



YOUR SLING & RIGGING SPECIALIST!

HANES SUPPLY IS PROUD TO BE ISO 9001:2015 REGISTERED




BUFFALO/HEADQUARTERS 55 James E. Casey Dr, Buffalo, NY 14206 **716.826.2636**
ROCHESTER 20 Jetview Dr, Rochester, NY 14624 **585.235.0160**
SYRACUSE 6181 Thompson Rd Ste 500A, Syracuse, NY 13206 **315.299.4114**
WATERTOWN 22432 US Route 11, Watertown, NY 13601 **315.782.8247**

ALBANY 156 Railroad Ave, Albany, NY 12205 **518.438.0139**
CT/NYC METRO 1 Shoreline Dr Ste 6, Guilford, CT 06437 **203.481.3469**
CAROLINAS 4350 Thermal Ave, Midland, NC 28107 **704.220.1779**
ONLINE hanessupply.com

www.HANESSUPPLY.com
price: **\$5.95**

Flemish Eye Wire Rope Slings - 105BX






	Dia. of Rope (IN)	Min. Sling Length (FT IN)	Loop Dimensions		Rated Capacities in Tons (2000 LBS)					
			Width (IN)	Length (IN)	Single Leg Vertical	Choker Hitch	90°	Basket Hitch*		
								60°	45°	30°
6 x 19 EIP IWRC	1/4	1' 6"	2	4	0.65	0.48	1.3	1.1	.91	.65
	5/16	1' 9"	2-1/2	5	1.0	0.74	2.0	1.7	1.4	1.0
	3/8	2'	3	6	1.4	1.1	2.9	2.5	2.0	1.4
	1/2	2' 6"	4	8	2.5	1.9	5.1	4.4	3.6	2.5
	5/8	3'	5	10	3.9	2.9	7.8	6.8	5.5	3.9
	3/4	3' 6"	6	12	5.6	4.1	11	9.7	7.9	5.6
	7/8	4'	7	14	7.8	5.6	15	13	11	7.6
	1	4' 6"	8	16	9.8	7.2	20	17	14	9.8
6 x 37 EIP IWRC	1-1/8	5'	9	18	12	9.1	24	21	17	12
	1-1/4	5' 6"	10	20	15	11	30	26	21	15
	1-3/8	6'	11	22	18	13	36	31	25	18
	1-1/2	7'	12	24	21	16	42	37	30	21
	1-3/4	8'	14	28	28	21	57	49	40	28
	2	9'	16	32	37	28	73	63	52	37
	2-1/4	10'	18	36	44	35	89	77	63	44
	2-1/2	11'	20	40	54	42	109	94	77	54
2-3/4	12'	22	44	65	51	130	113	92	65	
3	13'	24	48	77	60	153	133	108	77	

* Rated capacities of basket hitches are based on a minimum diameter of curvature at the point of load contact of 25 times the rope diameter.

