Lift-It[®] visionaries were wind energy pioneers long before wind was cool.

PROTECTIVE & SAFETY EQUIPMENT



"Excellence Is Our Standard, Not Our Goal"

P: 909.469.2251 F: 909.469.2252

RIGGING

LIFT-IT MANUFACTURING COMPANY, INC. 1603 West 2nd Street Pomona, CA 91766 E: info@lift-it.com W: www.lift-it.com

SERVICES

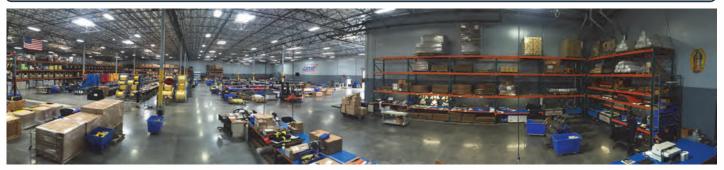
TOOLS







LIFT-IT[®] MANUFACTURING COMPANY, INC.



Decades of dedicated service to the rigging industry has enabled us to earn our reputation for quality, service and innovation. Our products feature the best materials and are produced to ISO 9001:2008 and AS9100B:2009 quality standards. These discriminating standards and the skill of our dedicated fabrication specialists with centuries of combined experience gives you the finest quality products available.

Our strategic alliance with the world's best tool manufacturers enables us to provide the convenience of one stop shopping. One call does it all. Whether it's a shackle or a complete tool kit, the Lift-It sales professionals will get you what you need, where you need it, NOW, not later.

WOLFGANG W. KEIL LEARNING CENTER



Rigger and Sling Inspection Training has been provided by Lift-It® Manufacturing for 37 years, long before training was fashionable. We provide monthly, sling and rigging training classes at our state of the art Learning Center in Pomona, CA.

We also offer on-site sling and rigging programs and have been asked to provide our services on multiple occasions for clients who believe that our training truly makes a difference in the lives of the people they are tasked with protecting.

Contact us at 909.469.2251 for the latest training schedule or visit www.lift-it.com and register today.



LIFT-IT MANUFACTURING COMPANY, INC. 1603 West 2nd Street P: 909.469.2251 F: 909.469.2252

Pomona, CA 91766 E: info@lift-it.com W: www.lift-it.com



Sling & Rigging Training



Long before training was in demand, Lift-It safety professionals traveled at their own expense with a simple message to anyone willing to listen; "Rig right to go home at night". The "Four Rules of Successful Rigging" were developed as an integral part of the Lift-It Sling Safety Program and when combined with other necessary considerations contribute to the successful execution of load handling activities.

Rule One: Stay out of the Kill Zone. Rule Two: Do not use damaged rigging.

Rule Three: Don't overload the rigging. Rule Four: You must control the load.

Even when you take into account all necessary factors, things can still go wrong. One thing is certain; <u>ALL "Four Rules</u> of Successful Rigging" must be present, simultaneously, all day long, all day strong. Leave any one of the "Four Rules of Successful Rigging" out of your load handling activities and you relinquish control to your destiny with profound consequences for your family and co-workers.

A properly trained workforce is necessary to successfully apply the "Four Rules of Successful Rigging". It is extremely important that you are trained in the use and inspection of the slings, rigging hardware and sling protection you use and only use the equipment you have been trained to use.

Our training program has been perfected over the past thirty-six years and is a world class experience. We completed a very intricate process in April 2016 whereby our training was accredited by the Lifting Equipment Engineers Association. LEEA is a prestigious, international organization that not only provides training, but third party accreditation of training programs offered by Accredited Training Providers.

Students attending the regularly scheduled training events offered at the Lift-It Learning Center or participating in on-site training offered by Lift-It will receive a certificate issued by LEEA.

Join us for an upcoming training event and leave educated and enthused with the necessary information to establish and/or improve a safety culture that will make a difference in the lives of those you are tasked with protecting.

Consider attending one of our many regularly scheduled events at the Lift-It Learning Center or bring the training to your location. Sling & Rigging, Sling & Rigging Hardware Inspector, Train-the-Trainer Professional Development Program and Professional Rigger Courses are readily available at the location of your choice.

Class size is deliberately limited to maximize the overall learning experience. Contact us for our current training schedule or visit www.lift-it.com and register today!



909.469.2251



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Tool Bags manufactured by Lift-It[®] feature the finest materials and the same heavy duty, fabrication skills required to make slings capable of carrying serious weight. Products rated for 100 Lbs. receive the same attention to detail as those rated for 100,000 Lbs.

From a manufacturing perspective our responsibility for the handling of any amount of weight has always been predicated upon destruction testing. We are seriously committed in our dedication to excellence and operate 75 ton and 300 ton, in house, test machines certified annually to the ASTM E4 standard. We don't put the overweight, Portuguese fellow (that's me, so I can say that!) into the 150 Lbs. rated Tool Bag and lift via forklift to "proof test" Tool Bags.

We pioneered the concept of **Load Rated**, Tool Bags. Other manufacturers, who previously made gloves, garments and pocket protectors now "fashion" themselves, riggers eager to expand and diversify their product line by making Tool Bags.

Other "novel" concepts introduced by us and adopted by others were labeling and the development of an inspection procedure for Tool Bags. Both concepts seemed natural given our extensive sling and rigging background.

Lift-It[®] Tool Bags provide the greatest value for your purchasing dollar. Lift-It[®] Tool Bags feature 28 oz. vinyl materials which are considerably more expensive than paper thin materials used by others. Rest assured, supposed savings from "economy" Tool Bags is easily overshadowed by the long lasting quality and durability of Lift-It[®] Tool Bags.

Tool Bags are lifting devices. There are originators and imitators in the sling and "tool bag" businesses. Contact us for "original" solutions and custom designs to satisfy your unique applications.

You don't have to worry about us making dresses or handbags, our customers and more importantly, we know our proficiencies and limitations. Beware of imitators!

TOOL BAG INSPECTION AND REMOVAL FROM SERVICE CRITERIA

The proper inspection of Tool Bags is essential to ensure proper product performance and the safety of the user.

- Tool Bags should be inspected before each use.
- A formal inspection should be performed annually by a qualified person.

HARDWARE, RIM RINGS AND RIGID	WEBBING
BOTTOM PLATES	Inspect webbing for: Frays, Cuts, Broken Fibers, Tears,
Check all Tool Bag components for damage such as:	Abrasion, Mold, Burns, UV Degradation, Heavy Soiling
Distortion, Corrosion, Burrs, Cracks, Breaks and Wear.	and Discoloration. Inspect all Stitching for Snags, Cut or
Moving parts should move freely.	Broken Stitches.
TOOL BAG MATERIAL Inspect for: Cuts, Tears, Abrasions, Mold, Burns, Corrosion, UV Degradation, Heat and/or Chemical Damage.	LABELS All Labels must be present and legible.

If damage is detected at any time, remove the product immediately from service and do not use for any purpose.

WARNING Do not fill Tool Bags with objects that could cut, pierce or damage the Tool Bag. Tool Bags can be damaged and cut by tools or other objects. Inspect before use. Always use Rigid Bottom Plates when furnished. Never stand under or near a suspended bag. Never use or allow contact with temperatures in excess of 194°(F)/90°(C) or below -40°(F)/-40°(C).Do not overload. <u>A cut, damaged or overloaded Tool</u> Bag could release the contents causing serious INJURY or DEATH.



	Û	OOL LIFTING BAG SI								
Bag Description Small Wrench Bag Large Wrench Bag Pump Bag First Aid Bag Bucket Bag										
Stock Number	LMC-100355-522	LMC-100355-670	LMC-100355-671	LMC-100355-673	WP-BS					
Material	No. 4 Canvas	1980D Cordura®	1980D Cordura®	1400D Cordura®	28oz. Vinyl					
Closure	None	None	Velcro &Clips	Inner & Outer Velcro	None					
Steel Rim Ring	Х	-	-	-	Х					
Rigid Bottom Plate		Х	Х	Х	Х					
Exterior Bottom Protector	Х	Х	Х							
Reflective Web		Х	Х	Х						
Work Load Limit	80 Lbs.	200 Lbs.	200 Lbs.	100 Lbs.	100 Lbs.					
Diameter	7″	13"			14"					
Width			30"	20″						
Length			13″	12"						
Height	48″	59"	29"	29"	21"					
Cubic Volume	1.06 Cu. Ft.	4.53 Cu. Ft.	6.55 Cu. Ft.	4.03 Cu. Ft.	1.87 Cu. Ft.					
Bag Height with Bridle	63"	61"	36"	35″	34"					

Custom Bags are available.				
	TOOL LII	FTING BAG SPECIFICATIO	ONS	
Bag Description	Large Cordura® Tool Bag	Large Vinyl Tool Bag	Large Canvas Tool Bag	Small Cordura [®] Tool
Stock Number	LMC-100355-672	LMC-100355-420	LMC-100355-545	LMC-100355-669
Material	1980D Cordura®	28oz. Vinyl	No. 4 Canvas	1980D Cordura®
Closure	Inner & Outer Velcro	Inner & Outer Velcro	Inner & Outer Velcro	Inner & Outer Velcro
Steel Rim Ring	-	-	-	-
Rigid Bottom Plate	Х	Х	Х	
Exterior Bottom Protector				Х
Reflective Web	Х	Х	Х	Х
Work Load Limit	200 Lbs.	180 Lbs.	250 Lbs.	200 Lbs.
Diameter				
Width	19"	19"	19"	17"
Length	11"	11″	11"	4"
Height	29″	29"	29″	17"
Cubic Volume	3.51 Cu. Ft.	3.51 Cu. Ft.	3.51 Cu. Ft.	.67 Cu. Ft.
Bag Height with Bridle	33"	33"	33″	34"





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CIFE BUCKT		THE FUCKET IDE DOLCH THE PLOADEL IDE DILLINT TS DO LAS IDE MINIM		TUFF BLICKET TB-1622 PV LGAD LIMIT - 200 LIS More in Visa Merri monis
TB-2028PV Vinyl - 500 lbs.	TB-2028CV Canvas - 350 lbs.	TB-2028CL Canvas - 350 lbs.	TB-181826PV Vinyl - 250 lbs.	TB-1622PV Vinyl - 200 lbs.
TUFF BUCKET Da Lutar - 20 LB Mar au ca	TEB-1620CV LIAD LIMIT - 200 LIS Mode in Lia Tetar frame	TE-1620CL LOAD LIMIT - 200 LIS MACE IN UA MITTIER FROM:	TIPE BUCKET DE 141822CL LODO LIMIT - 150 LBS MOLT IN USA	TB-1322PV LOAD LIMIT - 1928 Micro mode
TB-1622PVR Red Vinyl - 200 lbs.	TB-1620CV Canvas - 200 lbs.	TB-1620CL Canvas - 200 lbs.	TB-141822CL Canvas - 150 lbs.	TB-1322PV Vinyl - 150 lbs.
TUFF BLICKET TO-1 322 PV/R LOAD LIMIT - 159 LIS MOR HUIA	TUFF BUCKER TB-1322CV UGAD LINET - 150 LB5 Winter present	THEF BUCKET TB-1322CL LOAD LIMET - 154 LIM MICH FROM	THEF BLACKET UNDE UNDER - 150 ES March rease	TUTE FULCES IN THE SECOND IN THE SECOND IN THE SECOND IN THE SECOND IN THE SECOND
TB-1322PVR Red Vinyl - 200 lbs.	TB-1322CV Canvas - 150 lbs.	TB-1322CL Canvas - 150 lbs.	TB-121222PV Vinyl - 150 lbs	TB-121222CL Canvas - 100 lbs.
		TRADET		To dece To dece To dece
TB-1060CV Canvas - 200 lbs.	TB - 1060CL Canvas - 200 lbs.	TB - 1050CV-P Canvas - 150 lbs.	TB-1050CV Canvas - 150 lbs.	TB-1050CL Canvas - 150 lbs.



THE BLOCKET THE BLOCKET THE SOURCE STATE	TUFF BUCKER TB-LOJOCV LOAD LOAD TO UK MORE TO UK	TE ADOSCL DAD LIMIT - 100 LB MICHT PERMIN	THEF BLICKET THE HOLDES MADE IN USA METER FERRORS	THEFE BUCKET THE THE STATE THE STATE
ТВ-1036СV-Р	TB-1030CV	TB-1030CL	TB-1018CV	TB-1018CL
Canvas - 125 lbs.	Canvas - 100 lbs.	Canvas - 100 lbs.	Canvas - 100 lbs.	Canvas - 100 lbs.

Tool Lifting Bag Features

- Reinforced Bottom
- Triple Stitched

TUFF BUCKET

- Roll Down Closure
- 1" Webbing Closure

- 1-1/4" Ring Rigging Eyelets
- Structured Opening with Steel Ring (Except TB-1018CL)
- Grommet Reinforced Attachments
- Made in the USA

Tool Lifting Bag Specifications

STOCK NO.	TB-2028PV	TB-2028CV	TB-2028CL	TB-181826PV	TB-1622PV	TB-1622PVR	TB-1620CV	TB-1620CL	TB-141822CL
Upright Load Rating	500 lbs.	350 lbs.	350 lbs.	250 lbs.	200 lbs.	200 lbs.	200 lbs.	200 lbs.	150 lbs.
Closure Load Rating	500 lbs.	350 lbs.	350 lbs.	250 lbs.	200 lbs.	200 lbs.	200 lbs.	200 lbs.	150 lbs.
Diameter or (L x W)	20"	20"	20"	18" x 18"	16"	16"	16"	16"	14" x 18"
Height	28"	28"	28"	26"	22"	20"	20"	20"	22"
Capacity (Cubic In.)	8,792	8,792	8,792	10,400	4,421	4,019	4,019	4,019	5,544
Body Material	Vinyl	Canvas	Canvas	Vinyl	Vinyl	Red Vinyl	Canvas	Canvas	Canvas
Bottom Support	Vinyl	Vinyl	Leather	Vinyl	Vinyl	Vinyl	Vinyl	Leather	Leather
STOCK NO.	TB-1322PV	TB-1322PVR	TB-1322CV	TB-1322CL	TB-121222PV	TB-121222CL	TB-1060CV	TB-1060CL	TB-1050CV-P
Upright Load Rating	150 lbs.	200 lbs.	150 lbs.	150 lbs.	150 lbs.	100 lbs.	200 lbs.	200 lbs.	150 lbs.
Closure Load Rating	150 lbs.	200 lbs.	150 lbs.	150 lbs.	150 lbs.	100 lbs.	200 lbs.	200 lbs.	150 lbs.
Diameter	13"	16"	13"	13"	12" x 12"	12" x 12"	10"	10"	10"
Height	22"	20"	22"	22"	22"	22"	60"	60"	50"
Capacity (Cubic In.)	2,919	4,019	2,919	2,919	3,168	3,168	4,710	4,710	3,925
Body Material	Vinyl	Red Vinyl	Canvas	Canvas	Vinyl	Canvas	Canvas	Canvas	Canvas
Bottom Support	Vinyl	Vinyl	Vinyl	Leather	Vinyl	Leather	Vinyl	Leather	Vinyl

STOCK NO.	TB-1050CV	TB-1050CL	TB-1036CV-P	TB-1030CV	TB-1030CL	TB-1018CV	TB-1018CL
Upright Load Rating	150 lbs.	150 lbs.	125 lbs.	100 lbs.	100 lbs.	100 lbs.	100 lbs.
Closure Load Rating	150 lbs.	150 lbs.	125 lbs.	100 lbs.	100 lbs.	100 lbs.	100 lbs.
Diameter	10"	10"	10"	10"	10"	10"	10"
Height	50"	50"	36"	30"	30"	18"	18"
Capacity (Cubic In.)	3,925	3,925	2,826	2,355	2,355	1,413	1,413
Body Material	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas	Canvas
Bottom Support	Vinyl	Leather	Vinyl	Vinyl	Leather	Vinyl	Leather



Tool Bags & Organizers

SOCKET / TOOL ROLL



- 32 Pockets
- Unique socket holder with hook and loop closure holds metric and standard sockets.
- Heavy-duty elastic strap keeps tools in place.
- Adjustable quick-release buckle fastens pouch when not in use.
- Carrying handle for easy transport.
- 28" W x 14" H

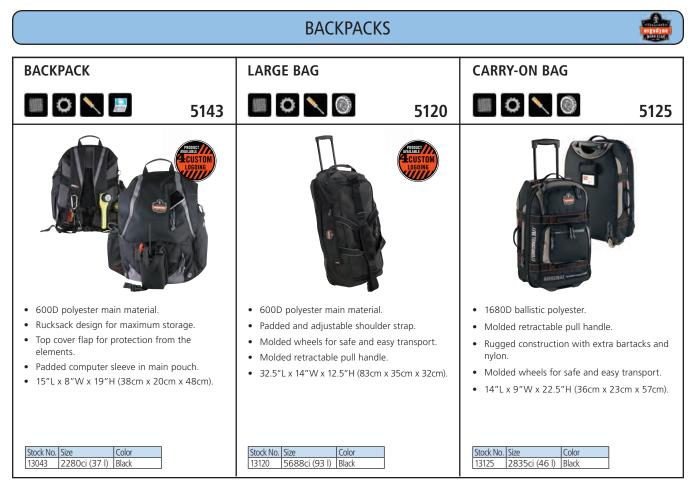
18" MULTI-COMPARMENT TOOL CARRIER



The very popular multi-compartment tool carrier with an extra-large center compartment for power tools and two zippered side panels with 58 pockets for all your favorite hand tools, has padded handles and an adjustable shoulder strap.

- 52 pockets inside and 6 pockets outside to organize tools.
- Large center compartment to carry power tools and accessories and 2 separate outside compartments.
- Zippered side panels prevent spillage of tools when carrying or storing carrier.
- Approx. 18"L x 7"W x 14"H.

Stock Number 1539



Stock Number 1173

www.lift-it.com



Tool Organizers



OPEN FACE TOOL ORGANIZ	ER.	OPEN FACE TOOL ORGA MEDIUM	NIZER	OPEN TOP TOOL ORG	ANIZER
	5815		5817	0 ///	5810
PC			MINIBUSICESS UMIT POLINES LISAREJ		
 61 pockets: ultimate in tool organizati Molded-rubber base. Detachable phone holder and parts or Nickel-plated hardware. 18"L x 11"W x 15"H (46cm x 28cm x 1) 	rganizer.	 44 pockets: ultimate in tool organ Molded-rubber base. Detachable phone holder and pa Nickel-plated hardware. 15"L x 8.5"W x 13.5"H (38cm x 2) 	rts organizer.	 30 pockets: 21 exterior, 9 interior, 9 interi	
Stock No. Size Color 13715 L Gray		Stock No.SizeColor13717MGray		Stock No.SizeColor13710—Gray	
WIDEMOUTH TOOL ORGAN LONG		WIDEMOUTH TOOL ORG		WIDEMOUTH TOOL O SMALL	
	5808		5802		5804
 28 pockets: 12 exterior, 16 interior. Molded-rubber base. Detachable phone holder and parts of Nickel-plated hardware. 24"L x 10"W x 13"H (61cm x 25cm x 1) 	-	 28 pockets: 14 exterior, 14 interior Molded-rubber base. Detachable phone holder and pa Nickel-plated hardware. 14.5"L x 8.5" W x 11"H (37cm x 2) 	rts organizer.	 27 pockets: 10 exterior, 17 inte Molded-rubber base. Detachable phone holder and Nickel-plated hardware. 13.5"L X 7.5" W X 11"H (34cm) 	parts organizer.
Stock No.SizeColor13708LGray		Stock No.SizeColor13702MGray		Stock No.SizeColor13704SGray	



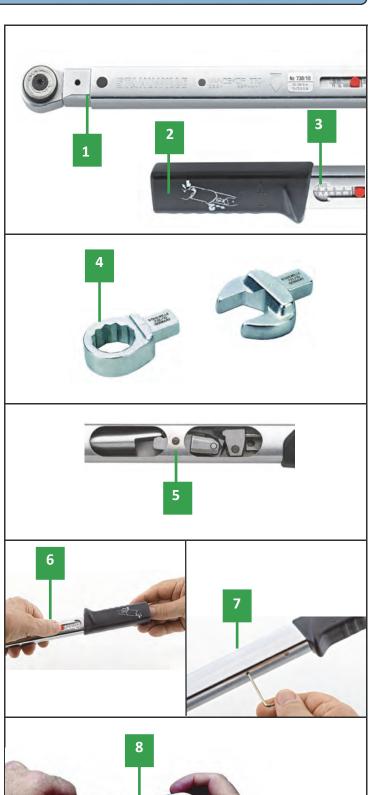


MANOSKOP® 730

ADVANTAGES AT A GLANCE

- Easy setting and operation.
- Extremely resilient and durable.
- Wear-resistant switching mechanism.
- Torque range 4 800 Nm.
- No need for manual reset to zero.
- Wear-free flex rod instead of a compression spring.
- Can be calibrated without disassembly.
- Clearly detected cut-out even at very small torque settings.
- Rapid setting thanks to slide control.

1	Protected mechanism, extremely resistant to mechanical wear, protected against dirt inside the outer housing.
2	Sturdy handle made of tough plastic, resistant to oils, grease, fuels and brake fluid.
3	Easy-to-read twin scale for Nm/ft-lb and Nm/in-lb on sizes 5-80.
4	Square drive for use with wide range of inserts : (9x12mm, 22x28mm and 24.5x28mm).
5	No need for manual reset to zero thanks to a wear-free trigger system with triggering cam. The measuring element is only under load while force is being applied.
6	Rapid setting of target torque on sizes 2 - 65.
7	Quick adjustment from outside, no disassembly of the torque wrench required.
8	Quick Release safety lock ensures secure locking of insert tools on sizes 5 - 65 and fast removal.







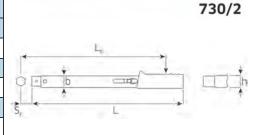
Service MANOSKOP® 730/2

- Click-type
- Mount for interchangeable insert tools
- Dual stop signal
- Display deviation ± 4%

STAHLWILLEI

STOCK	SIZE	APPROXIMATE TORQUE	INCREMENTS	INSERT	b	h	L	LF	SF
NUMBER	SIZE	RANGE (Nm)		mm	mm	mm	mm	mm	mm
50180002	2	4-20 Nm	.5 Nm	9x12	27.5	23	178.5	174	17.5
50180004	4	8-40 Nm	1 Nm	9x12	27.5	23	222	218	17.5
50580001	a/2-1	17.5-87.5 in/lb	2.5 in/lb	9x12	27.5	23	178.5	174	17.5
50580002	a/2-1	30-175 in/lb	5 in/lb	9x12	27.5	23	178.5	174	17.5
50580004	a/4	70-350 in/lb	10 in/lb	9x12	27.5	23	222	218	17.5

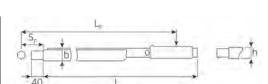




Service MANOSKOP[®] 730/80

- Click-type
- Mount for shell tools

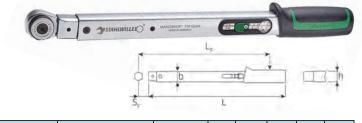
STOCK	APPROXIMATE TORQUE	INCREMENTS	INSERT	b	h	L	LF	SF
NUMBER	RANGE (Nm)	INCREIVIENTS	mm	mm	mm	mm	mm	mm
50180005	50180005 160-800 Nm 20Nm 24.5x28 46 43 970 990 95							95
Use Shell A	daptor No. 7370/80	to make 14 x18 n	nm insert to	ools fit	t			



730/80

Service MANOSKOP® 730/5 QUICK

- MANOSKOP[®] 730 Quick Now even more efficient and easier to use. The MANOSKOP[®] 730 Quick lets users work faster and even more safely with the aid of numerous intelligently optimized improvements.
- Better Handle Resistant to oils, grease, fuels, brake fluids and skydrol.
- Clearer View Integrated magnifier and Vernier scale.
- More Convenient Improved accessibility and operation of the locking lever inside the handle.



STAHLWILLE MANOSKOP 730 80

STOCK	SIZE	APPROX. TORQUE	APPROX. TORQUE	INSERT	b	h	L	LF	SF
NUMBER		RANGE (Nm)	RANGE (ft/lbs)	mm	mm	mm	mm	mm	mm
50184005	5	6-50 Nm	5-36 ft/lbs	9x12	28	23	315	288	17.5
50184010	10	20-100 Nm	15-72.5 ft/lbs	9x12	28	23	370	343	17.5
50184012	12	25-130 Nm	20-95 ft/lbs	14x18	28	23	410	390	25
50184020	20	40-200 Nm	30-145 ft/lbs	14x18	28	23	455	435	25
50184040	40	80-400 Nm	60-300 ft/lbs	14x18	28	23	590	570	25
50184065	65*	130-650 Nm	100-480 ft/lbs	14x18	30.6	25.6	875	855	25
50584005	a/5	6-50 Nm	50-440 ft/lbs	9x12	28	23	315	288	17.5
50584010	a/10	20-100 Nm	180-880 ft/lbs	9x12	28	23	370	343	17.5
50584012	a/12	25-130 Nm	225-1150 ft/lbs	14x18	28	23	410	390	25
50584020	a/20	40-200 Nm	350-1750 ft/lbs	14x18	28	23	455	435	25

* Recommended Ratchet Insert - Tool No. 735/40HD

Insert / Shell Tools

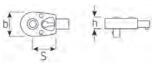


• Output square drive in accordance with DIN 3120

- Long-term loading of the input and output square drive is in accordance with DIN EN ISO 6789:2003.
- In compliance with DIN EN ISO 6789:2003. The limits must not be exceeded if larger torque wrenches and tool holders are used.

725QR—Quick Release Ratchet Insert

• Reversible, with Quick Release safety lock, size 4: 22 teeth, sizes 5 and 10: 30 teeth





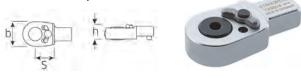
Stock	Size	Drive	Insert	b	h	S	Nm	
Number	Size	Drive	insert	mm	mm	mm	INITI	
58 25 3004	4	1/4	9x12	22	13.8	17.5	40	
58 25 3005	5	3/8	9x12	29	18	28*	100	
58 25 3010	10	1/2	9x12	29	18	28*	100	

Warning: Refer to the manufacturers instructions

for adjusting torque values.

725B - Bit Ratchet Insert

Reversible with inside hexagon, 1/4" or 5/16", DIN 3126/ISO 1173 D 6.3 or D8, for direct acceptance of bits 1/4" or 5/16" outside Hexagon c 6.3 (size 4: 22 teeth, size 5: 30 teeth). Internal hex drive with collar-trust spring. Bits are easy to insert, lock securely in position and can be easily removed.

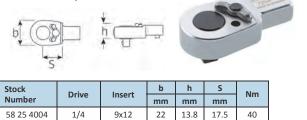


Stock	Size	Drive	Incort	b	h	S
Number	Size	Drive	Insert	mm	mm	mm
58 25 5004	4	1/4	9x12	22	13.6	17.5
58 25 5005	5	5/16	9x12	29	17.9	28*

Warning: Refer to the manufacturers instructions for adjusting torque values.

725/4 - Ratchet Insert

• Reversible, 60 teeth



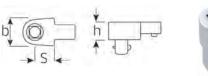
735 - Ratchet Insert - Fine Tooth

• Reversible, 60 teeth



		9							
1	Stock	Size	Drive	Insert	b	h	S	Nm	
	Number	Size	Drive	insert	mm	mm	mm	INITI	
	58 25 00 05	5	3/8	9x12	33	24	17.5	100	
	58 25 00 10	10	1/2	9x12	33	24	17.5	100	

734 - Square Drive Insert

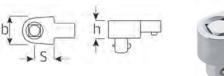




Stock		Cine	During	lucant	b	h	S	Nm
Numbe	r	Size	Drive	Insert	mm	mm	mm	NM
58 24 0	004	4	1/4	9x12	20	14	17.5	40
58 24 0	005	5	3/8	9x12	20	14	17.5	80
58 24 0	010	10	1/2	9x12	20	14	17.5	100

734F - Square Drive Insert

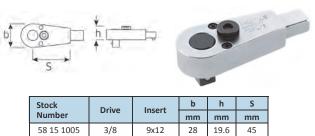
· Permanently attached, captive square drive





Stock	Size Drive Insert		b	h	S	
Number	Size	Drive	Insert	mm	mm	mm
58 24 1004	4	1/4	9x12	22	14	17.5
58 24 1005	5	3/8	9x12	22	14	17.5

725L/5 - Ratchet Insert



Warning: Refer to the manufacturers instructions for adjusting torque values.

Insert / Shell Tools



734L/5 - Square Drive Insert

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This square-drive insert tool has the same extension length as ring insert tool No. 732G/10 and ratchet insert tool No. 725L/5



Stock	Drive	Incont	b	h	S
Number	Drive	Insert	mm	mm	mm
58 24 2005	3/8	9x12	20	14	45
Maria Def	and a the second	(

732/10 - Open Ended Insert

Warning: Refer to the manufacturers instructions for adjusting torque values.

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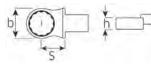
Stock	Nut		b	h	S
Number	Size	Insert	mm	mm	mm
58 22 1007	7mm	9x12	22	5	17.5
58 22 1008	8mm	9x12	22	5	17.5
58 21 1009	9mm	9x12	26	5.5	17.5
58 22 1010	10mm	9x12	26	5.5	17.5
58 22 1011	11mm	9x12	26	5.5	17.5
58 22 1012	12mm	9x12	30	7	17.5
58 22 1013	13mm	9x12	30	7	17.5
58 22 1014	14mm	9x12	35	8	17.5
58 22 1015	15mm	9x12	35	8	17.5
58 22 1016	16mm	9x12	38	8.5	17.5
58 22 1017	17mm	9x12	38	8.5	17.5
58 22 1018	18mm	9x12	42	9	20
58 22 1019	19mm	9x12	42	9	20

731a/10 - Open Ended Insert

Stock	Nut		b	h	S
Number	Size	Insert	mm	mm	mm
58 62 1016	1/4	9x12	22	5	17.5
58 62 1020	5/16	9x12	22	5	17.5
58 62 1024	3/8	9x12	26	5.5	17.5
58 62 1028	7/16	9x12	26	5.5	17.5
58 62 1032	1/2	9x12	30	7	17.5
58 62 1034	9/16	9x12	35	8	17.5
58 62 1036	5/8	9x12	38	8.5	17.5
58 62 1038	11/16	9x12	42	9	20*
58 62 1040	3/4	9x12	42	9	20*

Warning: Refer to the manufacturers instructions for adjusting torque values.

732/10 - Ring Insert



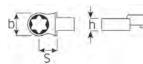


Stock	Nut	Insert	b	h	S
Number	Size	Insert	mm	mm	mm
58 22 1007	7mm	9x12	13	8	17.5
58 22 1008	8mm	9x12	14.2	8	17.5
58 22 1010	10mm	9x12	17.2	9	17.5
58 22 1011	11mm	9x12	18.5	9	17.5
58 22 1012	12mm	9x12	20.5	11	17.5
58 22 1013	13mm	9x12	21.5	11	17.5
58 22 1014	14mm	9x12	22.5	11	17.5
58 22 1015	15mm	9x12	24.5	12	17.5
58 22 1016	16mm	9x12	26	12	17.5
58 22 1017	17mm	9x12	27	13	17.5
58 22 1018	18mm	9x12	28	13	17.5
58 22 1019	19mm	9x12	30.5	13	17.5
58 22 1021	21mm	9x12	33	15	17.5
58 22 1022	22mm	9x12	34.5	15	17.5

732a/10 - Ring Insert

Stock	Nut	Insert	b	h	S
Number	Size	Insert	mm	mm	mm
58 62 1016	1/4	9x12	13	8	17.5
58 62 1020	5/16	9x12	14.2	8	17.5
58 62 1024	3/8	9x12	17.2	9	17.5
58 62 1028	7/16	9x12	18.5	9	17.5
58 62 1032	1/2	9x12	21.5	11	17.5
58 62 1034	9/16	9x12	22.5	11	17.5
58 62 1036	5/8	9x12	26	12	17.5
58 62 1038	11/16	9x12	28	13	17.5
58 62 1040	3/4	9x12	30.5	13	17.5
58 62 1042	13/16	9x12	33	15	17.5
58 62 1044	7/8	9x12	34.5	15	17.5

732TX/10 - TORX Insert





Stock	Nut	lasent	b	h	S
Number	Size	Insert	mm	mm	mm
58 29 1006	E6	9x12	13	8	17.5
58 29 1008	E8	9x12	14.2	8	17.5
58 29 1010	E10	9x12	17.2	9	17.5
58 29 1012	E12	9x12	18.5	9	17.5
58 29 1014	E14	9x12	21.5	11	17.5





732G/10 - Ring Insert

Same extension length as Insert Tool No. 725L/5 and square-drive Insert Tool No. 734L/5. High performance steel with gunmetal finish.

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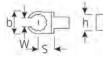
) h≹ 			C		
Stock	Nut	Insert	b	h	S
Number	Size	insert	mm	mm	mm
58 62 0007	7mm	9x12	11.5	6	45
58 62 0008	8mm	9x12	12.4	6	45
58 62 0009	9mm	9x12	14	8	45
58 62 1010	10mm	9x12	15.6	8	45
58 62 0013	13mm	9x12	19.3	9.2	45
58 62 0013 Warning: Refe	-	-		9.2	4

instructions for adjusting torque values.

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Stock Nut Insert b h							
Number	Size		mm	mm	mm		
58 62 1216	1/4	9x12	10.4	6	45		
58 62 1220	5/16	9x12	12.4	6	45		
58 62 1224	3/8	9x12	14.8	8	45		
58 62 1228	7/16	9x12	17	8	45		
58 62 1232	1/2	9x12	19	9.2	45		
58 62 1234	9/16	9x12	21	9.2	45		
58 62 1236	5/8	9x12	23	12	45		

732aG/10 - Ring Insert

733/10 - Open Ring Insert





Nut		b	h	W	S
Size	Insert	mm	mm	mm	mm
10mm	9x12	21.5	11	7.1	17.5
11mm	9x12	22.5	11	8.6	17.5
12mm	9x12	24.5	12	9	17.5
13mm	9x12	26	12	10	17.5
14mm	9x12	27	13	11	17.5
16mm	9x12	30.5	13	13	17.5
17mm	9x12	31.5	13	14	17.5
18mm	9x12	33	15	14.8	17.5
19mm	9x12	34	15	15.8	17.5
21mm	9x12	38.5	15	16.2	20*
22mm	9x12	39.5	15	17	20*
24mm	9x12	40	15	18	20*
	Size 10mm 11mm 12mm 13mm 14mm 16mm 17mm 18mm 19mm 21mm 22mm	Size Insert 10mm 9x12 11mm 9x12 12mm 9x12 13mm 9x12 14mm 9x12 14mm 9x12 14mm 9x12 16mm 9x12 17mm 9x12 18mm 9x12 19mm 9x12 21mm 9x12 22mm 9x12	Nice Insert mm 10mm 9x12 21.5 11mm 9x12 22.5 12mm 9x12 24.5 13mm 9x12 26 14mm 9x12 26 14mm 9x12 30.5 17mm 9x12 31.5 18mm 9x12 33 19mm 9x12 38.5 22mm 9x12 39.5	Nice Insert mm mm 10mm 9x12 21.5 11 11mm 9x12 24.5 12 12mm 9x12 24.5 12 13mm 9x12 24.5 12 13mm 9x12 26 12 14mm 9x12 27 13 16mm 9x12 30.5 13 17mm 9x12 31.5 13 18mm 9x12 33 15 19mm 9x12 38.5 15 21mm 9x12 39.5 15 22mm 9x12 39.5 15	Nice Insert mm mm mm 10mm 9x12 21.5 11 7.1 11mm 9x12 22.5 11 8.6 12mm 9x12 24.5 12 9 13mm 9x12 26 12 10 14mm 9x12 27 13 11 16mm 9x12 30.5 13 13 17mm 9x12 31.5 13 14 18mm 9x12 33 15 14.8 19mm 9x12 34 15 15.8 21mm 9x12 38.5 15 16.2 22mm 9x12 39.5 15 17

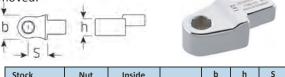
Warning: Refer to the manufacturers instructions for adjusting torque values.

733a/10 - Open Ring Insert

Stock	Nut	Incort	b	h	W	S
Number	Size	Insert	mm	mm	mm	mm
58 63 1024	3/8	9x12	21.5	11	7.1	17.5
58 63 1028	7/16	9x12	22.5	11	8.6	17.5
58 63 1032	1/2	9x12	26	12	9.5	17.5
58 63 1034	9/16	9x12	27.5	13	11	17.5
58 63 1036	5/8	9x12	30.5	13	12.7	17.5
56 63 1038	11/16	9x12	33	15	14	17.5
58 63 1040	3/4	9x12	34	15	15.8	17.5

736 - Bit Holder Insert

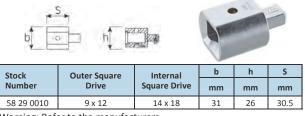
Internal hex drive with collar-thrust spring. Bits are easy to insert, lock securely in position and can be easily removed.



Stock	Nut	Inside	Incont	b	h	S
Number	Size	Diameter	Insert	mm	mm	mm
58 23 1010	10	D 8 (5/16)	9x12	16	12.5	17.5
58 26 2610	10.1	D 6.3 (1/4)	9x12	14	10	17.5

7370/10 - Adaptor

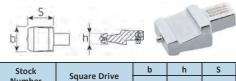
Use with insert tools with 14×18 mm outer square drive and/or on torque wrenches with an internal square drive of 9×12 mm.



Warning: Refer to the manufacturers instructions for adjusting torque values.

7370/10-2 - Adaptor

Use with lateral dovetail profile insert tools and/or torque wrenches with 9 x12 mm internal square drives.



Number	Square Drive	mm	mm	mm
58 29 0012	9 x 12	23.5	9.5	24
58 29 0042	14 x 18	31.5	9.5	34.6

Warning: Refer to the manufacturers instructions for adjusting torque values.

1820 - Tool Holder

Tool holder with tool carrier to receive insert/shell tools.

Stock	Drive	L	
Number	Drive	mm	Without Torque Function.
18 20 0001	9 x 12	490	



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725QR/20 - QuickRelease Ratchet

Reversible, with QuickRelease safety lock, 36 teeth.

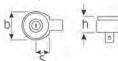
			Ĵ		0	-	P
Stock	Cine	Drive	Incont	b	h	S	Nm
Number	Size	Drive	Insert	mm	mm	mm	
58 2530 20	20	1/2	14 x 18	41	22.3	38.5*	200

Warning: Refer to the manufacturers instructions for adjusting torque values.

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735 - Ratchet Insert Tools - Fine Tooth

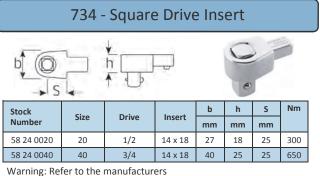
Reversible, 60 teeth





Stock	Size	Drive	Insert	b	h	S	Nm
Number				mm	mm	mm	
58 25 0020	20	1/2	14 x 18	43	26	25	302
58 25 0040	40	3/4	14 x 18	50	31.5	25	510
58 25 0065	40HD	3/4	14 x 18	58	36	30*	737

Warning: Refer to the manufacturers instructions for adjusting torque values.



STAHLWILLE Insert Tools.

instructions for adjusting torque values.



Nut

731/40 - Open Ended Insert

58 21 404141mm14 x 18Warning: Refer to the manufacturers

Stock

instructions for adjusting torque values.

731a/40 - Open Ended Insert

Stock	Nut	Insert	b	h	S
Number	Size	insert	mm	mm	mm
58 61 4028	7/16	14 x 18	30	7	25
58 61 4032	1/2	14 x 18	30	7	25
58 61 4034	9/16	14 x 18	35	8	25
58 61 4036	5/8	14 x 18	38	9	25
58 61 4038	11/16	14 x 18	42	10	25
58 61 4040	3/4	14 x 18	42	10	25
58 61 4042	13/16	14 x 18	50	11	25
58 61 4044	7/9	14 x 18	50	11	25
58 61 4046	15/16	14 x 18	53	12	25
58 61 4048	1	14 x 18	60	13	30*
58 61 4052	1-1/8	14 x 18	66	14	30*

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instructions for adjusting torque values.



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732/40 - Ring Insert



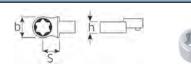
Stock	Nut	to cont	b	h	S
Number	Size	Insert	mm	mm	mm
58 22 4013	13mm	14 x 18	22.5	11	25
58 22 4014	14mm	14 x 18	23	11	25
58 22 4015	15mm	14 x 18	24	11	25
58 22 4016	16mm	14 x 18	25.5	12	25
58 22 4017	17mm	14 x 18	27	12	25
58 22 4018	18mm	14 x 18	29	13	25
58 22 4019	19mm	14 x 18	30.5	13	25
58 22 4021	21mm	14 x 18	33	15	25
58 22 4022	22mm	14 x 18	34.5	15	25
58 22 4024	24mm	14 x 18	37.5	15	25
58 22 4027	27mm	14 x 18	42.5	17	25
58 22 4028	28mm	14 x 18	45.5	19	25
58 22 4030	30mm	14 x 18	46	19	25
58 22 4032	32mm	14 x 18	47.5	19	25
58 22 4034	34mm	14 x 18	52	19	28*
58 22 4036	36mm	14 x 18	54	19	28*
58 22 4041	41mm	14 x 18	60	20	30*

Warning: Refer to the manufacturers instructions for adjusting torque values.

732a/40 - Ring Insert

Stock	Nut	Incent	b	h	S
Number	Size	Insert	mm	mm	mm
58 62 4032	1/2	14 x 18	22.5	11	25
59 62 4034	9/16	14 x 18	23	11	25
60 62 4036	5/8	14 x 18	25	12	25
61 62 4038	11/16	14 x 18	29	13	25
62 62 4040	3/4	14 x 18	30.5	13	25
63 62 4042	13/16	14 x 18	33	15	25
64 62 4044	7/8	14 x 18	34.5	15	25
65 62 4046	15/16	14 x 18	37.5	15	25
66 62 4048	1	14 x 18	41	17	25

732TH/40 - TORX[®] Insert



Stock Size		Insert	b	h	S
Number	Size insert		mm	mm	mm
58 29 4014	E14	14 X 18	22.5	11	25
58 29 4018	E18	14 X 18	24	11	25
58 29 4020	E20	14 X 18	29	13	25
58 29 4024	E24	14 X 18	30.5	13	25

7370/40-1 - Adaptor

For use with 24.5 x 28 mm internal square drive Shell Tools and/or Torque Wrenches with an internal square drive



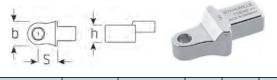
Warning: Refer to the manufacturers instructions for adjusting torque values.

Stock	Internal	Insert	L
Number	Square Drive	insert	mm
58 29 0041	14 x 18	24.5 x 28	66

736/40 - BIT Holder Insert

Internal hex drive with a collar-thrust spring. Bits are easy to insert, lock securely in position and can be easily removed.

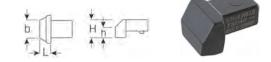
Warning: Refer to the manufacturers instructions for adjusting torque values.



Stock	Inside	Incort	b	h	S
Number	Diameter	mm	mm	mm	
58 26 1040	D 8 (5/16)	14 x 18	16	12.5	25

737/40 - Blank End Insert

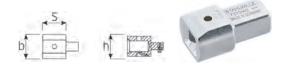
Gunmetal finish aids in preventing damage from excessive temperatures. The locking pin, spring and washer are not fitted until the welding work has been completed. Instructions supplied.



Stock	Welding Surface		н	L
Number	h x b mm	Insert	mm	mm
58 27 0010	8 x 14	9x12	14.5	8
58 27 0040	11 x 25	14 x 18	21.5	12

7370/40 - Adaptor

For use with Insert Tools with 9 x 12 mm outer square drive and/or on Torque Wenches with an internal square drive of 14 x 18 mm.

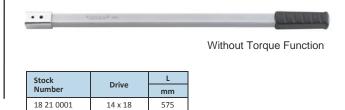


Warning: Refer to the manufacturers instructions for adjusting torque values.

Stock	Outer	Internal	b	h	S
Number	Square Drive	Square Drive	mm	mm	mm
58 27 0040	14 x 18	9 x 12	28	21	21.5

1821 - Tool Holder

Tool handle with tool carrier to receive insert/shell tools.



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Insert / Shell Tools



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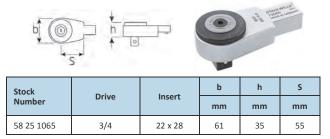
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735/65 - Ratchet Insert - Fine Tooth

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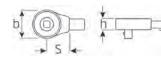
Reversible, 60 teeth.

Load capacity up to 650 Nm for size 65 torque wrenches.



735/100 - Ratchet Insert

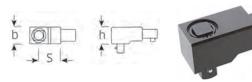
With push through square drive, 30 teeth





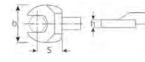
Stock	Drive	Incont	b	h	S
Number	Drive	Insert	mm	mm	mm
58 25 0100	3/4	22 x 28	76	42	55

734/100 - Square Drive Insert



Stock	Drive	Insert	b	h	S
Number	Drive	insert	mm	mm	mm
58 24 0100	3/4	22 x 28	43	42	55

731/100 – Open Ended Insert





Stock	Nut	lucent	b	h	S
Number	Size	Insert	mm	mm	mm
58 21 1024	24mm	22 x 28	50	13	55
58 21 1027	27mm	22 x 28	56	14	55
58 21 1030	30mm	22 x 28	63	15	55
58 21 1032	32mm	22 x 28	67	15	55
58 21 1034	34mm	22 x 28	72	15	55
58 21 1036	36mm	22 x 28	74	15	55
58 21 1041	41mm	22 x 28	84	16	55
58 21 1046	46mm	22 x 28	94	17	55
58 21 1050	50mm	22 x 28	104	18	55
58 21 1055	55mm	22 x 28	114	19	55
58 21 1060	60mm	22 x 28	124	20	55

732/100 - Ring Insert b h Stock Nut Insert Number Size mm mm mm 58 22 1024 24mm 22 x 28 43 15 55 59 22 1027 27mm 22 x 29 43 15 55 60 22 1030 22 x 30 30mm 46 16 55 61 22 1032 22 x 31 49 16 55 32mm 62 22 1034 22 x 32 52 17 55 34mm 63 22 1036 36mm 22 x 33 54 17 55 64 22 1041 22 x 34 18 41mm 61 55 65 22 1046 46mm 22 x 35 66 19 55 66 22 1050 50mm 22 x 36 75 20 55

 67 22 1055
 55mm
 22 x 37
 84

 68 22 1060
 60mm
 22 x 38
 93

 Warning: Refer to the manufacturers

instructions for adjusting torque values.

737/100 - Blank End Insert

Gunmetal finish aids in preventing damage from excessive temperatures. The locking pin, spring and washer are not fitted until the welding work has been completed. Instructions supplied.

b A L		<u>_</u>		Articles and	ANT .
Stock	Welding Surface		Н	L	
Number	er h x b Ins (mm)	Insert	mm	mm	
58 27 0100	15 x 50	22 x 28	32	24]

7370/100 - Adaptor

For use with 24.5 x 28 mm internal square drive Shell Tools and/or Torque Wrenches with an internal square drive of 22 x 28 mm.

Warning: Refer to the manufacturers instructions for adjusting torque values.



Stock	Internal	Internal	L	S
Number	Square Drive	Square Drive	mm	mm
58 29 1100	22 x 28	24.5 x 28	85	100

735/80 - Ratchet Shell

Ratchet shell with push through square drive, 30 teeth.

