mm)	Working Load Limit lbs.
3 (76.2)	800
4-1/2 (114.30)	1,400
5 (127)	1,800
6 (152.4)	2,500
8 (203.2)	3,800

Block Snatch with Swivel Hook

Size inches (mm)	Working Load Limit tons
3 (76.2)	2
4-1/2 (114.3)	4
6 (152.4)	8
8 (203.2)	8

Block Snatch with Swivel Shackle

Size inches (mm)	Working Load Limit tons
3 (76.2)	2
4-1/2 (114.3)	4
6 (152.4)	8
8 (203.2)	8

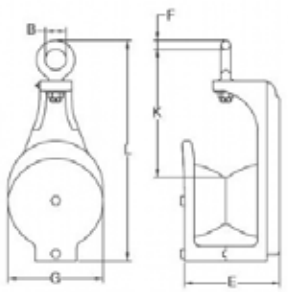
Yarding Block

Size inches (mm)	Wire Size inches	Working Load Limit tons
3 (76.2)	1/4 - 5/16	1.5
4 (101.6)	3/8	3
5 (127)	1/2	4.5
6 (152.4)	9-16	6

Chain Block w/ Grease Fitting

Size	Working Load Limits tons
3/8"	5

LOBSTER BLOCK, ALUMINIUM

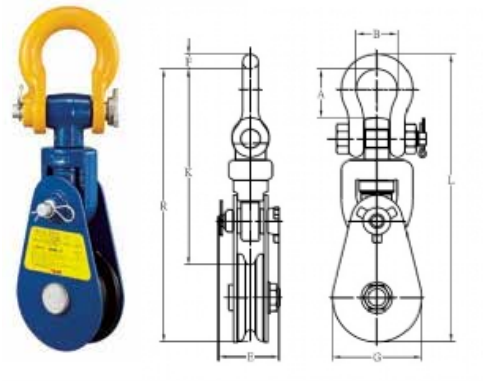


YOKE®

Dimensions (mm)		Bearing Type	Working Load Limit	N.W.	
mm	Rim Thickness	Tapered bearing	tonnes*	lbs	kg
114	70		1	14	6

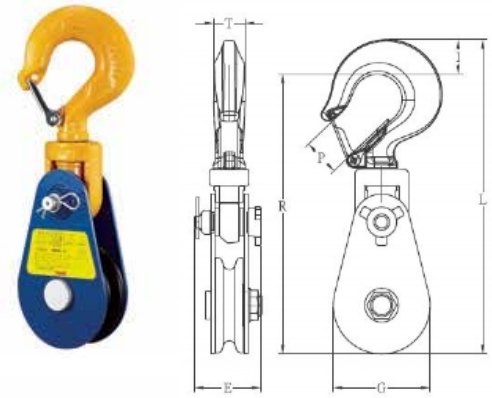
Yellow Snatch Block(YSB) with Shackle

Series : 8-501



Yellow Snatch Block(YSB) with Hook

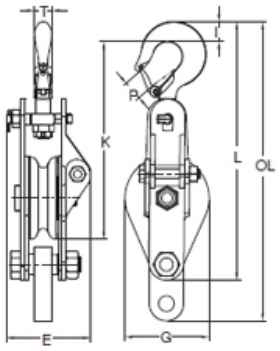
Series : 8-501



Sheave Dia.	Bearing Type	Wire Rope Size	Working Load Limit	N.W.	
inch		mm	t*	lbs	kg
3	BB	8-10	2	4	2
4.5	BB	10-13	4	13	6
6	BB	16-19	8	29	13
8	BB	16-19	8	44	20
10	BB	16-19	8	46	21
12	BB	16	8	49	22
12	BB	19	8	49	22
14	BB	16	8	56	25
14	BB	19	8	56	25

Snatch Blocks & Hay Fork Pulleys

Series : 8-506



Working Load Limit	Sheave Dia.	Wire Rope Size	Dimensions (mm)	N.W.							
tons*	inch	mm	inch	E	G	I	K	L	OL	P	T
2	4.5	10-13	3/8 ~1/2	107	180	25	252	330	382	25	22

CLAMPS

Model "GX" Non-Marring Clamp

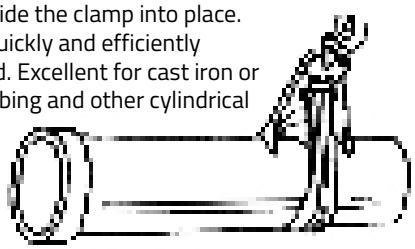
This clamp should be used to lift plates with hardness over 43 Rockwell C/400 Brinell. This clamp has a rubber covered pad, a cam or relatively smooth metal conditioned to grip tightly and it lifts heavy plates with minimum marring.