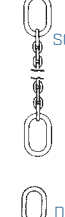
2-Leg, 3-Leg & 4-Leg Wire Rope Bridles



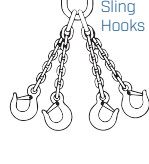


Rope Dia. (IN)	Min. Sling Length (FT IN)	Eye Hook Cap. (TONS)	TYPE 200			Oblong Link Dia. (IN)	TYPE 300			Oblong Link Dia. (IN)	TYPE 400			Oblong Link Dia. (IN)
			Rated Capacity (TONS)				Rated Capacity (TONS)				Rated Capacity (TONS)			
			60°	45°	30°		60°	45°	30°		60°	45°	30°	
1/4	1' 3"	1	1.1	.91	.65	1/2	1.7	1.4	.97	1/2	2.2	1.8	1.3	1/2
5/16	1' 6"	1	1.7	1.4	1.0	1/2	2.6	2.1	1.5	3/4	3.5	2.8	2.0	3/4
3/8	1' 8"	1.5	2.5	2.0	1.4	3/4	3.7	3.0	2.2	3/4	5.0	4.1	2.9	1
7/16	1' 10"	2	3.4	2.7	1.9	3/4	5.0	4.1	2.9	1	6.7	5.5	3.9	1
1/2	2'	3	4.4	3.6	2.5	3/4	6.6	5.4	3.8	1	8.8	7.1	5.1	1-1/4
9/16	2' 2"	5	5.5	4.5	3.2	1	8.3	6.8	4.8	1	11	9.0	6.4	1-1/4
5/8	2' 4"	5	6.8	5.5	3.9	1	10	8.3	5.9	1-1/4	14	11	7.8	1-1/4
3/4	2' 9"	7	9.7	7.9	5.6	1-1/4	15	12	8.4	1-1/2	19	16	11	1-3/4
7/8	3' 3"	11	13	11	7.6	1-1/4	20	16	11	1-1/2	26	21	15	1-3/4
1	3' 6"	11	17	14	9.8	1-1/2	26	21	15	1-3/4	34	28	20	2-1/4
1-1/8	4'	15	21	17	12	1-3/4	31	26	18	2	42	34	24	2-3/4
1-1/4	4' 6"	15	26	21	15	1-3/4	38	31	22	2-1/4	51	42	30	2-3/4
1-3/8	5'	22	31	25	18	2	46	38	27	2-3/4	62	50	36	3-1/4
1-1/2	5' 6"	22	37	30	21	2-1/4	55	45	32	2-3/4	73	60	42	3-3/4
1-3/4	6' 6"	30	49	40	28	2-1/2	74	60	42	3	98	80	57	4-1/2
2	8'	37	63	52	37	2-3/4	95	78	55	3-1/2	127	104	73	4-1/2

Alloy Chain Slings




	WLL OF GRADE 100 & GRADE 80 ALLOY CHAIN SLINGS (LBS)						
	Chain Size		Type S or C	Double Branch Type D			Triple/Quad Branch Type
	IN	MM	90°	45°	45°	30°	60°
GRADE 100	7/32	5.5	2,700	4,700	3,800	2,700	7,000
	9/32	7.0	4,300	7,400	6,100	4,300	11,200
	3/8	10.0	8,800	15,200	12,400	8,800	22,900
	1/2	13.0	15,000	26,000	21,200	15,000	39,000
	5/8	16.0	22,600	39,100	32,000	22,600	58,700
	3/4	20.0	35,300	61,100	49,900	35,300	91,700
	7/8	22.2	42,700	74,000	60,400	42,700	110,900
	1	26	59,700	103,200	84,200	59,600	154,800
GRADE 80	1-1/4	32	90,400	156,500	127,800	90,400	313,100
	7/32	5.5	2,100	3,600	3,000	2,100	5,450
	9/32	7.0	3,500	6,100	4,800	3,500	9,100
	3/8	10.0	7,100	12,300	10,000	7,100	18,400
	1/2	13.0	12,000	20,800	17,000	12,000	31,200
	5/8	16.0	18,100	31,300	25,600	18,100	47,000
	3/4	20.0	26,300	49,000	40,000	26,300	73,500
	7/8	22.0	34,200	59,200	48,400	34,200	88,900
1	26.0	47,700	82,600	67,400	47,700	123,900	
1-1/4	32.0	72,300	125,200	102,200	72,300	187,800	

Nylon Web Slings - Type 3 & 4




	TYPES 3 FLAT-EYE & TYPE 4 TWISTED-EYE				
	Web Width (IN)	Type 3 & 4 [EE]	Rated Capacities (LBS)		
			Vertical	Choker	Basket
1 PLY	1	EE1-801	1,600	1,200	3,200
	2	EE1-802	3,200	2,400	6,400
	3	EE1-803	4,800	3,600	9,600
	4	EE1-804	6,400	4,800	12,800
	5	EE1-805	8,000	6,000	16,000
	6	EE1-806	9,600	7,200	19,200
	8	EE1-808	12,800	9,600	25,600
	10	EE1-810	16,000	12,000	32,000
2 PLY	12	EE1-812	19,200	14,400	38,400
	1	EE2-801	3,200	2,400	6,400
	2	EE2-802	6,400	4,800	12,800
	3	EE2-803	8,600	6,500	17,200
	4	EE2-804	11,500	8,500	23,000
	5	EE2-805	13,600	10,200	27,200
	6	EE2-806	16,300	12,200	32,600
	8	EE2-808	19,200	14,400	38,400
10	EE2-810	22,400	16,800	44,800	
12	EE2-812	26,900	20,100	53,800	