		- 1961 - D
b OI	h 35	
- s	de - ce	
5		

Stock			b	h	S
Number	Drive	Insert	mm	mm	mm
58 25 0080	3/4	22 x 28	76	43	95

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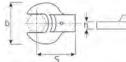




	734/80 - Square Drive Shell							
	• h - ↓	<u>35</u> ↑	0					
Stock			b	h	S			

Number	Drive	Insert	mm	mm	mm
58 24 0080	3/4	24.5 x 28	42	42	95
					-

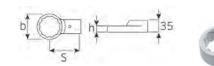
731/80 - Open Ended Shell





Stock	Nut	Insert	b	h	S
Number	Size	insert	mm	mm	mm
58 21 8024	24mm	24.5 X 28	50	13	95
58 21 8027	27mm	24.5 X 28	56	14	95
58 21 8030	30mm	24.5 X 28	63	15	95
58 21 8032	32mm	24.5 X 28	67	15	95
58 21 8034	34mm	24.5 X 28	72	15	95
58 21 8036	36mm	24.5 X 28	74	15	95
58 21 8041	41mm	24.5 X 28	84	16	95
58 21 8046	46mm	24.5 X 28	94	17	95
58 21 8050	50mm	24.5 X 28	104	18	95
58 21 8055	55mm	24.5 X 28	114	19	95
58 21 8060	60mm	24.5 X 28	124	20	95

732/80 - Ring Shell



Stock	Nut	Insert	b	h	S
Number	Size	Insert	mm	mm	mm
58 22 8024	24mm	24.5 X 28	36	15	95
58 22 8027	27mm	24.5 X 28	40.5	15	95
58 22 8030	30mm	24.5 X 28	46	16	95
5822 8032	32mm	24.5 X 28	49	16	95
58 22 8034	34mm	24.5 X 28	52	17	95
58 22 8036	36mm	24.5 X 28	54	17	95
58 22 8041	41mm	24.5 X 28	61	18	95
58 22 8046	46mm	24.5 X 28	66	19	95
58 22 8050	50mm	24.5 X 28	75	20	95
58 22 8055	55mm	24.5 X 28	84	21	95
58 22 8060	60mm	24.5 X 28	93	22	95

732a/80 - Ring Shell

Stock	Nut	Insert	b	h	S
Number Size		msert	mm	mm	mm
58 62 8046	15/16	24.5 x 28	36	14	95
58 62 8050	1-1/16	24.5 x 28	40.5	14	95

7370/80 - Shell Adaptor

b

For attaching 14 x 18mm insert tools.



Warning: Refer to the manufacturers instructions for adjusting torque values.

Stock	Internal Internal		b	h	S
Number	Square Drive	Square Drive	mm	mm	mm
58 29 0080	24.5 x 28	14 x 18	36	26	70

1822 - Tool Holder

Told holder with tool carrier to receive insert/shell tools.

-			The bost state
Stock	D. i	L	
Number	Drive	mm	Without Torque Function.
18 22 0003	24.5 x 28	1000	

540a HD - Crow-Foot Spanners

- For particularly high loadings, i.e., stainless steel screw fittings.
- Full use with jaws in conjunction with standard ratchets.
- Warning: Refer to the manufacturers instructions for adjusting torque values.



Stock	Nut	Insert	L	b	а	S
Number	Size	Insert	mm	mm	mm	mm
02 50 1034	9/16	3/8	43.4	32	11	26.8
02 50 1036	5/8	3/8	45	34.8	11	27.7
02 50 1038	11/16	3/8	47.2	38	11	28.6
02 50 1042	13/16	3/8	51	46.4	11	30.5
02 50 1044	7/8	3/8	52	48	11	31.3
02 50 1046	15/16	3/8	54	51.2	11	32.3
02 50 1048	1	3/8	56	53.4	11	33.2
02 50 1050	1-1/16	3/8	57	53.8	11	34.1
02 50 1052	1-1/8	3/8	59	53.8	11	35
02 50 1056	1-1/4	3/8	62	60	11	36.8
02 50 1062	1-17/16	3/8	66.5	66	11	39.6
02 50 1064	1-1/2	1/2	76	70	16	45
02 50 1069	1-13/16	1/2	85	84	16	49.6
02 50 1072	2	1/2	89	90	16	52.3
02 50 1074	2j-1/8	1/2	91.5	92.8	16	54.2
02 50 1075	2-3/16	1/2	93	96	16	55.1
02 50 1076	2-1/4	1/2	95	99	16	56

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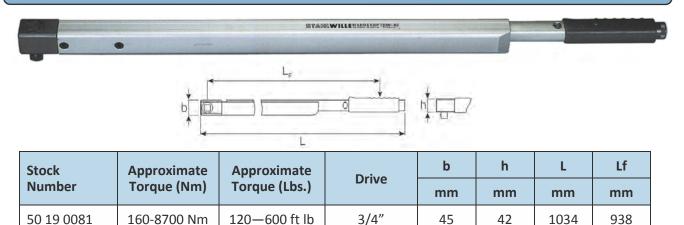
VSTAHLWILLEI Fixed Torque Wrenches

Standard MANOSKOP® 720Nf/721Nf

- Click-type
- Easy setting
- Dual stop signal
- Twin scales N-m/ft-lb
- Anticlockwise torqueing thanks to swap-over square drive.

- All the sensitive components are protected by the sturdy tubular U-shaped aluminum profile steel housing.
- Calibration using PerfectControl Calibrating Unit No. 7794 or Calibration System No. 7706.
- Adjustment without disassembly.
- With torque calibration certificate.
- Display deviation value ±4%.

720Nf/80 Standard MANOSKOP Torque Wrench



721Nf Standard MANOSKOP Torque Wrench



	721Nf Standard Manoskop Torque Wrench Specifications				(b _t)	L _E		, tr	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Stock Number	Size	Approximate Torque (Nm)	Approximate Torque (Lbs.)	Drive	b1 mm	b2 mm	h mm	L mm	Lf mm
50 20 00 81	80	160 - 800 Nm	12 - 600 ft lb	3/4"	46.5	76	42	1051	938
96 50 20 01	100	200 - 1000 Nm	150 - 725 ft lb	3/4"	46.5	76	42	1504	1365



Torque Tools

WILLIAMS

ARNING



TORQUE MULTIPLIER: PLANETARY-GEAR MECHANISM

Features

Г

- Designed where high torques are necessary for fastening or breaking out stubborn fasteners.
- Allows operator safe and easy means of producing torque for job requirements.
- Precision planetary gear multiplies the operator's input from standard torque wrenches.
- Can also multiply the torque from air-driven (non-impact) wrenches.

то	TORQUE MULTIPLIERS: PLANETARY-GEAR MECHANISM SPECIFICATIONS										
Stock Number	Max Output (Ft. Lbs.)	Input Cap.	Gear Ratio	Torque Ratio	Input Female Sq.	Output Sq. Size	Overall Length	Square to Top	Head Dia.		
TM-290	750	227	4:1	3:3:1	1/2	3/4	8-1/2	3-1/4	2-13/16		
TM-391	1200	200	6:3:1	6:0:1	1/2	3/4	19-39/64	4	3-15/16		
TM-392	2200	162	15:0:1	13:6:1	1/2	1	19-39/64	5-3/4	4-1/16		
TM-393	3200	173	20:25:1	18:5:1	1/2	1	19-39/64	6-1/2	4-1/16		



MICROMETER ADJUSTABLE TORQUE WRENCHES - DUAL SCALE

FEATURES

- Dual scale, calibrated dual direction.
- Positive lock with spring loaded pull down lock ring.
- Fast, accurate and easy to set.
- Easy-to-read laser marked scale.
- Most feature quick release buttons which provide good socket retention as well as easy socket removal.
- Ergonomic comfort-grip handle.
- Accuracy: ± 3% CW ± 5% CCW of indicated value, CW, from 20% to 100% of full scale.
- Meets or exceeds ASME standards, ISO 6789 standards.
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.





MICROMETER ADJUSTABLE TORQUE WRENCH SECIFICATIONS									
Product Code	Drive Size	English Range	Incr.	Nm Range	Incr.	A In.	B In.	C In.	D In.
1501MRPH	1/4″	20-150 in. lbs.	1	2.8 - 15.3	.12	10.00	1.06	.93	1.06
2502MRPH	3/8″	30-250 in. lbs.	1	4.0 - 27.7	.12	11.25	1.06	1.06	1.06
10002MRPH	3/8″	150-1000 in. lbs.	5	19.8 - 110.2	.60	16.00	1.43	1.20	1.40
1002MFRPH	3/8″	10-100 ft. lbs.	1	16.9 - 132.2	.70	16.00	1.43	1.20	1.40
1503MFRPH	1/2″	20-150 ft. lbs.	1	34 - 197	1.4	19.00	1.70	1.40	1.40
2503MFRPH	1/2″	30-250 ft. lbs.	1	47 - 332	1.4	24.40	1.70	1.40	1.40
6004MFRPH	3/4″	100-600 ft. lbs.	5	169 - 779	6.8	42.00	2.50	2.10	1.40





Torque Multipliers



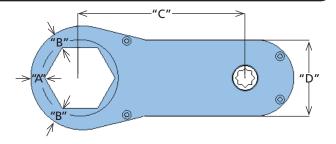
The Norwolf Missing Link[™] Torque Multiplier fits into tightly confined areas where sockets will not fit. The Missing Link has become standard in the wind industry for generator feet and yaw pucks.



MISSING LINK[™] TC SERIES TORQUE MULTIPLIER SPECIFICATIONS

MISSING LINK 1/2" DRIVE, 4:1 RATIO										
MAX.: 340 NEW	MAX.: 340 NEWTON METERS IN / 1360 NEWTON METERS OUTPUT									
Stock No.	Hex	"A"	"B"	"C"	"D"	"E"	"F"			
TC-050-4-1-22MM	22 MM	13.5	15.1	151	70	222	32			
TC-050-4-1-24MM	24 MM	12.0	13.5	151	70	222	32			
TC-050-4-1-27MM	27 MM	11.1	12.7	151	70	222	32			
TC-050-4-1-30MM	30 MM	12.0	13.5	151	70	226	32			
TC-050-4-1-32MM	32 MM	11.1	12.7	151	70	226	32			
TC-050-4-1-36MM	36 MM	11.1	12.7	151	70	228	32			
TC-050-4-1-41MM	41 MM	11.1	12.7	151	70	231	32			
TC-050-4-1-46MM	46 MM	11.1	12.7	151	70	234	32			
TC-050-4-1-50MM	50 MM	11.1	12.7	151	70	236	32			
TC-050-4-1-55MM	55 MM	11.1	12.7	151	70	239	32			
TC-050-4-1-60MM	60 MM	11.1	12.7	151	70	242	32			

MISSING LINK 3/4" DRIVE, 4:1 RATIO									
MAXIMUM: 815 NEWTON METERS IN / 3260 NEWTON METERS OUT									
Stock No.	Hex	"A"	"B"	"C"	"D"	"E"	"F"		
TC-075-4-1-22MM	22 MM	21.3	23.6	212	95	309	45		
TC-075-4-1-24MM	24 MM	20.3	22.6	212	95	309	45		
TC-075-4-1-27MM	27 MM	18.8	21.1	212	95	309	45		
TC-075-4-1-30MM	30 MM	17.3	19.6	212	95	309	45		
TC-075-4-1-32MM	32 MM	16.3	18.6	212	95	309	45		
TC-075-4-1-36MM	36 MM	14.3	16.6	212	95	309	45		
TC-075-4-1-41MM	41 MM	14.3	16.6	212	95	312	45		
TC-075-4-1-46MM	46 MM	14.3	16.6	212	95	315	45		
TC-075-4-1-50MM	50 MM	14.3	16.6	212	95	317	45		
TC-075-4-1-55MM	55 MM	14.3	16.6	212	95	320	45		
TC-075-4-1-60MM	60 MM	14.3	16.6	212	95	323	45		
TC-075-4-1-65MM	65MM	14.3	16.6	212	95	325	45		
TC-075-4-1-70MM	70MM	14.3	16.6	212	95	328	45		
TC-075-4-1-75MM	75MM	14.3	16.6	212	95	331	45		
TC-075-4-1-80MM	80MM	14.3	16.6	212	95	334	45		





MISSING LINK 3/4" DRIVE, 6:1 RATIO									
MAXIMUM: 815 NEWTON METERS IN / 4890 NEWTON METERS OUT									
Stock No.	Hex	"A"	"B"	"C"	"D"	"E"	"F"		
TC-075-6-1-32MM	32MM	23.3	25.6	355	102	476	45		
TC-075-6-1-36MM	36MM	21.3	23.6	355	102	476	45		
TC-075-6-1-41MM	41MM	18.8	21.1	355	102	476	45		
TC-075-6-1-46MM	46MM	16.3	18.6	355	102	476	45		
TC-075-6-1-50MM	50MM	14.3	16.6	355	102	476	45		
TC-075-6-1-55MM	55MM	14.3	16.6	355	102	479	45		
TC-075-6-1-60MM	60MM	14.3	16.6	355	102	481	45		
TC-075-6-1-65MM	65MM	14.3	16.6	355	102	484	45		
TC-075-6-1-70MM	70MM	14.3	16.6	355	102	487	45		
TC-075-6-1-75MM	75MM	14.3	16.6	355	102	490	45		
TC-075-6-1-80MM	80MM	14.3	16.6	355	102	493	45		
TC-075-6-1-90MM	90MM	14.3	16.6	355	102	498	45		
TC-075-6-1-100MM	100MM	14.3	16.6	355	102	504	45		



AIMCO - ACRADYNE® High Torque Tools





STRAIGHT LEVER TYPE AES SERIES

Features and Benefits

Critical high torque assembly applications demand tools that will deliver torque with superior performance and durability. The precision design of the HT Series from AcraDyne combines these features in an electric tool that beats the competition for productivity and ergonomics.

AcraDyne's transducer torque control system provides consistent, reliable torque values as well as the ability to monitor rotational angle during the tightening process.

When combined with AcraDyne's Tool Controllers, customers have a high torque assembly system that can handle the most demanding and important fastening jobs with the ease and accuracy they demand.

- Faster Free Speed.
 Up to three times faster than the competition.
- Accurate built-in transducer ensures that torque values are accurate - no "guestimates".
- Closed Loop Torque Control System.
- Interchangeable Tools, Cables and Controllers.
- Calibrations are specific to the tool, not the system as a whole.
- Universal Controller for all AcraDyne tools.
- On-tool LED's for Accept / Reject signals.
- CE Compliant.
- Engineered and MADE IN THE USA.



Torque Wrenches - ACRADYNE®



ACRADYNE® HT Series - Specifications











STOCK NO.	SERIES	APPROX	. TORQUE	APPROX. SPEED	WEIG	GHT	LEN	GTH	D	IA.	DRIVE	SOUND LEVEL
	•===•	Nm	Ft-lbs.	rpm	kg	lbs.	mm	inches	mm	inches	inches	dB(A)
()4B66500B	6000	500	370	120	5.7	12.5	299	11.8	66	2.6	.75	66
()4B66750B	6000	750	550	85	5.7	12.5	299	11.8	66	2.6	.75	66
()4B771000B	7000	1000	750	65	5.7	12.5	292	11.5	76	3	1	66
()4B772500B	7000	2500	1850	25	8.1	18	328	12.9	76	3	1	66
()4W872800B	7000	2800	2065	9	8.1	18	328	12.9	76	3	1	66
()4B884100B1	8000	4100	3000	12	12.3	27	376	14.8	86	3.6	1	66
()4B884100B	8000	4100	3000	12	12.3	27	376	14.8	86	3.6	1.5	66
()4W884650B	8000	4650	3430	9	12.3	27	376	14.8	86	3.6	1.5	66
()4W896500B	9000	6500	4800	7	15	33	457	18	101	4	1.5	66
()4B898100B*	9000	8100	6000	5	15	33	457	18	101	4	1.5	66

You must specify handle type as part of the stock number. Example: (AEP) 4B66500A

*Under development.

ACRADYNE[®] HT Series - Controller



- Data Storage: Up to 2,040 rundowns stored on board.
- Firmware: Custom-designed operating system means no licensing fees.
- Parameter Set Select and Indication: Change between 32 jobs with one touch.
- Tool Calibration Routines: Stores the calibration directly in the tool's memory for easy plug and play into any HT Series Controller.
- Programmable Calibration and Service Interval Alerts: Configure alerts to indicate when service or calibration is due for a tool, based on the number of cycles or months, since the last service or calibration.
- Real time Clock: For time and date stamping rundown information and other logged data.
- Graphing Capabilities: To track and monitor tightening strategies.
- Multiple Fastening Strategies: Program up to 32 parameter sets to handle 32 different torques and joint types.

STOCK NO.	DESCRIPTION
IEC31W-110V	Field use controller for use with 110VAC input power
IEC31W-220V	Field use controller for use with 220VAC input power



ACRADYNE® Accessories

Cables

Newly designed, robust cable and connectors for excellent ergonomics, maximum-quality signal transfer and CE compliance.

Stock No.	Length
24330	3 meters
25350	5 meters
24320	10 meters



Breakaway Cable Connector



Ensures disconnect of cable should stress in excess of 40 lbs. occur. Stock Number: 25491

Reaction Bars

Stock No.	Description
26810	Single Ended, Flat, 6000 series
26815	Single Ended, Std. Offset, 6000 series
26885	Single Ended, Deep Offset. 6000 series
26830	Double Ended, Flat, 6000 series
26835	Double Ended, Std. Offset, 6000 series
26800	Single Ended, Flat 7000 series
26805	Single Ended, Std. Offset, 7000 series
26890	Single Ended, Deep Offset, 7000 series
26820	Double Ended, Flat, 7000 series
26825	Double Ended, Std. Offset, 7000 series
25277	Single Ended, Flat, 8000 series
25274	Single-Ended, 3.35" Offset, 8000 series
25275	Single-Ended, 4.00" Offset, 8000 series
25278	Double Ended, Flat, 8000 series
25276	Double Ended, 3.35" Offset, 8000 series

Each tool includes a standard spline-attachment reaction bar.

Custom reaction bars are also available; contact your Lift-It[®] sales representative for additional details.



Custom Accessories

contact	Stock No.	Description
	26477	Swivel Bail - 6000 series
	26478	Swivel "D" Handle - 6000 series
	26479	Stationary Bail - 6000 series
	26337	Rear Fixed Hoist Ring Sub-Assy 6000
	26327	Swivel Bail - 7000 series
	26328	Swivel "D" Handle - 7000 series
	26336	Fixed Handle Sub – Assy 7000 series
	26337	Rear Fixed Hoist Ring Sub-Assy 7000
	25291	Swivel Handle - 8000 series
	25287	Swivel Bail Hoist - 8000 series
	25497	Rear Fixed Hoist Ring - 8000 series
	25289	Fixed Hoist (handle not included) 8000
	25280	Auxiliary Handle - 8000 series

Custom accessories are available for your application; co your Lift-It[®] sales representative for additional details.

SWIVEL HANDLE



HOIST RING



SWIVEL BAIL



FIXED HANDLE



26478	Swivel "D" Handle - 6000 series
26479	Stationary Bail - 6000 series
26337	Rear Fixed Hoist Ring Sub-Assy 6000
26327	Swivel Bail - 7000 series
26328	Swivel "D" Handle - 7000 series
26336	Fixed Handle Sub – Assy 7000 series
26337	Rear Fixed Hoist Ring Sub-Assy 7000
25291	Swivel Handle - 8000 series
25287	Swivel Bail Hoist - 8000 series
25497	Rear Fixed Hoist Ring - 8000 series
25289	Fixed Hoist (handle not included) 8000
25280	Auxiliary Handle - 8000 series

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www.lift-it.com

Extension Cords



Features:

- All-purpose, portable outdoor extension cords stay flexible even under the most extreme temperatures.
- Rugged T*Prene insulation provides resistance to abrasion, ozone, oil, grease and chemical degradation.
- Outer jacket is flame retardant and water resistant.
- Power indicator light in the female receptacle to indicate that power is on.

Applications:

Industrial and construction job site power when durable extension cords are required.

Industry Approvals:

- UL Listed
- Meets OSHA requirements for outdoor use.





Extension Cord Specifications

- Attachment plug configuration: NEMA 5-15P
- Cord connector configuration: NEMA 5-15R
- Plug and connector material: Clear PVC.
- Neon power indicator lamp in the cord connector.
- Nominal operating voltage: 125 VAC

Note: 10/3 gauge is recommended for 100' lengths.

Stock No.	Gauge	Length	Conductor	Cable O.D.	Current Rating
01294		10 ft			
01297	16/2	25 ft		216 in	13A
01298	16/3	50 ft	26/30 BC	.316 in	
01299		100 ft			10A
01497		25 ft			1
01498	14/3	50 ft	41/30 BC	.352 in	15A
01499		100 ft			13A
01697		25 ft			
01698	12/3	50 ft	65/30 BC	65/30 BC .420 in	
01699		100 ft			15A
01798	10/3	50 ft	104/30 BC	.567 in	
01799	10/3	100 ft	104/30 BC	.507 10	



Tensioning Tools



<u>AISEN</u>

ITH was the first manufacturer who introduced friction-free tightening of wind turbine bolts via the ITH-Stretch-Method.

The ITH-Stretch-Method is now used by nearly every wind turbine manufacturer. The compact design of the single stage **(ES)** and multi-stage **(MS)** bolt tensioning cylinders improves assembly time, saving time and money.

For over 20 years, ITH has provided customized solutions for wind power applications, such as, a robotic tensioner, multi-tensioning system for blade bearings, etc.

Standard features:

- Patented safety fracture device
- Automatic piston return
- Exchangeable change bushing/turning sleeve
- Measurement hole for bolt elongation
- · Direct gear drive to tighten the nut
- Spring loaded turning sleeve
- Stroke limitation
- · Control notch for nut

Optional features:

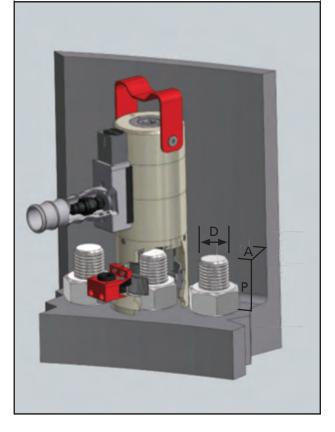
- Patented cycle counter
- Chrome-Nickel surface coating NIOX
- Patented safety carrying handle
- Safety measuring pin for thread projection
- Swivel-Connector for High Pressure Nipple
- Multi-Tensioning High-Pressure-Connector



Multi-Stage Bolt Tensioning Cylinders

Model MS - Bolt quality 10.9

MS multistage bolt tensioning cylinders are used in tight radial conditions.



Stock Number	Thread Size (D)	Assembly Dimension (A)	Thread Projection (P)
MS 30	M30	36 mm	60 mm
MS 33	M33	39 mm	65 mm
MS 36	M36	42 mm	70 mm
MS 39	M39	46 mm	80 mm
MS 42	M42	50 mm	85 mm
MS 45	M45	55 mm	90 mm
MS 48	M48	57 mm	100 mm
MS 52	M52	62.5 mm	105 mm
MS 56	M56	66.5 mm	110 mm
MS 60	M60	68 mm	120 mm
MS 64	M64	70 mm	130 mm

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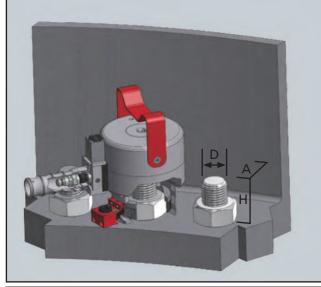
Tensioning Tools



Model ES

Single Stage Bolt Tensioning Cylinders Bolt quality 10.9

ES single stage bolt tensioning cylinders are used in tight axial space conditions.



Stock No.	Thread Size (D)	Assembly Dimension (A)	Thread Projection (H)
ES 30	M30	49 mm	60 mm
ES 33	M33	54 mm	65 mm
ES 36	M36	59 mm	70 mm
ES 39	M39	64 mm	80 mm
ES 42	M42	69 mm	85 mm
ES 45	M45	74 mm	90 mm
ES 48	M48	79 mm	100 mm
ES 56	M52	90 mm	105 mm
ES 64	M64	106 mm	110 mm

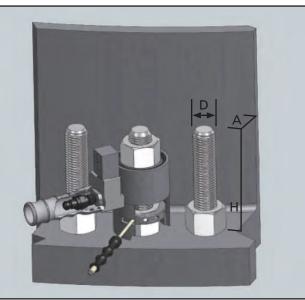


Blade bearing connection using ITH-Multi-tensioning system

Single Stage Bolt Tensioning Cylinders for Foundation Bolts

ESH

The ESH is a drop over design used on special tie-rod bolts.



Stock No.	Thread Description (D)	Strength (kN/ lbs.)	Stroke (mm)	Assy. Dimension (A)	Thread Projection (H)
ESH 3457	10", 11" (1.5") Grade 75 ksi	360 kN 80,931 lbs.	15	42 mm	205 mm
ESH 3459	10", 11" (M 39) Grade 75 ksi	550 kN 123,644lbs.	12	50 mm	205 mm
ESH 3463	10", 11" (M 39) Grade 75 ksi	550 kN 123,644 lbs.	25	50 mm	240 mm
ESH 3561	10", 11" (M 39) Grade 75 ksi	800 kN 179,847 lbs.	15	58 mm	205 mm
ESH 3563	10", 11" (M 39) Grade 150 ksi	800 kN 179,847 lbs.	25	58 mm	240 mm
ESH 3454	M36	540 kN 121,396 lbs.	16	42 mm	170 mm

Foundation connection





Milwaukee® High Torque Wrench Features:

- Superior performance: Delivers up to 700 ft-lbs of max fastening torque, up to 1,100 ft-lbs of nut-busting torque and up to 2X more run time.
- POWERSTATE[™] Brushless Motor: Out powers competitors yet runs cooler with no wearable components.
- REDLINK PLUS[™] Intelligence: Allows the operator to choose between 2 fastening modes with Milwaukee[®] proprietary DRIVE CONTROL[™] feature.
 Mode 1 delivers up to 375 ft-lbs and Mode 2 up to 750 ft-lbs maximum fastening torque.
- REDLITHIUM[™] XC 4.0 Battery Pack: Provides superior pack construction, electronics and performance to deliver 2X more runtime.
- 3/4" Anvil with friction ring for fast, easy socket changes.

M18 FUEL[™] 1/2" High-Torque Impact Wrench



Specifications				
Voltage	18V			
Battery	M18™ REDLITHIUM™ XC4.0			
Charger	M18™ and M12™ Multi-Voltage Charger			
LED Light	YES			
Electric Brake	YES			
Switch Type	Variable Speed Trigger			
Anvil Size and Type	1/2" Square - Friction Ring			
Torque	100 ft-lbs (Mode 1) 700 ft-lbs (Mode 2)			
Nut-Busting Torque	1,100 ft-lbs.			

M18 FUEL[™] 3/4" High-Torque Impact Wrench

Specifications			
Voltage	18V		
Battery	M18 [™]		
Chargor	M18™ and M12™		
Charger	Multi-Voltage Charger		
LED Light	YES		
Electric Brake	YES		
Switch Type	Variable Speed Trigger		
Anvil Size and Type	3/4" Square - Friction Ring		
Allvii Size allu Type	with Thru Hole		
-	375 ft-lbs (Mode 1)		
Torque	750 ft-lbs (Mode 2)		
Nut-Busting Torque	1,200 ft-lbs.		







TW1000 - 1" Impact Wrench



- Powerful 738 ft. lbs. torque and large square drive capacity (1") for heavy-duty applications.
- Efficient impact system (1,500 IPM) with less vibration.
- Durable gear housing protected with rubber boot.
- Rocker type forward and reverse switch for one-handed operation.
- Externally accessible brushes and ball bearings for longer tool life.
- Ergonomically designed rubberized grip for more comfort, control and reduced operator fatigue.
- Side handle rotates 360° for operator convenience.
- Conveniently located sky hook for continuous use or for convenient storage.
- 8.4 ft. double insulated cord for user convenience.
- Friction ring anvil with retaining ring hole for secure socket retention.



Impact Wrench Specifications				
Square Drive	1 inch			
No Load Speed	1,400 RPM			
Impact per Minute	1,500			
Maximum Torque	738 ft.lbs. (1,000 Nm)			
AMPS (120V)	12			
Length	15"			
Net Weight	18.5 lbs.			
Shipping Weight	28.6 lbs.			

Impact Wrench Extensions



3-7/8" Extension Bar

Stock No. 785214-9

*For 1" Impact Wrench



WARNING	
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IMPACT SOCKETS	SCREWDRIVERS AND NUT DRIVERS			
 Users and bystanders must wear safety goggles. To avoid possible eye injury from flying objects, safety goggles or equivalent protection conforming to ANSI Z87.1 shall be worn and kept clean by the user and all persons in the immediate area where any tool is being used. Do not hold impact sockets, universal joints or extensions while an impact tool is running. Serious hand injury can occur. 3/4" drive and larger drive size impact sockets require the use of a Ret Ring[®] or a Pin & O-ring to secure the socket to the driving square. Never use a nail or homemade pin for holding a socket in place. Never exceed the manufacturer's gun pressure rating. Impact sockets are to be used to turn (tighten or loosen) fasteners while being driven by a power, impact or hydraulic driver. Never dwell on a socket after it has stopped running. This can damage both the socket and the fastener. 	 Users and bystanders must wear safety goggles. To avoid possible eye injury from flying objects safety goggles or equivalent protection conforming ANSI Z87.1 shall be worn and kept clean by the user at all persons in the immediate area where any tool is betweed. Comfort or plastic grips on handles are not intendent to give any degree of protection against electric shows Screwdrivers and nut drivers shall not be used on or n live electric circuits. Users shall apply a controlled force with a stance adjust and braced to prevent rapid bodily movement or a if sudden release occurs. Minimize pressure. Screws driven by torque (turning power), not pressure. Match the type of screwdriver to the head of the scr and select the appropriate size screwdriver to do the just on select the appropriate size screwdriver to change the fit. Use the correct size nutdriver to fit the fastener. Do use inch nut drivers on metric fasteners or metric drivers on inch fasteners because the fit is not go enough. 			
hydraulic driver.Never dwell on a socket after it has stopped running. This can damage both the socket and the fastener.Place the socket all the way on the fastener before	 Never sharpen or alter a screwdriver to change the fit. Use the correct size nutdriver to fit the fastener. Do no use inch nut drivers on metric fasteners or metric nu drivers on inch fasteners because the fit is not good enough. Never use a screwdriver or nut driver for prying, punching chiseling, scoring or scraping. Never hammer on screwdrivers or nut drivers and neve use a screwdriver or a nutdriver as a hammer. Never use cheater bars to increase handle leverage. 			
 on inch fasteners or inch sockets on metric fasteners, because the fit is not good enough. Do not use hex sockets on square fasteners or square sockets on hex fasteners. Never use sockets as a driver for hex or square bits or shafts. Large drive impact sockets are inherently heavy and care needs to be taken during handling. Socket opening configurations shall be inspected before 	 Never expose any screwdriver or nut driver to excessiv heat, which may change the hardness or microstructur and ruin the tool. Never use pliers on the handle of a screwdriver or nutdriver to get extra turning power. A wrench can b used on the square shank or bolster of screwdriver designed for that purpose. Keep handles clean for a secure grip. 			
 Socket opening configurations shall be inspected before each use and their use discontinued at the first sign of significant wrenching surface deterioration. Inspect and discard worn or cracked sockets. ASME B107.110 – Socket Wrenches ASME B107.300 – Torque Instruments 	 Inspect and discard bent, worn, cracked or damager screwdrivers or nut drivers. Do not grind or attempt to repair screwdrivers. ASME B107.110 – Nut drivers ASME B107.600 – Screwdrivers 			
	RNING Ret Bing® when DO NOT use any tool use any tool uses you are			

909.469.2251

Hand use only. Not for impact use.

32

Always use a Ret Ring® when

working with impact products.

DO NOT use any tool use any tool unless you are

absolutely sure of what you are doing. Improper use may result in INJURY or DEATH.

Safety Information



FLAT WRENCHES

- Users and bystanders must wear safety goggles.
- To avoid possible eye injury from flying objects, safety goggles or equivalent protection conforming to ANSI Z87.1 shall be worn and kept clean by the user and all persons in the immediate area where any tool is being used.
- Comfort or plastic grips on handles are not intended to give any degree of protection against electric shock and shall not be used on or near live electric circuits.
- Wrenches are to be used by hand only. Do not use cheater bars or any other means of increasing leverage. The only wrenches that can be struck with a hammer are striking wrenches.
- Never use wrenches for prying or as a hammer.
- Never expose any wrench to excessive heat, which may change the hardness or microstructure and ruin the tool.
- Wrenches are to be used to turn (tighten and loosen) fasteners.
- Users shall apply a controlled force with a stance adjusted and braced to prevent rapid bodily movement or a fall if sudden release occurs.
- Use the correct size wrench. Do not use metric wrenches on inch fasteners or inch wrenches on metric fasteners, because the fit is not good enough.
- Always be sure to fully seat an open-end wrench on the nut or bolt.
- Adjustable wrenches need to be tightly adjusted to fit the nut with the force applied to the fixed jaw. Never use adjustable wrenches for the initial breaking loose of a "frozen" fastener or for final tightening.
- Pipe wrenches are designed to turn or hold pipe; never use a pipe wrench to bend, raise or lift a pipe. Do not use pipe wrenches on square stock.
- Inspect each pipe wrench or adjustable wrench before use for worn or broken teeth, thumbscrews or jaws and discard if deteriorated.
- Inspect and discard bent, worn or cracked wrenches.
- Wrench opening configurations shall be inspected before each use and their use discontinued at the first sign of significant wrenching surface deterioration.
- Wrenches shall not be used when jaws are sprung to the point slippage may occur.

ASME B107.100 – Flat Wrenches

HAND SOCKETS, HANDLES & ATTACHMENTS

- Users and bystanders must wear safety goggles.
- To avoid possible eye injury from flying objects, safety goggles or equivalent protection conforming to ANSI Z87.1 shall be worn and kept clean by the user and all persons in the immediate area where any tool is being used.
- Comfort or plastic grips on handles are not intended to give any degree of protection against electric shock and shall not be used on or near live electric circuits.
- Never use hand sockets or hand attachments on power drivers, impact drivers or hydraulic drivers. Black industrial sockets, Torx[®] sockets and Torx[®] bit sockets are designed and finished to be hand sockets – not impact.
- Never use cheater bars to increase handle leverage.
- Never hammer on a ratchet or handle.
- Never use ratchets or other handles as a hammer or pry bar.
- Hand sockets are to be attached to ratchets and handles and used by hand to turn fasteners.
- Users shall apply a controlled force with a stance adjusted and braced to prevent rapid bodily movement or a fall if sudden release occurs.
- Use the correct size socket, do not use metric sockets on inch fasteners or inch sockets on metric fasteners, because the fit is not good enough. Do not use hex sockets on square fasteners or square sockets on hex fasteners.
- Place the socket all the way on the fastener.
- Adaptor strength is limited to the smallest drive square member.
- Never use sockets as a driver for hex or square bits or shafts.
- Inspect and discard bent, worn or cracked sockets, handles or attachments.
- Socket opening configurations shall be inspected before each use and their use discontinued at the first sign of significant wrenching surface deterioration.

ASME B107.110 – Socket Wrenches

HEX KEYS – ASME B18.3.2M – HEXAGON KEYS AND BITS

- Users shall apply a controlled force with a stance adjusted and braced to prevent rapid bodily movement or a fall if sudden release occurs.
- Never hammer on a hex key.
- Never use a pipe or cheater bar on the handle or key end.
- Do not repair hex key wrenches.
- Inspect and discard bent, deformed or cracked hex key tools.
- Users and bystanders must wear safety goggles.
- To avoid possible eye injury from flying objects, safety goggles or equivalent protection conforming to ANSI Z87.1 shall be worn and kept clean by the user and all persons in the immediate area where any tool is being used.
- Comfort or plastic grips on handles are not intended to give any degree of protection against electric shock and shall not be used on or near live electric circuits.

909.469.2251

Impact Socket Sets - 1/2" Drive wRIGHT TOOL

13 Piece – 6 Pt. Standard Impact Socket Set Stock No. 415				
Stock No.	Description	Stock No.	Description	
4814	7/16″	4830	15/16″	
4816	1/2″	4832	1″	
4818	9/16″	4834	1-1/16″	
4820	5/8″	4836	1-1/8″	
4822	11/16″	4840	1-1/4″	
4824	3/4"	2-W010	Rails	
4826	13/16″	W4	13 Clips	
4828	7/8″			

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14 Piece – 6 Pt. Deep Impact Socket Set Stock No. 407					
Stock No.	Description Stock No. Description				
4912	3/8″	4928	7/8″		
4914	7/16″	4930	15/16″		
4916	1/2″	4932	1″		
4918	9/16″	4934	1-1/16″		
4920	5/8″	4936	1-1/8″		
4922	11/16″	4940	1-1/4″		
4924	3/4″	2-W010	Rails		
4926	13/16″	W4	14 Clips		

16 Piece – 6 Pt. Standard Metric Impact Socket Set Stock No. 466				
Stock No.	Description	Stock No.	Description	
48-10mm	10mm	48-19mm	19mm	
48-11mm	11mm	48-20mm	20mm	
48-12mm	12mm	48-21mm	21mm	
48-13mm	13mm	48-22mm	22mm	
48-14mm	14mm	48-23mm	23mm	
48-15mm	15mm	48-24mm	24mm	
48-16mm	16mm	48-27mm	27mm	
48-17mm	17mm	2-W110	Rails	
48-18mm	18mm	W4	16 Clips	

16 Piece – 6 Pt. Deep Metric Impact Socket Set Stock No. 467				
Stock No.	Description	Stock No.	Description	
49-10mm	10mm	49-19mm	19mm	
49-11mm	11mm	49-20mm	20mm	
49-12mm	12mm	49-21mm	21mm	
49-13mm	13mm	49-22mm	22mm	
49-14mm	14mm	49-23mm	23mm	
49-15mm	15mm	49-24mm	24mm	
49-16mm	16mm	49-27mm	27mm	
49-17mm	17mm	2-W110	Rails	
49-18mm	18mm	W4	16 Clips	

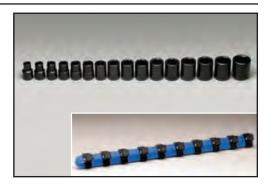




Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.



Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.



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Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.



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WWRIGHT TOOL Impact Socket Sets - 3/4"and 1" Drive



14 Piece – 6 Pt. Standard Impact Set Stock No. 610			
Stock No.	Description	Stock No.	Description
6824	3/4″	6840	1-1/4″
6826	13/16″	6842	1-5/16"
6828	7/8″	6844	1-3/8″
6830	15/16"	6846	1-7/16″
6832	1″	6848	1-1/2″
6834	1-1/16″	6852	1-5/8″
6836	1-1/8″	22	Metal Box
6838	1-3/16"		

19 Piece – 6 Pt. Standard Metric Impact Socket Set Stock No. 655			
Stock No.	Description	Stock No.	Description
68-17mm	17mm	68-29mm	29mm
68-19mm	19mm	68-30mm	30mm
68-20mm	20mm	68-32mm	32mm
68-21mm	21mm	68-33mm	33mm
68-22mm	22mm	68-34mm	34mm
68-23mm	23mm	68-35mm	35mm
68-24mm	24mm	68-36mm	36mm
68-26mm	26mm	68-38mm	38mm
68-27mm	27mm	68-41mm	41mm
68-28mm	28mm	Cardboard Box	

14 Piece – 6 Pt. Deep Metric Impact Socket Set Stock No. 660			
Stock No.	Description	Stock No.	Description
69-17mm	17mm	69-32mm	32mm
69-19mm	19mm	69-33mm	33mm
69-20mm	20mm	69-35mm	35mm
69-21mm	21mm	69-36mm	36mm
69-22mm	22mm	69-38mm	38mm
69-23mm	23mm	69-41mm	41mm
69-24mm	24mm	Cardboard Box	
69-28mm	28mm		

1" Drive Sockets		
Туре	Size Range	
Standard	3/4" to 4-1/2"	
Metric	19 mm to 115 mm	

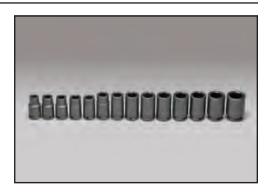




Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.



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Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.



Cost competitive custom socket sets that include the exact sizes needed for your specific application are readily available.



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12 Pt. Socket Sets - ½" Drive wRIGHTTOOL



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Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.



Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.



Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.

11 Piece – 12Pt. Deep Socket Set Stock No. 402			
Stock No.	Description	Stock No.	Description
4616	1/2″	4630	15/16″
4618	9/16″	4632	1″
4620	5/8″	4634	1-1/16″
4622	11/16″	4636	1-1/8″
4624	3/4″	WO13	Rail
4626	13/16″	W4	11 Clips
4628	7/8″		

15 Piece – 12 Pt. Standard Socket Set Stock No. 417			
Stock No.	Description	Stock No.	Description
4114	7/16″	4130	15/16″
4116	1/2″	4132	1″
4118	9/16″	4134	1-1/16″
4120	5/8″	4136	1-1/8″
4122	11/16″	4140	1-1/4″
4124	3/4″	4426	Ratchet
4126	13/16″	4405	5" Extension
4128	7/8″	W411	Metal Box

10 Piece – 12 Pt. Deep Metric Socket Set				
Stock No	Stock No. 473			
Stock No.	Description	Stock No.	Description	
46-16mm	16mm	46-22mm	22mm	
46-17mm	17mm	46-24mm	24mm	
46-18mm	18mm	46-25mm	25mm	
46-19mm	19mm	46-26mm	26mm	
46-20mm	20mm	W113	Rail	
46-21mm	21mm	W4	10 Clips	

22 Piece – 12 Pt. Standard Metric Socket Set Stock No. 472			
Stock No.	Description	Stock No.	Description
41-09mm	9mm	41-21mm	21mm
41-10mm	10mm	41-22mm	22mm
41-11mm	11mm	41-23mm	23mm
41-12mm	12mm	41-24mm	24mm
41-13mm	13mm	41-25mm	25mm
41-14mm	14mm	41-26mm	26mm
41-15mm	15mm	41-30mm	30mm
41-16mm	16mm	41-32mm	32mm
41-17mm	17mm	4426	Ratchet
41-18mm	18mm	4405	5" Extension
41-19mm	19mm	W418	Metal Box
41-20mm	20mm		



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Socket Sets – ³/₄" Drive



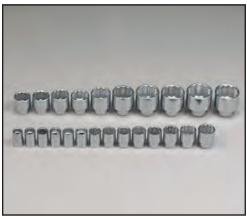


W WRIGHT TOOL

Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.



Ask about our cost competitive custom socket sets that include the exact sizes needed for your specific application.



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13 Piece – 12 Pt. Standard Socket Set Stock No. 614			
Stock No.	Description	Stock No.	Description
6128	7/8″	6144	1-3/8″
6130	15/16"	6146	1-7/16″
6132	1″	6148	1-1/2″
6134	1-1/16″	6152	1-5/8″
6136	1-1/8″	6400	Ratchet
6140	1-1/4″	6408	8" Extension
6142	1-5/16"	96A	Metal Box

13 Piece – 6 Pt. Deep Socket Set Stock No. 625			
Stock No.	Description	Stock No.	Description
6524	3/4″	6538	1-3/16″
6526	13/16″	6540	1-1/4″
6528	7/8″	6542	1-5/16″
6530	15/16"	6544	1-3/8″
6532	1″	6546	1-7/16"
6534	1-1/16″	6548	1-1/2″
6536	1-1/8″	23	Metal Box

24 Piece – 12 Pt. Standard Metric Socket Set Stock No. 624			
Stock No.	Description	Stock No.	Description
61-19mm	19mm	61-35mm	35mm
61-21mm	21mm	61-36mm	36mm
61-22mm	22mm	61-38mm	38mm
61-23mm	23mm	61-41mm	41mm
61-24mm	24mm	61-42mm	42mm
61-25mm	25mm	61-46mm	46mm
61-26mm	26mm	61-50mm	50mm
61-27mm	27mm	61-54mm	54mm
61-28mm	28mm	61-55mm	55mm
61-29mm	29mm	61-58mm	58mm
61-30mm	30mm	61-60mm	60mm
61-31mm	31mm	Cardboard Box	
61-32mm	32mm		



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Wrench Sets

12 PT. IMPERIAL COMBINATION WRENCHES



WRIGHT Grip[®]

7 Piece – Combination Set Stock No. 707			
Stock No.	Description	Stock No.	Description
1112	3/8″	1120	5/8″
1114	7/16" 1122 11/16"		
1116	1/2″	1124	3/4″
1118	9/16″	707-Roll	Denim Tool Roll



WRIGHTGrip[®]

11 Piece – Combination Set Stock No. 711			
Stock No.	Description Stock No. Description		
1112	3/8″	1124	3/4″
1114	7/16″	1126	13/16″
1116	1/2″	1128	7/8″
1118	9/16″	1130	15/16″
1120	5/8″	1132	1″
1122	11/16″	711-Roll	Denim Tool Roll



WRIGHTGrip[®]

15 Piece – Combination Set Stock No. 715				
Stock No.	Description Stock No. Description			
1110	5/16"	1126	13/16″	
1112	3/8″	1128	7/8″	
1114	7/16″	1130	15/16″	
1116	1/2″	1132	1″	
1118	9/16″	1134	1-1/16″	
1120	5/8″	1136	1-1/8″	
1122	11/16″	1140	1-1/4″	
1124	3/4"	715-Roll	Denim Tool Roll	

WrightGrip Patent #7,340,982









909.469.2251





12 PT. METRIC COMBINATION WRENCHES

WRIGHTGrip[®]

15 Piece – Combination Set Stock No. 752				
Stock No.	Description	Description Stock No. Description		
11-07mm	7mm	11-15mm	15mm	
11-08mm	8mm	11-16mm	16mm	
11-09mm	9mm	11-17mm	17mm	
11-10mm	10mm	11-18mm	18mm	
11-11mm	11mm	11-19mm	19mm	
11-12mm	12mm	11-21mm	21mm	
11-13mm	13mm	11-22mm	22mm	
11-14mm	14mm	752-Roll	Denim Tool Roll	

WRIGHTGrip[®]

18 Piece – Combination Set Stock No. 758			
Stock No.	Description	Stock No.	Description
11-07mm	7mm	11-17mm	17mm
11-08mm	8mm	11-18mm	18mm
11-09mm	9mm	11-19mm	19mm
11-10mm	10mm	11-20mm	20mm
11-11mm	11mm	11-21mm	21mm
11-12mm	12mm	11-22mm	22mm
11-13mm	13mm	11-23mm	23mm
11-14mm	14mm	11-24mm	24mm
11-15mm	15mm	758-Roll	Denim Tool Roll
11-16mm	16mm		

WRIGHTGrip[®]

28 Piece – Combination Set Stock No. 760			
Stock No.	Description	Stock No.	Description
11-06mm	6mm	11-20mm	20mm
11-07mm	7mm	11-21mm	21mm
11-08mm	8mm	11-22mm	22mm
11-09mm	9mm	11-23mm	23mm
11-10mm	10mm	11-24mm	24mm
11-11mm	11mm	11-25mm	25mm
11-12mm	12mm	11-26mm	26mm
11-13mm	13mm	11-27mm	27mm
11-14mm	14mm	11-30mm	30mm
11-15mm	15mm	11-32mm	32mm
11-16mm	16mm	11-36mm	36mm
11-17mm	17mm	11-41mm	41mm
11-18mm	18mm	11-46mm	46mm
11-19mm	19mm	11-50mm	50mm







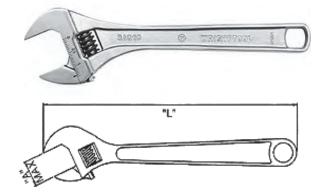




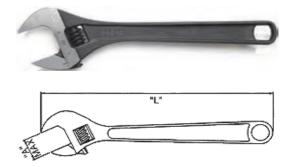




		Chror	ne Finish
Stock No.	Length (L)	"A" Max. Capacity	
9AC04	4"	1/2"	
9AC06	6"	15/16")
9AC08	8"	1-1/8"	
9AC10	10"	1-3/8"	
9AC12	12"	1-1/2"	
9AC15	15"	1-11/16"	
9AC18	18"	2-1/8"	H
9AC24	24"	2-17/32"	



Black Industrial Finish



Stock No.	Length (L)	"A" Max. Capacity
9AB04	4"	1/2"
9AB06	6"	15/16"
9AB08	8"	1-1/8"
9AB10	10"	1-3/8"
9AB12	12"	1-1/2"
9AB15	15"	1-11/16"
9AB18	18"	2-1/8"
9AB24	24"	2-17/32"

Cobalt Finish - Cushion Grip

Stock No.	Length (L)	"A" Max. Capacity		
9AG04	4"	1/2"		
9AG06	6"	15/16"		
9AG08	8"	1-1/8"		
9AG10	10"	1-3/8"		
9AG12	12"	1-1/2"		



Giant Industrial Wrench - 36 in.