Multi-Purpose Sac Clamp

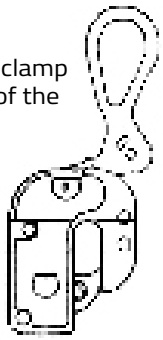
This patented clamp offers superior gripping features with the added benefit of a swiveling pad. Both gripping surfaces of the swiveling pad are smooth and non-marring. This clamp is lightweight, has a large grip range, and is easy to maintain.

Pipe Grabs

When these high-strength clamps are dropped over a pipe, they automatically clamp it. Moveable outriggers stabilize the pipe regardless of the clamp position. No blocking is required. The operator only has to guide the clamp into place. Pipes can be handled quickly and efficiently when properly balanced. Excellent for cast iron or steel pipe, as well as tubing and other cylindrical objects.



Short Leg Structural "GX" Clamp

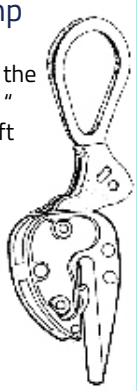


This versatile clamp is a variation of the popular "GX " style. It is designed for a secure bite on small or odd-shaped, wide-flanged beams.

Drag Clamp "GX" Style

With a heavy plate welded to its bottom edge, this clamp is ideal for dragging plates or heavy objects.

Sharp Leg Clamp "GX" Style



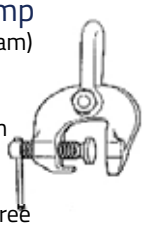
This is a variation of the standard model "GX " clamp designed to lift stacked plates from horizontal to vertical positions.

Locking "E" Clamp

The "E "clamp has a large throat that gives a secure bite and a wide grip range. Its swivel pad rotates in its seat and permits quick release.
A low cam angle and a wide cam face give increased gripping force on the plate.

SAC Plate Clamp

(Screw Adjusted Cam)
The SAC clamp is recommended for turning plates from horizontal to vertical as well as through a 180 degree arc. The SAC clamp has a drop forged body and shackle, wider grips and higher Working Load Limits (to 200 Tons).

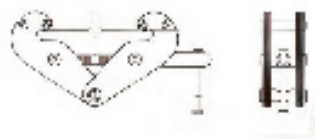


Duplex Hand Grip

This clamp is designed to carry or pull any objects that will fit into its jaws. Small and lightweight, it grips and releases automatically.

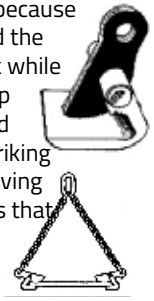
Beam Clamp

Ingersoll - Rand
Multi-purpose clamp for use on steel beams. Suitable for application as a lifting, tackle-eye or lashing clamp. Screwed spindle securely attaches



Horizontal Plate Clamp

One person can handle plates with this clamp because dual springs hold the cam on the work while the second clamp is placed. Pointed base and rear striking face facilitate driving clamp into plates that are not blocked.
Sold in pairs.



GX Clamp

The most exclusive feature of the GX clamp is patented wear indicator system. When any of the cam's straight line, convex teeth are flattened between the unique wear indicator grooves, it's time to change the cam. The GX clamp is currently available in five capacities: 1/2, 1, 3, 5 and 10-Tons. The GX can be used for both vertical lifting and horizontal-to-vertical lifting.

GXL Locking Clamp

The GXL clamp features the newly designed "Cam Engaging Lever" which keeps the cam in contact with the plate. The tension arm and spring mechanism facilitates attaching and removing the clamp.
These clamps will not lift plate when in the "lever open" position.

KITO

Ingersoll Rand

J.D. NEUHAUS
powered by air!

YALE · LIFT-TECH
division of Columbus McKinnon Corporation

Yale HOISTS

CM

CraneSource

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WRI Atlantic provides Full Service & Parts for these models of Hoists

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- GrabiQ
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- Hoists
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- Nylon Web Slings
- Sheaves

WIRE ROPE INDUSTRIES (ATLANTIC)

Phone: (902) 468-7588
Fax: (902) 468-1980
Toll Free: 1-866-201-0140

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