	TYPES 3 FLAT-EYE & TYPE 4 TWISTED-EYE				
	Web Width (IN)	Type 3 & 4 [EE]	Rated Capacities (LBS)		
			Vertical	Choker	Basket
3 PLY	1	EE3-801	4,100	3,100	8,200
	2	EE3-802	8,300	6,200	16,600
	3	EE3-803	12,500	9,300	25,000
	4	EE3-804	16,000	12,000	32,000
	5	EE3-805	19,200	14,400	38,400
	6	EE3-806	23,000	17,200	46,000
	8	EE3-808	30,700	23,000	61,400
	10	EE3-810	36,800	27,600	73,600
4 PLY	12	EE3-812	44,000	33,000	88,000
	1	EE4-801	5,000	3,800	10,000
	2	EE4-802	10,000	7,500	20,000
	3	EE4-803	14,900	11,300	29,600
	4	EE4-804	19,800	14,800	39,600
	5	EE4-805	24,800	18,600	49,600
	6	EE4-806	29,800	22,300	59,600
	8	EE4-808	39,700	29,700	79,400
10	EE4-810	49,600	37,200	99,200	
12	EE4-812	59,500	44,600	119,000	

Nylon Web Slings - Type 5



	TYPES 5 ENDLESS				
	Web Width (IN)	Type 5 [EN]	Rated Capacities (LBS)		
			Vertical	Choker	Basket
1 PLY	1	EN1-801	3,200	2,500	6,400
	2	EN1-802	6,400	5,000	12,800
	3	EN1-803	8,600	6,900	17,200
	4	EN1-804	11,500	9,200	23,000
	5	EN1-805	13,600	10,900	27,200
	6	EN1-806	16,300	13,000	32,600
	8	EN1-808	19,200	15,400	38,400
	10	EN1-810	22,400	17,900	44,800
2 PLY	12	EN1-812	26,900	21,500	53,800
	1	EN2-801	6,200	4,900	12,400
	2	EN2-802	12,200	9,800	24,400
	3	EN2-803	16,300	13,000	32,600
	4	EN2-804	20,700	16,500	41,400
	5	EN2-805	24,500	19,600	49,000
	6	EN2-806	28,600	23,000	57,200
	8	EN2-808	30,700	24,500	61,400
10	EN2-810	33,600	26,800	67,200	
12	EN2-812	37,600	30,000	75,200	

	TYPES 5 ENDLESS (continued)				
	Web Width (IN)	Type 5 [EN]	Rated Capacities (LBS)		
			Vertical	Choker	Basket
3 PLY	1	EN3-801	8,000	6,400	16,000
	2	EN3-802	16,000	12,800	32,000
	3	EN3-803	21,500	17,200	43,000
	4	EN3-804	28,700	23,000	57,400
	5	EN3-805	34,000	27,200	68,000
	6	EN3-806	40,700	32,500	81,400
	8	EN3-808	46,000	36,800	92,000
	10	EN3-810	51,500	41,200	103,000
4 PLY	12	EN3-812	59,200	47,300	118,400
	1	EN4-801	10,000	8,000	20,000
	2	EN4-802	19,800	15,800	39,600
	3	EN4-803	26,700	21,300	53,400
	4	EN4-804	35,600	28,400	71,200
	5	EN4-805	42,200	33,700	84,400
	6				

INSPECTION FREQUENCY PER ASME B30.9			
A visual inspection for damage shall be performed by the user or designated person each day or shift the sling is used. A complete inspection for damage shall be performed periodically by a designated person, at least annually. Written records of most recent periodic inspection shall be maintained.			
REJECTION CRITERIA PER ASME B30.9			
Missing or illegible sling identification; evidence of heat damage; slings that are knotted; fittings that are pitted, corroded, cracked, bent, twisted, gouged, or broken; other conditions, including visible damage, that cause doubt as to the continued use of the sling.			
WIRE ROPE SLINGS	CHAIN SLINGS	WEB SLINGS	ROUND SLINGS
Excessive broken wires, for strand-laid and single part slings, ten randomly distributed broken wires in one rope lay or five broken wires in one strand in one rope lay. Severe localized abrasion or scraping, kinking, crushing, or birdcaging. Any other damage resulting in damage to the rope structure. Severe corrosion of the rope or end attachments.	Cracks or breaks. Excessive wear, nicks or gouges. Stretched chain links or components. Bent, twisted or deformed chain links or components. Excessive pitting or corrosion. Lack of ability of chain or components to hinge freely. Weld spatter.	Acid or caustic burns. Melting or charring of any part of the sling. Holes, tears, cuts or snags. Broken or worn stitching in load bearing splices. Excessive abrasive wear. Discoloration and/or brittle or stiff areas on any part of the sling, which may mean chemical or ultraviolet/sunlight damage.	Acid or caustic burns. Evidence of heat damage. Holes, tears, cuts, abrasive wear or snags that expose the core yarns. Broken or damaged core yarns. Weld spatter that exposes core yarns. Discoloration and/or brittle or stiff areas on any part of the slings, which may mean chemical or ultraviolet/sunlight damage.
ALL HSI SLINGS HAVE DOUBLE RATED CAPACITY TAGS			