St	ock No.	Capacity	Head Thickness	Weight
	9AC36	2-3/4" to 4-3/4" (In 1/8" increments)	1-1/8"	31 lbs.

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Cutting depth: .75" / 19mm

Cutting depth: .43" / 11mm

Cutting depth: .75" / 19mm

Cutting depth: .59" / 15mm

MARIE

WHY DO SAFETY EXPERTS TURN TO OLFA®?

Smart safety for precision cutting.

- Spring activated blade is shielded by the metal channel until the blade slide is engaged. The blade retracts back into the channel when the cutting process is completed to minimize unintentional blade exposure.
- Safe and secure cutting performance heavy-gauge stainless steel blade channel provides secure blade hold.
- Designed for both right- and left-hand use. Precise blade control textured blade slide with thumb stop.
- Durable materials for long life made from high-impact ABS. Tool-free blade change.

SK-4: Stock Number 9048

- Self-retracting safety knife.
 - Accepts SKB-2, SKB-2S, RSKB and HOB Blades. • Preloaded with SKB-2 safety blade.
- Textured, slip-resistant handle.

SK-7: Stock Number 1077174

- Compact self-retracting safety knife.
- Small size fits conveniently in a pocket.
- Preloaded with SKB-7 safety blade.

SK-9: Stock Number 1086095

- Self-retracting safety knife with tape slitter.
- Built-in metal utility pick can be used to
- open paint cans, split tape, tuck carpet and remove screws.
- Accepts SKB-2, SKB-2S, RSKB and HOB Blades.
- Preloaded with SKB-2 safety blade.

SK-8: Stock Number 1077171

- Self-retracting safety knife with automatic retraction. • Blade automatically retracts when it loses
 - Tool-free blade change.
- contact with the cutting surface even when thumb keeps blade slide engaged.
- Fiberglass reinforced ABS handle for prolonged life.
- Preloaded with SKB-8 safety blade.

Exceptional sharpness and long-lasting performance.

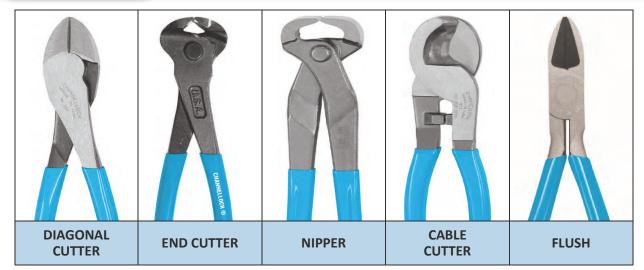
OLFA® blades are engineered from Japanese carbon tool steel and skillfully crafted to offer unmatched sharpness for superior cutting power and edge retention. Ideal for cutting through cardboard, shrink wrap and plastic strapping.

SKB-2 / 50B (50 pack) Stock Number 9614	SKB-7/10B (10 pack) Stock Number 1077172	SKB-8/10B (10 pack) Stock Number 1077173
Annald Street		
 Superior sharpness and edge retention for general use. Compatible with SK-4 and SK-9. 	 Built for compact-size handles, this blade is crafted with flat 90° angled sides to help reduce the risk of injury. Compatible with SK-7. 	 Designed with flat 90° angled sides to help reduce the risk of injuries. Compatible with SK-8.



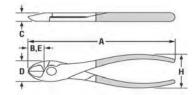
Cutting Pliers





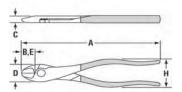
Diagonal Cutters





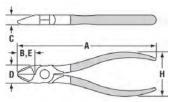
Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Handle Span (H)	Weight
337	7.00 in.	.79 in.	.43 in.	1.18 in.	.79 in.	1.89 in.	.57 lbs.





Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Handle Span (H)	Weight
338	8.00 in.	.79 in.	.43 in.	1.18 in.	.79 in.	1.89 in.	.66 lbs.





Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Handle Span (H)	Weight
435	5.00 in.	.87 in.	.43 in.	.69 in.	.87 in.	1.89 in.	.28 lbs.
436	6.00 in.	.85 in.	.43 in.	.81 in.	.85 in.	1.89 in.	.42 lbs.

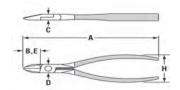


Cutting Pliers



Flush

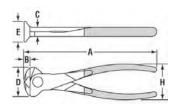




Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Handle Span (H)	Weight
447	7.75 in.	1.02 in.	.49 in.	1.06 in.	1.02 in.	1.89 in.	.72 lbs.
449	9.54 in.	1.02 in.	.50 in.	1.12 in.	1.02 in.	2.01 in.	.86 lbs.

End Cutter

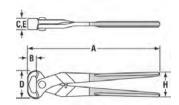




Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Handle Span (H)	Weight
356	6.25 in.	.35 in.	.47 in	1.38 in.	1.06 in.	1.89 in.	.57 lbs.
357	7.50 in.	.35 in.	.49 in	1.63 in.	1.18 in.	1.89 in.	.76 lbs.
358	8.00 in.	.35 in.	.49 in	1.63 in.	1.18 in.	1.89 in.	.79 lbs.

Nipper

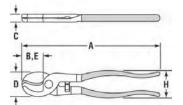




Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Handle Span (H)	Weight
148-10	10.00 in.	.62 in.	.87 in.	2.19 in.	.87 in.	2.05 in.	1.25 lbs.
148-14	13.75 in.	.79 in.	.98 in.	2.56 in.	.98 in.	2.44 in.	2.48 lbs.

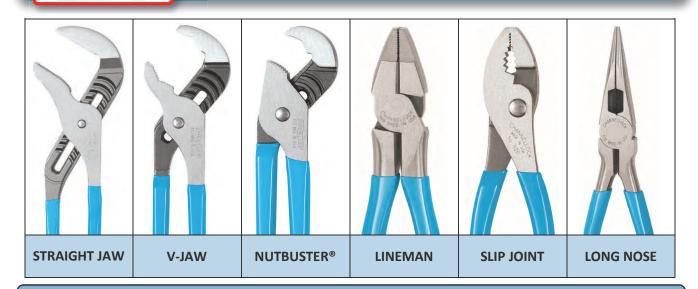
Cable Cutter





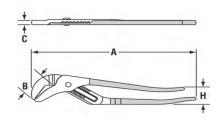
Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Handle Span (H)	Weight
911	9.50 in.	1.40 in.	.51 in.	1.61 in.	1.40 in.	1.89 in.	.90 lbs.

Tongue & Groove Pliers CHANNEL LOCK



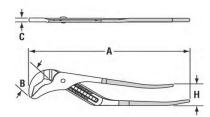
Straight Jaw





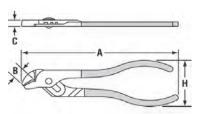
Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Handle Span (H)	Weight	Number of Adjustments	Jaw Capacity
480	20.25 in.	3.00 in.	0.59 in.	3.31 in.	3.81 lbs.	12	5.50 in.





Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Handle Span (H)	Weight	Number of Adjustments	Jaw Capacity
460	16.50 in.	2.56 in.	.59 in.	1.93 in.	3.14 lbs.	8	4.25 in.
440®	12.00 in.	1.50 in.	.50 in.	1.81 in.	1.64 lbs.	7	2.25 in.
430®	10.00 in.	1.38 in.	.44 in.	2.13 in.	1.18 lbs.	7	2.00 in.
420®	9.50 in.	1.12 in.	.47 in.	1.57 in.	.87 lbs.	5	1.50 in.
426	6.50 in.	.81 in.	.47 in.	1.69 in.	.37 lbs.	5	.87 in.





Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Handle Span (H)	Weight	Number of Adjustments	Jaw Capacity
424	4.50 in.	.33 in.	.13 in.	1.26 in.	.12 in.	3	.50 in.

CHANNEL LOCK Tongue & Groove Pliers



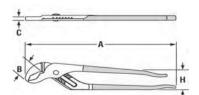
V-Jaw





Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Handle Span (H)	Weight	Number of Adjustments	Jaw Capacity
483	20.25 in.	3.19 in.	.54 in.	2.94 in.	3.74 lbs.	12	5.50 in.
463	16.50 in.	1.08 in.	.48 in.	1.93 in.	2.71 lbs.	8	4.25 in.

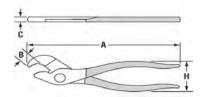




Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Handle Span (H)	Weight	Number of Adjustments	Jaw Capacity
442	12.00 in.	1.50 in.	.50 in.	1.69 in.	1.78 lbs.	7	2.25 in.
432	10.00 in.	1.37 in.	.43 in.	2.20 in.	.95 lbs.	7	2.00 in.
422	9.50 in.	1.12 in.	.47 in.	1.57 in.	.84 lbs.	5	1.50 in.
412	6.50 in.	.81 in.	.47 in.	1.69 in.	.34 lbs.	5	.94 in.

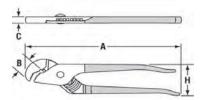
Nutbuster[®]





Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Handle Span (H)	Weight	Number of Adjustments	Jaw Capacity
307	7.00 in.	. 45 in.	.28 in.	1.89 in.	.41 lbs.	2	.63 in.





Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Handle Span (H)	Weight	Number of Adjustments	Jaw Capacity
410	9.50 in.	1.12 in.	.44 in.	2.17 in.	1.41 lbs.	4	1.12 in.
414	13.50 in.	1.63 in.	.50 in.	2.20 in.	2.41 lbs.	6	2.00 in.





LINEMAN

Features

- XLT[™] Xtreme Leverage Technology
- Round nose
- Cuts ACSR

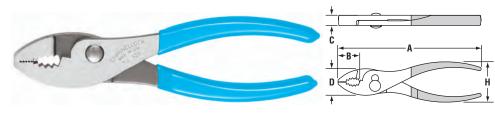


Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Nose Width (F)	Handle Span (H)	Weight
367	7.49 in.	1.28 in.	.53 in.	1.20 in.	.63 in.	.31 in.	2.01 in.	.72 lbs.
368	8.38 in.	1.41 in.	.55 in.	1.12 in.	.60 in.	.33 in.	2.01 in.	.98 lbs.
369	9.50 in.	1.54 in.	.55 in.	1.32 in.	.73 in.	.28 in.	1.89 in.	1.08 lbs.
3610	10.50 in.	1.82 in.	.56 in.	1.31 in.	.83 in.	.31 in.	2.01 in.	1.15 lbs.

SLIP JOINT

Features

• Wire cutting shear

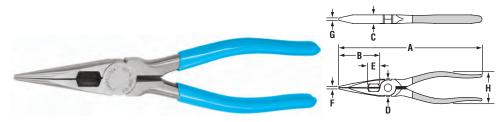


Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Handle Span (F)	Weight
526	6.50 in.	.96 in.	.43 in.	1.28 in.	N/A	1.89 in.	.51 lbs.
528	8.00 in.	.99 in.	.36 in.	1.17 in.	N/A	1.82 in.	.58 lbs.

LONG NOSE

Features

- Heavy duty side cutter
- Useful crushing area



Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Nose Width (F)	Nose Thickness (G)	Handle Span (H)	Weight
318	8.38 in.	2.30 in.	.50 in.	1.00 in.	.63 in.	.16 in.	.11 in.	1.89 in.	.59 lbs.

Features

- 326 with side cutter
- 3026 without side cutter



Stock No.	Overall Length (A)	Jaw Length (B)	Joint Thickness (C)	Joint Width (D)	Cutting Edge (E)	Nose Width (F)	Nose Thickness (G)	Handle Span (H)	Weight
326	6.10 in.	2.08 in.	.41 in.	.75 in.	.41 in.	.10 in.	N/A	1.89 in.	.36 lbs.
3026	6.10 in.	2.08 in.	.41 in.	.75 in.	N/A	.10 in.	.11 in.	1.89 in.	.33 lbs.

www.lift-it.com



Estwing Hammers



SOFT FACE HAMMERS

BLACK AND GREY RUBBER MALLET	RED AND YELLOW RUBBER MALLET
Estuding	Et suing
Stock No. Head Weight (Approximate) Verall Length Unit Weight	Stock No. Head Weight (Approximate) Verall Length Unit (Approximate) (Approximate) Weight
DFH24 24 oz. 14 in. 24 oz.	DFH12 12 oz. 12 in. 12 oz.

NYLON VINYL SHOCK REDUCTION GRIP HAMMERS

ENGINEER H	AMMER			DRILLING HAN	DRILLING HAMMERS				
-		Enving	7			ulag y			
				Stock No.	Head Weight (Approximate)	Overall Length (Approximate)	Unit Weight		
Stock No.	Head Weight	Overall Length	Unit	B3-2LB	2 lbs.	10-1/2 in.	2 lbs.		
	(Approximate)	(Approximate)	Weight	B3-3LB	3 lbs.	11 in.	3 lbs.		
E6-48E	48 oz.	16 in.	48 oz.	B3-4LB	4 lbs.	11-1/2 in.	4 lbs.		
	AMMER			DRILLING HAN	MER				
Between		Estuding			wing the second		Estwing		
Stock No. E3-40L	Head Weight (Approximate) 40 oz.	Overall Length (Approximate) 13-1/2 in.	Unit Weight 40 oz.	Stock No. B3-4LBL	Head Weight (Approximate) 64 oz.	Overall Length	Unit Weight 64 oz.		
	(Approximate) 40 oz.	Overall Length (Approximate)	Weight	Stock No.	Head Weight (Approximate) 64 oz.	Overall Length (Approximate) 16 in.	Unit Weight 64 oz.		
E3-40L	(Approximate) 40 oz.	Overall Length (Approximate)	Weight	Stock No. B3-4LBL	Head Weight (Approximate) 64 oz. E DEADBLO	Overall Length (Approximate) 16 in.	Unit Weight 64 oz.		
E3-40L	(Approximate) 40 oz.	Overall Length (Approximate) 13-1/2 in.	Weight	Stock No. B3-4LBL POLYURETHAN	Head Weight (Approximate) 64 oz. E DEADBLO	Overall Length (Approximate) 16 in. W HAMMER	Unit Weight 64 oz.		
E3-40L	(Approximate) 40 oz. AMMERS	Overall Length (Approximate) 13-1/2 in.	Unit	Stock No. B3-4LBL POLYURETHAN	Head Weight (Approximate) 64 oz. E DEADBLOV	Overall Length (Approximate) 16 in. N HAMMER Length (Approximate) 10-1/8 in.	Unit Weight 64 oz. S		
E3-40L BALLPEEN HA Stock No. E3-8BP E3-12BP	(Approximate) 40 oz. AMMERS	Overall Length (Approximate) 13-1/2 in.	Unit Weight 40 oz.	Stock No. B3-4LBL POLYURETHAN	Head Weight (Approximate) 64 oz. E DEADBLO E DEADBLO	Overall Length (Approximate) 16 in. N HAMMER N HAMMER	Unit Weight 64 oz. 5 Unit Weight 14 oz. 22 oz.		
E3-40L BALLPEEN HA Stock No. E3-8BP E3-12BP E3-16BP	(Approximate) 40 oz. AMMERS Head Weight (Approximate) 8 oz. 12 oz. 16 oz.	Overall Length (Approximate) 13-1/2 in.	Weight 40 oz. Unit Weight 8 oz. 12 oz. 16 oz.	Stock No. B3-4LBL POLYURETHAN Image: Stock No. Face Diame 14E* 1-1/4 ir 22E 1-5/8 i 27E 2 in.	Head Weight (Approximate) 64 oz. E DEADBLO E DEADBLO Head Length 1. 3-1/8 in. 1. 3-3/4 in. 4-1/8 in.	Overall Length (Approximate) 16 in. N HAMMER: Length (Approximate) 10-1/8 in. 11-1/4 in. 12-3/4 in.	Unit Weight 64 oz. 5 Vinit Weight 14 oz. 22 oz. 27 oz.		
E3-40L BALLPEEN HA Stock No. E3-8BP E3-12BP	(Approximate) 40 oz. AMMERS	Overall Length (Approximate) 13-1/2 in.	Unit Weight 40 oz.	Stock No. B3-4LBL POLYURETHAN	Head Weight (Approximate) 64 oz. E DEADBLO E DEADBLO E Length 1. 3-1/8 in. 1. 3-3/4 in. 4-1/8 in. 1. 4-5/8 in.	Overall Length (Approximate) 16 in. N HAMMER N HAMMER Length (Approximate) 10-1/8 in. 11-1/4 in.	Unit Weight 64 oz. 5 Unit Weight 14 oz. 22 oz.		





9 Piece – Metric L-Key Set, Short Arm in Tool Holder						
Stock No.	Sizes					
9E10509	1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm and 10mm					
	***** MADEINIUSA					





22 Piece – Holder	- Fractional & Metric L-Key Set, Long Arm in Tool					
Stock No.	Sizes					
9E10222	Fractional: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" and 3/8"					
	Metric: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm and 10mm					
Wear sa goggles and bys	suser understand all methods for an and all methods and and an an and an an and an					

909.469.2251



Hex Key Sets



FOLD UP SETS

9 Piece – Fractional Metal Fold-Up

Stock No. Sizes

9E20911 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" and 1/4"



7 Piece – Metric Metal Fold-Up

Stock No. Sizes

9E21171 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm and 6mm



VINYL GRIP T-HANDLE SETS

13 Piece – Fractional, In Plastic Stand

Stock No. 6" Long Hex Sizes

9E60614 .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" and 3/8"

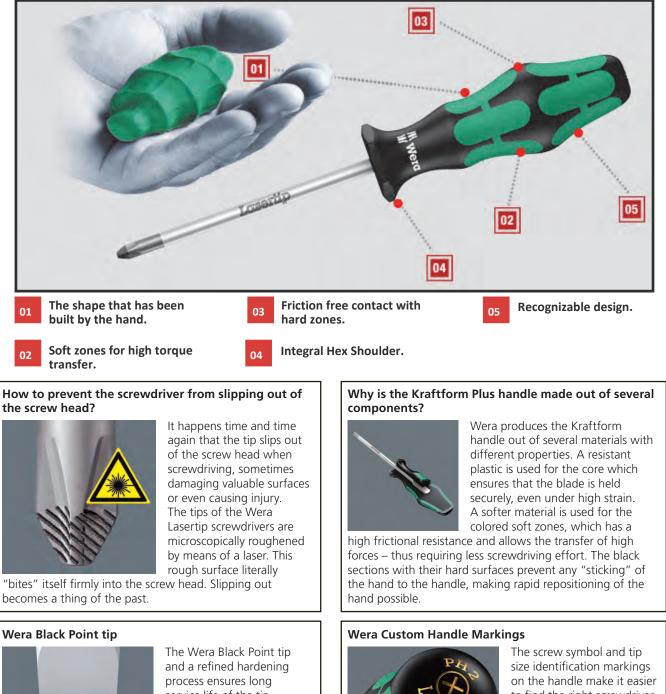


	– Metric, in Plastic Stan 6" Long Metric Hex Size :		1	120
9E64611	1.3mm, 1.5mm, 2mm, 2.5r 8mm and 10mm	nm, 3mm, 4mm, 5mm, 6mm,		
* * * *	MADEINIUSA	Wear safety goggles user and bystander.	A WARNING Before using tools, read and understand all safety information.	Comfort or plastic grips do not protect against electric shock.

The Wera Differences Make All the Difference!

Kraftform—The shape that has been built by the hand.

The whole hand is in contact with the handle. The smooth hard zones move through the hand like wheels when repositioning the hand on the handle. The easy-to-grip soft zones provide optimal contact zones for the muscles of the hand to transfer a high amount of torque.



service life of the tip, improved corrosion protection and an exact fit.



to find the right screwdriver in the tool case or at the workplace.





KRAFTFORM PLUS – SERIES 300 – THE	RIGHT TOOL FOR EVERY APPLICATION
334 SK/6 LASERTIP SCREWDRIVER SET AND RACK	1355 PZ SCREWDRIVER FOR POZIDRIVE® SCREWS
Lasertip hexagon blades and rackApplication:Slotted and Phillips screwsContents:6-piece set and rack in display carton	Application:Phillips screwsBlade:RoundDesign:Chrome-plated, Black Point
Stock No: 05007680001	Handle: Kraftform Comfort with non-roll feature, multi-component
Content Description 350 SK PH 1 x PH 1x80; 1 x PH 2x100 334 SK 1 x 0.6x3.5x75; 1 x 0.8x4.0x90; 1 x 1.0x5.5x100; 1 x 1.2x6.5x125"	Stock Number I <t< th=""></t<>
1335 SCREWDRIVER FOR SLOTTED SCREWS	350 PH SCREWDRIVER FOR PHILLIPS SCREWS
Blade:RoundDesign:Chrome-plated, Black PointHandle:Kraftform Comfort with non-roll feature, multi-component	Blade: Round Design: Chrome-plated, Lasertip Handle: Kraftform with non-roll feature, multi-component
Stock Number I <t< th=""><th>Stock Number Imm <t< th=""></t<></th></t<>	Stock Number Imm Imm <t< th=""></t<>



KRAFTFORM PLUS – SERIES 300 – CONVENIENT, SAFE, GOOD! 395 HO/7 SM NUTDRIVER SET 334 SK SCREWDRIVER FOR SLOTTED SCREWS HEXAGON Application: Slotted screws Blade: Hexagonal with bolster from 0.8 x 4.5 Design: Chrome-plated, Lasertip Application: Hexagon headed bolts, screws and nuts Kraftform with non-roll feature, Handle: multi-component **Contents:** 7-piece set in display carton Ð ļ (). Stock Number . . μ, TIP: The hollow shaft enables seized screws mm mm mm mm mm mm or those with long threads to be tightened 05007670001 9/64" 3" 06 35 4 75 81 and loosened 5/32" 05007671001 0.8 4.0 4 90 81 3-1/2 05007672001 0.8 4.5 8 90 98 0.178" 3-1/2" 5 Stock No: 05029510001 05007673001 1.0 5.5 6 10 100 98 7/32' 4' 05007674001 10 125 105 1/4" 5' 1.2 6.5 6 05007675001 10 125 105 9/32" 5" 1.2 Description 6 Contents 395 HO 1 x 5.0x90; 1 x 5.5x90; 1 x 6.0x90; 1 x 7.0x90 05007676001 1.6 9.0 8 13 150 112 11/32" 6" 7" 18.0x90; 1 x 10.0x90; and 1 x 13.0x90 05007677001 16 10.0 8 13 175 112 3/8" 336 STUBBY/CARBURETTOR SCREWDRIVER STUBBY/CARBURETTOR SCREWDRIVER **Application:** Slotted screws Application: Phillips screws Blade: Round Blade: Round Design: Chrome-plated, Black Point Design: Chrome-plated, Black Point Handle: Kraftform with non-roll feature, Handle: Kraftform, with non-roll feature, single-component single-component ₽, Ø Stock V. ₿, Number mm mm mm mm mm 0 ₽, Ø Stock 05110068001 9/64" 1" 0.6 3.5 25 54 3.5 Number 05110069001 5/32" 08 54 40 25 40 1' mm mm mm 05008775001 PH 01 54 4.5 1" 05110070001 55 7/32" 1" 25 10 25 54 5.5 54 05008780001 PH 02 6.0 1" 05110075001 1.2 6.5 25 54 6.5 1/4" 1" 25

1.2

8.0

25

54

8.0

5/16"

1"

05110078001

05008782001

PH 03

25

54

6.0

1"

Wera BE 4 TOOL REBEL



$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					ESC	SERIES	SAFE TOOLS	5				
Blade:RoundApplication:Slotted and Phillips screws.Content:6-piece set and rack in display carton.Stock No:05030170001 $track noise $	1578 A/6 E	SD SCREV	VDRIVE	R SET A	ND RAG	CK			MICRO	SCREW	/DRIVEI	R FOR
Design: Chrome-plated Mandle: Kraftform Micro with non-roll feature and rotating cap, multi-component Application: PhillLiPS SCREWS Mandle: Kraftform Micro with non-roll feature and rotating cap, multi-component Application: Phillips screws Mandle: Kraftform Micro with non-roll feature and rotating cap, multi-component Chrome-plated Application: Phillips screws Mandle: Kraftform Micro with non-roll feature and rotating cap, multi-component Chrome-plated, Black Point Handle: Kraftform Micro with non-roll feature and rotating cap, multi-component	Contents: Stock No:	6-piece s 05030170	et and ra 0001	ck in disp	blay carto	n	Blade: Design: Handle: 5tock Number 05030101001 05030102001 05030102001 05030104001 05030105001 05030106001	Round Chrome-r Kraftform rotating c mm m 0.23 1. 0.25 1. 0.30 1. 0.30 1. 0.40 2. 0.40 2. 0.50 3. 0.60 3.	plated, B n Micro v cap, mult 	vith non- i-compor	roll feature nent 2.5 1/1 2.5 0.0 2.5 5/0 2.5 3/3 3.0 1/2 4.0 9/6	6" 1-9/16" 5" 1-9/16" 7" 2-3/8" 4" 2-3/8" 4" 2-3/8" 3" 3-1/8" 4" 3-1/8"
05030415001 2.5 60 97 5.7 2-3/8" 05030415001 3.0 60 97 5.7 2-3/8" 05030415001 3.2 60 97 5.7 2-3/8" 05030415001 3.5 60 97 5.7 2-3/8" 05030417001 4.0 60 97 5.7 2-3/8" 05030418001 4.5 60 97 5.7 2-3/8" 05030418001 4.5 60 97 5.7 2-3/8" 05030418001 4.5 60 97 5.7 2-3/8"	Stock Number 05030410001 05030410001 05030410001 05030410001 05030410001 05030410001 05030410001 05030410001 05030410001 05030410001 05030415001 05030415001 05030415001 05030415001 05030415001 05030415001 05030415001	Hexagon Round Chrome-I Kraftform rotating of 1.5 1.8 2.0 2.5 3.0 3.2 3.5 4.0	headed blated n Micro v cap, mult	vith non- i-compor	roll featur nent 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7	re and 2-3/8" 2-3/8" 2-3/8" 2-3/8" 2-3/8" 2-3/8" 2-3/8" 2-3/8" 2-3/8"	PHILLIPS SC Application: Blade: Design: Handle:	Phillips sc Round Chrome-F Kraftform rotating c	crews plated, B n Micro v cap, mult	lack Point vith non- i-compor	t roll featu nent	ure and



KRAFTFORM PLUS - SERIES 100 VDE SAFETY SCREWDRIVERS FOR WORKING WITH LIVE WIRING

160 i/6 SET SET & RACK	KRAFTFORM PLUS SCREWDRIVER	KRAFTFORM	I KOMPAKT SCREWDRIVER SET
	Kraftform: The safety screwdriver.	2x Kraftform h	nandle 817 VDE for Wera VDE interchangeabl
	Lasertip blade + rack	blades only	andle of 7 v De for vvera v De interchangeabl
Application:	For slotted and Phillips screws	VDE interchang	geable blades (154 mm long)
Contents:	6-pieces set and rack in display carton	18-piece set	
Stock No:	05006145001	Stock No:	05347108001
Content Descript	ion	Content Descriptio	on 1x154; 1 x # 2x154 817 VDE 2 x 9x102
162 i PH VDE	1 x PH 1x80; 1 x PH 2x100	KK 96 VK 6.3 1 x 6.3 KK 97 VK 8.1 1 x 8.1	3x89 KK 62 i 1 x PH 1x154; 1 x PH 2x154
		[[KK 9/ VK 0.1] X 0.1	1x89 KK 62 i PH/S 1 x # 1x154; 1 x # 2x154
160 i VDE	1 x .4x2.5x80*; 1 x .6x3.5x100; 1 x .8x4.0x100; 1 x 1.0x5.5x125	KK 98 DK 1 x 89	
* Without Laserti	INSULATED SCREWDRIVER FOR	KK 98 DK 1 x 89 KK 99 FL 1 x 89	KK 60 i 1 x .4x2.5x154; 1 x .6x3.5x154 1 x .8x4.0x154; 1 x 1.0x5.5x15 DE INSULATED SCREWDRIVER FOR
* Without Laserti	P INSULATED SCREWDRIVER FOR	KK 98 DK 1 x 89 KK 99 FL 1 x 89 1162 i PH VE PHILLIPS SCI Application: Blade:	KK 60 i 1 x .4x2.5x154; 1 x .6x3.5x154 1 x .8x4.0x154; 1 x 1.0x5.5x15 DE INSULATED SCREWDRIVER FOR
* Without Laserti	p INSULATED SCREWDRIVER FOR REWS Slotted screws Insulated, individually tested per IEC 60900	KK 98 DK 1 x 89 KK 99 FL 1 x 89 1162 i PH VE PHILLIPS SCI Application: Blade:	KK 60 i 1 x.4x2.5x154; 1 x.6x3.5x154 1 x.8x4.0x154; 1 x.10x5.5x15 DE INSULATED SCREWDRIVER FOR REWS Phillips screws Insulated, individually tested per IEC 60900
* Without Laserti	p INSULATED SCREWDRIVER FOR REWS Slotted screws Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point	KK 98 DK 1 x 89 KK 99 FL 1 x 89 1162 i PH VE PHILLIPS SCI Application: Blade: Design: Handle:	KK 60 i 1 x.4x2.5x154; 1 x.6x3.5x154 1 x.8x4.0x154; 1 x.10x5.5x15 DE INSULATED SCREWDRIVER FOR REWS Phillips screws Insulated, individually tested per IEC 60900 Chrome-plated, Black Point
* Without Laserti	P INSULATED SCREWDRIVER FOR REWS Slotted screws Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component	KK 98 DK 1 x 89 KK 99 FL 1 x 89 1162 i PH VE PHILLIPS SCI Application: Blade: Design: Handle:	KK 60 i 1 x.4x2.5x154; 1 x.6x3.5x154 1 x.8x4.0x154; 1 x.10x5.5x15 DE INSULATED SCREWDRIVER FOR REWS Phillips screws Insulated, individually tested per IEC 60900 Chrome-plated, Black Point Kraftform Comfort with non-roll feature,
* Without Laserti	P INSULATED SCREWDRIVER FOR Insulated Screws Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Image: mage state	KK 99 PL 1 x 89 1162 i PH VE PHILLIPS SCI Application: Blade: Design: Handle:	KK 60i 1 x.4x2.5x154; 1 x.6x3.5x154 1 x.8x4.0x154; 1 x.10x5.5x15 DE INSULATED SCREWDRIVER FOR REWS Phillips screws Insulated, individually tested per IEC 60900 Chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component
* Without Laserti 1160 i VDE SLOTTED SC Application: Blade: Design: Handle: Stock Number 05031580001 05031581001	P INSULATED SCREWDRIVER FOR REWS Slotted screws Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, Mark 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	KK 98 DK 1 x 89 KK 99 FL 1 x 89 1162 i PH VE PHILLIPS SCI Application: Blade: Design: Handle:	KK 60 i 1 x.4x2.5x154; 1 x.6x3.5x154 1 x.8x4.0x154; 1 x.10x5.5x15 DE INSULATED SCREWDRIVER FOR REWS Phillips screws Insulated, individually tested per IEC 60900 Chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Image:
* Without Laserti 1160 i VDE SLOTTED SC Application: Blade: Design: Handle: Stock Number 05031580001 05031582001 05031582001 05031583001	P INSULATED SCREWDRIVER FOR REWS Slotted screws Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Name and an and a straight of the strai	KK 98 DK 1 x 89 KK 99 FL 1 x 89 1162 i PH VE PHILLIPS SCI Application: Blade: Design: Handle:	KK 60 i 1 x.4x2.5x154; 1 x.6x3.5x154 1 x.8x4.0x154; 1 x.10x5.5x15 DE INSULATED SCREWDRIVER FOR REWS Phillips screws Insulated, individually tested per IEC 60900 Chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Image: Main and M
* Without Laserti 1160 i VDE SLOTTED SC Application: Blade: Design: Handle: Stock Number 05031580001 05031581001 05031583001 05031583001 05031583001 05031584001	p INSULATED SCREWDRIVER FOR Insulated Screws Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Insulated, individually tested per IC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Image: main mm	KK 98 DK 1 x 89 KK 99 FL 1 x 89 1162 i PH VE PHILLIPS SCI Application: Blade: Design: Handle: Stock Number 05031600001 05031601001	KK 60 i 1 x.4x2.5x154; 1 x.6x3.5x154 1 x.8x4.0x154; 1 x.10x5.5x15 DE INSULATED SCREWDRIVER FOR REWS Phillips screws Insulated, individually tested per IEC 60900 Chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component PH 0 80 80 81 98 3-1/8"
* Without Laserti 1160 i VDE SLOTTED SC Application: Blade: Design: Handle: Stock Number 05031580001 05031582001 05031582001 05031582001	P INSULATED SCREWDRIVER FOR REWS Slotted screws Insulated, individually tested per IEC 60900 Conical tip, chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Name and an and a straight of the strai	KK 98 DK 1 x 89 KK 99 FL 1 x 89 1162 i PH VE PHILLIPS SCI Application: Blade: Design: Handle:	KK 60 i 1 x.4x2.5x154; 1 x.6x3.5x154 1 x.8x4.0x154; 1 x.10x5.5x15 DE INSULATED SCREWDRIVER FOR REWS Phillips screws Insulated, individually tested per IEC 60900 Chrome-plated, Black Point Kraftform Comfort with non-roll feature, multi-component Image: Main and M



VDE Tools



COMPREHENSIVE & SAFE.

The new VDE range of products from Stahlwille allows you to work safely in environments up to 1,000 volts with the accuracy and efficiency you have come to expect with the Stahlwille brand. Stahlwille VDE-compliant tools combine intelligent product design, high grade materials, tight tolerances, outstanding ergonomics and durable protective insulation with a long service life. All Stahlwille VDE tools are certified to VDE standards and marked accordingly.

VDE TOOL CASE

Made of robust and durable ABS plastic, the VDE Tool Case features a QuickRelease VDE 1/2" ratchet with 9 different size VDE sockets (10mm-24mm) and 3 VDE extensions (75m, 130mm, 225mm). VDE tool cases are stackable and their bright red color makes them easily identifiable.



VDE TOOL CASE - 1/2" DRIVE - Stock No. 96 03 20 20						
VDE TOOL CASE - 1/2 DRIVE - STOCK NO. 96 03 20 20						
Item	Stock Number	Sizes (mm)				
Case	12179/9/4 VDE					
Sockets	12179 VDE	10-11-12-13-14-17-19-22-24				
Extension	12177/3 VDE	75				
Extension	12177/5 VDE	130				
Extension	12177 / 10 VDE	225				
Ratchet	12173 VDE	1/2″				

VDE PLIERS



functional and the	Stock Number	Length (mr
	65 01 7 160	160
and all the second s	65 01 7 180	180
	65 01 7 200	200
	65 01 8 160	160

6501 CDE Combination Pliers

Stock Number	Length (mm)	Handle Type		
65 01 7 160	160	Dip-coated insulation		
65 01 7 180	180	Dip-coated insulation		
65 01 7 200	200	Dip-coated insulation		
65 01 8 160	160	Insulated, with plastic sleeves		
65 01 8 180	180	Insulated, with plastic sleeves		
65 01 8 200	200	Insulated, with plastic sleeves		



MORE DURABLE. All cutting edges are inductionhardened for even better load capacity.

Ergonomic design ensures excellent force transmission and improved efficiency.



6508 Flat Nose Pliers: Long								
Stock Number	Length (mm)	Handle Type						
65 08 7 160	160	Dip-coated insulation						
65 08 8 160	160	Insulated, with plastic sleeves						



6523 VDE Round Nose Pliers: Short							
Stock Number	Length (mm)	Handle Type					
65 23 7 160	160	Dip-coated insulation					
65 23 8 160	160	Insulated, with plastic sleeves					

6551 VDE Waterproof Pliers Stock Number Length (mm) Handle Type 65 51 7 240 Dip-coated insulation

3 PHONELL THO	6622 VDE Wir	e-Strippers			12188 VDE Ele	ectricians Pen	knife with Hooked Blade
TWO CONTRACTOR	Stock Number	Length (mm)	Handle Type		Stock Number	Blade (mm)	
	66 22 7 160	160	Dip-coated insulation		77 02 07 01	40	
1	66 22 8 160	160	Insulated, with plastic sleeves				
					12187 Electric	ians Penknife	with a Straight Blade
					Stock Number	Blade (mm)	
	6600 VDE Side	-Cutters			77 02 07 00	50	
CUMPARE NO	Stock Number	Length (mm)	Handle Type				
-02	66 00 7 145	140	Dip-coated insulation		6630 VDE Cab	le Shear	
ALLOSX M.	66 00 7 160	160	Dip-coated insulation	701	Stock Number	Length (mm)	Handle Type
	66 00 7 180	180	Dip-coated insulation		66 30 7 220	220	Dip-coated insulation
-0-	66 00 8 145	140	Insulated, with plastic sleeves		12189 Insulati	ng Underlay	Mat
	66 00 8 160	160	Insulated, with plastic sleeves		Stock Number	Dimensions (I	mm)
	66 00 8 180	180	Insulated, with plastic sleeves		77 03 07 00	1000 x 1000	x 4.5

OTHER VDE TOOLS



Digital Multimeters

117 ELECTRICIAN DIGITAL MULTIMETER

Fluke 117 Electrician Digital Multimeters

with Non-Contact Voltage are ideal for electricians. The Fluke 117 provides Min./Max./Average readings, measuring frequency and capacity. With its easy-to-use design, the Fluke 117 will save you time, allowing you to move from job to job with ease.

Maximum Voltage	600 V
Surge Protection	6 kV
Fuse for A Input	11 A, 1000V
Display	Digital: 6,000 counts
Bar Graph	33 segments
Operating Temperature	14°F to 122° F
Storage Temperature	-40° to 140°F
Battery Type	9 Volt Alkaline
Battery Life	400 hours typical



87V INDUSTRIAL MULTIMETER



Maximum Voltage	1000 V
Display	Digital: 6,000 counts
Shock	1 meter drop
Operating Temperature	-4°F to 131°F
Storage Temperature	-40°F to 140°F
Battery Type	9 Volt Alkaline
Battery Life	400 hours typical
Vibration	Per MIL-PRF-28800
Operating Altitude	2000 m

87V Industrial Multimeters

deliver the accuracy and advanced troubleshooting capabilities you need. Designed specifically to handle complex signals, the 87v Industrial Multimeter allows you to gain productivity by taking the guesswork out of drive system troubleshooting even in loud, high energy and high altitude locations.

1587 FC INSULATION MULTIMETER

Fluke 1587 FC Insulation Multimeters combine a digital insulation tester with a full-featured, true-RMS digital multimeter into a single compact, handheld unit. The 1587 Insulation Multimeter provides maximum versatility for both troubleshooting and preventative maintenance.

	Maximum Voltage	1000 V
	Display	Digital: 6,000 counts
	Operating Temperature	-4°F to 131°F
	Storage Temperature	-40°F to 140°F
	Battery Type	Four AA batteries
	Battery Life	1000 hours typical
•	Radio Frequency	2.4 GHz ISM Band
	Operating Altitude	2000 m



289 FLUKEVIEW[®] MULTIMETER

	Maximum Voltage	1000 V
	Battery Type	6 AA
	Battery Life	100 Hours
FLUKE	Operating Temperature	-4°F to 131°F
	Storage Temperature	-40°F to 140°F
	True-RMS	100 kHz
	Logging Memory	Up to 15K readings
	Conductance	50.00 nS
	Shock	1 meter drop

Fluke 289 Electronic

Multimeters allow you to log and zoom in on problems. Now compatible with the Fluke connect mobile app; turn your data into meaningful graphs and tables for a professional report or analyze individual readings or series of measurements.



1507 INSULATION RESISTANCE TESTER

Fluke 1507 Insulation Resistance Testers

are compact, rugged, reliable and easy to use. With its multiple test voltages, it is ideal for many troubleshooting, commissioning and preventative maintenance applications. Remote probe feature is available.

Maximum Voltage	600 V
Shock	1 meter drop
Operating Temperature	-4°F to 131°F
Storage Temperature	-40°F to 140°F
Battery Type	Four AA batteries
Battery Life	1000 hours typical
Radio Frequency	2.4 GHz ISM Band
Operating Altitude	2000 m



325 TRUE RMS AC/DC CLAMP METER



AC Current Range	40 / 400 A
AC Voltage Range	600 V
DC Current Range	40/400 A
DC Voltage Range	600 V
AC Response	True-RMS
Contact Temperature	14°F to 752°F
Backlight	Yes
Data Hold	Yes
Frequency	5.0 Hz to 500 Hz
Backlight Data Hold	Yes Yes

Fluke 325 True RMS Clamp Meters

are designed to verify the presence of load current, AC voltage and continuity of circuits, switches, fuses and contacts. These small and rugged clamp meters are ideally suited for current measurements up to 400 A in tight table compartments. The 325 also offers DC current and frequency measurements.

374 TRUE RMS AC/DC CLAMP METER

Fluke 374 True RMS Clamp Meters

can read up to 600V and 600A in both AC and DC modes. Additionally, the 374 is compatible with the new iFlex flexible current probe, which increases the measurement range to 2500 A AC and provides increased display flexibility and improved wire access.

AC Current	600 A
Jaw Opening	34 mm
Operating Temperature	50°F to 122°F
Storage Temperature	-40°F to 140°F
Batteries	2 AA, NEDA, 15A, IEC
Operating Altitude	3000 m



1410 AC/DC CURRENT CLAMP



Measurement Type	Hall sensor
Nominal Current Range	400 A - AC/DC
Max. Non-Destructive Current	400 A
Lowest Measureable Current	0.5 A
Maximum Voltage	600 V
Battery Life	9 V, 60 Hours

Fluke i410 AC/DC Current Clamps expand the functionality of digital multimeters and measures up to 400 amps for both AC and DC current. The large clamp claw gives you access to difficult to reach areas. The kit includes a handy carrying case. Thermometers & Voltage Testers

62 MAX+ INFRARED THERMOMETER



Temperature	–22°F to 1202°F
Accuracy	+/- 1%
Response Time	< 500 ms
Spectral Response	8 to 14 microns
Batteries	AA Battery
Battery Life	8 hours

Fluke 62 Max+ Infrared Thermometers are used to measure temperatures in transformers, motors, pumps, panels, breakers, compressors, duct, steam lines, valves and vents in hard to reach areas for repair and maintenance. Small in size, extremely accurate and yet easy to use.

FLUKE

1AC II A1 VOLTALERT™ VOLTAGE TESTER

Fluke 1AC II A1 VoltAlert[™] AC Non-Contact Voltage Testers are easy to use. Just touch the tip to a terminal strip, outlet or supply cord. When the tip glows red and the unit beeps, you know voltage is present. Electricians, maintenance, service and safety personnel can quickly test for energized circuits.

Voltage Sensing Ranges	90 V AC to 1000 V AC
Detector Style	Flat-tip
Light Source	One red LED
Operating Temperature	14°F to 122°F
Batteries	2 AAA Batteries
Battery Life	>1 year



LVD2 VOLTAGE DETECTOR



Fluke LVD2 Non-Contact AC Voltage Detectors

combine a LED flashlight into an easy to use pen-style design. The LVD2 is a CAT IV 600V rated non-contact detector that is suitable for commercial and industrial applications. The LVD2 includes dual sensitivity turning blue 1 to 5 inches from the source and red when at the source.

TL TWISTGUARD™ TEST LEADS

Fluke TL175 TwistGuard[™] Test Leads

offer adjustable length test tips for use in different measurement environments. The TwistGuard[™] adjustable tips enhance safety and offer versatility of length.

The WearGuard[™] indicator shows damage to leads and provides heavy duty strain relief to withstand over 30,000 bends.





OLAER - CHARGING KIT WITH HOSE BURST VALVE

A microbore hose with hose burst valve has been incorporated within the kit to assist in preventing injuries as a result of hose whip. When a hose fails the sudden and unplanned release of energy may cause serious injury or death to personnel in the vicinity.

Benefits:

- Reduced flow rate to minimize the possibility of a bursting bladder during pre-charging.
- Detachable gas bottle adaptor that can be changed without replacing the entire assembly.
- Olaer specially designed flow restriction hose burst valve that helps prevent hose whip and potential injury in the case of hose failure.
- The hose burst valve will close if the nitrogen supply is too high or if the supply valve was opened too fast.
- After closing the nitrogen supply valve there will be a short delay before the safety valve automatically opens again.
- Maximum working pressure: 350 bar.
- Each kit contains 3 different charging adaptors which will accommodate the majority of European bladder and piston accumulators.





Assembly Contents:

- Hose burst valve
- Microbore hose
- Safety pressure gauges
- Charging adaptors

- Spare seals
- Charging set body
- Protective case (Shown above)

Assembly Stock Number					Component Part	s	
10607-01	10607-02	10607-03	10607-04	10607-05	10607-06	Charging Kit Assembly	Stock No.
1	1	1	1	1	1	Olaer Charging Set	10608
1	1	1	1	1	1	Charging Hose Assembly	10609
1				1		Pressure Gauge 0-25 bar	45083-099
1			1		1	Pressure Gauge 0-25 bar	45086-099
	1		1			Pressure Gauge 0-25 bar	45084-099
	1					Pressure Gauge 0-25 bar	45087-099
		1				Pressure Gauge 0-25 bar	45117-099
		1		1	1	Pressure Gauge 0-25 bar	45085-099



STOCK NUMBER 1880-20V LITHIUM-ION BATTERY OPERATED

Powerful, versatile technology from the lubrication experts.

- High pressure and volume The PowerLuber's redesigned, hightorque powerhead delivers grease at up to 10,000 psi (689.5 bar) in both high and low-output settings. The new design reduces battery load and maximizes grease output per charge.
- Accuracy and precision The tool's liquid crystal display (LCD) accurately indicates standard readings such as battery level and grease flow (grams or ounces). In addition, the LCD's flow meter detects the loss of prime, eliminating false readings to help ensure the equipment being serviced is properly

• Work-ready design

lubricated.

The rugged PowerLuber's new threepoint base keeps the tool upright and stable for easy handling without being bulky to allow easy access to fittings in tight spaces. Also, the tool has a convenient, built-in LED to Illuminate the work area.

WARNING

For safe and proper use, always consult instructions accompanying product. See **Safety Warning Information** for appropriate warnings.

Kit contents are packed in a heavy-duty carrying case, molded from impact and stain resistant plastic.





FEATURES

- Multi-function LCD
 Display shows grease output and battery charge, and alerts the operator of blocked fittings and loss of prime.
- Work light Built-in LED illuminates the work area.
- Three-point base Base keeps the grease gun upright for easy handling and helps to keep the tool clean.
- Two-speed digital grease output selector

Switch from low-volume to high-volume dispensing with the touch of a button.