INSPECTION FREQUENCY PER ASME B30.26	
A visual inspection shall be performed by the user or designated person each day before the rigging hardware is used. A periodic inspection shall be performed by a designated person, at least annually. The rigging hardware shall be examined and a determination made as to whether they constitute a hazard. Written records are not required. Semi-permanent and inaccessible locations where frequent inspections are not feasible, shall have periodic inspections performed.	
REJECTION CRITERIA PER ASME B30.26	
- Missing or illegible manufacturer's name or trademark and/or rated load identification (or size as required). - A 10% or more reduction of the original dimension. - Bent, twisted, distorted, stretched, elongated, cracked or broken load bearing components. - Excessive nicks, gouges, pitting, and corrosion. - Indications of heat damage including weld spatter or arc strikes, evidence of unauthorized welding. - Loose or missing nuts, bolts, cotter pins, snap rings, or other fasteners and retaining devices. - Unauthorized replacement components or other visible conditions that cause doubt as to the continued use of the rigging hardware and sling.	Additionally inspect wire rope clips for: - Insufficient number of clips. - Incorrect spacing between clips. - Improperly tightened clips. - Indications of damaged wire rope or wire rope slippage. - Improper assembly. Additionally, inspect wedge sockets for: - Indications of damaged wire rope or wire rope slippage. - Improper assembly.
ADDITIONAL REJECTION CRITERIA PER ASME B30.10-HOOKS	
- Any visibly apparent bend or twist from the plane of the unbent hook. - Any distortion causing an increase in throat opening of 5%, not to exceed 1/4". - Missing or illegible rated load identification. - Missing or illegible hook manufacturer's identification or secondary manufacturer identification.	

UNC-2A EYE BOLTS					
Shank Diameter (IN)	Shank Length (IN)	Eye I.D. (IN)	Eye O.D. (IN)	Rated Capacity (LBS)	Weight (LBS)
A	B	C	D		
1/4 - 20	1	3/4	1-3/16	500	.06
5/16 - 18	1-1/8	7/8	1-7/16	900	.11
3/8 - 16	1-1/4	1	1-21/32	1300	.18
7/16 - 14	1-3/8	1-3/32	1-27/32	1800	.23
1/2 - 13	1-1/2	1-3/16	2-1/16	2400	.35
9/16 - 12	1-5/8	1-9/32	2-9/32	3000	.47
5/8 - 11	1-3/4	1-3/8	2-1/2	4000	.70
3/4 - 10	2	1-1/2	2-13/16	5000	1.10
7/8 - 9	2-1/4	1-11/16	3-1/4	7000	1.70
1 - 8	2-1/2	1-13/16	3-9/16	9000	2.38
1-1/8 - 7	2-3/4	2	4	12000	3.41
1-1/4 - 7	3	2-3/16	4-7/16	15000	4.68
1-1/2 - 6	3-1/2	2-1/2	5-3/16	21000	7.77
1-3/4 - 5	3-3/4	2-7/8	6-1/16	28000	11.35
2 - 4-1/2	4	3-1/4	8-7/8	38000	16.70
2-1/2 - 4	5	4	8-9/16	56000	29.80

EYE BOLT

SWIVEL HOIST RING

SWIVEL HOIST RINGS UNC THREADS		
Rated Loads (LBS)	Thread Size (IN)	Torque (FT/LBS)
600	1/4 - 20	6
800	5/16 - 18	7
1,000	3/8 - 16	12
2,500	1/2 - 13	28
4,000	5/8 - 11	60
5,000	3/4 - 10	100
8,000	7/8 - 9	160
10,000	1 - 8	230
15,000	1-1/4 - 7	470
24,000	1-1/2 - 6	800
30,000	2 - 4-1/2	1100
50,000	2-1/2 - 4	2100
75,000	3 - 4	4300
100,000	3-1/2 - 4	5100