- Vent valve and filler nipple The vent valve purges trapped air to help assure easy prime, and the filler nipple facilitates a quick, clean refill for those who prefer to bulk fill their barrel.
- Integrated hose holder and tube guide

The holder's unique design allows for secure hose storage, and the tube guide provides easy threading of the grease barrel.

• Flex hose

The 36 in. (91 cm) flex hose comes with anti-kink spring guards on each end and is the ideal size for most lubrication tasks.

Lithium-ion battery

Lithium-ion technology is powerful and efficient, delivering an even flow of energy and eliminating the slowdown associated with NiCad, while offering three times the charge cycles.

1884 Kit Contents		
Stock Number	Description	
1880	20 V Lithium-Ion PowerLuber	
1871	Two - 20V Lithium-Ion Slide on Batteries	
1870	High Output 110V AC Charger	
1875A*	1 Hour - 12 or 24V DC Vehicle Charger	

* 1875A is not included in the 1884 Kit.

The 1875A and other kit contents may be ordered separately.

Stock Number 1870



PowerLuber Grease Guns



STOCK NUMBER 1860-18V LITHIUM-ION BATTERY OPERATED

Lincoln introduces the most advanced grease gun on the market. The new Li-ion series offers far more than just extended run times. This powerful grease gun includes a multi-function LCD with many features including an easy to understand read-out showing the quantity of lubricant being dispensed to prevent over lubricating and wasting grease.

FEATURES

- LCD quantity of grease dispensed, quantity of grease remaining in cartridge, battery charge level, stall indicator, operation symbol.
- LED lights up hard to locate fittings when under equipment or in the shade.
- New 18 V low-interference, high-performance motor.
- New heavy-duty pump casting.
- New motor protection design includes self-resetting thermal switch and front relief valve.
- Two-speed transmission delivers excellent output and pressure.
- New longer 36 in (914 mm) high-pressure hose.
- New air-purge valve for immediate prime.
- Bulk filler valve.
- Check-ball accessibility allows easy cleaning of contaminated or hardened grease.

WARNING

For safe and proper use, always consult instructions accompanying product. See Safety Warning Information for appropriate warnings.







KIT DETAILS

1864 Kit Contents		
Stock Number	Description	
1860	18 V Lithium-Ion PowerLuber	
1861	Two - 3.0 High-Amp Li-ion Slide on Batteries	
1850	1 Hour - 110V AC Charger	
1855A*	1 Hour - 12 or 24V DC Vehicle Charger	
1236*	36" High Pressure Hose with Spring Guards	

* 1855A and 1236 are not included in the 1864 Kit.

The 1855A, 1236 and other kit contents may be ordered separately.





Stock Number 1855A









STOCK NO. AC2440 - CORDED AC POWERED

Corded AC power

The first of its kind in the industry, the 120 V corded PowerLuber's motor provides the highest torque values in its class. Its variable speed trigger combines with a two-speed transmission for precise flow control. Ideal for filling grease reservoirs, the 120 V grease gun is an excellent alternative to pneumatic lube tools.



Stock Number AC2440

Features

- High torque 120 V AC motor.
- Unmatched for power, longevity and performance.
- Variable speed trigger combines with the 2-speed transmission for excellent flow control.
- Excellent for refilling grease reservoirs.
- Excellent alternative to pneumatic lube tools.
- Pressure relief valve to prevent motor overload.
- Check-ball accessibility allows easy cleaning of contaminated or hardened grease.
- Includes 30 in (762 mm) hose (Stock No. 1230).

WARNING

For safe and proper use, always consult instructions accompanying product. See Safety Warning Information for appropriate warnings.

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9/0		

STOCK NUMBER AC 2440 TECHNICAL INFORMATION		
Voltage	120 V	
Transmission	2-speed transmission with variable speed trigger	
Lube capacity	16 oz. (454 cm ³) bulk/14.5 oz (411 cm ³) cartridge	
Grease flow indicator	Patented stroke counter	
Output pressure	7,000 PSI (483 bar)	
Output rate per minute*	3.6 (L) to 8.0 oz (H) [102 (L) to 227 cm ³ (H)]	
Cartridges dispensed per charge	Unlimited	
Overload protection	Pressure relief valve, thermal protector	
Bulk filler valve	Yes	
Quick vent - air purge valve	Yes	
Hose type	30 in (762 mm) Stock Number 1230	
Compact carrying case	Yes	
Hose, coupler, cord clip	Yes	
6 ft. (1.8 m) power cord	Yes	

* At 1,000 PSI (69 bar) back pressure

GREASE GUN ACCESSORIES

GREASE HOSE EXTENSIONS

Extensions for grease guns and air-operated control valves include a strategically placed coil spring. The coil spring provides non-slip, push-pull grip and prevents accidental kinking which could result in hose ruptures.



	Hose Extension Specifications				
Stock	Extensio	Extension Length		n Pressure	
Number	(inches)	(mm)	(PSI)	(Bar)	
5812	12	305	4,500	310	
5818	18	457	4,500	310	
5861	36	914	4,500	310	
1230	30	762	7,500	517	



- 6,000 PSI (408 bar) max. operating pressure
- Small diameter allows easy contact with recessed fittings.
- Built-in check valve prevents leaks and lubricant back-up
- Inlet 1/8" NPT (f) 3-Jaw Design



WARNING

For safe and proper use, always consult instructions accompanying product. See Safety Warning Information for appropriate warnings.

LINCOLN



MANUALLY OPERATED GREASE GUNS

For over a century, professionals who demand quality lubrication tools have recognized Lincoln as the industry leader. Professional mechanics in all industries depend on Lincoln tools for their livelihood. Lincoln tools offer superior performance and are backed by the most comprehensive warranty offered.



Features

- Rugged cast pump head for strength and durability.
- Jam-proof toggle mechanism prevents binding.
- Performance-proven design.
- Locking follower rod with removable end cap.
- Extra-heavy follower spring ensures positive priming and uninterrupted pumping action.
- Accessible check valve allows easy cleaning without gun disassembly.
- Follower rod locks into follower to force prime.
- Precision fit and hardened plunger prevents lubricant bypass, resists scoring for longer life.





GREASE GUN COMPARISON CHART	1142	1148	1013
Durable high-pressure grease gun	Х	Х	Х
Precision fit and hardened plunger	Х	Х	Х
Accessible check valve	Х	Х	Х
5852 hydraulic coupler	Х	Х	Х
Rugged cast head	Х	Х	Х
Locking follower rod	Х	Х	Х
Removable end cap	Х	Х	Х
Variable stroke/variable pressure		Х	Х
Multi-port pickup for greasing in tight areas		Х	Х
Air purge valve		Х	
Large piston and bore			Х
High output setting			Х
360° rotating extension			Х
Quick adjustment handle			Х
Plated barrel, head and handle			Х
Bulk filler nipple			Х
Ergonomic hand grip			Х

WARNING

For safe and proper use, always consult instructions accompanying product. See **Safety Warning Information** for appropriate warnings.

MANUALLY OPERATED BUCKET PUMPS



Quality built Lincoln Bucket Pumps dispense high-pressure lubrication at temperatures as low as 0° F / -18° C. Large lubricant capacity with easy pumping action develops a 3,500 PSI maximum pressure to lubricate closely fitted bearings. Automatic pressure release prevents nozzle drip, waste and mess. Pump and lid assembly easily removes as a single unit for filling.

• You must order Stock No. 81768 (7 ft Hose and Coupler Assembly) separately.

Stock No. 1272 Bucket Pump Specifications					
Container Size Maximum Pressure		Output	/ Stroke		
(Lbs.)	(Kgs.)	PSI	Bar	Oz.	cm ³
30 14 3,500 241 .28 8.3				8.3	



798 ELECTRONIC CALIPERS (0-12 Inch)

FEATURES

- IP67 level of protection (IEC standard 60529).
- Fine adjustment.
- Hardened stainless steel measuring surfaces.
- Large, easy-to-read, high-contrast LCD digital readout.
- Induction type linear encoder system.
- RS232 output.
- Heavy-duty bar and slide.
- Slide lock.
- One 3-Volt battery for over one year of normal usage.
- In/mm conversion.
- Zero at any position.
- Auto-Off after 30 minutes.
- Reactivation of display with no loss of position.
- Works well with Starrett DataSure® Wireless Data Collection Systems.

798 ELECTRONIC CALIPER SPECIFICATIONS				
STOCK NUMBER	DESCRIPTION	RANGE	JAW DEPTH**	
			Outside	Inside
798B-6/150	Caliper with output	0-6" (150mm)	1-1/2" (38mm)	5/8" (16mm)
798B-6/150 W/SLC*	Caliper with output	0-6" (150mm)	1-1/2" (38mm)	5/8" (16mm)
798BX-6/150	Caliper with output	0-6" (150mm)	1-1/2" (38mm)	5/8" (16mm)
798A-6/150	Caliper without output	0-6" (150mm)	1-1/2" (38mm)	5/8" (16mm)
798B-8/200	Caliper with output	0-8" (200mm)	1-7/8" (48mm)	3/4" (19mm)
798B-8/200 W/SLC*	Caliper with output	0-8" (200mm)	1-7/8" (48mm)	3/4" (19mm)
798A-8/200	Caliper without output	0-8" (200mm)	1-7/8" (48mm)	3/4" (19mm)
798B-12/300	Caliper with output	0-12" (300mm)	2-1/2" (64mm)	3/4" (19mm)
198B-12/300 W/SLC	Caliper with output	0-12" (300mm)	2-1/2" (64mm)	3/4" (19mm)
798A-12/300	Caliper without output	0-12" (300mm)	2-1/2" (64mm)	3/4" (19mm)
ACCESSORIES, O	ACCESSORIES, CABLES AND CASE INFORMATION FOR 798 ELECTRONIC CALIPERS			
PT26151	Center distance attachment			
PT22431	Depth attachment			
PT63388	Computer interface cab	le to PC (USB) wi	th driver CD	
PT63329-1	Replacement non-contact computer interface cable to PC (USB)			(USB)
PT99492	Two 3-Volt batteries, CR2032			
723ZZ-6/722ZZ-6	Deluxe padded case for 0-6" (150mm) calipers			
950	Finished wood case for	0-8" (200mm) d	alipers	
946	Finished wood case for	0-12" (300mm) d	alipers	
* Includes redemptio	* Includes redemption card for Standard Letter of Certification (SLC).			
** Jaw depth measurements are approximate.				

STARRETT® IP PROTECTION







120 & 120M DIAL CALIPERS (0-12 Inches)

READABILITY FEATURES

- Sharp, clear dial graduations of .001", 0.02mm .100" or 2mm in one revolution.
- Sharp, black graduation on the satin finished bar, every .100" or 1mm.
- Choice of black, red, or white inch dials; millimeter dials are yellow.

EASE OF HANDLING FEATURES

- Knife-edge contacts for both inside and outside measurements.
- One hand use with the thumb-operated, fine adjustment roll.
- Lock screw for dial bezel and for holding the sliding jaw in position.
- Detachable depth rod available for 12" (300mm) model.
- Parallel lines can be scribed on a workpiece by setting the caliper jaw to the required dimensions, locking the movable jaw with the lock screw and then using the front edge of the fixed jaw as the scribing surface.

ACCURACY AND LONG-LIFE FEATURES

- Long-wearing carbide faces on outside contacts on model 120AX-6 and 120MX-150 only.
- Hardened stainless steel bar, measuring surfaces, rack, gears and depth rod.
- Positive, split-gear anti-backlash control.
- Rack teeth point down to make it easy to shed foreign matter and thereby keep the area clean.





120AM-150 metric dial caliper with yellow dial

STOCK NUMBER	DESCRIPTION	RANGE	DIAL COLOR	JAW D	DEPTH**
		1	1	Inch	Metric
120A-6	Caliper in fitted plastic case	0-6″	White	5/8″	16mm
120A-6 W/SLC *	Caliper in fitted plastic case	0-6"	White	5/8″	16mm
120X-6	Caliper in fitted plastic case	0-6″	White	1-1/2″	38mm
B120A-6	Caliper in fitted plastic case	0-6″	Black	5/8″	16mm
B120A-6 W/SLC*	Caliper in fitted plastic case	0-6"	Black	1-1/2"	38mm
R120A-6	Caliper in fitted plastic case	0-6"	Red	5/8″	16mm
R120A-6 W/SLC*	Caliper in fitted plastic case	0-6″	Red	3/4″	19mm
120AZ-9	Caliper in finished wood case	0-9″	White	5/8″	16mm
120A-9	Caliper without case	0-9″	White	1-1/2"	38mm
120Z-12	Caliper in finished wood case	0-12"	White	3/4"	19mm
120Z-12 W/SLC*	Caliper in finished wood case	0-12"	White	3/4″	19mm
120-12	Caliper without case	0-12"	White	2-1/2"	63mm
120-12 W/SLC*	Caliper without case	0-12"	White	2-1/2"	63mm
	120M Dial C	alipers (0.02mm Grad	duation) SPECIFICATIO	NS	
120AM-150	Caliper in fitted plastic case	0-150mm	Yellow		16mm
120AM-150 W/SLC*	Caliper, without case	0-150mm	Yellow		38mm
120MX-150	Caliper in fitted plastic case	0-150mm	Yellow		38mm
120MZ-225	Caliper in wood case	0-225mm	Yellow		16mm
120M-225	Caliper without case	0-225mm	Yellow		38mm
120MZ-300	Caliper in wood case	0-300mm	Yellow		19mm
120MZ-300 W/SLC*	Caliper in wood case	0-300mm	Yellow		19mm
120M-300	Caliper without case	0-300mm	Yellow		63mm
120M-300 W/SLC*	Caliper without case	0-300mm	Yellow		63mm
	Accessor	ies and cases for 120	& 120M Dial Calipers		
PT26151	Center distance attachment				
PT22431	Depth attachment for 6", 9" and 150mr	n calipers.			
PT26091	Detachable depth rod for 12" calipers.				
943	Deluxe padded case for 6" (150mm) cali	pers.			
	Finished wood case for 9" (300mm) cali	pers.			
950	Finished wood case for 12" (300mm) calibers.				
	Finished wood case for 12" (300mm) ca	lipers.			
950 946 915	Finished wood case for 12" (300mm) ca Leather holster for 6" (150mm) calipers.	lipers.			

MIZZY P



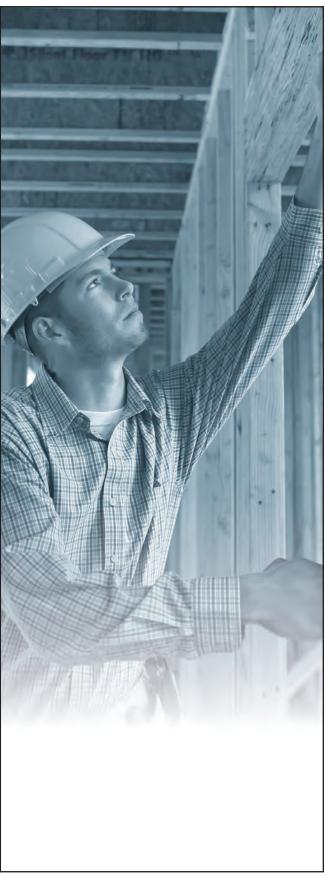
P1000 Hi-Viz® orange ABS case with rubber overmold grip.

P2000 Chrome-plated ABS case.





	LUFKIN TAPE MEASURE SPECIFICATIONS				
Stock	Number	Description	Tape Case	Case Qty.	
	P2210MEXN	1/2" x 10' (13mm x 3m) Met/Dec	Chrome	6	
	P2223CMEN	1/2" x 10' (13mm x 3m)	Chrome	6	
Lufkin	P2210N	1/2″ x 10′	Chrome	6	
10' 3m	PHV1010N	1/2" x 10'	Hi-Viz Orange	6	
	PHV1023CMN	13mm x 3m	Hi-Viz Orange	6	
	PHV1023CMEN	1/2" x 10' (13mm x 3m)	Hi-Viz Orange	6	
	P2024CMEN	1/2" x 12' (13mm x 4m)	Chrome	6	
	P2212DXN	1/2" x 12' Dec/Fract	Chrome	6	
	P2212XN	1/2" x 12' Engineers	Chrome	6	
	P2212N	1/2″ x 12′	Chrome	6	
	PHV1012N	1/2″ x 12′	Hi-Viz Orange	6	
	PHV1024CMEN	1/2" x 12' (13mm x 4m)	Hi-Viz Orange	6	
Lufikin	P2034CMEN	3/4" x 13' (19mm x 4m)	Chrome	6	
12' 4m	P2312DN	3/4" x 12' Engineers	Chrome	6	
	P2312N	3/4″ x 12′	Chrome	6	
	PHV1034CMEN	3/4" x 13' (19mm x 4m)	Hi-Viz Orange	6	
	PHV1034DMN	3/4″ x 13′ (19mm x 4m) Eng	Hi-Viz Orange	6	
	PHV1312N	3/4″ x 12′	Hi-Viz Orange	6	
	PHV1312DN	3/4" x 12' Engineers	Hi-Viz Orange	6	
	PQR1312N	3/4" x 12' Quick Read	Hi-Viz Orange	6	
	P2035CMN	19mm x 5m	Chrome	6	
	P2035CMEN	3/4" x 16' (19mm x 5m)	Chrome	6	
-	P2335MEN	3/4" x 16' (19mm x 5m)	Chrome	6	
Lufkin	P2316N	3/4″ x 16′	Chrome	6	
16' 5m	PHV1035CMN	19mm x 5m	Hi-Viz Orange	6	
	PHV1035CMNEN	3/4" x 16' (19mm x 5m)	Hi-Viz Orange	6	
	PHV1316N	3/4″ x 16′	Hi-Viz Orange	6	
	PQR1316N	3/4" x 16' Quick Read	Hi-Viz Orange	6	
	P2125N	1″ x 25′	Chrome	6	
	P2048CMEN	1" x 26' (25mm x 8m)	Chrome	6	
	PHV1048CMN	25mm x 8 m	Hi-Viz Orange	6	
	PHV1048CMEN	1" x 26' (25mm x 8m)	Hi-Viz Orange	6	
Lufkin 25'	PHV1048DMN	1" x 26' (25mm x 8m) Eng	Hi-Viz Orange	6	
25' 8m	PHV1425N	1″ x 25′	Hi-Viz Orange	4	
	PHV1425DN	1" x 25' Engineers	Hi-Viz Orange	4	
	PHV1425EDN	1" x 25' 10ths/100ths	Hi-Viz Orange	6	
	PQR1425N	1″ x 25′ Quick Read	Hi-Viz Orange	6	
	P2133DN	1" x 33' Engineers	Chrome	6	
	P2410CMEN	1″ x 33′ (25mm x 10m)	Chrome	6	
Lufkin	P2133N	1″ x 33′	Chrome	6	
33' 10m	PHV1410CMEN	1″ x 33′ (25mm x 10m)	Hi-Viz Orange	6	
	PHV1433N	1″ x 33′	Hi-Viz Orange	6	
	PHV1433DMN	1″ x 33′ (25mm x 10m) Eng	Hi-Viz Orange	6	



UFKIN Power Return Tapes



Task-Specific Markings

For Higher Productivity

FT& IN.

INCHES

2

2

2 Lufkin

4

English Feet/Inches

Quick Read

LUFKIN® TAPE MEASURES – DESIGNED FOR THE INDUSTRIAL USER

• Exceeds NIST traceable standards.

on 1-inch blade-width models.

abrasion-resistance standards.

test for corrosion resistance.

COMFORT and SELECTION

• Full-length clearcoat exceeds ASTM

• Super-tough ABS case with radial ribs for

Patented Quad-Hook[®] long-life end hook

Tapes exceed ASTM 96-hour salt spray

• 9-foot standout on 1-inch blade width

Exclusive toggle blade-lock holds securely.

ACCURACY

DURABILITY

added strength.

PERFORMANCE

models

Industrial users demand more from their tapes. Accuracy is key and durability is essential. New Lufkin P1000 and P2000 tapes have both.

Accuracy is assured by stringent testing of tapes statistically selected and measured against National Institute of Standards and Technology (NIST) traceable standards. Lufkin tapes routinely exceed NIST standards in every category, so users can be confident their measurements are consistently accurate.

Lufkin built its reputation on durability and these new tapes are no exception. Their cases are made of tough ABS plastic, modified for increased strength and impact resistance. Models with 1-inch width blades feature the patented Quad-Hook® steel-reinforced four-rivet end hook for blade life that blows away the competition, and all blades get a full-length protective clear-coat that exceeds ASTM standards for abrasion resistance.

Lufkin P1000 and P2000 tapes. The new industrial standard.

• Case designed to fit the hand. • Easy thumb operation of toggle Exclusive toggle blade-lock for positive blade-lock. Engineers Feet/Decimal easy blade control 360-degree rubber overmold on P1000 tapes for non-slip grip. Full chrome case on P2000 tapes. Over 40 combinations of width, length, 2 3 4 5 6 blade markings and case style. Metric/Centimeter Also available in full chrome Non-slip rubber THILL HILLING full overmold grip Decimal/Metric Full-length clearcoat for Ouad-Hook[®] end hook on all 1-inch blade-width more durable markings models for extra-long 2 3 4 5 6 blade life English Metric/Centimeter Durable ABS Hi-Viz® orange case am 30 40 50 60 English Metric/Millimeter

1/2" x 328 Ft. Hi-Viz® ORANGE FIBERGLASS, 2-SIDED, METRIC/ENGLISH

- Open Four-Arm Frame design protects blade.
- Does not trap dirt in case.
- Lightweight, strong case is easy to handle and rewind.
- Two-Material Grip is comfortable to use.
- Hi-Viz[®] Orange Case is easy to locate.
- Folding End Hook for true-zero measurements.
- Yellow Clad Fiberglass Blade impervious to moisture.
- Feet and Inches to 8Ths; Metric to Millimeters, Numbered in Centimeters.



SPECIFICATIONS		
Stock No.	FM100CME	
Case Color	Orange	
Blade Width	13mm, 1/2″	
Blade Length	100m, 328'	
Blade Finish	Fiberglass	
Weight	3.25 lbs	

1 FT.& IN.



Skylotec - IGNITE PROTON Wind Harness

The IGNITE PROTON safety harness has a sophisticated design and leaves nothing to be desired in terms of comfort and usability. Product features include: AIRPAD hip padding, central chest eyelet, click buckles, gear loops, tool eyelet, lanyard parking rings, slide plate and a climbing protection eyelet. The IGNITE PROTON Wind Harness provides comfort through superior design.



Front

STOCK NUMBER	G-US-1137-WS-(Size)
STANDARD	ANSI Z359.11
SIZES	XS/M - M/XXL - XXL/5XL
MAXIMUM RATED LOAD	308 lbs.
FALL INDICATOR	Yes
SHOULDER or LEG PADDING	Yes
MAXIMUM SERVICE LIFE	6-8 Years
MAXIMUM PERSON(S)	1
ATTACHMENT POINTS	Rear, Chest, Retaining, Climbing
BACK SUPPORT	Yes
MAXIMUM TEMPERATURE	95-113 °F
HAND-WASHING TEMPERATURE	104 °F
MATERIALS	Polyester, Aluminum, Stainless Steel
UNIT WEIGHT	6.55 lbs.



Back

Skylotec - ARG 31 SKYFIZZ Harness

The ARG 31 SKYFIZZ harness features front and rear suspension, steel eyelets and a central chest eyelet. Crossed harness straps are sewn to the comfortable back padding and the quick locks are convenient and easy for donning and removal of the harness.



Front

STOCK NUMBER	G-0031-(Size)
STANDARD	ANSI Z359.1 & 3
SIZES	M/L - L/XXL - XXXL
WAIST SIZE	30" to 40"
FALL INDICATOR	Yes
SHOULDER or LEG PADDING	Yes
MAXIMUM SERVICE LIFE	6-8 Years
MAXIMUM PERSON(S)	1
ATTACHMENT POINTS	Dorsal & Sternal
MAXIMUM TEMPERATURE	95-113 °F
HAND-WASHING TEMPERATURE	104 °F
MATERIALS	Polyester and Steel
UNIT WEIGHT	6.55 lbs.



Back



Skylotec -TOWER PRO Harness

The TOWER PRO harness features an innovative design and outstanding features offering optimal comfort and freedom of movement while climbing towers or on the ground.

- TOWER PRO has D-rings on the back, hips, seat board and chest.
- TOWER PRO AL is equipped with stainless steel fittings and fasteners.
- TOWER PRO stock number: G-1080-(Size)



TOWER PRO STOCK NUMBER	G-1080-(Size)
STANDARD	ANSI Z359.1-2007
SIZES	XS/M or M/XXL
MAXIMUM RATED LOAD	308 lbs.
FALL INDICATOR	Yes
SHOULDER or LEG PADDING	Yes
MAXIMUM SERVICE LIFE	6-8 Years
MAXIMUM PERSON(S)	1
ATTACHMENT POINTS	Dorsal, Sternal and Pole Strap
BACK SUPPORT	Yes
MAXIMUM TEMPERATURE	95-113 °F
HAND-WASHING TEMPERATURE	104 °F
MATERIALS	Polyester, Aluminum, Stainless Steel
UNIT WEIGHT	10.05 lbs.



Front

Back

Skylotec - RESCUE PRO 2.0 Harness

The RESCUE PRO 2.0 Harness fits comfortably and has the following features:

- Changeable rope clamp
- V-shaped back design with comfort padding
- Adjustable & interchangeable shoulder pads
- Double layer leg padding for increased comfort
- Aluminum quick connect buckles on leg straps
- Seven material loops

- Five tool eyelets and detachable rescue knife
- Loops for seat board attachment
- · Large aluminum sternal attachment point
- Fall indicator on the rear shoulder
- Large hip D-rings
- · Front attachment point in different colors for visual aids



Front

STOCK NUMBER	G-1083-AL-(Size)
STANDARD	ANSI Z359.11
SIZES	XS - M - L - XL - 5X
FALL INDICATOR	Yes
SHOULDER or LEG PADDING	Yes
MAXIMUM SERVICE LIFE	6-8 Years
MAXIMUM PERSON(S)	1
ATTACHMENT POINTS	Dorsal, Sternal, Pole Strap, Seat
BACK SUPPORT	Yes
MAXIMUM TEMPERATURE	95-113 °F
HAND-WASHING TEMPERATURE	104 °F
MATERIALS	Polyester, Aluminum, Steel
UNIT WEIGHT	5.73 lbs.



Back

www.lift-it.com



Harnesses - DBI Sala

EXOFIT NEX™ Tower Climbing Harness

ExoFit NEX[™] harnesses are manufactured using materials that don't add unnecessary weight for ultimate comfort. When speed and efficiency are necessary, ExoFit NEX[™] will provide the freedom and confidence to function at your maximum potential.



- Hybrid shoulder, back and leg comfort padding
- Stand-up Tech-Lite aluminum back D-ring
- Tech-Lite[™] aluminum front D-ring
- Body belt/hip pad with Tech-Lite™ aluminum side D-rings
- Removable seat sling with aluminum board and suspension D-rings
- Duo-Lok[™] quick connect chest and leg straps
- Repel[™] webbing
- Built-in lanyard keepers
- Revolver[™] vertical torso adjusters
- Impact indicator
- Integrated trauma straps
- Built-in reflective materials
- Protected labels equipped with i-Safe™

Size
Small
Medium
Large
X Large



Back



DELTA™ Positioning Harness

The Delta[™] harness represents the culmination of more than twenty years of design, research, manufacturing know-how and on the-job performance. They feature coated, corrosion resistant hardware, water-repellant and abrasion resistant webbing and a manufacturing quality that is second to none.

- No-tangle design
- Stand-up back D-ring
- **Tongue buckle** leg straps
- Repel[™] webbing
- Built in lanyard keepers
- Impact Indicator
- Revolver vertical torso adjusters •
- Protected labels equipped with i-Safe[™] •

	Stock No.	Size
	1102201C	Small
	1101654C	Medium
	1101655C	Large
	1101656C	X Large
S	1102205C	2X Large
	1101660C	3X Large



Back

909.469.2251

Front

70

www.lift-it.com

Harnesses - DBI Sala



EXOFIT[™] XP Vest Style Harness



Front

Removable shoulder, back and leg padding with breathable 3-D Mesh Lining makes EXOFIT[™] XP the ultimate in comfort and safety. The "X" shaped padding wraps around for No-Tangle donning. Stand-Up Back D-ring enables connections to be made without straining.

- Breathable 3-D Mesh Lining with soft edging for comfort.
- Patented, Spring-Loaded, Stand-Up Back D-ring with Impact Indicator.
- Integral Lanyard keeper to prevent trip-fall hazards.
- i-Safe[™] RFID Equipped, using HF

Stock Number & Size			D. Dimon	Buckle	Belt	
Small	м	L	XL	D-Rings	Туре	Loops
11101(00)	(01)	(02)	(03)	Back	Quick Connect	Yes
11101(25)	(26)	(27)	(28)	Back	Tongue Buckle	Yes
11102(25)	(26)	(27)	(28)	Back	Quick Connect	Yes



Back

EXOFIT NEX™ Wind Energy Harness



Front

Aluminum front, back and side D-rings, locking, quick connect buckles and sewn in hip pad with belt and lumbar protection are standard features of the EXOFIT[™] NEX harness.

- Compliant with ANSI, OSHA, CSA and CE.
- Features a replaceable Lumbar Protector
- Radio Holster, conveniently holds and protects a radio, cell phone or other items.
- Quick Connect Buckle, the patented DBI-SALA Quick Connect Buckle is color-coded and provides one-hand operation for fast and easy donning.

Without Lumbar		
Stock No.	Size	
1113210	Small	
1113211	Medium	
1113212	Large	
1113213	X Large	

With Lumbar		
Stock No.	Size	
1113215	Small	
1113216	Medium	
1113217	Large	
1113218	X Large	



Back





SKYSAFE PRO FLEX Y

STOCK NUMBER L-0558-1.8 STANDARD ANSI Z359.13 MAXIMUM SERVICE LIFE 4-6 Years MAXIMUM PERSON(S) 1 **BREAKING POINT** 22 kN MAXIMUM TEMPERATURE 95-113 °F HAND-WASHING TEMPERATURE 104 °F MATERIAL Polyester, Aluminum WEIGHT 4.14 lbs. SIZE 1.8m

Lanyards - Skylotec

- Revolutionary, new, patented energy absorber with a weight range of 110 to 310 lbs.
- Withstands a maximum impact of less than 6kN at a maximum length of 5.7 Ft.
- Built-in, adjustable RESCUE LOOPS .
- Rescuers need not set up a rescue system and save precious time.

- Patented energy absorber with a weight range of 110 to 301 lbs.
- Withstands a maximum impact of 6kN at a max. length of 5.7 Ft.
- Available in four different carabiner combinations: l-rope l-rope tie-back Y-rope Y-rope tie-back

STOCK NUMBER	L-0620-1.8
STANDARD	ANSI Z359.13
MAXIMUM SERVICE LIFE	4-6 Years
MAXIMUM PERSON(S)	1
BREAKING POINT	22 kN
MAXIMUM TEMPERATURE	95-113 °F
HAND-WASHING TEMPERATURE	104 °F
MATERIAL	Polyester, Aluminum
WEIGHT	4.14 lbs.
SIZE	1.8m



SKYSAFE PRO TIE BACK Y

Skylotec - Retractable Lanyards

- Ultra-compact, retractable fall arresters with FS 64 AL carabiner for anchoring.
- Single & Double Leg models are equipped with One-4-All shock absorber.
- The 6' length is optimal for use in aerial work platforms.



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Peanut I Single Leg

STOCK NUMBER (Single Leg)	HSG-021-1-8-6
STOCK NUMBER (Double Leg)	HSG-022-1-8-6
STANDARD	ANSI Z359.14
MAXIMUM SERVICE LIFE	4-6 Years
MAXIMUM PERSON(S)	1
MAXIMUM RATING	50-135 kg
MAXIMUM TEMPERATURE	95-113 °F
MATERIAL	Polyester, Nylon, Aluminum
SIZE	6 Ft. (1.8m)



Peanut Y Double Leg





EZ-STOP™ SHOCK ABSORBING LANYARDS

Lanyards used for fall protection must include a shock absorber to dissipate the energy of the fall, limiting the forces on the falling user's body.

6ft. Web single-leg with snap hooks at each end.

Stock Number: 1246011

ShockWave™2 100% TIE-OFF SHOCK ABSORBING LANYARDS

For additional flexibility and safety, DBI-SALA ShockWave™ 2 Lanyards incorporate a unique stretchable design, expanding to 6 ft. which enables complete freedom of movement while reducing trip fall hazards, dragging or snagging.

6 ft. double-leg 100% tie-off with elastic web and snap hook at center, aluminum rebar hooks at legs ends.



Stock Number: 1244409



WEB ADJUSTABLE POSITIONING LANYARDS

Web lanyards without shock absorbers may be used for applications that require positioning, restraint of a worker or if the possibility of a fall is less than 2 Ft.

6ft. Single-leg Positioning Lanyards are adjustable with snap hooks at each end.

Stock Number: 1231016

EZ-STOP™ 100% TIE-OFF SHOCK ABSORBING LANYARD

The EZ-STOP[™] lanyard provides 100% tie-off. It allows you to stay connected and protected while you move from one location to another. Should a fall occur, the lanyard and it's unique energy absorbing system will activate stopping the fall and reducing the forces imposed on the user to acceptable levels.

6ft. Web double-leg 100% tie-off with adjustable, tie-back D-rings and snap hooks at each end.



Stock Number: 1246070

Rescue Descenders - Skylotec

MIL	AN 2.0	MILAN	2.0 HUB	MILAN 2.	0 POWER
		G		G	
STOCK NUMBER	A-027	STOCK NUMBER	A-028	STOCK NUMBER	A-029
STANDARD	ANSI Z359.4-2007	STANDARD	ANSI Z359.4-2007	STANDARD	ANSI Z359.4-2007
LENGTH	136 ft.– 4 in.	LENGTH	136 ft.– 4 in.	LENGTH	136 ft.– 4 in.
FEET PER SECOND	2.95'	FEET PER SECOND	2.95'	FEET PER SECOND	2.95
MAXIMUM PERSONS	2	MAXIMUM PERSONS	2	MAXIMUM PERSONS	2
WEIGHT	4.19 lbs.	WEIGHT	6.8 lbs.	WEIGHT	10.58 lbs.
SUSPENSION ELEMENT	Coated Core Rope 9mm	SUSPENSION ELEMENT	Super Static 9mm	SUSPENSION ELEMENT	Coated Core Rope 9mm
MILAN 2.0 has a as a standard co rescue equipme The MILAN 2.0 reinforced, centri brake that keeps speed constant, efficient rescue The housing is a aircraft grade al	EMENT9mmor more than 10 years the ILAN 2.0 has established itself a a standard component in scue equipment.The MILAN 2.0 HUB includes all the standard features of the MILAN 2.0, but is additionally equipped with a lifting function.the MILAN 2.0 features a inforced, centrifugally controlled ake that keeps the descent beed constant, facilitating ficient rescue operations.The MILAN 2.0 HUB includes all the standard features of the MILAN 2.0, but is additionally equipped with a lifting function.This enables an accident victim to be lifted a short distance in order to release the victim's lanyard.SUPER STATIC 9.0 Rope enables the lifting function.Other ropes can not be used on MILAN 2.0 lightweight and		 The MILAN 2.0 F special version of HUB, which enable powered electricates Maximum rapp 250 kg Powered by Mit Power Drill. Note: The MILAN 2.0 Pool only be used with the M 2.0 POWER DRILL. The MILAN 2.0 Power Drindified to work specific with the MILAN 2.0 power used with MILAN 2.0 Powe	f the MILAN 2.0 oles the unit to b ally. pelling weight: ILAN 2.0 wer can ILAN rill is cally er unit.	

PAIZEUI?

Fall Arrester - Skylotec





EPIC:

Electronic Partner for Individual Climbing. With EPIC, advanced electronics enter the world of fall arresters.

The first automatic rope management system allows climbing without belay partners. The EPIC is portable and easy to attach to walls or poles and is remote controlled.

The EPIC registers a fall immediately and stops the rope from moving. The EPIC fall arrester must be used with SKYLOTEC Super Static 10.5 mm rope and

STOCK NUMBER	A-032
STANDARD	ANSI Z359.4-2007
LENGTH	136 ft 4 in.
DESCENDING SPEED	19.6 inches/second
DESCENDING HEIGHT	656 ft.
WEIGHT	19.84 lbs.
MAXIMUM PERSON(S)	1



The EPIC Fall Arrester Remote has an ergonomic design that allows for easy handheld use.

Stock No. A-032-R

LAD-SAF[™] DETACHABLE CABLE SLEEVES



3/8" (9.5mm) and 5/16" (8mm)*



Once attached, Detachable Cable Sleeves do not require any further handling by the climber and allows the user to move up and down the entire length of the ladder safety system with ease and confidence.

- Sleeve for Lad-Saf[™] fixed ladder safety system includes carabiner.
- For use on 3/8" (9.5 mm) and 5/16" (8 mm)* 1x7 or 7x19 wire core cable.
- Mobile design follows user for convenient climbing protection.
- Easy to install and detach anywhere along lifeline.
- Dual independent locking system.
- Both the X2 and X3 feature a built-in energy absorber and fall indicator while the X3 also includes a swivel**.
- Saflok[™] steel carabiner for secure connection to harness.
- Rugged and corrosion resistant construction.
- Extremely compact, lightweight design.
- Order top and bottom brackets, cable and guides separately.
 * X2 only for 5/16" (8mm)
 - ** X3 only with swivel

STOCK NUMBER	6160030	6160054
CAPACITY	310 Lbs. / 141 Kg.	311 Lbs. / 141 Kg.
DIMENSIONS (in.)	4.7 x 1.3 x 6.0	4.7 x 1.3 x 6.0
WEIGHT	2.1 Lbs. / 1.0 Kg	2.1 Lbs. / 1.0 Kg

A typical Personal Fall Arrest System (PFAS) incorporates three components often described as the ABC's of fall protection; the anchorage/anchorage connector, body support and connecting device. Don't forget about "D" either, the descent, rescue and retrieval of a fallen worker.

909.469.2251



MATERIAL HANDLING CARABINERS

Load Rated Carabiners are easy to use and feature a 5:1 design factor for lifting and are also ASME B 30.26 compliant.



- Closed Loop design may prevent accidental tip loading.
- Pins included with each carabiner to captivate the webbing or rope.



• Double-safe Auto-Lock and Auto-Latching gate.

CARABINERS

Steel Double Lock	Little Double Lock	Steel Triple Lock	Super Double TW
H-129	H-147	H-132	H-149
Scaffold Hook	Big Round TW	Big V TW	Sidewinder TW
H-143	H-144	H-145	H-150

Stock No.	H-129	H-147	H-132	H-149	H-143	H-144	H-145	H-150
Breaking Load, Gate	3,596 lbs.	3,596 lbs.	3,596 lbs.	3,596 lbs.	3,596 lbs.	3,596 lbs.	3,596 lbs.	3,596 lbs.
Breaking Load (Major Axis)	9,217 lbs.	10,116 lbs.	9,217 lbs.	9,217 lbs.	11,240 lbs.	7,868 lbs.	11,240 lbs.	8,892 lbs.
Breaking Load (Minor Axis)	3,596 lbs.	3,596 lbs.	3,596 lbs.	-	-	-	-	-
Maximum Opening	.787 in.	.55 in.	.787 in.	.944 in.	2.12 in.	2.04 in.	1.14 in.	1.88 in.
Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
Weight	.55 lbs.	.49 lbs.	.55 lbs.	.62 lbs.	1.74 lbs.	1.79 lbs.	1.34 lbs.	.90 lbs.
Locking System	Twist	Twist	Trilock	Twist	Twist	Twist	Twist	Twist

*All Carabiners are ANSI Z359.1-07 compliant.

PETZL		Swivels					ÎN I SE		
	 Prevents rope from twisting. Sealed Ball Bearings. 			 Gated swivel prevents rope from twisting. Sealed Ball Bearings. 			 Compact swivel prevents rope from twisting. Sealed Ball Bearings. 		
Stoc	k No. P58	L	St	ock No. P5	58 50		Stock No. P58	3 XSO	
Product		Stock No.	Bre	eaking Stre	-	Weight		Color(s)	
Swivel Open		258 L		8093 lbs. 5170 lbs.		.33 lbs.		Black/Red Black	
Swivel Open Micro Swivel		258 SU 258 XSO		5170 lbs.		.26 lbs.		Black	
						.10103.			
				PULLE	YS				
Parallel mounted sheaves. Compact & light weight.		t.	• Up tr caral • Large Diam			capture pulley. Aluminum sheave. AXION	heavy loads. PRO TRAXION		
Stock No	. P66A	Stor	ck No. P50A Stock No.		b. P53 Stock No. P51		10. P51A		
Product	Stock No	Rope Compatil		Sheave Dia.	Ball Bearings	Efficiency	Max. Work Loa	ad Weight	
Gemini	P66A	.275 to .4		.984 in.	Yes	91%	1348 lbs		
Rescue	P50A	.275 to .5		1.49 in.	Yes	95%	1798 lbs		
Micro Traxior Pro Traxion	P53	.314 to .4		.984 in. 1. 49 in.	Yes Sealed	91%	1124 lbs 1124 lbs		
	FJIA	.514 (0 .5		1. 49 111.	Jealeu	3378	1124 103		
			DE	SCENE	DERS				
	 Self-bral descend Equippe anti-pan function 	ler. d with iic	• Variable fr descender brake bars		ender with			Figure 8 descender. Square shape helps to prevent rope twisting.	
I'DS Stock	l'DS Stock No. D200S0		RAC	K Stock No	D. D11		HUIT Stock N	No. D02	
Material	Steel & A	lum.	Material	S/S St	eel & Alum.	Mate	rial /	Aluminum	
Weight	1.16 lbs.		Weight	1.03 I	bs.	Weig	ht .	22 lbs.	
Lowering Capacity	150-250	٨g	Lowering Capacity	100 k	g	Lowe Capa		100 kg	
Rope dia.	.39 to .45	-	Rope dia.		.51 in.	Rope	-	31 to .51 in.	
			L				1		

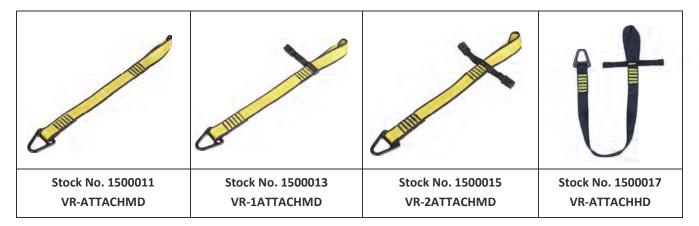
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TOOL CINCH ATTACHMENTS

- Tool Cinch Attachments feature a cinch design that allows users to quickly secure equipment up to 80 lbs.
- Straps can be used to keep Tool Cinch Attachments in place using Safety Quick Wrap Tape.



STOCK NO.	DESCRIPTION	LOAD RATING	STRAPS	COMMON TOOLS
1500011	Tool Cinch Plain	35 lbs.	0	Closed handled tools without triggers.
1500012	1500011 (10 Pack)	35 lbs.	0	Closed handled tools without triggers.
1500013	Tool Cinch - 1 Strap	35 lbs.	1	Impact Wrenches, Band Saws and Drills.
1500014	1500013 (10 Pack)	35 lbs.	1	Impact Wrenches, Band Saws and Drills.
1500015	Tool Cinch - 2 straps	35 lbs.	2	Pinch Bars, Sledge Hammers, Slugging Wrenches and Clamps.
1500016	1500015 (10 Pack)	35 lbs.	2	Pinch Bars, Sledge Hammers, Slugging Wrenches and Clamps.
1500017	Tool Cinch - (HD) - 2 Straps	80 lbs.	2	Rivet Busters, Slugging Wrenches, Super Wrenches
1500018	1500017 (10 Pack)	80 lbs.	2	Rivet Busters, Slugging Wrenches, Super Wrenches



Tool Tethers



D-RING ATTACHMENT POINTS



- D-Rings can be attached to tools under 5 lbs. using Quick Wrap Tape.
- Creates an instant attachment point.
- Dual D-Rings allow for 100% Tool Tie-Off during tool transfers.

STOCK NO.	DESCRIPTION	PACK (Qty)	LOAD RATING	RING DIMENSIONS	NON-CONDUCTIVE
1500003	D-Ring - Small	10	2 lbs.	1/2" x 2.25"	No
1500004	150003 (100 Pack)	100	2 lbs.	1/2" x 2.25"	No
1500005	D-Ring - Non-Conductive	10	2 lbs.	1/2" x 2.25"	Yes
1500006	150005(100 Pack)	100	2 lbs.	1/2" x 2.25"	Yes
1500007	D-Ring - Large	10	5 lbs.	1" x 3.5"	No
1500008	1500007 (50 Pack)	50	5 lbs.	1" x 3.5"	No
1500001	Dual D-Ring Small	10	2 lbs.	1/2" x 2.25"	No
1500002	1500001 (100 Pack)	100	2 lbs.	1/2" x 2.25"	No

QUICK WRAP TAPE



Stock No. 1500044 1" Wide





Stock No. 1500038 1" Wide

- Quick Wrap Tape conforms to the shape of the object as it is applied.
- Used with D-Ring Attachment Points and Tool Cinch Attachments to create instant tethering points on tools.
- Made from self-fusing silicone rubber that does not leave adhesive or residue behind.
- Inner fiberglass webbing increases the strength of the tape.

STOCK NO.	DESCRIPTION	PACK (Qty)	Length
1500044	Yellow Heavy Duty - 1" Wide	1	108"
1500045	1500044 (10 Pack)	10	108"
1500046	1500044 (240 Case)	240	108"
1500035	Blue Heavy Duty- 1" Wide	1	108"
1500036	1500035 (10 Pack)	10	108"
1500037	1500035 (240 Case)	240	108"
1500038	Blue Heavy Duty - 1" Wide	1	216"
1500039	1500038 (10 Pack)	10	216"
1500040	1500038 (240 Case)	240	216"



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BUNGEE TETHERS



STOCK NO.	DESCRIPTION	LOAD RATING	LENGTH (Relaxed)	LENGTH (Stretched)
1500047	Hook-to-Loop Bungee Tether	10 lbs.	32 in.	47 in.
1500048	1500047 (10 pack)	10 lbs.	32 in.	47 in.
1500049	Hook-to-Loop Bungee Tether	35 lbs.	31 in.	52 in.

TRIGGER-TO-TRIGGER LANYARDS

- Thumb controlled Trigger Snaps on both ends.
- Trigger Snaps swivel, making them tangle resistant.
- Easy to operate, even while wearing gloves.

STOCK NO.	DESCRIPTION	QTY	LOAD RATING	LENGTH
1500053	Trigger-to-Trigger Lanyard	1	10 lbs.	12 in.
1500054	1500053 (10 pack)	10	10 lbs.	12 in.
1500055	Trigger-to-Trigger Lanyard	1	10 lbs.	24 in.
1500056	1500055 (10 pack)	10	10 lbs.	24 in.
1500057	Trigger-to-Trigger Lanyard	1	10 lbs.	36 in.
1500058	1500057 (10 pack)	10	10 lbs.	36 in.

SAFETY RETRACTOR

- Compatible with a number of safety tool holsters, wristbands and tool pouches.
- Inner 52" steel coil automatically retracts when not in use.

STOCK NO.	DESCRIPTION	LOAD RATING	LENGTH
1500069	Safety Retractor	1.5 lbs.	52"



Tool Tethers

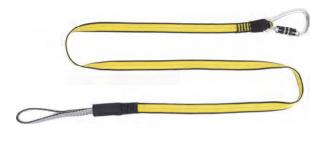


LANYARDS

HOOK-TO-LOOP (MEDIUM DUTY)

- Features an aluminum double-action twist-lock carabiner to prevent accidental opening.
- Works well with 1500011, 1500013 and 1500017 Tool Cinch Attachments.

STOCK NO.	DESCRIPTION	LOAD RATING	LENGTH
1500050	Hook-to-Loop Lanyard (Med. Duty)	35 lbs.	72"



HOOK-TO-LOOP (HEAVY DUTY)



- Features an aluminum double-action twist-lock carabiner to prevent accidental opening.
- Works well with 1500011, 1500013 and 1500017 Tool Cinch Attachments.

STOCK NO.	DESCRIPTION	LOAD RATING	LENGTH
1500051	Hook-to-Loop Lanyard (Heavy Duty)	80 lbs.	72"

HOOK-TO-RAIL (HEAVY DUTY)

- An aluminum double-action twist-lock carabiner is attached on one end and a large double action twist-lock rail carabiner to the opposite end.
- Works well with the 1500017 Tool Cinch Attachment.

STOCK NO.	DESCRIPTION	LOAD RATING	LENGTH	
1500052	Hook-to-Rail Lanyard	80 lbs.	72"	
1500052	(Heavy Duty)	60 IDS.	12	



D-RING CORD



- Easily cinches to tools weighing up to 5 lbs.
- Simply pass the loop end of a D-Ring Cord through a pre-drilled hole or closed handle to create an instant attachment point.
- Extremely durable and reusable.

STOCK NO.	DESCRIPTION	LOAD RATING
1500009	D-Ring Cord (10Pack)	5 lbs.



COIL TOOL TETHERS

- Coil Tool Tethers are an alternative to classic Bungee Tethers. Built with easy to clean, lightweight vinyl.
- Coil Tool Tethers naturally stay out of the way by virtue of their ultra-compact design.

HOOK-to-HOOK			TRIGGER COIL	TETHER	CLIP-to-CLIP COIL TETH Stock Number 150006		
With a relaxed length of 4 inches and a stretched length of 62 inches,The con coil too		The compac coil tool tet	coil tool tether makes it the perfect tether		The compact design tool tether makes it to be used with Wris	Stock Number 1500069 The compact design of the Clip-to-Clip coil tool tether makes it the perfect tool tether to be used with Wristbands when a non-conductive tether is needed.	
No.			- Contraction	- AR			
	CRING COIL TETHER with TAIL		CLIP-to-LOOP COIL TETHER			HARD HAT COIL TETHER	
Stock Number 1500065 The Hook-to-Quick Ring coil tool tether with tail is designed specifically for use with hammers and other long-handled tools. This coil tool tether can also be purchased with a Python Safety Hammer Holster.		cameras, c small obje	secure solu cell phones, cts. The Clip r works wel	tion for tetherin radios and othe o-to-Loop coil I with the Pythor	a compact coil des tether out of the v	- tool tether utilizes sign that keeps the	
STOCK NO.	DESCRIPTION		PACK (Qty)	LOAD RATING	LENGTH (Relaxed)	LENGTH (Stretched)	
1500063	Hook-to-Hook Coil Tether		1	5 lbs.	4 in.	62 in.	
1500064	1500063 (10 Pack)		10	5 lbs.	4 in.	62 in.	
1500067	Trigger-to-Trigger Coil Teth	ner	1	5 lbs.	1.75 in.	24 in.	
1500068	1500067 (10 Pack)		10	5 lbs.	1.75 in.	24 in.	
1500059	Clip-to-Clip Coil Tether (10 Pack)		10	2 lbs.	1.75 in.	24 in.	

Hook-to-Quick Ring Coil Tether w/tail

Clip-to-Loop Coil Tether (10 Pack)

Hard Hat Tether (10 Pack)

Hard Hat Tether (100 Pack)

1500065 (10 Pack)

1500065

1500066

1500060

1500061

1500062

1

10

10

10

100

2 lbs.

2 lbs.

2 lbs.

2 lbs.

2 lbs.

3 in.

3 in.

7 in.

4 in.

4 in.

62 in.

62 in.

34 in.

34 in.

34 in.

Tool Tether Accessories



BELT LOOPS



STOCK NO.	DESCRIPTION	LOAD RATING
1500115	Belt Loop D-Ring	5 lbs.
1500116	1500115 (10 pack)	5 lbs.
1500117 Belt Loop Trigger		5 lbs.
1500118	1500117 (10 pack)	5 lbs.

• 1500115 Belt Loop is used for tying off tools from a belt.

• 1500117 Belt Loop is used for staging tools.



Stock No. 1500117

Stock No. 1500115

PULLAWAY WRISTBANDS



Standard Pullaway



Slim Pullaway

STOCK NO.	DESCRIPTION	SIZE	LOAD RATING
1500070	Standard	Small	5 lbs.
1500072	Standard	Medium	5 lbs.
1500074	Standard	Large	5 lbs.
1500076	Slim	Small	5 lbs.
1500078	Slim	Medium	5 lbs.
1500080	Slim	Large	5 lbs.

ADJUSTABLE WRISTBANDS



Performance and Regulatory Tags 🗰



The ancient Egyptians communicated via an intricate system of pictograms known as hieroglyphics. With this system, they wrote histories, conquered many lands, and completed the ultimate pyramid scheme. All while walking sideways! Consider our tech tag system a humble nod to those sun worshipping ancients. Check the key for all the performance and regulatory characteristics of our Tenacious Work Gear®.

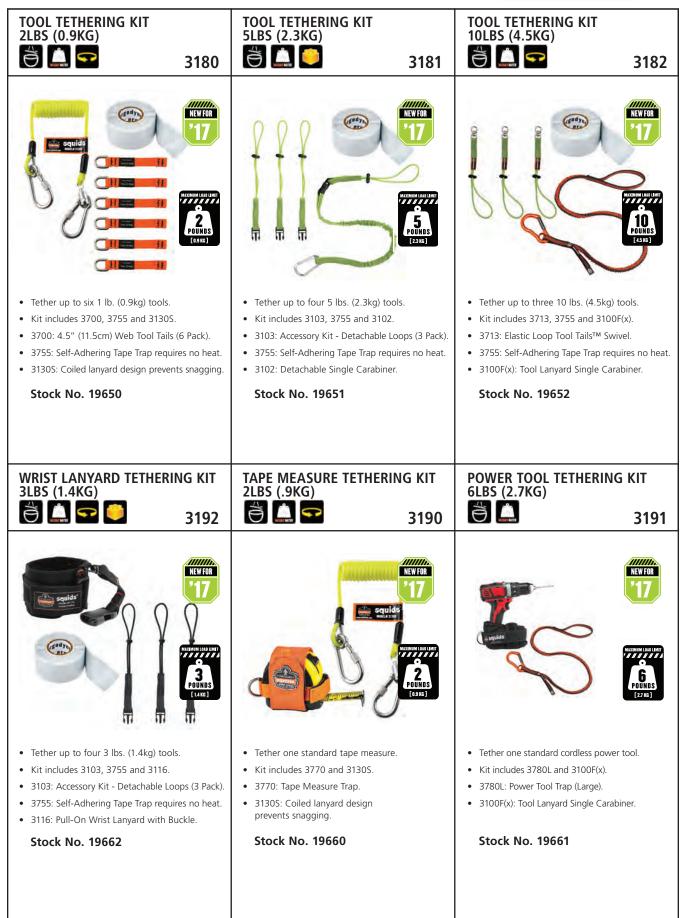
Ø		ANSI			A STOCK	
Abrasion Resistant	Acrylic Polymer Crystals	ANSI Compliant	Anti-Stink	Ballistic Material	Break-away Design	Captive Eye
k		C SA	X		•••••••	EN
Chemical Free	Computer Storage	CSA Compliant	Cut Resistant	Dorsal Protection	Dry Surface Grip Technology	EN Compliant
4	FR	***	đ		G E L	(Gi)
ESD / Non-Static	Flame Resistant	Flat Seams	Foreign Materials Management	Hand Washable	Gel Polymer	Genuine Leather Construction
	0	•			$\bigcirc I$	
High Visibility	High Dexterity	Impact	Waterproof Membrane	LEDs	Machine Washable	Magnetic
ЗМ	*	PRF)](
Built with 3M™ Materials	Micro-Fiber	MIL-PRF 32432	Modular Design	Moisture Management	Non-Conductive or ESD	OutDry [®] Waterproof Membrane
		PALS	<u> </u>			
Patented Nu ² O ₂ ® Polymer	Patented Open-Center Stay™	P.A.L.S. Design	PVA Cooling Material	Patented Sticky Fingers [®] Stay	Puncture Resistant	1-Hand Operation
		///.				S
Reflective Accents	Reversible Design	Rubber Base	Soil Release	Stainless Steel	Storm Drains	Swiveling Design
Touch Car	The second		Mat	WEIGHT RATED		
Touch Screen Compatible	Thermal	UV Protection	Water Repellent	Weight Rated	Wet Surface Grip Technology	Wheeled Design

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Tool Tethering Kits





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Tool Holsters & Pouches

SINGLE AND DUAL TOOL HOLSTERS





Stock No. 1500107

- Single and Dual Tool Holsters are equipped with D-Rings that are load rated for 5 lbs.
- Several variations of these holsters come with Safety Retractors. Retractors are load rated for 1.5 lbs.
- Single and Dual Tool Holsters feature Beacon™ Hi-Vis Reflectors and the Quick-Mag™ magnetic tool staging system.
- · Bottom drain vent allows the holster to work in wet conditions.



Stock No. 1500109



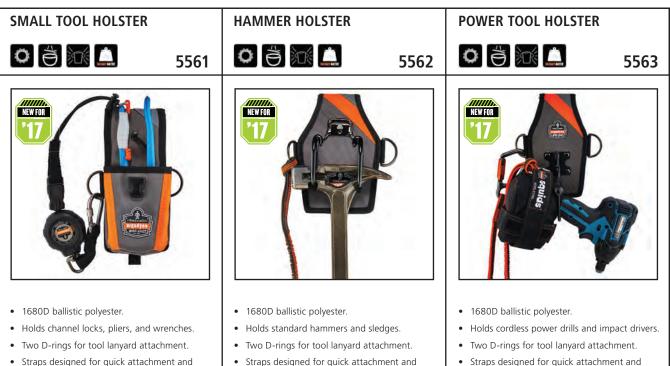
Stock No. 1500102



Stock No. 1500104

STOCK NO.	PRODUCT	RETRACTORS
1500103	Single Tool Harness Holster	None
1500104	Single Tool Harness Holster with Retractor	1x
1500101	Single Tool Belt Holster	None
1500102	Single Tool Belt Holster with Retractor	1x
1500105	Extra-Deep Single Tool Belt Holster	None
1500108	Dual Tool Harness Holster	None
1500109	Dual Tool Harness Holster with Retractor	2x
1500106	Dual Tool Belt Holster	None
1500107	Dual Tool Belt Holster with Retractor	2x

TOOL HOLSTERS



- removal 4.5"L x 2.5"W x 8.5"H (11cm x 6cm x 22cm).
- Stock No. 13561 -Gray.

Stock No. 13564 - Gray.

removal

• 8"L x 2.5"W x 12"H (20cm x 6cm x 30cm).

removal

Stock No. 13563 - Gray.

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6"L x 3"W x 8"H (15cm x 8cm x 20cm).

Tool Pouches



SMALL PART POUCHES



- Innovative self-closure system that traps objects inside the pouch making it difficult for objects to fall out once placed in the pouch.
- Easy to retrieve objects since no opening or closing is necessary.
- Compatible with most tool belts.



	STOCK NO.	DESCRIPTION
	1500122	Vinyl Yellow
	1500119	Canvas Black
ſ	1500120	Canvas Camo
	1500121	Canvas Orange
	1500123	Extra Deep Canvas Black

TOOL POUCHES



- Constructed from heavy-duty canvas with an inner lining to help prevent punctures.
- Multiple inner pockets accommodate a number of tools while built in D-Ring makes tethering tools incredibly easy.

TOPPED TOOL POUCHES

• Available in standard and extra-deep variations.

STOCK NO.	DESCRIPTION	WIDTH	HEIGHT	RETRACTORS
1500124	PCH-TOOL	7.5"	11"	
1500125	PCH-TOOLRET	7.5"	11"	2 Retractors
1500126	PCH-TOOLTRIG	7.5"	11"	2 Triggers
1500127	PCH-TOOLXD	8.75"	13"	
1500128	PCH-TOOLXDRET	8.75"	13"	2 Retractors
1500129	PCH-TOOLXDTRIG	8.75"	13"	2 Triggers

UTILITY POUCH

PITHON safety

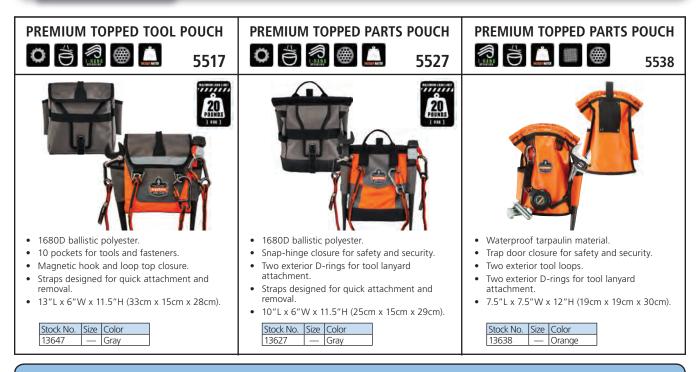
- Features two outside pockets for storing spud wenches and two inner pockets for storing additional tools.
- Tools can be tethered to D-Rings on the inside and outside of the pouch.
- Adjustable side-release closure system helps prevent objects from falling out when the pouch isn't being used.

STOCK NO.	PRODUCT DESCRIPTION
15000132	PCH-UTILITY

ST	RAP DESI	GN	551	6	LO	op desig		5518	3
1									
 19 pockets for tools and fasteners. Top cover flap with hook and loop closure. Three nickel-plated D-rings. Belt loop on back attaches to tool belts. 11"L x 4.5"W x 11"H (28cm x 11cm x 28cm). 							with buckle clo ated D-rings. for quick attacl		
	STOCK NO.	SIZE	COLOR			STOCK NO.	SIZE	COLOR	
	13642	—	GRAY			13640	_	GRAY	

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Pouches - Tool Belts & Suspenders



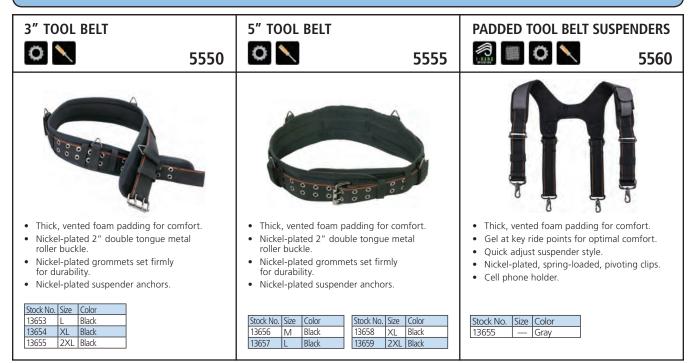
TOOL BELTS

- Extra padding provides superior comfort compared to other tool belts.
- Modular approach allows user to customize holster/pouch system.



STOCK NO.	PRODUCT DESCRIPTION	WAIST SIZE		
1500110	BELT-COMFORT-(S-M)	28" - 36"		
1500111	BELT-COMFORT-(L-XL)	36" - 44"		
1500112	BELT-COMFORT-(L-XL)	44" - 52"		

ERGODYNE TOOL BELTS & SUSPENDERS



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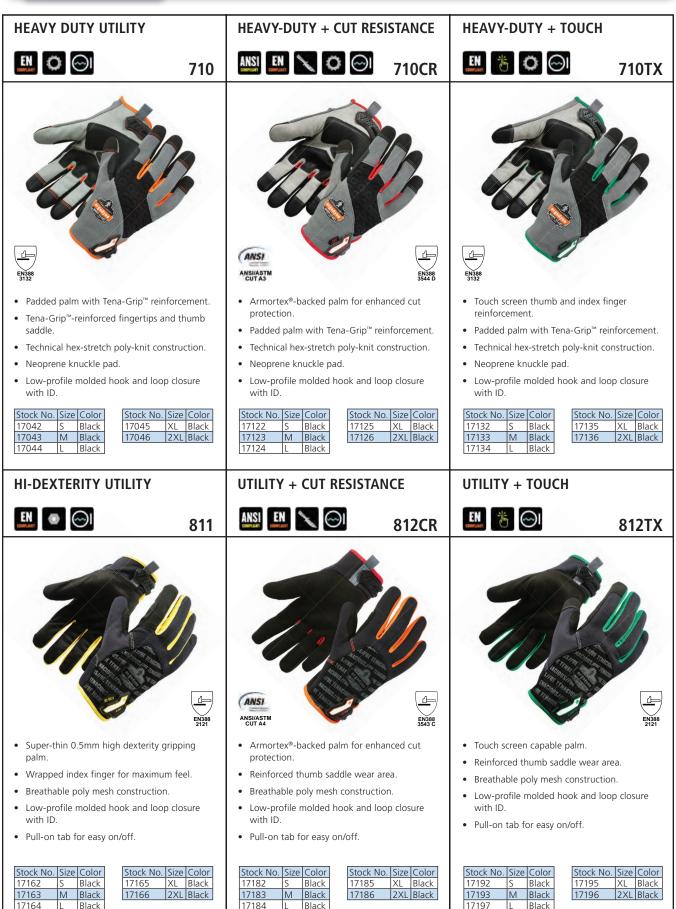
SUCTION CUP ANCHOR MOUNT	MAGNETIC ANCHOR MOUNT	METAL DETECTABLE DUAL CLIP MOUNT
🛎 🎽 🍡 💭 3410	🚨 🗑 🎑 🦲 3415	👸 💋 🥌 3400MD
• Suction cup mounts to clean flat surfaces.	• Magnetic anchor mounts to ferromagnetic	• Clips to clothing, belts, tool belts and D-rings.
 Pull tab allows easy removal from surface. Anchor to carts, machinery, desks and equipment. Dielectric / non-conductive material. Grabber disconnects allowing independent use. 	 surfaces. Soft overmold grabs surface preventing slippage. Anchor to carts, machinery, desks and equipment. Encapsulated magnet protects against corrosion. Grabber disconnects allowing independent use 	 Holds PPE, tools, accessories and other items. Metal detectable material alerts quality control. Entire piece impregnated with metallic powder. Deep blue color signals metal detectability.
Stock No. 19321 - Black.	Stock No. 19322 - Black.	Stock No. 19132 - Deep Blue.
DUAL CLIP MOUNT	BELT CLIP MOUNT	
3400	3405	Ö 🗽 즢 3540
	KING AND	
 Clips to clothing, belts, tool belts and D-rings. Holds PPE, tools, accessories and other items. Prevents dropped objects and foreign material. Durable, ultra-resilient acetal copolymer. Dielectric / non-conductive material. 	 Clips to belts, tool belts, webbing and pants. Holds PPE, tools, accessories and other items. Prevents dropped objects and foreign material. Durable, ultra-resilient acetal copolymer. Dielectric / non-conductive material. 	 Large locking hook with 360° swivel (1.5"/38mm). Reusable sliding belt lock mechanism. High tensile strength, weather resistant nylon 66. Temp range: -40°F - 176°F (-40°C - 80°C). Resistant to oil, salt, solvents and alkali.
Stock No. 100 Pack Stock No. Color 19112 19112-Bulk Black 19117 19117-Bulk Blue 19118 19118-Bulk HV Orange 19119 19119-Bulk HV Lime 19113 — Red 19114 — Pink	Stock No. Size Color 19122 — Black 19129 — HV Lime 19127 — Blue 19123 — Red 19128 — HV Orange 19124 — Pink	Stock No. Size Color 33402 S: 11.8" (30cm) belt HV Orange 33403 M: 15.8" (40cm) belt HV Orange 33404 L: 19.7" (50cm) belt HV Orange

Grabbers & Organizers



Proflex Gloves





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Proflex Gloves





Rappel Gloves

CORDEX K52 Lightweight



- CORDEX belay/rappel gloves offer protection without sacrificing dexterity.
- Doubled-layer leather palms help to protect from heat generated during rappels. Glove back is made of leather with abrasion-resistant stretch nylon at key flex areas.
- The neoprene cuff with Velcro features a reinforced carabiner hole to attach gloves to harnesses.

Product	Stock No.	Size(s)	Color(s)	
Cordex	K52	XS - XL	Beige or Black	
Cordex Plus	K53	XS - XL	Beige or Black	

CORDEX PLUS K53 Heavy Duty





Eye Protection PYRAMEX Highlander

V2G

SBB5020DT Gray Anti-Fog Lens



SBB5055DT Sky Red Anti-Fog Lens



SBB5080DT Mirror Anti-Fog Lens



SBB5010DT

Clear Anti-Fog Lens

GB1810ST Clear Anti-Fog Lens



GB1820ST Gray Anti-Fog Lens



GB1830ST Amber Anti-Fog Lens



GB1850SFT 5.0 IR Filter Anti-Fog Lens



SB7010SDT Clear Dual Anti-Fog Lens



SB7020SDT Gray Dual Anti-Fog Lens



SB7025SDT Light Gray Dual Anti-Fog



SB7030SDT Amber Dual Anti-Fog



GB9480ST Mirror Anti-Fog



GB9420STM Gray H2MAX Anti-Fog



GB9430STM Amber H2MAX Anti-Fog



GB9480ST Mirror Anti-Fog Lens

XSG

Isotope



GB4010ST Clear Anti-Fog Lens



GB4020ST Gray Anti-Fog Lens



GB4080ST Mirror Anti-Fog Lens



Petzl Helmets







A10V



VERTEX® BEST

A10B



VERTEX[®] BEST

(INSIDE VIEW)

Stock No.	Head Circ.	Weight	Colors	Туре	Standard
A10V	53-63 cm	1 lbs.	Yellow, White, Red, Black, Orange, Blue	Work at height and rescue	ANSI Z89.1-2009
A10B	53-63 cm	1 lbs.	Yellow, White, Red, Black, Orange, Blue	Vented, work at height and rescue	ANSI Z89.1-2009

Kask Helmets





ZENITH





ZENITH HI VIZ

WHE00032

ZENITH

(INSIDE VIEW)

WHE00031

Part No.	Head Circ.	Weight	Colors	Туре	Standard
WHE00031	53-63 cm	1 lbs.	Yellow, White, Red, Black, Orange, Blue	Work at height and rescue	ANSI Z89.1-2014
WHE00032	53-63 cm	1 lbs.	Yellow, White, Lime	Work at height and rescue	ANSI Z89.1-2014



Head Lamps





E78AHB 2



PIXA® 3 E78CHB 2



PIXA[®] 3R E78CHR 2



DUO LED 14

TIKKA® PRO

ULTRA® VARIO E54 H

	E93MH		E54 H		E72 P		
Description	PIXA [®] 1	PIXA [®] 3	PIXA [®] 3R	TIKKA [®] PRO	ULTRA® VARIO	DUO LED 14	
Stock No.	E78AHB 2	E78CHB 2	E78CHR 2	E93MH	E54 H	E72 P	
Weight	.35 lbs.	.35 lbs.	.32 lbs.	.18 lbs.	.81 lbs.	.66 lbs	
Technology	Constant Lighting	Constant Lighting	Constant Lighting	Standard Lighting	Constant Lighting	Constant Lighting	
Beam Pattern	Wide	Wide, Mixed, Focused	Wide, Mixed, Focused	Wide	4 modes	Wide, Mixed, Focused (14 LEDs)	
Energy	2 AA/LR06 Batteries	2 AA/LR06 Batteries	Rechargeable Lithium-Ion Polymer 930 mAh	3 AAA/LR03 Batteries	Rechargeable Lithium-Ion Polymer 2600 mAh	4 AA/LR06 Batteries	
Battery Information	Rechargeable Ni-MH & Lithium	Rechargeable Ni-MH & Lithium	3hr Recharge Time	Rechargeable Ni-MH	3hr Recharge Time	Optional ACCU DUO Recharge Battery	
Brightness	20 lm - 60 lm	20 lm - 100 lm	20 lm - 90 lm	20 lm - 100 lm	45 lm - 520 lm	13 ml - 67 ml	
Distance	10m - 15m	15m - 90m	15m - 90m	25m - 55m	20m - 210 m	15m—34m	
Battery Life	10- 22 hours	16- 39 hours	4- 13 hours	120- 180 hours	2- 40 hours	3- 63 hours	
Water Proof	N/A	N/A	1 meter; 30 min.	Weather Resistant	1 meter; 30 min.	1 meter; 30 min.	

COMPACT RUGGED HEADLAMPS

PIXADAPT



ACCESSORIES FOR PIXADAPT HEADLAMPS

Rubber Headband for PIXA Headlamp.

• Adapts to all helmets.



- Compatible with all helmet types.
- Holds PIXA[®] headlamp securely in position.

Rechargeable Battery for PIXA[®] Headlamp.

- Recharges separately or on headlamp.
- Lithium-Ion polymer battery, 930 mAh.
- Quick Charge.

Carry Pouch for PIXA^{\degree} Headlamp.

- Carry and protect.
- Always readily accessible on the waist belt.
- Stock No. E78001



PETZL



Thermal Liners





Thermal Balaclavas



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Warming – Thermal Accessories



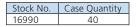
N-Ferno® Warming Packs

Whether in mittens or gloves, the 6990 Hand Warming Packs come in handy whenever you need to keep fingers from freezing. Most N-Ferno® Winter Liners come standard with warming pack pockets designed specifically for the versatile little power packs of heat to keep ears nice and toasty. You can even get crazy and toss one in a pocket! The 6992 Toe Warming Packs adhere to the insole of a shoe or boot to keep toes comfortable – so frostbite can fuggedaboutit. For those who need full foot heating, there's the 6995 Full Foot Warming Packs.

6990 HAND WARMING PACKS

- To activate, just open the pack.
- Natural ingredients heat up on contact with oxygen.
- Seal in zip top bag and reuse the next day.
- Hand style warms up to 12 hours.

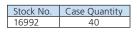




6992 TOE WARMING PACKS

- To activate, just open the pack.
- Natural ingredients heat up on contact with oxygen.
- Seal in zip top bag and reuse the next day.
- Toe style warms up to 5 hours.





6995 FOOT WARMING PACKS

- To activate, just open the pack.
- Natural ingredients heat up on contact with oxygen.
- Seal in zip top bag and reuse the next day.
- Foot style warms up to 7 hours.



Stock No.	Case Quantity
16995	40



Cooling & Evaporative

MICROFIBER COOLING TOWEL **COOLING TOWEL BAND COOLING BANDANA WITH** TOWEL <u>a*a*</u>)](⊖l * 👗 🗵 😔 3*3*)<u>(</u> 🖂 I 6602MF 6603 6700CT CORVENSE HEALTH & GARETY 2 0 1 5 NEW PRODUCT OF THE YEAR • Advanced PVA cooling technology. Advanced PVA material activates easily • Microfiber material is soft and absorbent. and quickly. • Super-evaporative, feels cooler than ambient air. • Super-evaporative, feels cooler than ambient air. • Re-usable, just rewet to reactivate. • Size: 9.8" x 40.9" (25cm x 104cm). Activates fast and easy - run under water. • UPF 50+ for protection against harmful • Super-evaporative cooling process keeps you • Wear as neck wrap by pulling end through slit. UV rays. cool. • Size: 4" x 29.5" (10cm x 75cm). • 2-sided color, gray on reverse for all colors. • Tie closure. • Rinse before use. • Rinse before use. Stock No. Size Color Blue Orange 12418 Blue 12567 Solid Blue 12660 12661 12561 Stars & Stripes 12563 12662 Pink 12668 Red Western 12562 Gray Camo 12564 12568 12669 HV Lime Navy Western Flames 12569 12566 HV Lime Skulls

Absorbent & Protective

HIGH-PERFORMANCE	DEW RAG	HIGH-PERFORM	ANCE SKULL CAP	HI-VIS MESH NECK SHADE
)(() 💬)	6615) 💭	6630	8005
ALA		0.20	No Con	
 Hi Cool[®] moisture managemen fabric. 	nt performance	 Hi Cool[®] moisture m fabric. 	nanagement performance	ANSI-compliant polyester mesh (3.3oz).ANSI-compliant reflective material.
 Comfortable to wear under had or alone. 	ts, helmets,	 Comfortable to wea or alone. 	r under hats, helmets,	Reflective set on contrasting background.
Absorbent terry headband.		• Wide, absorbent ter	rycloth band.	Elastic band fits most hard hats.
Elastic band for a great fit.		Elastic band for a gr	eat fit.	Plastic clips to secure in place.
Machine washable.		One size fits most.		
Stock No. Size Color Stock No. 12476 — HV Lime 12480 12477 — Stars & Stripes 12481 12478 — Camouflage 12485 12479 — Red Western 12519	Size Color — Navy Western — Solid Blue — Flames — Skulls	Machine washable. Stock No. Size Color 12505 — HV Lime 12506 — Stars & Stripes 12507 — Camouflage 12508 — Red Western	Stock No. Size Color 12509 — Navy Western 12510 — Solid Blue 12514 — Flames 12529 — Skulls	Stock No.SizeColor29051—HV Orange29053—HV Lime

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Knee Comfort





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Glowear[®] Hi-Vis Apparel

	VESTS	
TYPE R CLASS 2 ECONOMY MESH VEST S210HL	TYPE R CLASS 2 ECONOM BREAKAWAY MESH VEST	MY TYPE R CLASS 2 ECONOMY TWO-TONE MESH VEST
		POCKETS 10 INTER OUTER OUTER
	Stock No. Size Color Vrange 21061 XS HV Orange ime 21063 S/M HV Orange 21071 XS ime 21065 L/XL HV Orange 21075 L/XL ime 21067 2XL/3XL HV Orange 21077 2XL/3	 2" ANSI-compliant reflective. Reflective set on 3.5" contrasting background. Zipper closure. One pocket; single mic tab. Stock No. Size Color HV Lime Stock No. Size Color 21301 XS HV Orange Stock No. Size Color 21291 XS HV Lime
	T-SHIRTS	
TYPE R CLASS 2 T-SHIRT	TYPE R CLASS 2 BLACK F LONG SLEEVE T-SHIRT 89	FRONT TYPE R CLASS 2 BLACK FRONT PERFORMANCE LONG SLEEVE 3291BK
 ANSI-compliant polyester breathable knit (4.1oz). 2" ANSI-compliant heat transfer reflective Moisture wicking treatment. 	 POCKETS DUE UNE OFFER OFFE	(4.1oz).

Trim.

	L						
Color	L	Stock No.	Size	Color	Stock No.	Size	Color
HV Orange	L	22632	S	HV Lime	22682	S	HV Orange
HV Orange	L	22633	М	HV Lime	22683	М	HV Orange
HV Orange	L	22634	L	HV Lime	22684	L	HV Orange
HV Orange	L	22635	XL	HV Lime	22685	XL	HV Orange
HV Orange	L	22636	2XL	HV Lime	22686	2XL	HV Orange
HV Orange	L	22637	3XL	HV Lime	22687	3XL	HV Orange
HV Orange	L	22638	4XL	HV Lime	22688	4XL	HV Orange
HV Orange	L	22639	5XL	HV Lime	22689	5XL	HV Orange

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Color

HV Lime

Stock No. Size

XS

Μ

XL

2XL

3XL

4XL

5XL

21511 21512

21513

21514

21515

21516

21517 21518

21519

Color

HV Orange

Stock No. Size 22702 S

XL

2XL

3XL

4XL

5XL

22703 Μ

22704

22705

22706

22708 22709

Color

HV Lime

 Stock No.
 Size

 21501
 XS

 21502
 S

XL

2XL

3XL

4XL

5XL

21503 Μ

21504 21505 21506

21507 21508

21509



 Stock No.
 Size

 22712
 S

 22713
 M

2XL

4XL

5XL

22718 22719

Glowear[®] Hi-Vis : Foul Weather Series





Stock No.	Size	Color	Stock No.	Size	Color
25012	S	HV Lime	25016	S	HV Lime
25013	М	HV Lime	25017	Μ	HV Lime
25014	L	HV Lime	25018	L	HV Lime
25015	XL	HV Lime	25019	XL	HV Lime

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74444

24445 XI

24446

24447

24448

24449

2XL

4XL

5XL

HV Orange

HV Orange

HV Orange

HV Orange

HV Orange

HV Orange

24454

24456 2X

24457

24459

4458

Х

4XL

5XL

HV Lime

HV Lime

HV Lime

HV Lime

HV Lime

HV Lime

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HV Lime

HV Lime

HV Lime

HV Lime

HV Lime

HV Lime

24414

24415

24416

24417

24418

24419

2XL

3XL

4XL

5XI

HV Orange

HV Orange

HV Orange

HV Orange

HV Orange

HV Orange

24424

24425 XI

24426

24427

24428

24429

2XL

4XL

5XL

A WARNING To Users of Lift-It[®] Sling Protection.

The **WARNING** Icon is used to alert sling users to potentially hazardous conditions and situations. "Must" denotes a mandatory requirement and is synonymous with the use of the term "shall". Slings, rigging hardware and sling protection may be referred to collectively as "rigging".

WARNING This guide contains important safety information about the use of Lift-It sling protection. However, it DOES NOT provide you with all the information you need to know in order to be considered trained and knowledgeable in load handling activities. The proper use of slings, rigging hardware and sling protection are only some of the many necessary components of a complete and successful load handling system. You must be properly trained and it is your responsibility to consider all risk factors prior to all load handling activities. Improper use and lack of proper training may result in severe INJURY or DEATH due to rigging failure, the unplanned release of tension, deadly recoil and/or impact force and/or loss of load control.

All Lift-It[®] Manufacturing Co. Inc. products are sold with the express understanding that users are thoroughly familiar with the safe and proper product usage. A manufacturer does not have complete knowledge or insight into the specific details and potential hazards associated with your particular load handling activities. The user is responsible for proper use as detailed in all applicable standards, regulations and warnings. The improper use of slings, rigging and sling protection by untrained persons is hazardous and may result in INJURY or DEATH. It is also important that sling users be thoroughly familiar with the manufacturer's recommendations and safety information that accompanies our products.

Read and understand all product and warning information provided in this guide, included with all products, contained in our catalog, available at www.lift-it.com and always follow OSHA, ASME, federal, state, provincial, industry, association, corporate, insurance and manufacturer warnings and guidelines.

Use by untrained persons is hazardous. Please contact us if you have questions at 800.377.5438 or email us at info@lift-it.com and NEVER TAKE CHANCES!

The American Society of Mechanical Engineers in the ASME B30.9 Sling Safety Standard, Section 9-X.1 clearly states the requirement for training. "Sling users shall be trained in the selection, inspection, cautions to personnel, effects of the environment and rigging practices, covered by this chapter."

Rigging practices would include the use of sling protection as it is a mandatory requirement for all synthetic slings and a recommended practice for wire rope, chain and metal mesh slings whenever there is the possibility of damage from cutting and/or abrasion.

The user must have sufficient training and knowledge of all applicable standards and regulations to responsibly use our products. If you are unsure whether you are properly trained and knowledgeable or if you are unsure of what the standards and regulations require of you, ask your employer for information and/or training. DO NOT use slings, rigging hardware and/or sling protection until you are absolutely sure of what you are doing. Please contact us if you have any questions at 800.377.5438 or email us at info@lift-it.com and NEVER TAKE CHANCES!

Slings must always be protected from cutting, abrasion and other types of damage by materials of sufficient strength, thickness and construction. This mandatory requirement is enforced by OSHA, stated in many consensus sling safety standards and is also mentioned multiple times in the Lift-It[®] warnings.

- You must ALWAYS protect slings from ALL POTENTIALLY DAMAGING SURFACES and EDGES.
- There are two basic types of sling protection; protection used specifically for cut protection or other devices used for abrasion protection.
- Some abrasion protection materials like Bulked Nylon or Cordura® may be suitable for abrasion protection, but will not prevent damage from cutting.
- **AWARNING** ABRASION PROTECTION WILL NOT PREVENT DAMAGE FROM CUTTING.

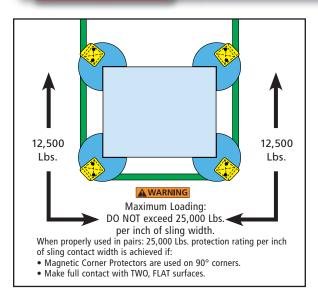
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Sling Protection - Safety Information

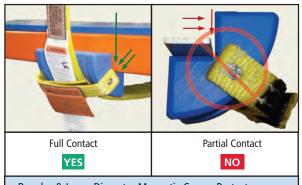
- If protection from cutting is necessary, only use sling protection that has been designed, tested, rated and labeled by the manufacturer.
- "Cut proof" sling protection does not exist and sling protection MAY NOT prevent cutting or other damage especially if it is not used properly.
- A Qualified Person* must ensure that loads are properly rigged and carefully evaluate and select appropriate sling protection for the application and potential type(s) of damage.
- You must rig properly and ensure that the sling protection is the correct type, capacity, shape and size to protect slings.
- Sling protection and all components must be compatible with the sling.
- Sling protection should not be makeshift (i.e., cardboard, work gloves or other items that were not designed to be used as sling protection).
- As tension is being applied, before lifting, a Qualified Person* must ensure the sling/protection relationship is correct and the protection is properly placed to prevent damage to slings and/or sling protection.
- Protection must be evaluated for suitability. Several trial lifts done by a Qualified Person* at a minimum height in conditions that WILL NO RESULT IN INJURY or DEATH may be necessary to evaluate and ensure proper use and safety.
- After the trial lift, a Qualified Person* must inspect slings, rigging hardware and sling protection. If possible, the sling protection should be removed and/or repositioned to independently inspect not only slings, but the sling protection. The Qualified Person* must evaluate and if necessary take corrective action.
- There are many factors that may affect sling protection performance. Factors such as, but not limited to: sling elongation, edge condition, i.e., machined, tempered and/or case hardened edges, etc. need to be evaluated by a Qualified Person*. <u>Trial lifts are critically important to ensure proper use and safety.</u>
- Tension increases as the Angle of Loading changes from 90°. You must evaluate and plan for tension. Damage may occur as tension and compression combine and cutting forces are increased.
- DO NOT OVERLOAD SLINGS, RIGGING HARDWARE AND/OR SLING PROTECTION!
- Protection ratings DO NOT apply if the Angle of Loading is not 90° (perpendicular to the load).
- The overall lifting capacity shall be rated at the lower of the sling work load limit, the rigging hardware rating and/or the sling protection capacity rating.
- Always refer to the Protection Capacity Tag to determine protection capacity ratings and only use sling protection that has legible Protection Capacity Tags.
- Slings and sling protection should be perpendicular (90°) to the load. As the Angle of Loading deviates from 90° the greater the likelihood that slings and protection will slide against the load resulting in a hazardous situation.
- Do not allow slings and/or protection to slip or slide across the load edges or surfaces.
- Inspect slings, rigging hardware and protection before each use and immediately remove damaged items from service.
- Follow inspection procedures and removal-from-service criteria outlined in this guide.
- Do not use damaged slings, damaged rigging hardware and/or damaged sling protection for any purpose.

WARNING DO NOT use slings, rigging hardware and/or sling protection until you are absolutely sure of what you are doing. Remember, failure to follow proper use, care and inspection criteria and/or the lack of skill, knowledge and care can result in INJURY or DEATH. Slings, rigging hardware and sling protection will fail if damaged, abused, misused, overloaded or improperly maintained resulting in INJURY or DEATH.

Sling Protection - Magnetic Corner Protectors



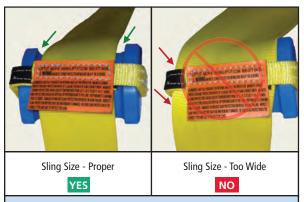
1351



Regular & Large Diameter Magnetic Corner Protectors must always be used on 90° corners.

FULL contact must be made with TWO, FLAT surfaces.

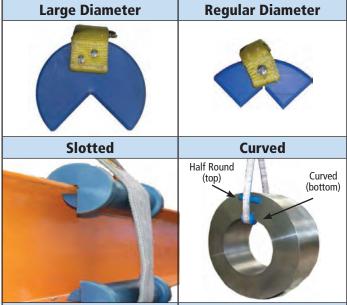
Do not use Regular and Large Diameter Magnetic Corner Protectors on round objects or curved surfaces.



During use the sling must be centered and remain between the upraised Protector Hubs.

A Qualified Person must ensure that the sling protection is the correct type, shape and size for the specific application.

Always protect slings from ALL POTENTIALLY DAMAGING SURFACES and EDGES (TOP and BOTTOM).



Use Slotted Magnetic Protectors on I Beams, H Beams, flanges and single plate edges. The metal MUST "bottom out" in the slot.

Always ensure that both the Curved (Bottom) and Half Round (Top) pieces are used on the coil at all times.

STOCK NUMBER	MCP TYPE	SLING WIDTH (Inches)	UNIT WEIGHT (Lbs.)	MCP O.A.L (Inches)	
MCP-6	Regular	UP TO 4	1.25	6-1/2	
MCP-9	Regular	UP TO 7	1.65	9-1/2	
MCP-12	Regular	UP TO 10	2	12-1/4	
MCP-18	Regular	UP TO 16	3	18-1/4	
MCP-9LD	Large Diameter	UP TO 7	6.75	9-1/2	
MCP-12LD	Large Diameter	UP TO 10	8.75	12-1/4	
MCP-18LD	Large Diameter	UP TO 16	13	18-1/4	
MCP-SL-6	Slotted-Regular	UP TO 4	2	6-1/2	
MCP-SL-9	Slotted-Regular	UP TO 7	2.75	9-1/2	
MCP-SL-12	Slotted-Regular	UP TO 10	4.25	12-1/4	
MCP-SL-18	Slotted-Regular	UP TO 16	5.5	18-1/2	
MCP-SL-6LD	Slotted-Large Dia.	UP TO 4	5.5	6-1/2	
MCP-SL-9LD	Slotted-Large Dia.	UP TO 7	8	9-1/2	
MCP-SL-12LD	Slotted-Large Dia.	UP TO 10	11	12-1/4	
MCP-SL-18LD	Slotted-Large Dia.	UP TO 16	16.5	18-1/4	
MCP-CURVED	Curved: Radius or Inside Diameter must be supplied.				

Inspect slings, rigging hardware and protection before each use and immediately remove damaged items from service.

Do not use damaged slings, damaged rigging hardware and/or damaged sling protection for any purpose.

Do not allow slings and/or protection to slip or slide across the load edges or surfaces.

Protection must be evaluated for suitability. Several trial lifts done by a Qualified Person at a minimum height in conditions that WILL NOT RESULT IN INJURY or DEATH may be necessary to evaluate and ensure proper use and safety.

Ensure that the sling, rigging hardware and/or sling protection will not be damaged during use.

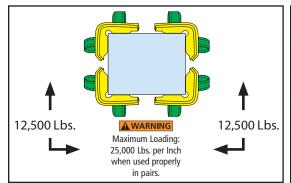
Always refer to the Protection Capacity Tag to determine protection capacity ratings and only use sling protection that has legible Protection Capacity Tags.

Do not use Magnetic Corner Protectors with chain slings.

Protection ratings DO NOT apply if the Angle of Loading is not 90° (perpendicular to the load).

Tension increases as the Angle of Loading changes from 90°. You must evaluate and plan for tension. Damage may occur as tension and compression combine and cutting forces are increased. DO NOT OVERLOAD SLINGS, RIGGING HARDWARE AND/OR SLING PROTECTION!

Sling Protection - CornerMax[®] Pads



When properly used in pairs: 25,000 Lbs. protection rating per inch of sling contact width is achieved if:

- <u>Full and proper contact with Internal</u> <u>Nylon Rods is maintained during use</u>.
- <u>Full 90° Contact is made with TWO, FLAT</u> <u>surfaces</u>.

Inspect slings, rigging hardware and protection before each use and immediately remove damaged items from service.

Do not use damaged slings, damaged rigging hardware and/or damaged sling protection for any purpose.

Do not allow slings and/or protection to slip or slide across the load edges or surfaces.

Do not use or allow contact at temperatures above $194^{\circ}(F)$ or below $-40^{\circ}(F)$.

Protection must be evaluated for suitability. Several trial lifts done by a Qualified Person at a minimum height in conditions that WILL NOT RESULT IN INJURY or DEATH may be necessary to evaluate and ensure proper use and safety.

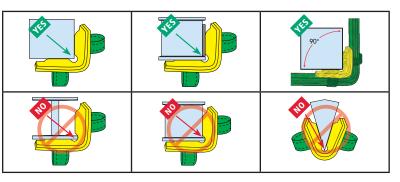
Always refer to the Protection Capacity Tag to determine protection capacity ratings and only use sling protection that has legible Protection Capacity Tags.

The overall lifting capacity shall be rated at the lower of the sling work load limit, the rigging hardware rating and/or the sling protection capacity rating.

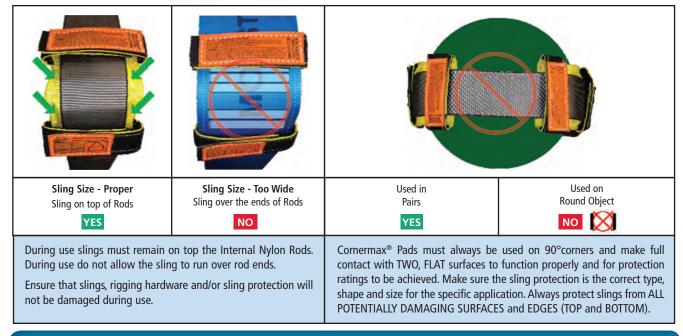
Do not use CornerMax[®] Pads with chain or wire rope slings.

STOCK NUMBER	PAD WIDTH (Inches)	ROD WIDTH (Inches)	MAXIMUM SLING WIDTH (Inches)	UNIT WEIGHT (Lbs.)
CM-4	4	2	Up to 2 inch	1.10
CM-5	5	3	Up to 3 inch	1.35
CM-6	6	4	Up to 4 inch	1.65
CM-8	8	5	Up to 5 inch	2.10
CM-8	8	6	Up to 6 inch	2.10
CM-10	10	8	Up to 8 inch	2.70
CM-12	12	10	Up to 10 inch	3.35
CM-14	15	12	Up to 12 inch	5.50
CM-16	17	14	Up to 14 inch	6.50

Cornermax® Pad widths vary. Standard length is 10.25 inches unless otherwise specified.



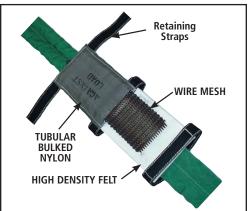
When used properly, CornerMax[®] Pads form a tunnel or "No Touch Zone" between the corner and the CornerMax[®] Pad. The "No Touch Zone" greatly reduces the possibility of cutting. CornerMax[®] Pads must be used on 90° corners. Full 90° contact with TWO, FLAT surfaces must occur for CornerMax[®] Pads to function properly and for protection ratings to be achieved.



Sling Protection - Meshguard®

Meshguard[®] features a layer of High Density Felt which is placed against the sling and Wire Mesh which is placed against the corner of the load. Retaining Straps make attachment and removal quick and easy. You must specify Meshguard[®] length.

MESHGUARD® STOCK NUMBER	SLING WIDTH (Inches)	MESH GUARD [®] OVERALL WIDTH (Inches)	PROTECTION RATING (Lbs.)	WEIGHT (Lbs.)
MG-3	2	5	20,000	2.00
MG-4	3	6	20,000	2.50
MG-6	4-5	8	40,000	4.00
MG-8	6	10	40,000	5.25
MG-10	8	12	60,000	6.50
MG-12	10	14	60,000	8.00





The Wire Mesh must always be placed AGAINST LOAD. High Density Felt must always be placed AGAINST SLING.