SCREW PIN AND BOLT TYPE SHACKLES					
Nominal Dia. Size of Bow (IN)	Carbon Maximum Working Load (TONS)	Alloy Maximum Working Load (TONS)	Inside Width at Pin (IN)	Dia. of Pin (IN)	
3/16	1/3	—	.38	.25	G-209
1/4	1/2	—	.47	.31	
5/16	3/4	—	.53	.38	G-209A
3/8	1	2	.66	.44	
7/16	1-1/2	2.6	.75	.50	G-2130/G-2140
1/2	2	3.3	.81	.63	
5/8	3-1/4	5	1.06	.75	
3/4	4-3/4	7	1.25	.88	
7/8	6-1/2	9.5	1.44	1.00	
1	8-1/2	12.5	1.69	1.13	
1-1/8	9-1/2	15	1.81	1.25	
1-1/4	12	18	2.03	1.38	
1-3/8	13-1/2	21	2.25	1.50	
1-1/2	17	30	2.38	1.63	
1-3/4	25	40	2.88	2.00	
2	35	55	3.25	2.25	
2-1/2	55	85	4.12	2.75	

WIDE BODY SHACKLES

Working Load Limit (TONS)	Effective Body Diameter (IN)	Inside Width at Pin (IN)	Dia. of Pin (IN)
30	4.1	2.37	1.63
40	3.6	2.88	2.00
55	4.3	3.25	2.25
75	5.9	4.12	2.75

EASY LOC® WIDE BODY SHACKLES

Working Load Limit (TONS)	Effective Body Diameter (IN)	Inside Width at Pin (IN)	Dia. of Pin (IN)
125	6.8	5.12	3.15
200	9.5	5.91	4.12
300	11.4	7.38	5.25

ROUND SLING SHACKLES

Sling Eye Width (IN)	Round Sling Size #	WLL (TONS)*
1	1 8 2	3-1/4
1.5	3 6 4	6-1/2
2	5 6 6	8-3/4
3	7 6 8	12-1/2
4	9 6 10	20-1/2
5	11 6 12	35
6	13	50

S-252
[S-253 SCREW PIN]

*Consult manufacturers catalog for exact load ratings of hardware being used.

U-BOLT CLIP			
Size (IN)	Number of Clips	Turnback Length (IN)	Torque (FT/LBS)
1/8	2	3-1/4	4.5
3/16	2	3-3/4	7.5
1/4	2	4-3/4	15
5/16	2	5-1/4	30
3/8	2	6-1/2	45
7/16	2	7	65
1/2	3	11-1/2	65
9/16	3	12	95
5/8	3	12	95
3/4	4	18	130
7/8	4	19	225
1	5	26	225
1-1/8	6	34	225
1-1/4	7	44	360
1-3/8	7	44	360
1-1/2	8	54	360
1-5/8	8	58	430
1-3/4	8	61	590
2	8	71	750

FIST GRIP CLIP

Size (IN)	Number of Clips	Turnback Length (IN)	Torque (FT/LBS)
3/16	2	4	30
1/4	2	4	30
5/16	2	5	30
3/8	2	5-1/4	45
7/16	2	6-1/2	65
1/2	3	11	65
9/16	3	12-3/4	130
5/8	3	13-1/2	130
3/4	3	16	225
7/8	4	26	225
1	5	37	225

Some standards may require a minimum of 3 wire rope clips. The number of clips shown (see Table) is based upon using RRL or RLL wire rope, 6 x 19 or 6 x 37 Class, FC or IWRC; IPS or EIP, EIPS. The number of clips shown also applies to rotation-resistant RRL wire rope, 8 x 19 Class, IPS, EIP, EIPS sizes 1-1/2 inch and smaller; and to rotation-resistant RRL wire rope, 19 x 7 Class, IPS, EIP, EIPS sizes 1-3/4 inch and smaller. If a pulley (sheave) is used for turning back the wire rope, add one additional clip. Clips are 80% efficient under 1" and 90% 1" and above.