High Density Felt will not prevent cutting and damage to slings and/or Meshguard[®].

During use, slings must remain centered on Meshguard®.

Slings must stay on top of the felt and remain positioned above the Wire Mesh which is placed against the corner.

You must ALWAYS protect slings from ALL POTENTIALLY DAMAGING SURFACES and EDGES (TOP and BOTTOM).

Ensure that slings, rigging hardware and/or sling protection will not be damaged during use.

Protection must be evaluated for suitability. Several trial lifts done by a Qualified Person at a minimum height in conditions that WILL NOT RESULT IN INJURY or DEATH may be necessary to evaluate and ensure proper use and safety.

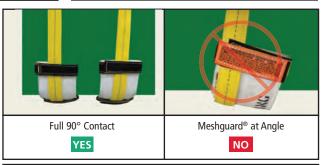
Inspect before each use and do not use damaged slings, damaged rigging hardware and/or damaged protection for any purpose.



Lack of Movement & Flexibility If the Wire Mesh is damaged and lack of movement and/or flexibility are evident, remove from service.



Broken Wires or Welds If Wire Mesh has broken wires or welds, remove from service.



Slings used with Meshguard[®] MUST be perpendicular (90°) to the load. As the Angle of Loading deviates from 90° the greater the likelihood that slings and protection will slide against the load resulting in a hazardous situation.

Meshguard[®] must always be used on 90° corners and make full contact with TWO, FLAT surfaces to function properly and for protection ratings to be achieved.

DO NOT use Meshguard $^{\circledast}$ on ROUND objects or curved surfaces. Meshguard $^{\circledast}$ must be perpendicular (90°) to the load.

Do not allow the sling and/or protection to slip or slide across load edges or surfaces.

A Qualified Person must ensure the sling protection is the correct type, shape and size for the specific application and will not be damaged.

Always refer to the Protection Capacity Tag to determine protection capacity ratings and only use sling protection that has legible Protection Capacity Tags. NEVER OVERLOAD SLINGS, RIGGING HARDWARE AND/OR SLING PROTECTION!

The overall lifting capacity shall be rated at the lower of the sling work load limit, the rigging hardware rating and/or sling protection capacity rating.

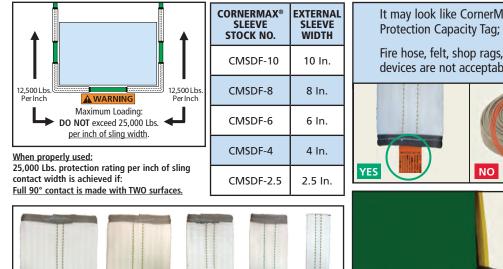


Do not use Meshguard[®] with chain or wire rope slings. Do not use damaged slings, damaged rigging hardware and/or damaged sling protection for any purpose. Avoid exposure to damaging chemicals and do not use at temperatures above 194°(F) or below -40°(F).

909.469.2251

Sling Protection - CornerMax[®] Sleeves

CornerMax[®] Sleeves conform to the shape of the load and are made of Dyneema[®] fiber. Remember, "cut proof" sling protection does not exist and slings, rigging hardware and sling protection must be properly used by Qualified Persons.

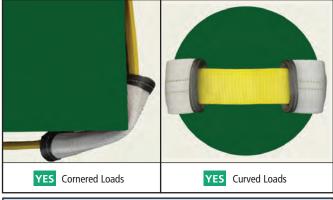


CMSDF-10 CMSDF-8 CMSDF-6 CMSDF-4 CMSDF-2.5 .25 thickness – 10, 8, 6, 4 and 2 inch widths are available.

Always refer to the Protection Capacity Tag and NEVER overload slings, rigging hardware and/or sling protection. Overall lifting capacity shall be rated at the lower of the sling work load limit, the rigging hardware rating and/or sling protection capacity rating. It may look like CornerMax[®] Sleeve, but unless it has a Protection Capacity Tag; it's NOT CornerMax[®] Sleeve!

Fire hose, felt, shop rags, gloves and/or other makeshift devices are not acceptable for use as sling protection.

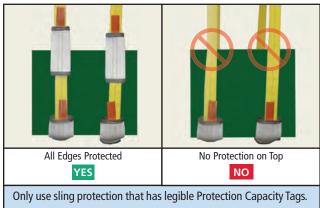




CornerMax[®] Sleeves may be used on round loads or curved surfaces. Ensure that the sling and/or protection will not be damaged during use. A Qualified Person must ensure the protection is the correct type, shape and size for the specific application.

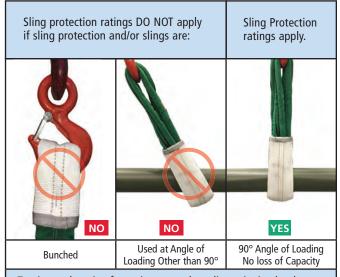
Sling Protection

Always protect slings from ALL POTENTIALLY DAMAGING SURFACES and EDGES (TOP and BOTTOM). Inspect before each use and do not use damaged slings, damaged rigging hardware and/or damaged sling protection for any purpose.



Do not use CornerMax[®] Sleeves with chain or wire rope slings.

A Qualified Person must evaluate protection by doing test lifts at a minimum height in conditions that will not result in INJURY or DEATH to evaluate and ensure proper use and safety.

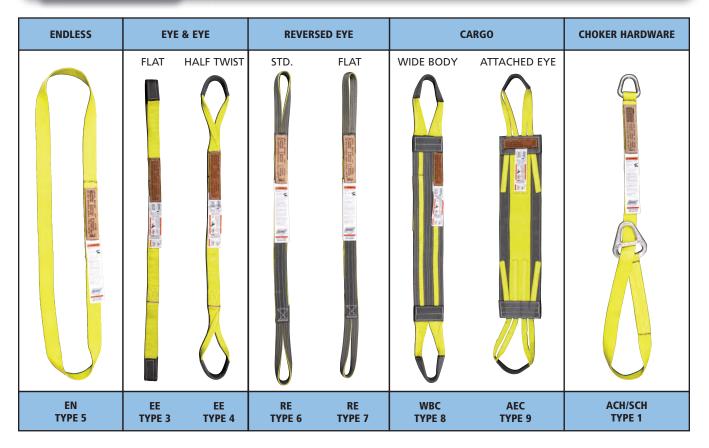


Tension and cutting forces increase when slings, rigging hardware and/or sling protection are used at Angles of Loading other than 90° .

Sling protection ratings DO NOT apply if sling protection and/or slings are used at Angles of Loading other than 90° .

Do not allow the sling and/or protection to slip or slide across load edges or surfaces.

Synthetic Lifting Slings



ENDLESS

Endless slings are versatile as hook and load contact points can be rotated. Endless slings can be used in choker, vertical and basket hitches.

EYE & EYE

FLAT EYE (TYPE 3): Eyes are formed as the material is folded back and sewn flat to the sling body. Flat Eye slings can be used in choker, vertical and basket hitches.

HALF TWIST EYE (TYPE 4): Eyes are formed by turning the webbing 180° before sewing the sling body. Half Twist Eyes provide for improved choking, when compared to flat eyes. Slings with Half Twist Eyes can be used in choker, vertical and basket hitches.

REVERSED EYE

STANDARD (TYPE 6): Reversed Eye slings feature sling eyes and bodies that are covered by Bulked Nylon wear pads. Bulked Nylon wear pad material is four times more abrasion resistant than sling webbing.

WARNING Bulked Nylon padding provides no protection against cutting.

FLAT (TYPE 7): Reversed Eye (Flat) slings feature the same abrasion resistant wear pads as the standard model. The Flat Reversed Eye web is turned 180° to form a "flat" eye, which lies in the same plane as the sling body.

CARGO SLINGS A WARNING For use in basket hitch only.

WIDE BODY CARGO: Wide Body Cargo slings basket the load. Loads are distributed over a wide surface area, protecting load surfaces from damage.

ATTACHED EYE CARGO: A lighter duty, cargo sling, which is more economical than wide body cargo slings. Attached Eye Cargo slings feature narrower eye widths to fit smaller hooks.

CHOKER HARDWARE

Steel or aluminum choker hardware provides for efficient choke hitching. Choker Hardware slings can also be used in vertical and basket hitches.

Synthetic Lifting Slings



BASKET HARDWARE	BRIDLE SLINGS	SPECIAL PURPOSE SLINGS	ROUNDSLINGS	TWIN-PATH [®] SLINGS
	88			
ABH/SBH TYPE 2	SLB / MLB TYPE 10	DS CG	RS TYPE 6	TUFXKS / TPXC TYPE 6

BASKET HARDWARE

Steel Basket Hardware (SBH) or Aluminum Basket Hardware (ABH) fittings are attached to Basket Hardware Slings. Basket Hardware Slings can be used in vertical and basket hitches.

BRIDLE SLINGS-SINGLE & MULTI-LEG

Bridle Slings (Single and Multi-Leg) feature combinations of links, hooks and fabric eyes. Bridle Slings provide for the efficient handling of loads with fixed lifting points.

SPECIAL PURPOSE SLINGS

Special Purpose Slings are developed for unique applications and evaluated by sling users. Special Purpose Slings provide the security and convenience of custom designed products, eliminating the burden of creating improvised assemblies at the job site. Drum Slings (DS), Cylinder Slings (CG) and Hose Handling Slings (HH) are in stock for immediate shipment.

ROUNDSLINGS

Single Path Roundslings feature polyester load carrying yarns encapsulated in double contrasting colored covers. Other cover options are also available for additional abrasion resistance. Endless configuration Roundslings can be rotated to change hook and load contact points. Roundslings can be used in choker, vertical and basket hitches.

AWARNING Abrasion protection will not prevent damage from cutting.

TWIN-PATH® EXTRA SLINGS

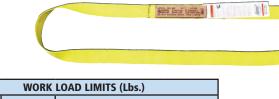
Endless in configuration, patented Twin-Path[®] slings feature conventional polyester load bearing core yarn. Twin-Path[®] Extra slings feature K-Spec[®] High Performance load bearing core yarn. Core yarns are encapsulated by Covermax[®] sleeves, which provide abrasion protection. Patented inspection features and repairability make super strong, ultra light Twin-Path[®] Extra slings, the sling of choice.

AWARNING Abrasion protection will not prevent damage from cutting.



Endless Slings

Endless slings are a versatile sling as hook and load contact points can be rotated. For use in choker, vertical and basket hitches. Sling ends can be tapered and reinforced on request.



				Choker	Vertical						
		Optional	End Taper	0	0	90°	60°	45°	Sling Wei	ght (Lbs.)	Minimum
Width (Inches)	Stock Number	Width	Length	6	U	U			Base 8 Ft.	Adder/Ft.	Sling Length (Ft.)
v	EN1-601	-	-	1,900	2,400	4,800	4,150	3,390	.56	.06	2
1″	EN1-901	-	-	2,500	3,200	6,400	5,540	4,520	.95	.11	2
1″	EN2-601	-	-	3,800	4,800	9,600	8,310	6,780	1.15	.13	2
1″	EN2-901	-	-	5,000	6,400	12,800	11,080	9,050	1.96	.22	2
1″	EN3-901	-	-	7,600	9,600	19,200	16,620	13,570	2.97	.33	3
1-1/2″	EN1-915	-	-	3,700	4,650	9,300	8,050	6,570	1.58	.09	2
1-1/2″	EN2-915	-	-	7,400	9,300	18,600	16,100	13,150	3.26	.18	2
1-1/2″	EN3-915	-	-	11,000	13,950	27,900	24,160	19,720	4.93	.55	3
2″	EN1-602	1″	12″	3,800	4,800	9,600	8,310	6,780	1.36	.16	2
2″	EN1-902	1″	12″	5,000	6,400	12,800	11,080	9,050	1.90	.22	2
2″	EN2-602	1″	12″	7,600	9,600	19,200	16,620	13,570	2.80	.32	2
2″	EN2-902	1″	12″	10,000	12,500	25,000	21,650	17,670	3.92	.44	2
2″	EN3-902	-	-	14,000	17,500	35,000	30,310	24,740	5.94	.67	3
2″	EN4-902	-	-	18,000	23,500	47,000	40,700	33,230	7.95	.89	4
3″	EN1-603	1-1/2″	12″	5,700	7,200	14,400	12,470	10,180	2.38	.28	2
3″	EN1-903	1-1/2″	12″	7,600	9,600	19,200	16,620	13,570	2.99	.35	2
3″	EN2-603	1-1/2″	12″	10,000	12,500	25,000	21,650	17,670	4.90	.56	2
3″	EN2-903	1-1/2″	12″	14,000	17,500	35,000	30,310	24,740	6.16	.70	2
3″	EN3-903		-	21,000	26,500	53,000	45,890	37,470	9.33	1.05	3
3″	EN4-903	-	-	28,000	35,000	70,000	60,620	49,490	12.50	1.40	4
4″	EN1-604	1-1/2″	12″	7,600	9,600	19,200	16,620	13,570	2.92	.34	3
4″	EN1-904	1-1/2"	12″	10,000	12,500	25,000	21,650	17,670	3.74	.44	3
4″	EN2-604	2"	18″	14,000	17,500	35,000	30,310	24,740	6.02	.68	3
4″	EN2-904	2″	18″	18,000	23,500	47,000	40,700	33,230	7.70	.88	3
4″	EN3-904	-		28,000	35,000	70,000	60,620	49,490	11.66	1.32	4
4″	EN4-904			36,000	46,000	92,000	79,670	65,040	15.62	1.76	4
5″	EN1-905	1-3/4″	18″	12,800	16,000	32,000	27,710	22,620	4.56	.53	3
5″	EN2-905	2-1/2"	18″	22,000	27,500	55,000	47,630	38,880	9.38	1.07	4
5″	EN3-905	-	-	33,500	42,000	84,000	72,740	59,380	14.20	1.60	5
5″	EN4-905	-	-	44,800					19.03	1	5
6″	EN1-905	2″	- 18"	15,300	56,000 19,200	112,000 38,400	96,900 33,250	79,180 27,140	5.51	2.14 .64	3
6″	EN2-906	3"	24″	26,000	32,500	65,000	56,290	45,950	11.34	1.29	3
6″	EN3-906	-	-	39,000	48,900	97,800	84,690	69,140	17.17		5
6"				<u> </u>		-	112,580			1.94	5
8″	EN4-906	- 3″	- 18″	52,000	65,000	130,000 51,200		91,910	23.00 7.62	2.59 .90	3
8″	EN1-908	3 4″	24"	20,000	25,600	-	44,330	36,190	1		
8″ 8″	EN2-908	4	-	32,700	40,960	81,920	70,940	57,910	15.68	1.79	4
8" 8"	EN3-908			49,000	61,000	122,000	105,650	86,250	23.74	2.69	
	EN4-908	-	-	65,500	81,900	163,800	158,230	141,850	31.81	3.58	6
10"	EN1-910	3-1/2"	24"	25,600	32,000	64,000	55,420	45,240	9.96	1.17	3
10"	EN2-910	5″	30″	38,400	48,000	96,000	83,130	67,870	20.51	2.34	4
10"	EN3-910	-	-	57,600	72,000	144,000	124,700	101,800	31.06	3.52	5
10"	EN4-910	-	-	76,800	96,000	192,000	166,270	135,740	41.61	4.69	6
12″	EN1-912	4"	30″	30,720	38,000	76,000	65,810	53,730	12.24	1.44	3
12″	EN2-912	6″	36″	43,000	53,000	106,000	91,790	74,940	25.20	2.88	5
12″	EN3-912	-	-	64,000	80,000	160,000	138,560	113,120	38.16	4.32	6
12″	EN4-912	-	-	86,000	107,000	214,000	185,324	151,298	51.12	5.76	8

Available in either nylon or polyester webbing.

Polyester webbing is available in (9) heavy web class only.

For Polyester Max Edge™ webbing add letters PME to Stock Number. (Example: EN2-904PME)

Consider using Twin-Path® Extra Slings in applications requiring 3 and 4 ply thick slings, wider than 4 inches.

WARNING DO NOT EXCEED WORK LOAD LIMITS

WARNING

Can fail if damaged, misused or overloaded. Inspect before use. Use by untrained personnel is hazardous. OBSERVE AND DO NOT EXCEED WORK LOAD LIMIT. DEATH and INJURY can occur from improper use or maintenance.



Eye and Eye Slings





Tapered Code FT Eye and Eye slings can be used in choker, vertical and basket hitches. Slings with Half Twist (Type 4) eyes are furnished unless Flat (Type 3) eyes are specified. Sling eyes will be wrapped at the bearing point unless otherwise specified.

Tapered eyes are automatically furnished on slings over 2 inches wide to provide for a proper relationship between the sling and the connection point. Eyes with no taper are also available.

The bearing points of Half Twist (Type 4) eyes are oriented 90° to the sling body. The perpendicular relationship between the eye and body in Half Twist, Type 4 eyes results in a comparatively advantageous choke hitch, when compared to Flat (Type 3) eyes. Half Twist eyes perform equally well in vertical or basket hitches.



For Half Twist Eyes with Taper, For Half Twist Eyes with no taper, For Flat Eyes with Taper, For Flat Eyes with no taper,

Specify " HTT "	(EE1-902 HTT)
Specify " HT "	(EE1-902 HT)
Specify "FT"	(EE1-902 FT)
Specify "FE"	(EE1-902 FE)

Eye Width - 1" Eye Width - 2" Eye Width - 1" Eye Width - 2"



Half Twist

Eyes depicted feature standard eye wrap, Order Code "J" and does not need to be added to sling stock number. Other eye treatments are available and must be specified.

Flat No Tape	r										Half Iwist No Taper
Code Fl						<u>K LOAD LIMI</u>					Code HT
				Choker	Vertical		asket Hitch				
Width	Stock		nensions :hes)	D	D	90°	60° ∧	45°	Sling Wei	ght (Lbs.)	Minimum
(Inches)	Number	Width	Length	15					Base 8 Ft.	Adder / Ft.	Sling Length (Ft.)
1″	EE1-601	1″	9″	900	1.200	2,400	2,070	1,690	.40	.03	4
1″	EE1-901	1″	9″	1,200	1,600	3,200	2,770	2,260	.67	.05	4
1″	EE2-601	1″	9″	1,900	2,400	4,800	4,150	3,390	.59	.06	3
1″	EE2-901	1″	9″	2,500	3,200	6,400	5,540	4,520	1.00	.11	3
1″	EE4-601	1″	12″	3,800	4,800	9,600	8,310	6,780	1.22	.13	4
1″	EE4-901	1″	12"	5,000	6,400	12,800	11,080	9,050	2.07	.22	4
1-1/2"	EE1-915	1-1/2"	9″	1,800	2,300	4,600	3,980	3,250	1.11	.09	4
1-1/2"	EE2-915	1-1/2"	9″	3,600	4,600	9,200	7,960	6,500	1.67	.19	3
1-1/2″	EE4-915	1-1/2″	12″	7,200	9,200	18,400	15,930	13,000	3.44	.37	4
2″	EE1-602	2″	12″	1,900	2,400	4,800	4,150	3,390	.96	.08	4
2″	EE1-902	2″	12″	2,500	3,200	6,400	5,540	4,520	1.34	.11	4
2″	EE2-602	2″	12″	3,800	4,800	9,600	8.310	6,780	1.44	.16	4
2″	EE2-902	2″	12″	5,000	6,400	12,800	11,080	9,050	2.02	.22	4
2″	EE4-602	2″	12″	7,000	8,860	17,720	15,340	12,530	2.96	.32	4
2″	EE4-902	2″	12″	9,000	11,400	22,800	19,740	16,120	4.14	.40	4
3″	EE1-603	1-1/2″	12″	2,700	3,600	7.200	6,230	5,090	1.82	.14	4
3″	EE1-903	1-1/2"	12″	3,800	4,800	9,600	8,310	6,780	2.29	.18	4
3″	EE2-603	1-1/2″	12″	5,300	6,600	13,200	11,430	9,330	2.52	.28	4
3″	EE2-903	1-1/2″	12″	7,000	8,860	17,720	15,340	12,530	3.24	.35	4
3″	EE4-603	1-1/2″	18″	9,000	11,400	22,800	19,740	16,120	5.18	.56	5
3″	EE4-903	1-1/2″	18″	13,000	17,000	34,000	29,440	24,040	6.60	.70	5
4″	EE1-604	1-1/2″	14″	3,800	4,800	9,600	8,310	6,780	2.24	.17	5
4″	EE1-904	1-1/2″	14″	5,000	6,400	12,800	11,080	9,050	2.86	.22	5
4″	EE2-604	1-1/2″	14″	7,000	8,860	17,720	15,340	12,530	3.10	.34	5
4″	EE2-904	1-1/2″	14″	9,000	11,400	22,800	19,740	16,120	3.96	.44	5
4″	EE4-604	2″	18″	12,000	15,000	30,000	25,980	21,210	6.54	.69	6
4″	EE4-904	2″	18″	18,000	22,800	45,600	39,480	32,240	8.36	.88	6
5″	EE1-905	1-3/4″	18″	6,000	8,000	16,000	13,850	11,310	3.48	.27	6
5″	EE2-905	1-3/4″	18″	11,400	14,250	28,500	24,680	20,150	4.82	.54	6
5″	EE4-905	2-1/2″	24″	19,000	24,000	48,000	41,560	33,940	10.18	1.07	8
6″	EE1-906	2″	24″	7,600	9,600	19,200	16,620	13,570	4.21	.32	8
6″	EE2-906	2″	24″	13,000	17,000	34,000	29,440	24,040	5.83	.65	8
6″	EE4-906	3″	24″	24,000	30,000	60,000	51,960	42,420	12.31	1.30	8
8″	EE1-908	3″	24″	10,250	12,800	25,600	22,170	18,100	6.27	.45	8
8″	EE2-908	3″	24″	18,000	22,800	45,600	39,490	32,240	8.51	.90	8
8″	EE4-908	4″	24″	32,000	40,000	80,000	69,280	56,560	17.47	1.79	8
10″	EE1-910	3-1/2″	24″	12,000	15,000	30,000	25,980	21,210	8.20	.59	8
10″	EE2-910	3-1/2″	24″	19,000	24,000	48,000	41,560	33,940	11.13	1.17	8
10″	EE4-910	5″	30″	36,000	45,000	90,000	77,940	63,630	22.85	2.34	10
12″	EE1-912	4″	30″	15,000	19,000	38,000	32,910	26,860	10.08	.72	10
12″	EE2-912	4″	30″	24,000	30,000	60,000	51,960	42,420	13.68	1.44	10
12″	EE4-912	6″	36″	43,000	53,000	106,000	91,790	74,940	28.80	2.88	12

Available in either nylon or polyester webbing.

Polyester webbing is available in (9) heavy web class only. For Polyester Max Edge™ webbing add letters "PME" to Stock Number. (Example: EE2-904PME)

Consider using Twin-Path[®] Extra Slings in applications requiring 4 ply thick slings, wider than 6 inches.

WARNING DO NOT EXCEED WORK LOAD LIMITS

🛕 WARNING

Can fail if damaged, misused or overloaded. Inspect before use. Use by untrained personnel is hazardous. OBSERVE AND DO NOT EXCEED WORK LOAD LIMIT. DEATH and INJURY can occur from improper use or maintenance.





Choker Hardware Slings

Aluminum (ACH) or alloy steel (SCH) choker fittings provide for the most efficient choke hitching available for webbing slings.



Steel fittings are automatically supplied on two and four ply slings. Recycle your fittings for cost savings. Exposure to acids, alkalis or other corrosive agents must be evaluated prior to use.

WARNING Fittings should never be used or exposed to sprays, mists, vapors, fumes or liquids of harmful acids, alkalis, chlorine or other corrosive agents. While aluminum fittings are non-sparking and do not rust, they are not as durable and cost more than steel hardware. Aluminum fittings are degraded by salt water and should not be cleaned with chlorine based solutions.

			WORK LOAD LIMITS (Lbs.)							
			Choker	Vertical	I	Basket Hitche	S	Cling Woi	ght (Lbs.)	
	Width	Stock	D	D	90°	60°	45°	Sing we	giit (LDS.)	Minimum Sling Length
ALUMINUM	(Inches)	Number	Ð					Base 8 Ft.	Adder / Ft.	(Ft.)
MIN	2″	ACH1-602	1,900	2,400	4,800	4,150	3,390	2.44	.08	3
	2″	ACH1-902	2,500	3,200	6,400	5,540	4,520	2.66	.11	3
•	3″	ACH1-603	2,700	3,600	7,200	6,230	5,090	4.00	.14	3
	3″	ACH1-903	3,800	4,800	9,600	8,310	6,780	4.55	.18	3
	4″	ACH1-604	3,800	4,800	9,600	8,310	6,780	5.48	.17	4
	4″	ACH1-904	5,000	6,400	12,800	11,080	9,050	6.20	.22	4
	6″	ACH1-906	7,600	9,600	19,200	16,620	13,570	12.00	.32	5
	2″	SCH1-602	1,900	2,400	4,800	4,150	3,390	4.20	.08	3
	2″	SCH1-902	2,500	3,200	6,400	5,540	4,520	4.42	.11	3
	2″	SCH2-602	3,800	4,800	9,600	8,310	6,780	4.56	.16	3
	2″	SCH2-902	5,000	6,400	12,800	11,080	9,050	5.26	.22	3
	2″	SCH4-602	7,000	8,600	17,200	15,340	12,530	8.10	.32	4
	2″	SCH4-902	9,000	11,400	22,800	19,740	16,120	9.76	.44	4
	3″	SCH1-603	2,700	3,600	7,200	6,230	5,090	6.60	.14	3
	3″	SCH1-903	3,800	4,800	9,600	8,310	6,780	7.15	.18	3
	3″	SCH2-603	5,300	6,600	13,200	11,430	9,330	7.59	.28	3
	3″	SCH2-903	6,900	8,600	17,720	15,346	12,530	8.44	.35	3
	3″	SCH4-603	9,000	11,400	22,800	19,740	16,120	14.92	.56	4
	3″	SCH4-903	13,000	17,000	34,000	29,440	24,040	16.36	.70	4
	4″	SCH1-604	3,800	4,800	9,600	8,310	6,780	9.38	.17	4
	4″	SCH1-904	5,000	6,400	12,800	11,080	9,050	10.10	.22	4
	4″	SCH2-604	7,000	8,860	17,720	15,340	12,530	10.46	.34	3
STEEL	4″	SCH2-904	9,000	11,400	22,800	19,740	16,120	11.64	.44	3
STI	4″	SCH4-604	12,000	15,000	30,000	25,980	21,210	19.20	.69	5
	4″	SCH4-904	18,000	22,800	45,600	39,480	32,240	21.18	.88	5
	5″	SCH1-905	6,000	8,000	16,000	13,850	11,310	13.23	.27	5
	5″	SCH2-905	11,400	14,250	28,500	24,680	20,150	15.10	.54	4
	6″	SCH1-906	7,600	9,600	19,200	16,620	13,570	16.15	.32	6
	6″	SCH2-906	13,400	16,800	33,600	29,098	23,759	17.80	.65	6
	6″	SCH4-906	24,000	30,000	60,000	58,890	48,080	40.66	1.30	6
	8″	SCH1-908	10,250	12,800	25,600	22,170	18,100	46.86	.45	6
	8″	SCH2-908	17,900	22,400	44,800	38,797	31,678	49.26	.90	6
	8″	SCH4-908	32,000	40,000	80,000	69,280	56,560	67.68	1.79	7
	10″	SCH1-910	12,000	15,000	30,000	25,980	21,210	53.61	.59	8
	10″	SCH2-910	19,000	24,000	48,000	41,560	33,940	55.96	1.17	6
	10″	SCH4-910	36,000	45,000	90,000	77,940	63,630	97.66	2.34	9
	12″	SCH1-912	15,000	19,000	38,000	32,910	26,860	66.44	.72	8
	12″	SCH2-912	24,000	30,000	60,000	51,960	42,420	69.44	1.44	6
	12″	SCH4-912	43,000	53,000	106,000	91,790	74,940	127.44	2.88	9

Available in either nylon or polyester webbing. Polyester webbing is available in (9) heavy web class only. For Polyester Max Edge™ webbing add letters "PME" to Stock Number. (Example: SCH2-904PME)

WARNING DO NOT EXCEED WORK LOAD LIMITS

WARNING

Can fail if damaged, misused or overloaded. Inspect before use. Use by untrained personnel is hazardous. OBSERVE AND DO NOT EXCEED WORK LOAD LIMIT. DEATH and INJURY can occur from improper use or maintenance.



Basket Hardware Slings



Basket Hardware Slings feature fittings of aluminum (ABH) or alloy steel (SBH). Steel fittings are automatically supplied on two and four ply slings.

Recycle your fittings for cost savings. Exposure to acids, alkalis or other corrosive agents must be evaluated prior to use.



WARNING Fittings should never be used or exposed to sprays, mists, vapors, fumes or liquids of harmful acids, alkalis, chlorine or other corrosive agents. While aluminum fittings are non-sparking and do not rust, they are not as durable and cost more than steel hardware. Aluminum fittings are degraded by salt water and should not be cleaned with chlorine based solutions.

			WORK LOAD LIMITS (Lbs.)						
			Vertical		Basket Hitches				
	Width (Inches)	Stock Number	P	90°	60°	45°	Sling We	ight (Lbs.)	Minimum Sling Length (Ft.)
ALUMINUM			6				Base 8 Ft.	Adder / Ft.	()
NIN	2″	ABH1-602	2,400	4,800	4,150	3,390	2.04	.08	3
L L	2″	ABH1-902	3,200	6,400	5,540	4,520	2.26	.11	3
< <	3″	ABH1-603	3,600	7,200	6,230	5,090	3.50	.14	3
	3″	ABH1-903	4,800	9,600	8,310	6,780	4.05	.18	3
	4″	ABH1-604	4,800	9,600	8,310	6,780	4.78	.17	3
	4″	ABH1-904	6,400	12,800	11,080	9,050	5.50	.22	3
	6″	ABH1-906	9,600	19,200	16,620	13,570	9.85	.32	4
	2″	SBH1-602	2,400	4,800	4,150	3,390	3.40	.08	3
	2″	SBH1-902	3,200	6,400	5,540	4,520	3.62	.11	3
	2″	SBH2-602	4,800	9,600	8,310	6,780	3.76	.16	3
	2″	SBH2-902	6,400	12,800	11,080	9,050	4.46	.22	3
	2″	SBH4-602	8,860	17,720	15,340	12,530	6.60	.32	3
	2″	SBH4-902	11,400	22,800	19,740	16,120	8.26	.44	3
	3″	SBH1-603	3,600	7,200	6,230	5,090	5.30	.14	3
	3″	SBH1-903	4,800	9,600	8,310	6,780	5.85	.18	3
	3″	SBH2-603	6,600	13,200	11,430	9,330	6.29	.28	3
	3″	SBH2-903	8,600	17,200	15,346	12,530	7.14	.35	3
	3″	SBH4-603	11,400	22,800	19,740	16,120	11.92	.56	4
	3″	SBH4-903	17,000	34,000	29,440	24,040	13.36	.70	4
	4″	SBH1-604	4,800	9,600	8,310	6,780	7.38	.17	3
	4″	SBH1-904	6,400	12,800	11,080	9,050	8.10	.22	3
	4″	SBH2-604	8,860	17,720	15,340	12,530	8.46	.34	3
STEEL	4″	SBH2-904	11,400	22,800	19,740	16,120	9.64	.44	3
STI	4″	SBH4-604	15,000	30,000	25,980	21,210	15.20	.69	4
	4″	SBH4-904	22,800	45,600	39,480	32,240	17.18	.88	4
	5″	SBH1-905	8,000	16,000	13,850	11,310	10.43	.27	4
	5″	SBH2-905	14,250	28,500	24,680	20,150	12.30	.54	4
	6″	SBH1-906	9,600	19,200	16,620	13,570	12.75	.32	5
	6″	SBH2-906	16,800	33,600	29,098	23,759	14.40	.65	5
	6″	SBH4-906	34,000	68,000	58,890	48,080	33.66	1.30	6
	8″	SBH1-908	12,800	25,600	22,170	18,100	31.11	.45	6
	8″	SBH2-908	22,400	44,800	38,797	31,678	33.51	.90	6
	8″	SBH4-908	40,000	80,000	69,280	56,560	51.68	1.79	7
	10″	SBH1-910	15,000	30,000	25,980	21,210	39.71	.59	8
	10″	SBH2-910	24,000	48,000	41,560	33,940	42.06	1.17	6
	10″	SBH4-910	45,000	90,000	77,940	63,630	71.24	2.34	8
	12″	SBH1-912	19,000	38,000	32,910	26,860	45.64	.72	8
	12″	SBH2-912	30,000	60,000	51,960	42,420	48.64	1.44	6
	12″	SBH4-912	53,000	106,000	91,790	74,940	86.94	2.88	8

Available in either nylon or polyester webbing.

Polyester webbing is available in (9) heavy web class only.

For Polyester Max Edge™ webbing add letters "PME" to Stock Number. (Example: SBH2-904PME)

WARNING DO NOT EXCEED WORK LOAD LIMITS

WARNING

Can fail if damaged, misused or overloaded. Inspect before use. Use by untrained personnel is hazardous. OBSERVE AND DO NOT EXCEED WORK LOAD LIMIT. DEATH and INJURY can occur from improper use or maintenance.



Lift-It[®] Bridle Assemblies feature combinations of links, fabric eyes and web hooks for the efficient handling of loads with fixed lifting points. Synthetic Bridle Assemblies are lightweight and easy to handle when compared to wire and chain bridles.

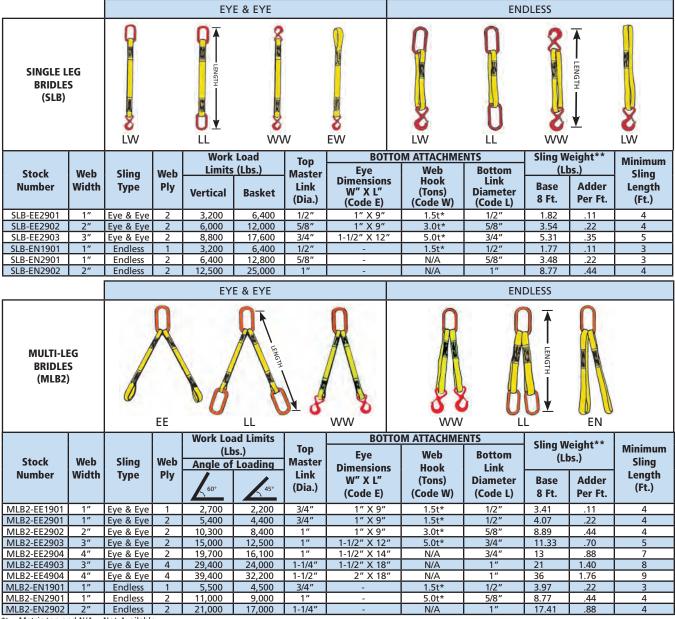
Lift-It[®] Bridle Assemblies feature hardware that is substantially larger than provided by other manufacturers. We take into account not only the strength requirements, but the spatial relationship between sling attachment points and interfacing hardware.

Lift-It[®] Bridle Assembly capacities are lower than our competitors. (MLB3)Three Leg Bridle Assembly capacities are based upon 2-1/2 legs for the assigned capacity. (MLB4) Four Leg Bridle Assembly capacities are based on three legs for the assigned capacity.

Lower capacities and more expensive, larger hardware will never allow us to be the successful, low bidder. Our conservative approach is respected by conscientious users and appreciated by sophisticated purchasers. In this instance, spending more for less provides for improved safety and longer sling service.

Masterlinks are welded. Forged (non-welded) masterlinks are available upon request. All hooks are supplied with latches. Bottom fittings are placed in the same plane as the top lifting fixture, unless otherwise specified. All fittings are alloy steel and other types of materials and attachments are available.

Endless bridle slings allow for sling rotation. Do not place load carrying splices in contact points with bridle masterlinks or fittings.



*t = Metric ton and N/A = Not Available

**Bottom attachment weight must be added to base weight for total sling weight. Base (8ft) assembly weights and minimum lengths are based upon Masterlinks. Weights and minimum lengths for Master Sub-Assemblies must be calculated.

Available in either nylon or polyester webbing.

Polyester webbing is available in (9) heavy web class only.

For Polyester Max Edge™ webbing add letters "PME" to Stock Number.

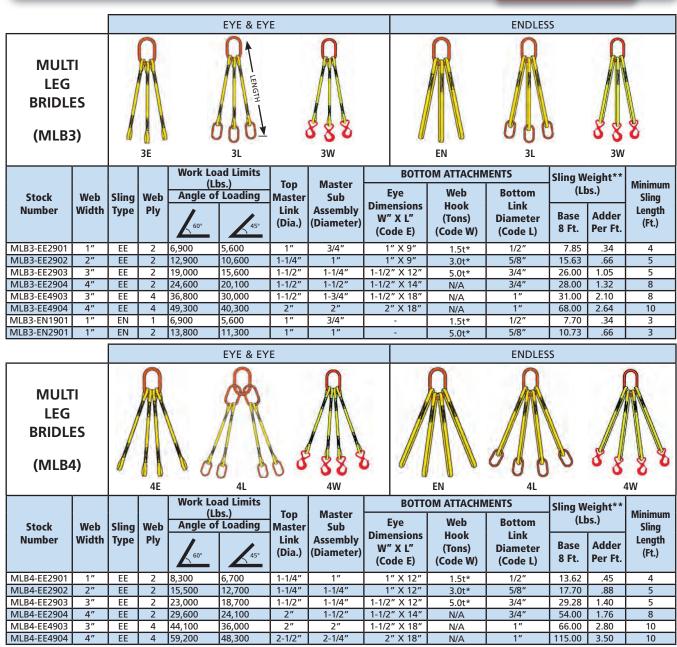
(Example: MLB2-EE2902-PME-WW)

WARNING DO NOT EXCEED WORK LOAD LIMITS

Can fail if damaged, misused or overloaded. Inspect before use. Use by untrained personnel is hazardous. OBSERVE AND DO NOT EXCEED WORK LOAD LIMIT. DEATH and INJURY can occur from improper use or maintenance.



Bridle Assemblies



*t = Metric ton and N/A = Not Available

**Bottom attachment weight must be added to base weight for total sling weight. Base (8ft) assembly weights and minimum lengths are based upon masterlinks. Weights and minimum lengths for Master Sub-Assemblies must be calculated.

WARNING Work Load Limits for Multi-Leg Bridle Assemblies are based on the following conditions:

- 1. Even load weight distribution on all legs.
- Bridle legs being same length. If the legs are not sharing the load equally, the assembly design factor is reduced.
- 3. All bridle legs used at the same horizontal angle. If the conditions of the lift vary from those above, Work Load Limits must be recalculated.
- 4. All bridle legs attached at the same level.

Lift-It[®] Bridle Sling fittings are substantially larger than those offered by our competitors. Larger fittings provide for a proper, spatial relationship, minimizing crowding and bunching at sling connection points. Consider using Masterlinks with Subassemblies (MSA) for Bridles with more than two legs.





Roundslings







LIFT-IT® ROUNDSLING CONSTRUCTION AND FEATURES

Lift-It[®] Polyester Roundslings are made of polyester core yarn covered by a seamless, tubular cover. The seamless construction and tubular design of the cover helps to eliminate the premature rupturing of covers, characteristic of seamed roundslings. All Lift-It[®] Polyester Roundslings feature a double polyester cover with an internal contrasting colored cover.

Since the core yarns are not directly in contact with the load there is no loss of strength from abrasion to the sling cover.

Endless configurations enable the user to rotate hook and load contact points, resulting in increased sling longevity.

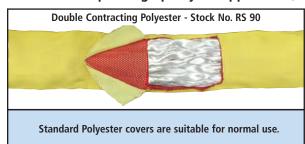
Because the sling body is soft and pliable, it will not choke lock, hindering removal.

Multiple polyester roundslings are manufactured simultaneously, resulting in increased production efficiency and cost savings, when compared to equivalent strength web slings.

It's important in a global economy to remain competitive without compromising safety. To that end we have established relationships with foreign partners and offer an import line of roundslings. Available with Double Polyester covers our imported roundslings are made to the same specifications and standards as our domestic products. On site management and supervision at our foreign facility, coupled with testing at our US locations ensures quality and cost efficiency. Our import line will feature the same tagging, traceability, unique serial numbers and all other features that you have come to expect as standard procedures at Lift-It[®]. One striking difference between us and others is that we will not sell you an import masquerading as a domestic product. Stock numbers indicate an imported product, i.e., RS90W.

LIFT-IT® ROUNDSLING COVER SELECTIONS

Depending upon your application, different, seamless, tubular covers are available.





WARNING

Polyester is adversely affected by aldehydes, ethers, concentrated sulfuric acid and alkalis at elevated temperatures. Nylon is adversely affected by acids and bleaching agents. In active chemical environments, where exposure could be deleterious to one or both yarn types, a Qualified Person must make a hazard assessment.

Always refer to the sling tag for sling capacities and do not rely on color codification to determine sling strength.

HOW TO ORDER

All orders must specify:

1. COMPLETE STOCK NUMBER

2. SLING LENGTH: Unless otherwise specified: Sling lengths are measured as bearing to bearing lengths. Assembly lengths are measured as bearing hardware.

3. FITTING DESCRIPTION

4. SLING PROTECTION:

Description, quantity and length of sling protection.

One strand sleeve (non-removable)



Two strand sleeve (removable)

909.469.2251

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www.lift-it.com

Roundsling Specifications



E	ENDLESS CONFIGURATION								
STOCK NUMBER	RS30	RS50	RS60	RS90) R	S120	RS15	0 RS180	RS240
COLOR CODE	PURPLE	BLACK	GREEN	YELLO	w	ΓAN	RED	WHITE	BLUE
CHOKER (WLL - LBS.)	2,120	3,200	4,240	6,72	8 0	,500	10,56	0 13,400	17,000
VERTICAL (WLL - LBS.)	2,650	4,000	5,300	8,40	0 10	0,600	13,20	0 16,800	21,200
BASKET (WLL - LBS.) AT 90°	5,300	8,000	10,600	16,80	0 2 [.]	1,200	26,40	0 33,600	42,400
BASKET (WLL - LBS.) AT 60°	4,500	6,900	9,100	14,50	<mark>)0</mark> 18	3,300	22,80	0 29,000	36,700
BASKET (WLL - LBS.) AT 45°	3,600	5,600	7,400	11,80	0 <mark>0 1</mark> 4	1,900	18,60	0 23,750	29,900
MINIMUM LENGTH	18″	18″	18″	3 Ft.	. 3	3 Ft.	3 Ft.	3 Ft.	3 Ft.
MINIMUM CONNECTION DIA. CHOKER or VERTICAL (Inches)	.50	.50	.62	.75		.87	1.00	1.00	1.38
MINIMUM CONNECTION DIAMETER BASKET (Inches)	.62	.62	.88	1.00) ·	1.25	1.38	1.62	1.75
WEIGHT-LBS PER FOOT (BEARING to BEARING) (Inches)	.21	.30	.32	.45		.55	.60	.75	.90
BODY DIAMETER (RELAXED) (Inches)	1.04	1.11	1.11	1.27	, .	1.32	1.43	1.59	1.75
THICKNESS WHEN LOADED (Inches)	.20	.25	.25	.30		.38	.38	.40	.50
WIDTH WHEN LOADED (Inches)	2.00	2.00	2.00	2.75	; i	3.00	3.00	3.00	4.00
STOCK NUMBER	RS360DC	RS400DC	RS600E	C R	S800DC	RS1	000DC	RS1100DCP	RS1200DCP
COLOR CODE	GRAY	GRAY	GRAY	·	GRAY	G	iray	GRAY	GRAY
CHOKER (WLL - LBS.)	24,800	32,000	43,000)	52,800	7.	2,000	80,000	88,000
VERTICAL (WLL - LBS.)	31,000	40,000	53,000)	66,000	9	0,000	100,000	110,000
BASKET (WLL - LBS.) AT 90°	62,000	80,000	106,00	0 1	132,000	18	0,000	200,000	220,000
BASKET (WLL - LBS.) AT 60°	53,600	69,280	91,790	5 1	114,312	15	5,880	173,200	190,520
BASKET (WLL - LBS.) AT 45°	43,800	56,568	74,942	2	93,324	12	7,260	141,400	155,540
MINIMUM LENGTH	3 Ft.	4 Ft.	4 Ft.		4 Ft.		6 Ft.	6 Ft.	6 Ft.
MINIMUM CONNECTION DIA. CHOKER or VERTICAL (Inches)	1.62	2.25	2.40		2.40		3.00	3.50	4.00
MINIMUM CONNECTION DIAMETER BASKET (Inches)	2.00	2.38	2.75		3.00		3.50	4.00	4.50
WEIGHT-LBS PER FOOT (BEARING to BEARING) (Inches)	1.50	2.00	2.85		3.60		4.60	5.30	6.80
BODY DIAMETER (RELAXED) (Inches)	2.39	2.55	3.03		3.50		3.82	4.00	4.50
THICKNESS WHEN LOADED (Inches)	.50	.75	.80		1.00		1.10	1.25	1.40
WIDTH WHEN LOADED (Inches)	4.25	5.00	5.25		6.00		8.00	8.00	8.00

✓CHECK-FAST[®] HIGH PERFORMANCE ROUNDSLINGS

✓Check-Fast[®] High Performance Roundslings are the only single path HP Roundsling to feature the ✓Check-Fast[®], Inspection System. Resilient K-Spec[®] Load Bearing Core Yarns are encapsulated by Covermax[®] Roundsling Covers.

✓ CHECK-FAST [®] HIGH PERFORMANCE ROUNDSLING SPECIFICATIONS									
		WORK	LOAD LIMITS	6 (Lbs.)					
✔ Check-Fast®	Choker	Vertical	Basket Hitches			Approximate			
HP Roundsling Stock Number	Ð	0	90°	60°	45°	Weight (Lbs. per Ft.) (Bearing-Bearing)	Body Width (Inches)		
SP 500CF	4,000	5,000	10,000	8,660	7,070	.34	2.5″		
SP 1000CF	8,000	10,000	20,000	17,320	14,140	.38	2.5″		
SP 1500CF	12,000	15,000	30,000	25,980	21,210	.44	2.5″		
SP 2000CF	16,000	20,000	40,000	34,640	28,280	.52	2.5″		
SP 2500CF	20,000	25,000	50,000	43,300	35,350	.59	3″		
SP 3000CF	24,000	30,000	60,000	51,960	42,420	.65	3″		
SP 4000CF	32,000	40,000	80,000	69,280	56,560	.85	3″		
SP 5000CF	40,000	50,000	100,000	86,600	70,700	.98	4″		
SP 6000CF	48,000	60,000	120,000	103,920	84,840	1.11	4″		
SP 7000CF	56,000	70,000	140,000	121,240	98,980	1.24	4″		
SP 8500CF	68,000	85,000	170,000	147,220	120,190	1.63	5″		
SP 10000CF	80,000	100,000	200,000	173,200	141,400	1.81	5″		





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Twin-Path[®] slings are actually two complete yet separate slings in one. Each path accounts for 50% of the total sling Work Load and makes its own separate connection between the hook and the load. Twin-Path[®] slings provide sling users redundant, back up protection.

EASY INSPECTION

Twin-Path[®] slings provide sling users with an early warning inspection system. The load bearing core yarn is encapsulated by Covermax[®] or polyester covers and does not contact the load. Cornermax[®] is made from a double layer industrial nylon material. If you see the inner, red cover, remove the sling from service and return it for repair evaluation.

✓ CHECK -FAST[®] INSPECTION SYSTEM

✓Check-Fast[®] Inspection provides users and inspectors a pass/fail inspection system for evaluating load bearing core yarn condition. Damage to core yarn from fiber on fiber abrasion, UV degradation and severe overload can be detected. The ✓Check-Fast[®] tag and External Warning Indicator (EWI) make up the ✓Check-Fast[®] Inspection System. If accidental overload beyond rated capacity occurs, the External Warning Indicator (EWI) will disappear before the sling fails. Sling users and inspectors now have an objective pass/fail inspection system. The ✓Check-Fast[®] Inspection System combined with both a thorough visual and a hand over hand inspection provides improved job site safety. Specify Check-Fast[®] by adding CF to the stock number, i.e., TUFXKS 4000 CF.

US Patent No. 7,661,737

FIBER-OPTIC INSPECTION SYSTEM

Only Twin-Path[®] Slings have a Fiber-Optic Inspection System. Fiber Optic Inspection assists sling users and inspectors in evaluating the condition of the load bearing core yarns. Core Yarn condition can be inspected by checking Fiber Optic cable conductivity. If Core Yarn has suffered chemical, heat or crushing damage, fiber optic cables may lose the ability to transmit light from one end to the other. Lack of light conductivity gives the inspector a reason to remove the sling from service and return it for repair evaluation. Fiber Optic cables will conduct light from overhead sources or flashlights. The inspector simply covers and removes a finger from one cable end and watches the other cable end for blinking, indicating conductivity. Fiber Optic Inspection combined with both a thorough visual and a hand over hand inspection provides inspectors the assurance slings are acceptable for use.

US Patent No. 5,651,572

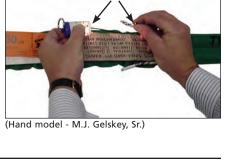
TATTLE TAILS

Before each use, inspect the entire sling. Tattle Tails are not a precision force measurement device. Tattle tails are an extension of the load bearing core yarns. Tattle Tails will retract and eventually disappear as the sling is severely overloaded. Tattle Tails must extend past the tag area of the sling. Both Tattle Tails must be visible; if not, remove the sling from service for repair evaluation. If Tattle Tails or any part of the sling shows evidence of chemical degradation, remove it from service for repair evaluation.

TAILS PRESENT PASS TAIL MISSING FAIL

Slings can fail if damaged, misused, or overloaded. Inspect before use. Damaged slings shall not be used. Do Not Exceed Rated Capacity. Protect sling from being cut by load edges, protrusions, corners and abrasive surfaces. Avoid exposure to damaging chemicals and temperatures over 180 degrees (F). DEATH or INJURY can occur from improper use or maintenance.

WARNING





EWI External Warning Indicator

Fiber-Optic Cable





Twin-Pa

Twin-Path[®] Extra Slings





The first truly ergonomic sling, Twin-Path[®] Extra Slings are used worldwide in place of wire rope slings for heavy lifts. Twin-Path[®] Extra Slings weigh approximately 10% of comparable strength, steel slings. Super strong and ultra-light, Twin-Path[®] Extra Slings rated at 600,000 Lbs. vertical capacity are standard items and larger capacity slings are available.

The patented Twin-Path[®] design provides two connections between the hook and the load for redundant, back up protection. Twin-Path[®] Slings feature: Tattle Tails, Contrasting Colored Covers, Fiber Optic Inspection System and **C**check-Fast[®] Inspection System. No other sling has these features which separate the best from all the rest. Stretch at Work Load Limit is approximately 1%.

K-Spec[®] load bearing core yarn gives Twin-Path Extra[®] Slings their incredible strength. K-Spec[®] Core Yarn has been determined to be the most resilient and abrasion resistant load bearing core yarn, confirmed by independent testing. Covermax[®], a bulked nylon, outer, protective cover provides abrasion resistance. Covermax[®] is automatically furnished for all Twin-Path[®] Slings rated greater than 40,000 vertical pounds.

K-Spec[®] Core Yarn durability combined with the abrasion resistance of Covermax[®] covers, makes Twin-Path[®]Extra Slings the first, repairable sling. Twin-Path[®] Extra Slings are definitely the slings of choice when ergonomics, productivity and safety are important considerations.

]		Work Load Li	nits (Lbs.) (5/1 [)osian Eactor)]	
		Choker	Vertical		Basket Hitches			
Polyester	Covermax®	CIIOKEI	vertical	0		0	Appro	ximate
Cover	Cover	_		90°	60 °	45°		
Stock Number	Stock Number	Ð		\bigcup	\bigcirc	\bigcirc	Weight (Lbs. per Ft.) (Bearing- Bearing)	Body Width (Inches) Tube/Tapered
TPXKS 1000	TUFXKS 1000	8,000	10,000	20,000	17,320	14,140	.40	3" / 1.5"
TPXKS 1500	TUFXKS 1500	12,000	15,000	30,000	25,980	21,210	.45	3" / 1.5"
TPXKS 2000	TUFXKS 2000	16,000	20,000	40,000	34,640	28,280	.51	3" / 1.5"
TPXKS 2500	TUFXKS 2500	20,000	25,000	50,000	43,300	35,350	.57	4/2″
TPXKS 3000	TUFXKS 3000	24,000	30,000	60,000	51,960	42,420	.71	4 / 2″
TPXKS 4000	TUFXKS 4000	32,000	40,000	80,000	69,280	56,560	.83	4 / 2″
-	TUFXKS 5000	40,000	50,000	100,000	86,600	70,700	1.14	5 / 2.5"
-	TUFXKS 6000	48,000	60,000	120,000	103,920	84,840	1.27	5 / 2.5"
-	TUFXKS 7000	56,000	70,000	140,000	121,240	98,980	1.39	5 / 2.5"
-	TUFXKS 8500	68,000	85,000	170,000	147,220	120,190	1.65	6" / 3"
-	TUFXKS 10000	80,000	100,000	200,000	173,200	141,400	1.84	6" / 3"
-	TUFXKS 12500	100,000	125,000	250,000	216,500	176,750	2.35	8″ / 4″
-	TUFXKS 15000	120,000	150,000	300,000	259,800	212,100	2.66	8″ / 4″
-	TUFXKS 17500	140,000	175,000	350,000	303,100	247,450	3.14	8″ / 4″
-	TUFXKS 20000	160,000	200,000	400,000	346,400	282,800	3.45	10" / 5"
-	TUFXKS 25000	200,000	250,000	500,000	433,000	353,500	4.07	10" / 5"
-	TUFXKS 27500	220,000	275,000	550,000	476,300	388,850	4.61	12" / 6"
-	TUFXKS 30000	240,000	300,000	600,000	519,600	424,200	4.92	12" / 6"
-	TUFXKS 40000	320,000	400,000	800,000	692,800	565,600	6.54	14" / 7"
-	TUFXKS 50000	400,000	500,000	1,000,000	866,000	707,000	8.15	14" / 7"
-	TUFXKS 60000	480,000	600,000	1,200,000	1,039,000	848,000	10.20	16" / 8"

TWIN-PATH® EXTRA SPECIFICATIONS

Please Note: Work Load Limits include both paths and are for one complete sling. Work Load Limits are based upon connection points that have equal or greater strength. Twin-Path[®] Extra Slings conform to the specifications and standards of: ASME B30-9, Chapter 6, Web Sling and Tie Down Association, WSTDA-RS-1, US Navy, NAVFAC P307, Section 14.6.4.3 and Cordage Institute Roundsling Standard, CI-1905.

Dimensions can vary according to the hardware or bearing points used with Twin-Path® Extra Slings.

Japanese Patent No. 2929431	US Patent Nos. 7,661,737 and 5,651,572	Canadian Patent No. 2,195,393
EP Nos. 07851663 and 1,899,255		Australian Patent No. 707924



Special Purpose Slings

DRUM HANDLING SLINGS

BOTTOM SUPPORT

Lift-It[®] Bottom Support Drum Slings handle both metal and non-metallic drums, as well as drums that cannot be transported at a minimum height.

Bottom Support Drum Slings feature a top bridle assembly and a bottom support. The top bridle assembly includes a (1"Diameter) Masterlink with Subassemblies and is permanently attached to the circumferential tightening bands. Stable control and secure handling are achieved by connecting the top bridle assembly to the bottom support at four points around the drum perimeter.

Bottom Support Drum Slings are designed for handling 55 gallon drums (22 inch dia. X 34 inch tall). Custom Drum Slings are also readily available.

WARNING

Extra consideration should be given when handling partially filled drums to ensure load control.



STOCK NUMBER	WORK LOAD LIMIT (LBS.)
DS-BS	2000

STANDARD & ADJUSTABLE

Lift-It[®] Nylon Drum Handling Slings are designed for the efficient handling of 55 gallon, metal drums with ribs. Drum Slings can be used on open drums or drums fitted with spigots or pumps.

Drum Handling Slings feature a 2-inch lift bridle and circumferential tightening band. The lift bridle features a Masterlink (1/2 In. Diameter) and is permanently attached to the tightening band, eliminating the need to position the bridle legs. The tightening band securely grips the drum below the first rib.



The circumferential tightening band is leather lined. Bridle legs feature sleeves.

WARNING During use, keep drum handling elevation to a minimum. Extra consideration should be given when handling partially filled drums to ensure load control and safety.

SLING BAND WIDTH	STOCK NUMBER	WORK LOAD LIMIT (Lbs.)		
2 IN.	DS1-602	850		
2 IN.	DS1-602 ADJ*	850		

*DS1-602 ADJ, Adjustable Drum Slings handle drums of varying diameters. The DS1-602 ADJ has the same constructional features as the standard DS1-602 model, except only one bridle leg is attached to the circumferential tightening band. The unattached bridle leg must be positioned directly across from the attached leg. The leather wear pad attached to the tightening band for standard models is omitted on adjustable models to allow the band to pass through the ratchet buckle for smaller drum diameters.

WEB TOW STRAPS

Lift-It[®] Web Tow Straps are manufactured from treated, nylon webbing. Strap eye bearing points are tapered and wrapped. Available in four standard models, custom straps are readily available. You must specify Tow Strap length.

Lift-It® will not fabricate Tow Straps with attached metal end fittings or components.



WEB TOW STRAP SPECIFICATIONS							
STOCK	WORK	LOAD LIMIT	'S (Lbs.)*				
NUMBER	Chocker Vertical		90° Basket				
TS1-902	2,500	3,200	6,400				
TS2-902	5,000	6,400	12,800				
TS2-904	9,000	11,400	22,800				
TS2-906	13,000	17,000	34,000				
* Work Load	Limits only	apply to ne	w and				

unused Web Tow Straps.

Never use tow straps for lifting.



TS2-902

WARNING

TS2-904

Never use Tow Straps for pulling against stuck, snagged or restrained objects IF LOADING CONDITIONS ARE UNKNOWN. Load measuring devices and/or methods must always be used to ensure that OVERLOADING DOES NOT OCCUR. Overloaded Tow Straps and Components may fail and the unplanned release of tension and/or deadly recoil and/or impact recoil force can cause INJURY or DEATH.

www.lift-it.com

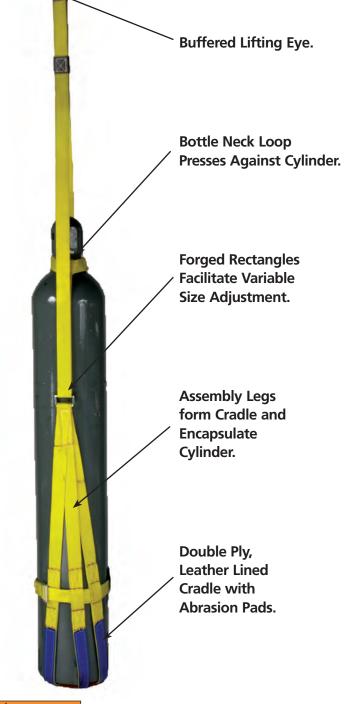
Special Purpose Slings



GAS CYLINDER CRADLES

Lift-It[®] Gas Cylinder Cradles are made from polyester webbing and rated for a 1,000 Lbs. Work Load Limit. The cylinder base rests securely in a double ply, leather lined, nylon cradle while the bottle neck loop presses against the cylinder neck, securely holding the cylinder. A tightening band secures the cylinder to the assembly legs making transportation easy and efficient.

CG 10A adjusts to accommodate 9 to 20 inch (Diameter) by 40 to 65 inch (High) T, K and S cylinders. CG 20A adjusts and conveniently handles oxygen and acetylene cylinders in tandem.



WARNING Do not directly expose Gas Cylinder Cradles to weld spatter, sparks and/or sources of heat damage. Protective measures must be taken.



		DIMENSIONAL INFORMATION		
STOCK NUMBER	DESCRIPTION	DIAMETER	CYLINDER HEIGHT	
CG 10A	SINGLE OXYGEN	9" to 20"	40" - 56"	
CG 20A	DOUBLE	9" OXYGEN	46" - 54"	
	OXYGEN OR ACETYLENE	13" ACETYLENE	38" - 46"	
CG 30A	SINGLE AMMONIA	13" to 16"	40" - 54"	

Custom Cylinder Cradles are readily available. Please provide the following dimensions:

- A) Cylinder Diameter.
- B) Base to Shoulder.
- C) Neck Diameter.
- D) Shoulder to Lifting Eye. (Headroom)

S

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В





Adjustable Rope Slings replace multiple, "non-adjustable" slings by accommodating a range of dimensional requirements with infinite adjustability.

Available in single, double and four leg configurations, standard Adjustable Rope Slings are made from single braid, twelve strand, polyester rope. The polyester rope is treated with a coating to extend Adjustable Rope Sling service life.

Adjustable Rope Slings fabricated from Vectrus rope provide higher Work Load Limits than standard, polyester rope slings. Vectrus is a single braid, high performance fiber rope, made of Liquid Crystal Polymer (LCP).

Adjustable Rope Slings are treated with a coating to enhance abrasion and UV degradation resistance.

Lift-It Adjustable Rope Slings feature protection in the lift point and connection eyes. Hooks, thimbles and other hardware can also be attached, by special request.

Adjustable Rope Slings are labeled with the information currently required by the various regulatory agencies. Custom lengths are available.

SINGLE LEG - ADJUSTABLE ROPE SLINGS										
ROPE	STOCK	POL	YESTER WLL	. (Lbs.)	ADJ. STOCK		VEC	TRUS WLL (LI	os.)	ADJUSTMENT
DIAMETER	NUMBER	CHOKER	VERTICAL	90° BASKET	RANGE	E NUMBER	CHOKER	VERTICAL	BASKET	RANGE
3/8 In.	Y-S-382048	800	1,000	2,000	20-48″	V-S-383460	1,600	2,000	4,000	34" - 60"
1/2 In.	Y-S-122860	1,700	2,200	4,400	28-60"	V-S-124372	2,400	3,000	6,000	43" - 72"
5/8 In.	Y-S-583660	2,560	3,200	6,400	36-60"	V-S-5865108	4,800	6,000	12,000	65" - 108"
3/4 In.	Y-S-343872	3,380	4,200	8,400	38-72″	V-S-3475108	6,000	7,500	15,000	75" - 108"
7/8 ln.	Y-S-784696	4,800	6,000	12,000	46-96"	V-S-7887120	8,000	10,000	20,000	87" - 120"
1 ln.	Y-S-10054120	6,000	7,500	15,000	54"-120"					

ADJUSTABLE ROPE SLING SPECIFICATIONS

A WARNING Abrasion protection will not prevent damage from cutting.

	DOUBLE LEG - ADJUSTABLE ROPE SLINGS									
ROPE	STOCK	POLYESTER	WLL (Lbs.)	ADJ.	STOCK	VECTRUS WLL (Lbs.)		ADJUSTMENT		
DIAMETER	NUMBER	60 DEG.	45 DEG.	RANGE	E NUMBER	60 DEG.	45 DEG.	RANGE		
3/8 In.	Y-D-382460	1,700	1,400	24-60"	V-D-383060	3,400	2,800	30" - 60"		
1/2 In.	Y-D-123260	3,400	2,800	32-60"	V-D-1243672	5,100	4,200	36" - 72"		
5/8 In.	Y-D-583860	5,100	4,200	38-60"	V-D-5857108	10,000	8,400	57" - 108"		
3/4 In.	Y-D-344672	6,900	5,600	46-72″	V-D-3467108	12,900	10,600	67" - 108"		
7/8 In.	Y-D-785296	10,300	8,400	52-96"	V-D-7876120	17,000	14,100	76" - 120"		
1 in	Y-D-10060120	12,100	9,800	60"-120"						

Adjustable Rope Slings



Lift-It[®] Four Leg Adjustable Rope Slings feature a Top Lifting Link. Depending upon your selection, based on Work Load, you must determine whether a Masterlink or Masterlink with Subassemblies makes the most sense from a use and weight perspective.

Lift-It[®] Adjustable Rope Slings with Top Lifting Links feature hardware that is substantially larger than that offered by other manufacturers. We take into account not only the strength requirements, but the spatial relationship between sling attachment points and interfacing hardware.

Lift-It[®] Bridle Assembly capacities are lower than our competitors. Four Leg Bridle Assembly capacities are based on three legs for the assigned capacity.

Lower capacities and more expensive, larger hardware will never allow us to be the successful, low bidder. Our conservative approach is respected by conscientious users and appreciated by sophisticated purchasers. In this instance, spending more for less provides for improved safety and longer sling service.

If a Lift-It[®] 4 leg Adjustable Rope bridle assembly includes a Masterlink or Masterlink with subassemblies, lifts can be made with any two or three legs of the four legs. If three legs are used, the assembly capacity must be reduced by 33% and is the same capacity as a two leg (double) bridle assembly.

ADJUSTABLE ROPE SLING	SPECIFICATIONS
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	POLYESTER FOUR LEG - ADJUSTABLE ROPE SLINGS WITH TOP LINK								
ROPE	STOCK WORK LOAD LIMIT (Lbs.)) LIMIT (Lbs.)	ADJ. MASTE		RLINK	MASTERLINK W/SUBS ASSYS.		
DIAMETER	NUMBER	60 DEG.	45 DEG.	RANGE	DIAMETER	WEIGHT	DIAMETER	WEIGHT	
3/8 In.	Y-Q-382460TL	2,500	2,100	24"- 60"	5/8″	9.6 Lbs.	5/8″	2.9 Lbs.	
1/2 ln.	Y-Q-123260TL	5,000	4,200	32"- 60"	7/8″	16 Lbs.	1″	9.9 Lbs.	
5/8 ln.	Y-Q-583884TL	7,700	6,300	38"- 84"	1-1/4″	25 Lbs.	1″	9.9 Lbs.	
3/4 In.	Y-Q-344684TL	10,300	8,400	46"- 84"	1-1/2″	55 Lbs.	1-1/4″	20 Lbs.	
7/8 ln.	Y-Q-785296TL	15,500	12,700	52"- 96"	1-1/2″	75 Lbs.	1-3/4″	44 Lbs.	
1 ln.	Y-Q-10060120TL	18,100	14,800	60"-120"	1-3/4″	100 Lbs.	2″	71 Lbs.	

VECTRUS FOUR LEG - ADJUSTABLE ROPE SLINGS WITH TOP LINK								
ROPE	STOCK	WORK LOAD	WORK LOAD LIMIT (Lbs.) ADJ.		MASTERLINK		MASTERLINK W/SUBS ASSYS.	
DIAMETER	NUMBER	60 DEG.	45 DEG.	RANGE	DIAMETER	WEIGHT	DIAMETER	WEIGHT
3/8 In.	V-Q-383460TL	5,100	4,200	34"- 60"	3/4″	9.6 Lbs.	1″	9.9 Lbs.
1/2 In.	V-Q-124372TL	7,700	6,300	43"- 72"	7/8″	16 Lbs.	1″	9.9 Lbs.
5/8 In.	V-Q-5865108TL	15,500	12,700	65"- 108"	1-1/4″	25 Lbs.	1-1/2″	26.5 Lbs.
3/4 In.	V-Q-3475108TL	19,400	15,900	75"- 108"	1-1/2″	55 Lbs.	1-3/4″	44 Lbs.
7/8 ln.	V-Q-7887120TL	25,980	21,200	87"- 120"	1-1/2″	75 Lbs.	2″	71 Lbs.

WARNING

Work Load Limits for Multi-Leg Bridle Assemblies are based on the following conditions:

- 1. Even load weight distribution on all legs.
- 2. Bridle legs being same length. If the legs are not sharing the load equally, the assembly design factor is reduced.
- 3. All bridle legs used at the same horizontal angle.
- 4. All bridle legs attached at the same level.

If the conditions of the lift vary from those above, Work Load Limits must be recalculated. **WARNING** You must be properly trained and it is your responsibility to consider all risk factors prior to load handling activities. Do not use slings and/or rigging until you are absolutely sure of what your are doing.

WARNING







WEB CARGO NETS

Web Cargo Nets are considerably more flexible, lightweight and compact than wire or synthetic rope nets. Military Specification Cargo Nets are manufactured to Department of Defense specification MIL-S-18313G and have a mesh opening size of approximately 6.25 x 6.25 inches. Commercially produced Cargo Nets and custom nets are also readily available.

Cargo Nets must be square to function properly. Rectangular nets used for cargo handling will not properly encapsulate and/or distribute the load over the vertical and horizontal strength members within the net body.

Size Ft. x Ft.	Military Stock No.	Commercial Stock No.	Unit Weight (Lbs.)
4 x 4	CN4500-4-MIL	CN4500-4	14
6 x 6	CN4500-6-MIL	CN4500-6	17
8 x 8	CN4500-8-MIL	CN4500-8	22
10 x 10	CN4500-10-MIL	CN4500-10	30
12 x 12	CN4500-12-MIL	CN4500-12	40
14 x 14	CN4500-14-MIL	CN4500-14	48
16 x 16	CN4500-16-MIL	CN4500-16	57
18 x 18	CN4500-18-MIL	CN4500-18	73
20 x 20	CN4500-20-MIL	CN4500-20	88



*Work Load based upon a 5 to 1 Design Factor.

CN4500-18-MIL	CN4500-18	73	ТҮРЕ	WORK LOAD	CLASS	FINISH
CN4500-20-MIL	CN4500-20	88	I	4500 Lbs.*	А	ANTI-STATIC

ROPE CARGO NETS



Stock No. RN6000-12

- Working Load Limit 6,000 Lbs.
- Square, 12 ft. x 12 ft.
- Material Polypropylene

Stock No. RN4000-20

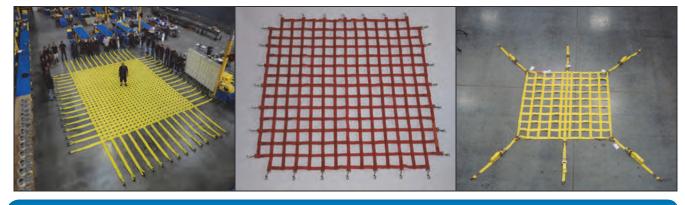
- Working Load Limit 4,000 Lbs.
- Square, 20 ft. x 20 ft.
- Material Polypropylene

Stock No. RN300-CBR-12

- Working Load Limit 300 Lbs.
- Round, 12 ft. x 12 ft.
- Material: Polypropylene / Nylon
- Cinching Border Rope encapsulates load.



CUSTOM NETS



909.469.2251

www.lift-it.com

Specialty Products



FOR THE WIND INDUSTRY

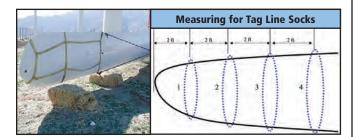
Lift-It[®] product specialists worked with the pioneers of the American wind industry to develop sling handling systems to replace heavy and damage inflicting, chain slings. Initially, our Synthetic Sling System was used in the manufacturing of wind turbines. High Performance Fiber, Twin-Path[®] Slings are now used extensively for field installation and maintenance operations. Level, non-damaging handling is achieved through precision sling lengths. Sling longevity is enhanced by special sling protection at the connection points. These factors, combined with stellar service have made the Lift-It[®] Synthetic Sling System the standard for the industry. Whether you are handling a 60 or 300 ton nacelle, we have a Synthetic Sling System for your application. Complete Handling Systems are readily available. Existing beams can be modified for use with the Lift-It[®] Synthetic Sling System.





BLADE TAG LINE SOCKS

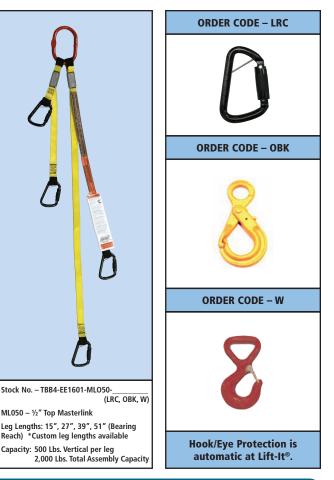
Lift-It[®] Blade Tag Line Socks were developed to replace expensive, European Tag Line Socks. Lift-It[®] Tag Line Socks facilitate handling and manipulation, with structural integrity, positive attachment points and no seams to rupture. Work Load Limit- 1,000 lbs.



TAG LINE SOCK SPECIFICATIONS							
STOCK NUMBER	TURBINE MFG.	BLADE DETAILS					
WPWB-2	GE	TECSIS 37C					
WPWB-3	GE	LM34-P3					
WPWB-4	GE	V47-77M					
WPWB-9	GE	LM40-3P					
WPWB-12	GE	FLUGEL-34M					
WPWB-13	GE	34C					
WPWB-16	GE	LM37.3P2-0164					
WPWB-17	GE	XLE					
WPWB-18	GE	TECSIS C96					
WPWB-20	GE	TPI-20050-40M					
WPWB-21	GE	34A					
WPWB-24	GE	LM40					
WPWB-22	DEWIND						
WPWB-449	SUZLON	V2 Tailing Crane					
WPWB-495	SUZLON	V3 Tailing Crane					
WPWB-448	SUZLON	V2 & V3 Tag Line					
LMC100355-721	SIEMENS						
N30-881-0227 r2	MITSUBISHI						

TOOL BAG BRIDLES

Tool Bag Bridles were developed specially to meet the needs of the wind power industry. Lift-It[®] Tool Bag Bridles feature a Masterlink and can be provided with Load Rated Carabiners, Locking or standard Web Hooks with latches as the bottom connectors.





Tag Lines



D/T Composite is a double braided rope with the inner core made of Plasma® and the outer sleeve of polyester. D/T Composite has very low elongation, high strength and the feel and handling of polyester double braid. It is identified with three external black markers.

D/T Composite is provided with a standard overlay marine finish and is available on special order with a spliceable polyurethane finish in a limited number of colors.

Nominal Diameter (Inches)	Approximate Weight (Lbs/100 ft.)	Tensile Strength Spliced (Lbs)	Tensile Strength Unspliced (Lbs)
1/2	8.30	20,925	23,300
5/8	12.50	36,900	41,000
3/4	15.90	47,250	52,500
7/8	24.90	67,200	74,700
1	30.80	77,400	86,000
1-1/8	36.80	98,250	109,200
1-1/4	42.60	109,050	121,200

Technical Information

Specific gravity 1.20* Melting point 284°F (140°C) 150°F (65°C) Critical temp. Coefficient of friction 0.12 - 0.15* Elongation at break 6% - 8% Fiber water absorption 0 - 1%

Features & Benefits

- High strength
- Low stretch
- Soft hand
- Torque free
- Easy splicing

Polyester Double Braid



Polyester Double Braid provides an excellent combination of high strength, low stretch and easy handling. Polyester Double Braid is identified with one external black marker. Polyester Double Braid is provided with a standard overlay marine finish.

Nominal Diameter (Inches)	Approximate Weight (Lbs/100 ft.)	Tensile Strength Spliced (Lbs)	Tensile Strength Unspliced (Lbs)
1/2	8.60	8,400	9,300
5/8	13.10	12,300	13,700
3/4	18.80	17,400	19,300
7/8	25.60	24,000	26,700
1	33.50	31,200	34,700
1-1/8	42.40	39,500	43,900
1-1/4	52.30	48,100	53,400

Technical Information

Specific gravity 1.38 Melting point Critical temp. Coefficient of friction Elongation at break Fiber water absorption 12% - 20%

Features & Benefits • Low stretch 482°F (250°C) • High strength 350°F (177°C) • Soft hand 0.12 - 0.15• Torque free 15% - 20%

Plasma[®] (12 Strand)



Plasma®12 strand is one of the highest strength synthetic ropes available. Plasma® 12 strand is manufactured from High Modulus Polyethylene (HMPE) that has been enhanced by Cortland's patented recrystallization process. This process is especially effective in medium to large diameter ropes where strengths are over 50% higher and creep is significantly less than that of a standard Spectra® 12 strand rope.

Plasma® 12 strand is provided with a standard polyurethane finish.

Nominal Diameter (Inches)	Approximate Weight (Lbs/100 ft.)	Tensile Strength Spliced (Lbs)	Tensile Strength Unspliced (Lbs)
1/2	6.40	31,300	34,800
5/8	10.60	51,400	57,100
3/4	13.30	68,500	76,300
7/8	19.60	92,600	102,900
1	23.40	110,000	122,100
1-1/8	31.90	147,000	163,300
1-1/4	36.20	165,000	183,100

.98*

Technical Information

Specific gravity	.98*
Melting point	284
Critical temp.	150
Coefficient of friction	0.09
Elongation at break	4%
Fiber water absorption	0%

Features & Benefits

- Highest strength
- Lowest stretch
- Low creep
- Soft hand
- Torque-free
- Easy splicing
- Floats

Spectra[®] (12 Strand)

284°F (140°C)

150°F (65°C)

0.09-0.12*

4% - 5%



Spectra® 12 strand provides high strength, low stretch and abrasion resistance in a single braid construction. Spectra® rope is more than 3 times as strong as polyester and has less than one half of the elongation. Polyurethane finish for Spectra® rope is standard.

Nominal Diameter (Inches)	Approximate Weight (Lbs/100 ft.)	Tensile Strength Spliced (Lbs)	Tensile Strength Unspliced (Lbs)
1/2	6.40	22,500	25,000
5/8	10.60	36,600	40,700
3/4	13.30	43,200	48,000
7/8	19.60	61,000	67,800
1	23.40	72,000	80,000
1-1/8	31.90	91,800	102,000
1-1/4	36.20	102,600	114,000

Technical Information

.98 Specific gravity 284°F (140°C) Melting point Critical temp. 150°F (65°C) Coefficient of friction 0.09 - 0.12Elongation at break 6% - 8% Fiber water absorption 0%

Features & Benefits

- Very low stretch
- Very high strength
- Low creep
- Soft hand
- Torque-free
- Easy splicing
- Floats

Tag Lines



Taglines are used to prevent load rotation and collision with other objects. The most important purpose they serve is to place personnel away from the load.

Lift-It fabrication and safety professionals have taken the same serious attitude and attention to detail in tagline manufacturing and usage as is taken with all products we make and/or distribute.

Do not wrap the tag line around any body part.

To maximize the effect and benefit, attach the tagline as far as possible from the Center of Gravity. Use the "leverage" principle to your advantage.

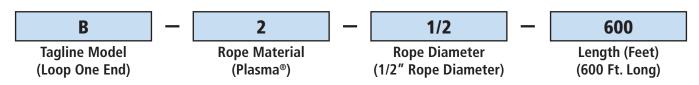
Beware of "leading" the load with taglines. The inherent dangers of walking backwards and the inability to control unplanned load movement are serious safety concerns.

Always wear gloves and be prepared to drop the tag line and run!





HOW TO ORDER



1) Select Tagline Model

- A. Plain both ends
- B. Loop one end
- C. Loop both ends

2) Select Rope Material

- 1. DT Composite
- 2. Plasma®
- 3. Polyester Double Braid
- 4. Spectra®

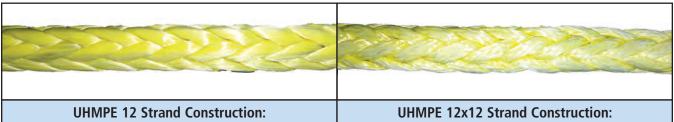
3) Specify Rope Diameter in inches.

4) Specify Length in feet.

Common spool sizes are generally 600 or 1200 ft. in length. Other lengths are also available.



UHMPE Plasma[®] Rope Slings - Eye & Eye



Less Than 1-1/2" Diameter

When compared to wire rope slings, Lift-It® UHMPE Rope Slings utilizing Cortland's Plasma® technology have:

• Superior strength-to-weight ratio.

- Excellent bending fatique.
- Similar elongation properties.
- Will not sink, UHMPE slings float!
- 1/7 the weight of wire rope slings.
- Do not corrode or require lubrication.
- Easy to inspect.

UHMPE Rope is treated to provide protection against abrasion and UV light degradation.

1-5/8" Diameter & Larger

UHMPE Rope Slings have advantages and limitations. Small sling diameters combined with great strength ratings are real advantages.

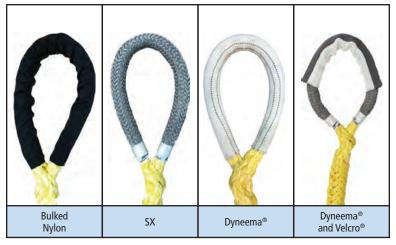


WARNING Do not use Lift-It **UHMPE** Rope Slings



WARNING Do not use Lift-It[®] UHMPE Rope Slings in contact with objects or at temperatures above 140°(F) or below -40°(F).

EYE SLEEVES



Bulked Nylon (Cordura®) Eye Sleeves are provided at no additional charge in all sling eyes.

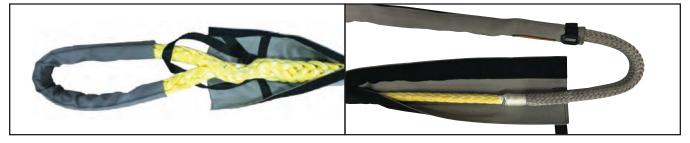
Abrasion resistant covers provide no protection against cutting.

SX Eye Sleeves are provided for an additional charge and combine the light weight and non-absorbing UHMPE properties into a braided sleeve.

Dyneema® Eye Sleeves are available for an additional charge and are more cut resistant than Cordura® and/or SX Eye Sleeves.

BODY COVERS

Body covers are provided for an additional charge and may prevent abrasion damage and the penetration of dirt and debris into the rope fibers. Velcro® closure enables easy installation and removal, streamlining sling inspection. Body Covers are captivated at each sling end by Retainer Straps which prevent the cover from shifting.

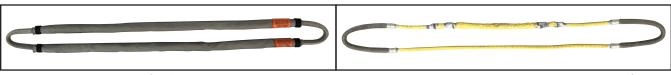


UHMPE Plasma® Eye & Eye Rope Sling Specifications

]				
Rope Diameter (Inches)	Rope Diameter (mm)	Stock Number	Vertical	Basket @ 90	Minimum Length Weight (Lbs.)	Adder / Ft. Weight (Lbs.)	Bearing (Feet-Inches)
1/4″	6 mm	EE-UHMPE-1/4	1,600	3,200	0.1	0.02	2'-2"
5/16"	8 mm	EE-UHMPE-5/16	2,300	4,600	0.2	0.03	2'-10"
3/8″	9 mm	EE-UHMPE-3/8	3,500	7,000	0.2	0.04	3'-4"
7/16″	11 mm	EE-UHMPE-7/16	4,200	8,400	0.2	0.04	3'-10"
1/2″	12 mm	EE-UHMPE-1/2	6,200	12,400	0.5	0.06	4'-5"
9/16"	14 mm	EE-UHMPE-9/16	7,500	15,000	0.6	0.08	5′
5/8″	16 mm	EE-UHMPE-5/8	10,200	20,400	1.1	0.11	5'-7"
3/4″	18 mm	EE-UHMPE-3/4	13,700	27,400	1.4	0.13	6'-7″
13/16″	20 mm	EE-UHMPE-13/16	14,800	29,600	2.1	0.16	7'-2″
7/8″	22 mm	EE-UHMPE-7/8	18,500	37,000	2.8	0.20	7'-10″
1″	24 mm	EE-UHMPE-1	22,000	44,000	3.5	0.23	8'-10"
1-1/16″	26 mm	EE-UHMPE-1-1/16	25,800	51,600	4.2	0.28	9′-5″
1-1/8″	28 mm	EE-UHMPE-1-1/8	29,400	58,800	5.1	0.32	10'-1"
1-1/4″	30 mm	EE-UHMPE-1-1/4	33,000	66,000	6.8	0.36	11′
1-5/16"	32 mm	EE-UHMPE-1-5/16	39,200	78,400	8.4	0.42	11'-7″
1-1/2″	36 mm	EE-UHMPE-1-1/2	44,200	88,400	11.4	0.52	13'-2″
1-5/8″	40 mm	EE-UHMPE-1-5/8	58,000	116,000	15.8	0.66	14'-6″
1-3/4″	44 mm	EE-UHMPE-1-3/4	62,000	124,000	20.3	0.78	15'-8"
2″	48 mm	EE-UHMPE-2	71,000	142,000	26.4	0.91	17'-7″
2-1/8″	52 mm	EE-UHMPE-2-1/8	85,000	170,000	33.8	1.1	18'-11"
2-1/4″	56 mm	EE-UHMPE-2-1/4	96,000	192,000	40.3	1.2	20'-1"
2-1/2″	60 mm	EE-UHMPE-2-1/2	106,000	212,000	54.8	1.5	22'-1"
2-5/8″	64 mm	EE-UHMPE-2-5/8	119,000	238,000	71.8	1.7	23'-4"
2-3/4″	68 mm	EE-UHMPE-2-3/4	132,000	264,000	91.6	1.9	24'-6"
3″	72 mm	EE-UHMPE-3	156,000	312,000	119.8	2.1	26'-6"
3-1/8″	76 mm	EE-UHMPE-3-1/8	170,000	340,000		2.4	27'-8″
3-1/4″	80 mm	EE-UHMPE-3-1/4	188,000	376,000		2.6	28'-11"
3-1/2″	84 mm	EE-UHMPE-3-1/2	221,000	442,000	4	3.0	30'-11″
3-5/8″	88 mm	EE-UHMPE-3-5/8	250,000	500,000	4	3.2	32'-1"
3-3/4″	92 mm	EE-UHMPE-3-3/4	263,000	526,000		3.4	33'-4"
4″	96 mm	EE-UHMPE-4	304,000	608,000		3.9	35'-4"
4-1/8″	100 mm	EE-UHMPE-4-1/8	324,000	648,000		4.6	36'-6"
4-1/4″	104 mm	EE-UHMPE-4-1/4	339,000	678,000		5.1	37'-10"
4-1/2″	108 mm	EE-UHMPE-4-1/2	365,000	730,000		5.3	39'-8″
4-5/8″	112 mm	EE-UHMPE-4-5/8	376,000	752,000		5.5	40'-11"
4-3/4″	116 mm	EE-UHMPE-4-3/4	385,000	770,000	4	5.9	42'-2"
5″	120 mm	EE-UHMPE-5	413,000	826,000		6.1	44'-1"
5-1/8″	124 mm	EE-UHMPE-5-1/8	442,000	884,000	4	6.6	45'-5"
5-1/4"	128 mm	EE-UHMPE-5-1/4	471,000	942,000	4	7.0	46'-7"
5-1/2"	132 mm	EE-UHMPE-5-1/2	499,000	998,000	4	7.5	48'-6"
5-5/8"	136 mm	EE-UHMPE-5-5/8	528,000	1,056,000	-	8.1	49'-10"
5-3/4"	140 mm	EE-UHMPE-5-3/4	556,000	1,112,000	4	8.7	51'-0"
6"	144 mm	EE-UHMPE-6	585,000	1,170,000	4 -	9.3	52'-11"
6-1/8"	148 mm	EE-UHMPE-6-1/8	613,000	1,226,000	4	9.9	54'-2"
6-1/4"	152 mm	EE-UHMPE-6-1/4	640,000	1,280,000	-	10.4	55'-5"
6-1/2"	156 mm	EE-UHMPE-6-1/2	670,000	1,340,000	4 -	11.0	57'-5"
6-5/8"	160 mm	EE-UHMPE-6-5/8	690,000	1,380,000	4 -	11.6	58'-7"
6-3/4"	164 mm	EE-UHMPE-6-3/4	720,000	1,440,000	4	12.3	59'-10"
7"	168 mm	EE-UHMPE-7	750,000	1,500,000		12.8	61'-10"
7-1/8"	172 mm	EE-UHMPE-7-1/8	790,000	1,580,000	4	13.3	63'-0"
7-1/4"	176 mm	EE-UHMPE-7-1/4	810,000	1,620,000	4 -	13.9	64'-2"
7-1/2"	180 mm	EE-UHMPE-7-1/2	840,000	1,680,000	4 -	14.5	66'-2"
7-5/8"	184 mm	EE-UHMPE-7-5/8	870,000	1,740,000		15.3	67'-5"
7-3/4"	188 mm	EE-UHMPE-7-3/4	890,000	1,780,000	4	15.9	68'-7"
8"	192 mm	EE-UHMPE-8	920,000	1,840,000	4	16.5	70'-7"
8-1/8"	196 mm	EE-UHMPE-8-1/8	950,000	1,900,000	4 -	17.3	71'-10"
8-1/4″	200 mm	EE-UHMPE-8-1/4	980,000	1,960,000		18.0	73'-1"

WARNING See Important Safety and Use Information.

UHMPE Plasma[®] Endless Rope Slings



Super strong, ultra-light Lift-It[®] UHMPE Rope Slings have similar elongation properties but are 1/7 the weight of heavy, cumbersome wire rope slings. UHMPE Rope Slings also offer the advantages of flexibility as well as the absence of lubricants and corrosion when compared to wire rope slings. Unlike wire rope slings, UHMPE Rope Slings are neutrally buoyant for ease of handling in diving, salvage, maintenance and marine construction activities for oil, gas and alternative energy companies.

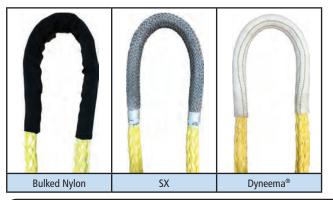
- Lift-It[®] UHMPE Rope Slings do not absorb water and sling capacity is not reduced while wet.
- UHMPE Rope Slings are easy to inspect when compared to rigid wire rope slings and roundslings.
- External and internal wear is more readily identifiable with 12 x 12 braided strand UHMPE Rope Slings.
- UHMPE Rope Slings have recommended usage diameters that have been validated through destruction testing.

CONNECTION POINT SLEEVES	UHMPE ENDLESS ROPE SLINGS - FIXED EYE
Bulked Nylon (Cordura [®]) Connection Point Sleeves are automatically supplied on Lift-It [®] UHMPE Rope Slings.	Lift-It [®] UHMPE Endless Rope Slings can be fabricated into a Fixed Eye configuration where the two endless body members

SX and Dyneema[®] Sleeves are available on request for an additional charge.

TEET

Dynemma[®] Connection Point Sleeves utilizing Velcro[®] closure are also available enabling the user to add Connectin Point Sleeves at any time.



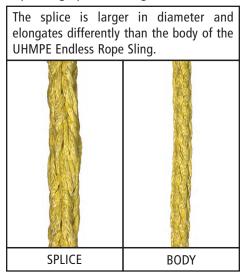
Lift-It[®] UHMPE Endless Rope Slings can be fabricated into a Fixed Eye configuration where the two endless body members are set and secured beside each other. In this configuration, sling users have the convenience of a unitized sling body but are unable to rotate the sling connection points.

Unless otherwise specified, Endless Slings will be supplied. To order the Fixed Eye configuration, "FE" must be added after "EN" to the stock number. Example: EN-FE-UHMPE-2.



UHMPE ENDLESS ROPE SPLICE PLACEMENT

Depending upon the length of Lift-It[®] UHMPE Endless Rope Sling, you may have a choice where to place the splice.





If possible, place the splice over the lift or connection point to allow for equalized elongation in the UHMPE Endless Rope Sling body members.



UHMPE Plasma® Endless Rope Sling Specifications



			Working Load	d Limits (Lbs.)	1		
			Vertical	Basket @ 90			
Rope Diameter (Inches)	Rope Diameter (mm)	Stock Number	0	U	Minimum Length Weight (Lbs.)	Adder / Ft. Weight (Lbs.)	Bearing (Feet-Inches)
1/4″	6 mm	EN-UHMPE-1/4	2,376	4,752	0.1	0.04	1'-4"
5/16"	8 mm	EN-UHMPE-5/16	3,415	6,830	0.18	0.06	1'-8″
3/8″	9 mm	EN-UHMPE-3/8	5,197	10,394	0.28	0.08	2'
7/16″	11 mm	EN-UHMPE-7/16	6,237	12,474	0.36	0.08	2'-4"
1/2″	12 mm	EN-UHMPE-1/2	9,207	18,414	0.6	0.12	2'-8"
9/16″	14 mm	EN-UHMPE-9/16	11,137	22,274	0.88	0.16	3'
5/8″	16 mm	EN-UHMPE-5/8	15,147	30,294	1.32	0.22	3'-4"
3/4″	18 mm	EN-UHMPE-3/4	20,344	40,688	1.82	0.26	4'
13/16″	20 mm	EN-UHMPE-13/16	21,978	43,956	2.56	0.32	4'-5"
7/8″	22 mm	EN-UHMPE-7/8	27,472	54,944	3.6	0.4	4'-8"
1"	24 mm	EN-UHMPE-1	32,670	65,340	4.37	0.46	5'-5"
1-1/16"	26 mm	EN-UHMPE-1-1/16	38,313	76,626	5.6	0.56	5'-8" 6'
1-1/8"	28 mm	EN-UHMPE-1-1/8 EN-UHMPE-1-1/4	43,659	87,318	6.72 9	0.64	6'-8"
1-1/4″ 1-5/16″	30 mm 32 mm	EN-UHMPE-1-1/4 EN-UHMPE-1-5/16	49,005 58,212	98,010	9 10.92	0.72	8" 7'
		EN-UHMPE-1-5/16 EN-UHMPE-1-1/2	65,637	116,424	10.92	1.04	8'
1-1/2" 1-5/8"	36 mm 40 mm	EN-UHMPE-1-1/2 EN-UHMPE-1-5/8	86.130	131,274 172,260	14.56	1.04	8' 8'-8"
1-3/4″	40 mm	EN-UHMPE-1-3/4	92,070	184,140	25.74	1.56	9'-5"
2″	44 mm	EN-UHMPE-2	105,435	210,870	32.76	1.82	10'-8"
2-1/8″	52 mm	EN-UHMPE-2-1/8	126,225	252,450	42.51	2.18	11'-5"
2-1/4"	56 mm	EN-UHMPE-2-1/4	142,560	285,120	50.02	2.44	12'
2-1/2"	60 mm	EN-UHMPE-2-1/2	157,410	314,820	69.56	2.96	13'-5"
2-5/8″	64 mm	EN-UHMPE-2-5/8	176,715	353,430	93.52	3.34	14'-1"
2-3/4″	68 mm	EN-UHMPE-2-3/4	196,020	392,040	123.42	3.74	14'-8"
3″	72 mm	EN-UHMPE-3	231,660	463,320	162.64	4.28	16'-1"
3-1/8″	76 mm	EN-UHMPE-3-1/8	252,450	504,900			16'-8"
3-1/4″	80 mm	EN-UHMPE-3-1/4	279,180	558,360	1		17'-5″
3-1/2″	84 mm	EN-UHMPE-3-1/2	328,185	656,370	1		18'-8"
3-5/8″	88 mm	EN-UHMPE-3-5/8	371,250	742,500	1		19'-5″
3-3/4″	92 mm	EN-UHMPE-3-3/4	390,555	781,110]		20'-1"
4″	96 mm	EN-UHMPE-4	451,440	902,880			21'-5″
4-1/8″	100 mm	EN-UHMPE-4-1/8	481,140	962,280			22'-1"
4-1/4″	104 mm	EN-UHMPE-4-1/4	503,415	1,006,830			22'-10"
4-1/2″	108 mm	EN-UHMPE-4-1/2	542,025	1,084,050			24'-1"
4-5/8″	112 mm	EN-UHMPE-4-5/8	558,360	1,116,720			24'-10"
4-3/4″	116 mm	EN-UHMPE-4-3/4	571,725	1,143,450	-		25'-5"
5″	120 mm	EN-UHMPE-5	613,305	1,226,610			26'-10"
5-1/8"	124 mm	EN-UHMPE-5-1/8	656,370	1,312,740	-		27'-5"
5-1/4"	128 mm	EN-UHMPE-5-1/4	699,435	1,398,870	-		28'-1"
5-1/2"	132 mm	EN-UHMPE-5-1/2	741,015	1,482,030			29'-5"
5-5/8"	136 mm	EN-UHMPE-5-5/8	784,080	1,568,160			30'-1"
5-3/4"	140 mm	EN-UHMPE-5-3/4	825,660	1,651,320			30'-10"
6″ 6-1/8″	144 mm	EN-UHMPE-6	868,725	1,737,450	-		32'-1" 32'-10"
6-1/4"	148 mm 152 mm	EN-UHMPE-6-1/8 EN-UHMPE-6-1/4	910,305 950,400	1,820,610 1,900,800			32-10
6-1/2"	152 mm	EN-UHMPE-6-1/2	950,400	1,989,900			33-0
6-5/8″	160 mm	EN-UHMPE-6-5/8	1,024,650	2,049,300			35'-6"
6-3/4"	164 mm	EN-UHMPE-6-3/4	1,069,200	2,138,400	1		36'-1"
7"	168 mm	EN-UHMPE-7	1,113,750	2,227,500			37'-6"
7-1/8″	172 mm	EN-UHMPE-7-1/8	1,173,150	2,346,300	1		38'-1"
7-1/4″	176 mm	EN-UHMPE-7-1/4	1,202,850	2,405,700	1		38'-10"
7-1/2″	180 mm	EN-UHMPE-7-1/2	1,247,400	2,494,800	1		40'-2"
7-5/8″	184 mm	EN-UHMPE-7-5/8	1,291,950	2,583,900			40'-10"
7-3/4″	188 mm	EN-UHMPE-7-3/4	1,321,650	2,643,300]		41'-6"
8″	192 mm	EN-UHMPE-8	1,366,200	2,732,400			42'-10"
					1		
8-1/8″	196 mm	EN-UHMPE-8-1/8	1,410,750	2,821,500			43'-6"

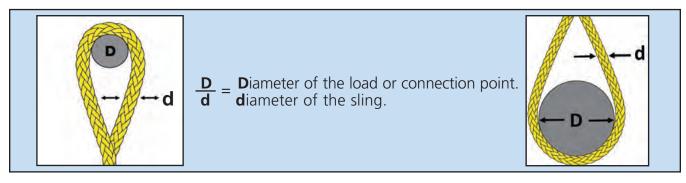
A WARNING See Important Safety and Use Information.