LOAD FACTOR MULTIPLIER		
Leg Angle	Load Factor	Capacity Reduction Sin [a]
90°	1.000	1.000
85°	1.003	.9962
80°	1.015	.9848
75°	1.035	.9659
70°	1.064	.9397
65°	1.103	.9063
60°	1.154	.8680
55°	1.220	.8191
50°	1.305	.7660
45°	1.414	.7071
30°	2.000	.5000

LOAD ANGLE FACTORS

5000 lbs 5000 lbs

H = 10" L = 15"

$\frac{L}{H}$ = LAF (Load Angle Factor)

Example: $\frac{15}{10} = 1.5$ [LAF]

Tension in L = $\frac{L}{H} \times$ L's share of the load

Tension in L = $\frac{15}{10} \times 5,000$

1.5 x 5,000 Ten. = 7,500 lbs

OFF-SET CENTER OF GRAVITY [SHARE OF THE LOAD]

3' 7'

10,000 lbs

Inverse Proportion to Distance

Lift Point A	Lift Point B
$7 \times 3 = 10, \frac{7}{10} = .70$	$7 \times 3 = 10, \frac{3}{10} = .30$
.70 x 10,000 = 7,000lbs.	.30 x 10,000 = 3,000lbs.

WEIGHTS	MEASURES
Unit Weight Steel = 490 lbs/ft³	1 Cubic Ft. = 7.5 gals
Unit Weight Aluminum = 165 lbs/ft³	1 Metric Ton = 1.1 US Tons
Unit Weight Concrete = 150 lb/ft³	1 Kilogram = 2.2 lbs
Unit Weight Wood = 50 lbs/ft³	
Unit Weight Water = 62 lbs/ft³	
Unit Weight Sand and Gravel = 120 lbs/ft³	
Unit Weight Copper = 560 lbs/ft³	
Unit Weight Oil = 58 lbs/ft³	

D/d Ratio			
D/d Ratio	Efficiencies	D/d Ratio	Efficiencies
25	100%	3.5	73%
20	92%	3.25	72%
15	88%	3	71%
10	86%	2.75	70%
8	84%	2.5	68%
6	80%	2.25	67%
5	78%	2	65%
4.75	77%	1.75	62%
4.5	76%	1.5	59%
4	75%	1.25	55%
3.75	74%	1	50%

BASKET HITCH CAPACITY

A basket hitch has twice the capacity of a single leg only if D/d ratio is 25/1 and the legs are vertical.

ANGLE

D

CAPACITY % OF ANGLE SINGLE LEG

60	200%
90	170%
45	140%
30	100%

RATED CAPACITY ADJUSTMENT FOR CHOKER HITCHES

RATED CAPACITY ADJUSTMENT FOR CHOKER HITCHES

Angle of Choke in Degrees	Percent of Sling Rated Capacity Applicable
120-180°	100%
90-119°	87%
60-89°	74%
30-59°	62%
0-29°	49%

When a choke is drawn down tight against a load, or a side, pull is exerted resulting in an angle of less than 120°, an adjustment must be made for further reduction of the sling rated capacity.

HORIZONTAL SLING ANGLE		
Horizontal Sling Angle	Loss of Strength	Adjusted WLL
90°	0%	100% of in Line
60°	35%	65% of in Line
45°	70%	30% of in Line
30°	75%	25% of in Line

SIDE LOADING OF SHACKLES

Angle of Side Load	Loss of WLL
None, In-Line	None
45°	30% Loss
90°	50% Loss

Mobile Crane Hand Signals						

*Flex fingers in and out as load movement is desired.

The Basic Rigging Plan	
- Who is responsible [competent] for the rigging? - Has communications been established? - Is the rigging in acceptable condition? - Is the rigging appropriate for lifting? - Does the rigging have proper identification? - Does all gear have known working load limits? - What is the weight of the load? - What is the load's center of gravity? - What is the sling angle? - Will there be any side or angular loading? - Are the slings padded against corners, edges, protrusions or abrasive surfaces? - Are the working load limits adequate? - Is the load rigged to the center of gravity? - Is the hitch appropriate for the load? - Is a tag line required to control load? - Will personnel be clear of suspended loads? - Is there any possibility of fouling? - Will the load lift level and be stable? - Any unusual environmental concerns? - Any special requirements? The rigging must be used within manufacturer's recommendations and industry standards that include OSHA, ASME, ANSI, API and others.	
BUFFALO 716.826.2636	ROCHESTER 585.235.0160
WATERTOWN 315.782.8247	SYRACUSE 315.299.4114
ALBANY 518.438.0139	CT/NYC METRO 203.481.3469
CAROLINAS 704.220.1779	www.HanesSupply.com • 1.888.426.3755

© 2019 Hanes Supply, Inc. CAT0030