Effects of Contact Diameters

When using Lift-It[®] UHMPE Rope Slings, careful consideration must be given to the effect on sling strength from the relationship between the **D**iameter of the load and/or connection point and the **d**iameter of the UHMPE Rope Sling.

D/d ratio is defined as the ratio of the **D**iameter around which the sling is bent to the **d**iameter of the UHMPE Rope Sling.



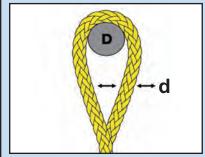
The D/d ratio has a significant effect on the rated capacity when either the UHMPE Rope Sling is placed over a connection point or wrapped around the load. Larger diameters result in greater sling strength, while smaller diameters decrease sling strength.

When D/d ratios used in the body of UHMPE Rope Slings and/or connection point(s) are less than those recommended, UHMPE Rope Sling capacities must be reduced.

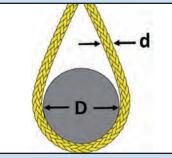
D/d ratio recommendations for UHMPE <u>Eye & Eye</u> Rope Slings are different than the D/d Ratio recommendations for UHMPE <u>Endless</u> Rope Slings.

D/d Ratio Recommendations for UHMPE Eye & Eye Rope Slings

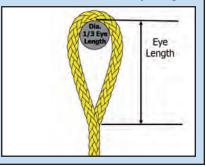
When D/d ratios in the eye are less than 3/1, Lift-It[®] UHMPE Eye & Eye Rope Sling capacity must be reduced.



When D/d ratios in the body are less than 8/1, Lift-It® UHMPE Eye & Eye Rope Sling capacity must be reduced.

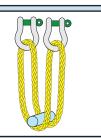


An object in the eye of the UHMPE Eye & Eye Rope Sling should not be wider than one-third the eye length.



D/d Ratio Recommendations for UHMPE Endless Rope Slings

D/d ratio recommendations must also be taken into consideration for UHMPE Endless Rope Slings when they are used in vertical and/or basket hitch configurations.



When D/d ratios used in the body and/or connection points are less than 8/1, Lift-It[®] UHMPE Endless Rope Sling capacity must be reduced.

UHMPE Plasma[®] Rope Slings



ANGLE OF LOADING

Load weight must always be determined and/or verified.

The rated capacity (work load limit) of the sling, rigging hardware and/or sling protection shall not be exceeded. Check tags and markings, to verify that slings, rigging hardware and/or sling protection are adequately rated for the load weight, the configuration of lift (hitch) and the Angle of Loading.

All slings, rigging hardware and sling protection used in load handling activities are dramatically affected by the Angle of Loading. The Angle of Loading is the angle between the sling leg and the plane perpendicular to the direction of the applied force. As an example, when a sling is used in a basket hitch, the tension on each "leg" of the sling increases as the Angle of Loading deviates from 90°. This principle applies whether one sling is used at an angle or if slings are used in basket hitches or in multi-leg bridle configurations.

Always take into account the Angle of Loading, which affects rated capacity and calculate changes in the rated capacity of slings, rigging hardware and/or sling protection when used in non-perpendicular vertical, basket or bridle hitches.

When the Angle of Loading between the sling leg and the plane perpendicular to the direction of the applied force is not exactly straight (90°), tension increases. The increased tension must be calculated and sling, rigging hardware and/or protection capacities must be evaluated for adequacy. Multiply the load weight (per leg) by the appropriate tension multiplier in Table 1 to determine the increased tension on the sling leg(s).

Table 1 provides information about calculating increased tension as a function of the Angle of Loading. Calculations apply if: the load is symmetrical, sling legs are equidistant from the center of gravity and are attached at the same level. If conditions are different, i.e., asymmetrical loads, attachment points at uneven levels, multi-leg sling and/or bridle lifts, tension calculations must be done by a Qualified Person* to prevent overloading. No leg shall be loaded beyond it's single-leg rating.

Angles of Loading less than 30° are not recommended for vertical, basket and/or bridle configurations unless approved by the sling manufacturer or Qualified Person*.

Consideration, calculation and evaluation may lead you to select higher capacity slings, rigging hardware and/or sling protection to compensate for the effects of the Angle of Loading.

INCREASED TENSION AS A FUNCTION OF THE ANGLE OF LOADING

Table 1 Direction of Multiply the load weight applied force Angle "A" (per leg) by the tension Tension in degrees Multiplier multiplier to determine from horizontal Angle of the increased tension on 90 1.000 Loading the sling leg(s). 1.004 85 80 1.015 Plane perpendicular to applied force 1.035 75 70 1.064 65 1 104 60 1.155 1.221 55 50 1.305 45 1.414 40 1.555 Direction 35 1.742 of applied Angle of Loading 30 2.000 force

WARNING DO NOT use UHMPE Rope Slings, rigging hardware, and/or sling protection until you are absolutely sure of what you are doing. Remember, failure to follow proper use, care and inspection criteria and/or the lack of skill, knowledge and care can result in severe INJURY or DEATH. UHMPE Rope Slings, rigging hardware and sling protection will fail if damaged, abused, misused, overloaded or improperly maintained resulting in INJURY or DEATH.

UHMPE Plasma[®] Rope Sling – Safety Information

PERSONNEL CONSIDERATIONS

WARNING Sling, rigging hardware and/or sling protection failure may result in INJURY or DEATH. Gravity ALWAYS works and when failure occurs, personnel under, on, near or next to load handling activities are in grave danger from falling objects. This area is sometimes referred to as the "fall zone". Personnel shall never stand or pass under a suspended load.

WARNING Personnel must not stand in line with or next to rigging under tension. Sling users must know and understand the potential danger from the unplanned release of tension and the deadly recoil and/or impact force that may result in INJURY or DEATH. This "danger zone" is sometimes referred to as "working in the bight" or the "strike zone".

WARNING Never use slings and/or rigging for pulling against stuck, snagged or restrained objects IF LOADING CANNOT BE DETERMINED. Load measuring devices and/or methods must be used to ensure that OVERLOADING DOES NOT OCCUR. Overloaded slings, rigging hardware and/or sling protection may fail and the unplanned release of tension and/or deadly recoil and/or impact force of slings, rigging hardware and/or sling protection can become deadly projectiles resulting in INJURY or DEATH.

Once load handling activities begin, sling users must never place any part of the body between the sling and the load and/or between the sling and shackle, hook and/or connection point.

Personnel shall never ride the sling or load.

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UHMPE Rope Slings shall never be used as suspended personnel platform bridles.

UHMPE Rope Slings must not be used for any fall prevention purpose. Only approved fall prevention products which are specifically rated and labeled for fall prevention shall be used for fall arrest and/or prevention.

SLING PROTECTION

UHMPE Rope Slings must always be protected from cutting, abrasion and other types of damage by materials of sufficient strength, thickness and construction. This mandatory requirement is stated in OSHA regulations, Cordage Institute and ASME standards, as well as in the Lift-It instructions and warnings.

- Always protect slings from ALL POTENTIALLY DAMAGING SURFACES and EDGES.
- There are two basic types of protection; protection used specifically for cut protection or other devices used for abrasion protection.
- Some abrasion protection materials like Bulked Nylon or Cordura[®] may be suitable for abrasion protection, but will not prevent damage from cutting.
- **A WARNING** ABRASION PROTECTION WILL NOT PREVENT DAMAGE FROM CUTTING.
- If protection against cutting is necessary, only use sling protection that has been designed, tested, rated and labeled by the manufacturer.
- "Cut proof" sling protection does not exist and sling protection MAY NOT prevent cutting or other damage especially if it is not used properly.
- A Qualified Person* must ensure the load is properly rigged and carefully evaluate and select appropriate sling protection for the application and potential type(s) of damage.
- A Qualified Person* must ensure that the sling protection is the correct type, capacity, shape and size to protect slings from damage.
- Sling protection and all components must be compatible with the sling.
- Sling protection must not interfere with slings closing to the full gripping position for secure load handling and control.

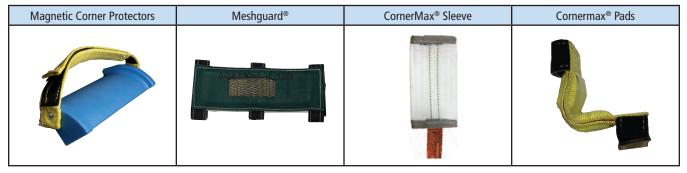
UHMPE Plasma[®] Rope Sling – Safety Information

• Sling protection should not be makeshift (i.e., cardboard, work gloves or other such items that were not designed to be used as protection).

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- As tension is being applied, before lifting, a Qualified Person* must ensure the sling/protection relationship is correct and the protection is properly placed to prevent damage to slings and/or sling protection.
- A Qualified Person* must evaluate protection for suitability. Several trial lifts may be necessary to ensure safe and proper use. Trial lifts must be done at a minimum height and in conditions that WILL NOT RESULT IN INJURY OR DEATH.
- After the trial lift, but before actual lift, a Qualified Person* must inspect slings, rigging hardware and sling protection. If possible, the sling protection should be removed and/or repositioned to independently inspect not only the slings, but the sling protection. The Qualified Person* must evaluate and if necessary take corrective action.
- There are many factors that may affect sling protection sling performance. Factors such as, but not limited to: sling elongation, edge condition, i.e., machined, tempered and/or case hardened edges, etc. need to be evaluated by a Qualified Person*.
- Trial lifts are critically important to ensure proper use and safety.
- Tension increases as the Angle of Loading changes from 90°. You must evaluate and plan for tension.
- Damage may occur as tension and compression combine and cutting forces are increased. DO NOT OVERLOAD SLINGS, RIGGING HARDWARE AND/OR PROTECTION!
- Protection ratings DO NOT apply if slings and/or sling protection are used at Angles of Loading other than 90°.
- The overall lifting capacity shall be rated at the lower of either the sling work load limit, rigging hardware rating and/or the sling protection capacity.
- Always refer to the Protection Capacity Tag to determine protection capacity ratings.
- As the Angle of Loading deviates from 90°, the greater the likelihood that slings and sling protection will slide against the load resulting in a hazardous situation. Slings and sling protection should be perpendicular (90°) to the load.
- Do not allow the sling and/or sling protection to slip or slide across the load edges or surfaces.
- Inspect slings, rigging hardware and sling protection before each use and immediately remove damaged items from service.
- Follow inspection procedures and removal-from-service criteria outlined in this bulletin.
- Do not use damaged slings, damaged rigging hardware and/or damaged sling protection for any purpose.

WARNING DO NOT use slings, rigging hardware, and/or sling protection until you are absolutely sure of what you are doing. Remember, failure to follow proper use, care and inspection criteria and/or the lack of skill, knowledge and care can result in INJURY or DEATH. Slings, rigging hardware and sling protection will fail if damaged, abused, misused, overloaded or improperly maintained resulting in INJURY or DEATH.



UHMPE Plasma® Rope Sling - Safety Information

- Select slings, rigging hardware and/or sling protection having suitable characteristics for the type and shape of the load, configuration of lift (hitch) and environment.
- Load weight must always be determined and/or verified.
- The rated capacity (work load limit) of slings, rigging hardware and/or sling protection shall not be exceeded. Check tags and markings, and verify that slings, rigging and hardware and/or sling protection are adequately rated for the load weight, the desired configuration of lift and the angle of loading.
- Slings must be rigged in a manner providing control of the load.
- Slings must be rigged so that the lift point is directly over the load's center of gravity.
- Sling movement over the lift point may occur if the load's center of gravity is not directly below the lift point. Under tension, sling movement over the lift point and/or connection point(s) can damage slings.
- DO NOT allow slings and/or sling protection to slip or slide across load edges or surfaces.
- A single sling hitch must never be used to handle unbalanced, loose and/or long loads.
- When using multiple slings or slings in any configuration of lift, particularly basket hitches, the load must be rigged and balanced to prevent slings from slipping or sliding along and/or across the load.
- When lifting with a basket hitch, the legs of the sling should contain or support the load from the sides, above the center of gravity, so that the load remains balanced and under control.
- A trial lift should be made by a Qualified Person* in conditions that WILL NOT RESULT IN INJURY or DEATH. The load should be raised slightly and evaluated by a Qualified Person* to ensure that the load is secure and assumes the intended position. Trial lifts must be done at a minimum height and provide the Qualified Person* the opportunity to evaluate and make adjustments. After the trial lift, an inspection of the sling, rigging hardware and/or sling protection must be performed by a Qualified Person*. If possible the sling protection should be removed and/or repositioned to independently inspect not only the slings, but the sling protection.
- Trial lifts are especially important with basket or other "loose" hitches where friction alone provides for load control, not the clutching action of the sling. Several trial lifts, inspections and corrective actions may be necessary to determine the proper combination of ingredients for successful load handling activities.
- If more than one sling is used the slings should be identical. When this is not possible a Qualified Person* must determine that the use of non-identical slings is safe and acceptable. As an example, UHMPE Rope Slings elongate differently than Polyester Rope Slings. Slings from different manufacturers will not be identical and slings made by the same manufacturer at different times may not be identical.
- During load handling activities, with or without load, personnel shall be alert for possible snagging of the load and/or sling.
- Slings shall not be used for pulling against stuck, snagged or restrained objects IF LOADING CANNOT BE DETERMINED. Load measuring devices and/or methods must always be used to ensure that OVERLOADING DOES NOT OCCUR. Overloaded slings, rigging hardware and/or sling protection may fail and the unplanned release of tension and/or deadly recoil and/or impact force from slings, rigging hardware and/or protection can cause INJURY or DEATH.
- Do not shock load rigging. Equipment and load movement should be SLOW and STEADY. Work load limits are based on a moderately dynamic lifting and/or load handling activity. Unplanned, instantaneous changes (rapid acceleration or sudden stops) constitute hazardous shock loading which may overload slings, rigging hardware and/or protection, leading to failure, the unplanned release of tension, deadly recoil and/or impact force and/or loss of load control, resulting in INJURY or DEATH.
- As an example, dynamic loading affects UHMPE Rope Slings with less elongation, to a greater degree, than Polyester Rope Slings with greater elongation properties. Likewise, a shorter rope sling is more profoundly affected by dynamic loading, than a longer rope sling.

UHMPE Plasma[®] Rope Sling – Safety Information



WARNING

Do not use Lift-It UHMPE Rope Slings in Choker Hitches.



- If you are using a Lift-It UHMPE <u>ENDLESS</u> Rope Sling, depending upon the length of the sling, you may have a choice about where to place the splice. The splice is larger in diameter and elongates differently than the other parts of the UHMPE Endless Rope Sling without splices. If possible, place the splice over the lift or connection point(s) to allow for equalized elongation in the two body members of the UHMPE Endless Rope Sling.
- UHMPE Rope Slings can be damaged by mishandling. UHMPE Rope Slings should not be handled or moved by grabbing or handling the splice tucks and tails. If at any time a splice exhibits any form of damage, an inspection by a Qualified Person* must be made to determine continued use.
- When a hand-tucked UHMPE Rope Sling is used, care should be taken to eliminate the rotation of the sling and/or the load to prevent the sling splice from unraveling. Unplanned rotation and collision with other objects must be avoided.
- Sling tags and labels should be kept away from the load and connection point(s).
- Slings shall be shortened, lengthened or adjusted only by methods approved by the sling manufacturer or a Qualified Person*.
- Slings shall not be shortened or lengthened by knotting or twisting and/or be joined by knotting.
- Twisting and kinking shall be avoided. Twists must be removed from slings before applying tension.
- Equipment should not be driven over slings and loads should not be rested on slings.
- Slings should not be pulled from under a load when the load is resting on the sling. When possible, place supports under the load to allow the removal of slings.
- Slings should not be dragged on the floor and/or over abrasive surfaces. Dirt and foreign material can get worked into the rope fibers resulting in damage which may seriously affect sling strength and performance.
- Do not drop slings equipped with metal fittings.
- Slings should not be bunched or pinched between the ears of a shackle or by the load, hook or fitting. Bunching and/or pinching can lead to uneven loading and a reduction in sling strength.
- Slings must be used with compatible fittings, hooks and shackles.
- Prior to use, shackles, hooks and all fittings must be inspected to identify and evaluate potentially damaging threads, edges or surfaces.
- All fitting surfaces must be cleanly finished and damaging surfaces and edges removed to prevent sling damage. Contact the manufacturer of Qualified Person* before modifying and/or refinishing.
- It is recommended that UHMPE Rope Slings be rigged in the bow of the shackle. When this is not possible, protect slings from potential damage.
- The load applied to the hook should be centered in the base (bowl) of the hook to prevent point loading on the hook.

Fittings shall be of a shape and size to ensure that they properly seat in the hook, shackle and/or load handling equipment.

Thimbles used with UHMPE Rope Slings shall have a minimum diameter at the bearing surface of at least two times the rope diameter.

WARNING Do not use or expose UHMPE Rope Slings at temperatures above 140°(F)/60°(C) or below -40°(F)/-40°(C).

At low temperatures, when moisture is present, ice formation may occur. Ice crystals may abrade and cut rope fibers leading to structural damage and loss of sling capacity.

UHMPE Rope Slings exposed to salt water should be thoroughly rinsed with fresh water to prevent mechanical damage from salt crystals. Do not machine, hand or pressure wash slings. Washing significantly reduces sling capacity. Rinsed slings can either be air dried or used immediately.

Depending upon the fiber, rope strength and stretch may be affected when the sling is saturated with water.

Avoid prolonged exposure to sources of ultraviolet light; it reduces the strength and performance of synthetic fibers. UV degradation may be indicated by discoloration and the presence of splinters and/or slivers. UV damage may not always be visually apparent.

When not in use store slings, rigging hardware and sling protection in a clean, dry area, out of direct sunlight and/or any source of ultraviolet light and away from sources of extreme temperatures. The storage location should also be free of environmental and mechanical damage, corrosion, dirt and grit. Do not store UHMPE Rope Slings in areas where they may become impregnated with rust.

Absorbed moisture, impurities and/or other factors will dramatically increase conductivity.

Consider all slings, rigging hardware, components and sling protection as conductive when in use.

Avoid exposing slings, rigging hardware and/or sling protection to damaging chemicals. Chemically active environments can affect the strength of all rigging materials and components in varying degrees ranging from little to total degradation. Prior to use, consider, evaluate and contact the manufacturer to determine the effects of exposure to solvents, vapors or mists of acids and/or caustics. Acids or alkalis which are harmless in liquid form can become sufficiently concentrated by evaporation and may become harmful. Exposure time, temperature and concentration must be considered.

Slings shall be repaired only by the sling manufacturer or a Qualified Person*. Repaired slings shall be marked to identify the entity performing the repair. All repaired UHMPE Rope Slings must be proof tested to two times the rated capacity and certified.

Only slings which can be identified by the information on the sling tag will be considered for repair.

The rope that makes up the sling shall not be re-spliced or knotted to effect repairs.

Temporary repairs of slings, rigging hardware and/or sling protection are not permitted.

*Qualified Person: A person, who by possession of a recognized degree or certificate of professional standing in an applicable field, or who, by extensive knowledge, training and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter and work.

UHMPE Plasma® Rope Sling Inspection

WARNING

The use of damaged slings, damaged rigging hardware and/or damaged sling protection may result in INJURY or DEATH. The strength and performance of slings, rigging hardware and sling protection is affected by wear and damage. It is critically important that sling users employ a three stage, inspection procedure: initial, frequent and periodic, performed by a Qualified Person*.

If damage is identified during an inspection, damaged items must be immediately removed from service and not be returned until approved by a Qualified Person*.

You may have encountered removal from service criteria for specific slings and rigging hardware permitting continued use at an acceptable level of wear and/or damage, provided it does not exceed specific limits. Quantifying an acceptable level of loss based on the original size for synthetic products may be difficult, due to the absorption of fluids or foreign substances resulting in swollen or bloated fibers.

Always consider the cost of failure and determine if the use of any item with "acceptable levels" of damage is worth the risk, given the potentially deadly consequences.

No visual inspection can accurately determine the residual strength of slings, rigging hardware and/or sling protection. Contact your Lift-It[®] safety professional for more information on sling inspection and/or training. A viable inspection program not only saves lives, but will enable personnel to make informed decisions that will enhance safety.

Removal from Service Criteria

ASME and Cardage Institute requires that nylon and polyester rope slings shall be immediately removed from service if any of the following conditions are present. The same removal criteria must be used when inspecting UHMPE Rope Slings.

(a) Missing or illegible sling identification.

The sling must be identified or labeled with the following information:

- (1) name or trademark of manufacturer, or if repaired, the entity performing repairs
- (2) manufacturer's code or stock number
- (3) rated load for at least one hitch type and the angle upon which it is based
- (4) type of fiber material
- (5) number of legs, if more than one
- (b) Cuts, gouges, areas of extensive fiber breakage along the length and abraded areas on the rope.
- (c) Damage that is estimated to have reduced the effective diameter of the rope by more than 10%.
- (d) Uniform fiber breakage along the major part of the length of the rope in the sling such that the entire rope appears covered with fuzz or whiskers.
- (e) Inside the rope, fiber breakage, fused or melted fiber (observed by prying or twisting to open the strands) involving damage estimated at 10% of the fiber in any strand or the rope as a whole.
- (f) Discoloration, brittle fibers and hard or stiff areas that may indicate chemical damage, ultraviolet damage or heat damage.
- (g) Dirt and grit in the interior of the rope structure that is deemed excessive.
- (h) Foreign matter that has permeated the rope and makes it difficult to handle and may attract and hold grit.
- (i) Kinks or distortion in the rope structure, particularly if caused by forcibly pulling on loops (known as hockles).
- (j) Melted, hard, or charred areas that affect more than 10% of the diameter of the rope or affect several adjacent strands along the length that affect more than 10% of strand diameters.
- (k) Poor condition of thimbles or other components manifested by corrosion, cracks, distortion, sharp edges, or localized wear.
- (I) For hooks, removal criteria as stated in ASME B30.10.
- (m) For rigging hardware, removal criteria as stated in ASME B30.26.
- (n) Other conditions including visible damage that cause doubt as to the continued use of the sling.

UHMPE Plasma[®] Rope Sling Inspection

WARNING If any damage such as the following is present, DO NOT USE the UHMPE Rope Sling. If you identify any of the following damage, REMOVE DAMAGED ITEMS immediately from service, even if the damage you see is not as extensive as shown in the following photos; they are extreme examples provided for illustration purposes only. Remember, any doubt, DON'T!

Internal abrasion can be determined by pulling one strand away from other strands to inspect for powder, broken filaments or volume reduction.





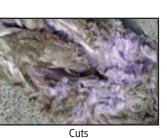


Like New External



Like New Internal







Excessive External Abrasion



Excessive Internal Abrasion



Discoloration



Excessive Dirt



Excessive Wear & Abrasion





Other Conditions That Cause Doubt.



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WARNING To Users of Lift-It[®] UHMPE Rope Slings.

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The **WARNING** icon is used to alert sling users to potentially hazardous conditions and situations. "Must" denotes a mandatory requirement and is synonymous with the use of the term "shall". Slings, rigging hardware and sling protection may be referred to collectively as "rigging".

WARNING This guide contains important safety information about the use of Lift-It UHMPE Rope Slings. However, it DOES NOT provide you with all the information you need to know in order to be considered trained and knowledgeable in load handling activities. The proper use of slings, rigging hardware and sling protection are only some of the many necessary ingredients for proper use. You must be properly trained and it is your responsibility to consider all risk factors prior to all load handling activities. Improper use and lack of proper training may result in severe INJURY or DEATH due to rigging failure, the unplanned release of tension, deadly recoil and/or impact force and/or loss of load control.

All Lift-It[®] Manufacturing Co. Inc. products are sold with the express understanding that all parties are thoroughly knowledgeable with safe and proper product usage. The manufacturer does not have complete knowledge or insight into the specific details and potential hazards associated with your particular set of circumstances. Sling users have the ultimate responsibility for proper use as specified in the applicable warnings, standards, regulations and laws. The improper use of slings, rigging hardware and sling protection by untrained persons is hazardous and may result in INJURY or DEATH. It is also important that sling users be thoroughly familiar with the manufacturer's recommendations and safety information that accompanies our products.

Use by untrained persons is hazardous. Please contact us if you have questions at 800.377.5438 or email us at info@lift-it.com and NEVER TAKE CHANCES!

The American Society of Mechanical Engineers in the ASME B30.9 Sling Safety Standard, Section 9-X.1 clearly states the requirement for training. "Sling users shall be trained in the selection, inspection, cautions to personnel, effects of the environment and rigging practices, covered by this chapter."

Rigging practices would include the use of UHMPE Rope Slings, rigging hardware and sling protection. Sling protection is a mandatory requirement for all UHMPE Rope Slings and synthetic slings whenever there is a possibility of damage from cutting and/or abrasion.

The user must have sufficient training and knowledge of all applicable standards to responsibly use our products. If you are unsure whether you are properly trained and knowledgeable or if you are unsure of what the standards and regulations require of you, ask your employer for information and/or training.

WARNING DO NOT use UHMPE Rope Slings, rigging hardware, and/or sling protection until you are absolutely sure of what you are doing. Remember, failure to follow proper use, care and inspection criteria and/or the lack of skill, knowledge and care can result in severe INJURY or DEATH. UHMPE Rope Slings, rigging hardware and sling protection will fail if damaged, abused, misused, overloaded or improperly maintained resulting in INJURY and DEATH.

Training and Proper Use is always BETTER THAN INJURY, DEATH AND RECOVERY!







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Wire Rope Slings



MECHANICALLY SWAGED GROMMET

Mechanically Swaged Grommets feature a wire rope body with a mechanical splice to form an endless body. The minimum sling circumference is 96 times the grommet body diameter. Sling capacities are based upon a minimum D/d of 5/1. You must specify: Sling Stock Number, Body Diameter and Sling Length.

NOTE: SLING LENGTH IS EXPRESSED AS BEARING TO BEARING LENGTH.



FINISHED		CHOKER	VERTICAL	BASKET			
SLING BODY DIAMETER (Inches)	SLING STOCK NUMBER	Ð		90 Deg.	60 Deg.	45 Deg.	MINIMUM SLING LENGTH (Ft.)
1/4	SLG-0140	.74	1.1	2.1	1.8	1.5	1.5
5/16	SLG-0516	1.2	1.6	3.3	2.8	2.3	1.5
3/8	SLG-0380	1.6	2.4	4.7	4.1	3.3	2
7/16	SLG-0716	2.2	3.2	6.4	5.5	4.5	3
1/2	SLG-0120	2.9	4.1	8.3	7.2	5.9	3
9/16	SLG-0916	3.7	5.2	10	9.1	7.4	3
5/8	SLG-0580	4.5	6.4	13	11	9.1	3
3/4	SLG-0340	6.4	9.2	18	16	13	4
7/8	SLG-0780	8.7	12	25	22	18	4
1	SLG-1000	11	16	32	28	23	4
1-1/8	SLG-1180	14	20	41	35	29	5
1-1/4	SLG-1140	17	25	50	43	35	5
1-3/8	SLG-1380	21	30	60	52	42	6
1-1/2	SLG-1120	25	36	71	62	50	6
1-5/8	SLG-1158	29	41	82	71	58	7
1-3/4	SLG-1134	33	48	95	83	68	7
1-7/8	SLG-1178	38	54	109	94	77	8
2	SLG-2000	43	62	124	107	87	8
2-1/4	SLG-2140	54	77	154	133	109	9
2-1/2	SLG-2150	66	94	188	163	133	10
2-3/4	SLG-2340	79	113	225	195	159	11
3	SLG-3000	93	133	265	230	188	12

WARNING See Important Safety, Use and Inspection Information that accompanies the product before use.

Vertical and Basket WLL are based upon a MINIMUM D/d of 5/1. Where "d" = Finished Body Diameter.

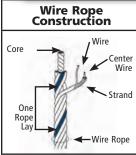
Work Load Limits (WLL) are based upon pin diameter no smaller than 5 times the Body Diameter.

Sling Angles less than 30 degrees shall not be used.

Please Note: Strand Laid Grommets are made from 6 X 19 or 6 X 37 Classification, EIPS-IWRC Wire Rope.



Wire Rope Slings



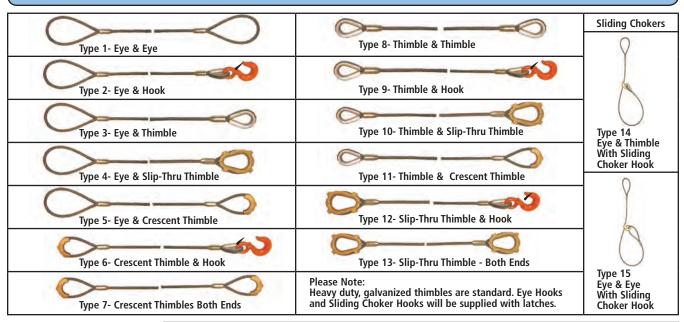
Single Body Wire Rope Slings feature either a 6 x 19 or 6 x 37 Construction, Extra Improved Plow Steel (EIPS) wire rope with an Independent Wire Rope Core (IWRC).

Single Body, Flemish Eye/Mechanical Splice, Wire Rope Slings provide additional security, superior to return loop slings should the swage sleeve become damaged during use.

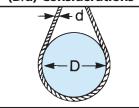
Thimbles improve sling longevity by protecting the rope at connection points.

Stainless Steel Slings, Fiber Core Slings with reduced Work Load Limits, Cable Laid Slings with galvanized finish and larger diameter slings are also available.

SINGLE BODY SLING TYPES



(D/d) Considerations



When wire rope is bent around a load, or diameter, the rope strength is decreased. The D/d ratio is diameter of the object around which the rope is bent (D), divided by the diameter (d) of the rope. D/d affects slings used in basket hitches and must be taken into consideration. When the diameter of the load is 4 times the diameter of the wire rope sling the D/d ratio is 4/1 and the sling efficiency is 75% of the Basket WLL.

D/d RATIO	Wire Rope Sling Strength Efficiencies
25/1	100%
20/1	92%
15/1	88%
10/1	86%
8/1	84%
6/1	80%
4/1	75%
2/1	65%
1/1	50%

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SINGLE BODY WIRE ROPE SPECIFICATIONS												
ROPE DIA. (In.)	WORK LOAD LIMITS (TONS) D/d = 25/1 TON = 2000 LBS.		D/d = 25/1		D/d = 25/1		STANDARD EYE SIZE (Inches) W X L	THIMBLED EYE SIZE (Inches) W X L	EYE HOOK WLL (TONS)	CRESCENT THIMBLE EYE SIZE (Inches)	SLIP-THRU THIMBLE EYE SIZE (Inches)	SLIDING CHOKER HOOK (Inches)
	CHOKER	VERTICAL	90° BASKET					WXL	WXL			
1/4	.48	.65	1.3	18″	2 X 4	7/8 X 1-5/8	1	2 X 4	2-1/8 X 4-1/8	3/8		
5/16	.74	1.0	2.0	21″	2-1/2 X 5	1-1/16 X 1-7/8	1	2 X 4	2-1/8 X 4-1/8	3/8		
3/8	1.1	1.4	2.9	24″	3 X 6	1-1/8 X 2-1/8	1-1/2	2 X 4	2-1/8 X 4-1/8	3/8		
7/16	1.4	1.9	3.9	27″	3-1/2 X 7	1-1/4 X 2-1/4	2	2 X 5	2-3/8 X 4-3/8	1/2		
1/2	1.9	2.5	5.1	30″	4 X 8	1-1/2 X 2-1/4	3	2-1/4 X 6	2-3/8 X 4-3/8	1/2		
9/16	2.4	3.2	6.4	33″	4-1/2 X 9	1-1/2 X 2-3/4	5	2-1/4 X 7	2-3/8 X 4-3/8	5/8		
5/8	2.9	3.9	7.8	3 ft.	5 X 10	1-3/4 X 3-1/4	5	2-3/4 X 7	3-3/8 X 6-5/8	5/8		
3/4	4.1	5.6	11	3 ft6 in.	6 X 12	2 X 3-3/4	7	3-1/4 X 8-1/2	3-3/8 X 6-5/8	3/4		
7/8	5.6	7.6	15	4 ft.	7 X 14	2-1/4 X 4-1/4	11	4-1/2 X 10	3-3/4 X 7-1/8	7/8		
1	7.2	9.8	20	4 ft6 in.	8 X 16	2-1/2 X 4-1/2	11	4-1/2 X 11-1/2	3-3/4 X 7-1/8	1		
1-1/8	9.1	12	24	5 ft.	9 X 18	2-7/8 X 5-1/8	15	4-7/8 X 13	4-3/8 X 8-3/8	1-1/8		
1-1/4	11	15	30	5 ft6 in.	10 X 20	3-1/2 X 6-1/2	15	5-1/2 X 14-1/2	4-3/8 X 8-3/8	1-1/4		
1-3/8	13	18	36	6 ft.	11 X 22	3-1/2 X 6-1/4	22	6 X 16	5 X 9-1/2	1-3/8		
1-1/2	16	21	42	7 ft.	12 X 24	3-1/2 X 6-1/4	22	6 X 17-1/2	5 X 9-1/2	1-1/2		
1-3/4	21	28	57	8 ft.	14 X 28	4-1/2 X 9	37	7 X 20	6-3/4 X 11-3/4	-		
2	28	37	73	9 ft.	16 X 32	6 X 12	45	7 X 23-1/2	8 X 14-1/2	-		
2-1/4	35	44	89	10 ft.	18 X 36	7 X 14	45	8-1/2 X 26	8 X 15-1/2	-		
2-1/2	42	54	109	11 ft.	20 X 40	-	60	8-1/2 X 29-1/2	-	-		

SINCLE BODY WIRE BODE SPECIEICATIONS

 65%
 2-1/2

Wire Rope Slings



• SINGLE PA	RT BODY		DOUBLE-LEG BRIDLE				LE-LEG BRI	DLE	QU/	AD-LEG BRI	DLE
• 6 X 19 OR	6 X 37 STRUCTION STS CRUSHI	ROTECT SLING K 37 RUCTION S CRUSHING									
			<u> </u>		01						
WARNI DO NOT EXCE		OAD LIMITS	WOI To	RK LOAD LIN ns = 2,000 L	AITS bs.	WOI To	RK LOAD LIN ns = 2,000 L	AITS bs.	WOI To	RK LOAD LIN ns = 2,000 L	AITS bs.
ROPE DIAMETER (INCHES)	MIN. SLING LENGTH	EYE HOOK CAP. (TONS)	60°	45°	MASTER LINK STOCK DIA.	60°	45°	MASTER LINK STOCK DIA.	60°	45°	MASTER LINK STOCK DIA.
1/4	15″	1	1.1	.91	1/2	1.7	1.4	1/2	2.2	1.8	5/8
5/16	18″	1	1.7	1.4	1/2	2.6	2.1	1/2	3.5	2.8	3/4
3/8	20″	1-1/2	2.5	2.0	1/2	3.7	3.0	3/4	5.0	4.1	3/4
7/16	22″	2	3.4	2.7	3/4	5.0	4.1	3/4	6.7	5.5	1
1/2	24″	3	4.4	3.6	3/4	6.6	5.4	1	8.8	7.1	1
9/16	26″	5	5.5	4.5	3/4	8.3	6.8	1	11	9	1-1/4
5/8	28″	5	6.8	5.5	1	10	8.3	1-1/4	14	11	1-1/2
3/4	33″	7	9.7	7.9	1-1/4	15	12	1-1/2	19	16	1-3/4
7/8	39″	11	13	11	1-1/4	20	16	1-1/2	26	21	2
1	42″	11	17	14	1-1/2	26	21	1-3/4	34	28	2-1/4
1-1/8	4′	15	21	17	1-1/2	31	26	1-3/4	42	34	2-3/4
1-1/4	4'- 6"	15	26	21	1-3/4	38	31	2	51	42	2-3/4
1-3/8	5′	22	31	25	1-3/4	46	38	2-1/4	-	-	-
1-1/2	5′- 6″	22	37	30	2	55	45	2-1/4	-	-	-
1-3/4	6'- 6"	30	49	40	2-1/4	74	60	3-1/4	-	-	-
2	8′	37	63	52	2-3/4	-	-	-	-	-	-

MULTIPLE LEG BRIDLE ASSEMBLIES

Bridle or matched slings are +/- one rope diameter. Length tolerance for single body slings is +/- two rope diameters or +/- .5% of the sling length, whichever is greater.

Can fail if damaged, misused or overloaded. Inspect before use. Use by untrained personnel is hazardous. OBSERVE AND DO NOT EXCEED WORK LOAD LIMIT. DEATH and INJURY can occur from improper use or maintenance.





A NEW WAY TO FABRICATE CHAIN SLINGS

GrabiQ is an exciting new family of alloy chain sling components. Instead of the old "one component does one job" fitting approach, GrabiQ combines up to three separate functions in a single component. The GrabiQ Master Grab combines a masterlink, connecting links for two legs of chain and shortening hooks for each leg, **in one fitting.** Using traditional fittings to construct the same sling would require seven components, instead of just one.

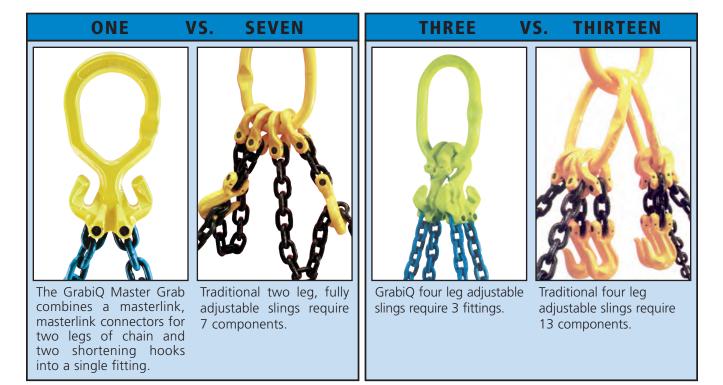
Some GrabiQ fittings are well suited for use as top assembly connectors or as hooks at the bottom of a sling, adding even more versatility. Each leg of a GrabiQ sling is typically furnished with a chain pocket, which can be used for shortening or creating leg loops.

Increased Strength to Weight Ratio with GrabiQ-Grade 100.

While the specific Work Load Limits vary, depending on size, slings fabricated from Grade 100 chain and fittings are about 25% stronger than Grade 80 counterparts. Converting from Grade 80 to GrabiQ (Grade 100) will benefit users who can make use of the additional WLL without the expense of purchasing larger chain and fittings. The increased strength varies depending on the size. Work Load Limit (WLL) gain for 3/8" is about 24 percent, while the WLL for 7/32" is more than 30 percent. All other sizes fall somewhere between a 24% and 30% (WLL) gain.

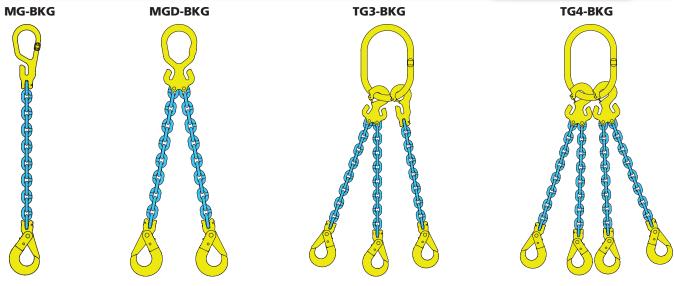
Fewer Components Means:	<u>Less Weight</u>	Easier Rigging
rewer components means.	Less Clutter	Easier Inspections

Most of the time, GrabiQ slings will be lighter than Grade 80 counterparts. Fewer components mean less weight and clutter and much easier rigging. Inspecting chain slings is easier and faster because fewer components must be examined for wear or damage.



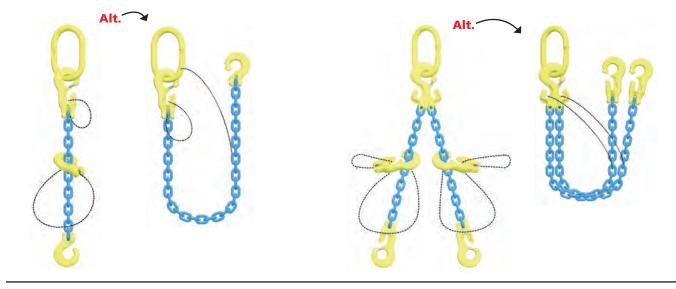
GrabiQ[®] Popular Sling Models

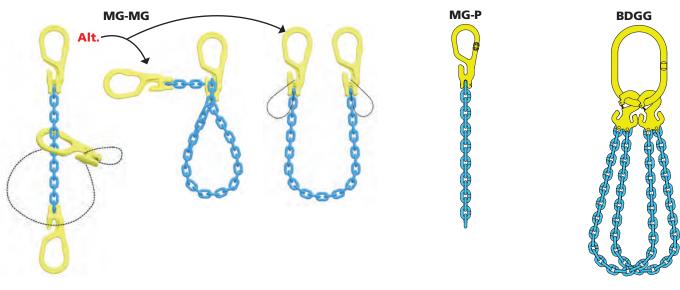




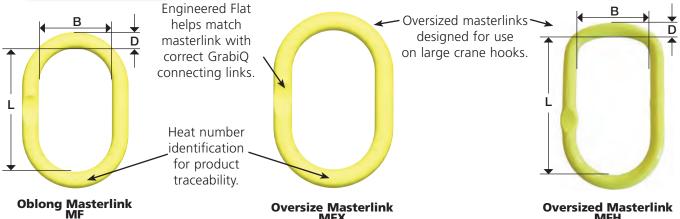
TG1-CL

TG2-CG









Oversize Masterlink MFX

Oversized Masterlink MFH

For 1, 2, 3 or	4 leg cha	ain slings	when used w	ith C-Grab	and C-Lok Co	nnectors.						
	OBLONG MASTERLINK - MF											
STOCK NUMBER	TRADE SIZE	1 LEG 90°	WORK LOAD LIMIT	2 LEGS 60°	WORK LOAD LIMIT	3 or 4 LEGS	WORK LOAD LIMIT	D	DIMENSIONS (Inches)			
	(Inches)	50	(Lbs.)		(Lbs.)	60 °	(Lbs.)	L	В	D	(Lbs.)	
MF-86-10	1/2	5/16"	5,700	-	-	-	-	4.7	2.8	.55	.9	
MF-108-10	5/8	3/8″	8,800	5/16"	9,900	-	-	5.5	3.2	.67	1.5	
MF-1310-10	7/8	1/2″	15,000	3/8″	15,200	5/16"	14,800	6.3	3.7	.87	3.3	
MF-1613-10	1	5/8″	22,600	1/2″	26,000	3/8″	22,900	7.5	4.3	1.10	5.5	
MF-2016-10	1-3/8	-	-	5/8″	39,100	1/2″	39,000	9.4	5.5	1.30	11.2	
MF-2220-10	1-1/2	-	-	-	-	5/8″	58,700	9.8	5.9	1.60	16.1	
*Design Facto	*Design Factor 4:1											

For 1 or 2 leg chain slings when used with C-Grab and C-Lok connectors. **OBLONG MASTERLINK - MFX** В **OVERSIZED FOR LARGE CRANE HOOKS** ¥ D DIMENSIONS STOCK TRADE WORK WORK WEIGHT 1 LEG 2 LEGS (Inches) NUMBER SIZE LOAD LIMIT LOAD LIMIT EACH 90° **60°** (Inches) (Lbs.) (Lbs.) (Lbs.) L В D MFX-108-10 5/16" 13.4 L 1 5,700 7.1 .99 8.2 --MFX-108-10 3/8" 8,800 13.4 5/16" 9,900 7.1 .99 8.2 1 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 15.4 MFX-2016-10 1-1/2 -5/8″ 39,100 13.4 7.1 1.5 18.7 -

*Design Factor 4:1

For 1, 2, 3 or 4 le	eg chain s	slings w	hen used with	C-Grab a	nd C-Lok Conr	ectors.						
	OBLONG MASTERLINK - MFH OVERSIZED FOR LARGE CRANE HOOKS											
NUMBER SIZE 1 LEG LOAD LIMIT 2 LEGS LOAD LIMIT LEGS LOAD LIMIT (Inches)											WEIGHT EACH	
	(Inches) 56 (Lbs.) 60° (Lbs.) L B D (Lbs.)											
MFH-1310-10	7/8	5/16″	5,700	-	-	-	-	9.1	4.9	.9	4.2	
MFH-1310-10	7/8	3/8″	8,800	5/16"	9,900	-	-	9.1	4.9	.9	4.2	
MFH-1310-10	7/8	1/2″	15,000	3/8″	15,200	5/16"	14,800	9.1	4.9	.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″	39,100	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	

*Design Factor 4:1 & Proof Tested To 2X WLL

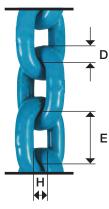
NOTE: All MFH masterlinks require a special fixture for proof testing. Do not proof test without consulting the manufacturer.

GrabiQ[®] Components





		ALLOY CHA	IN - GRADE 100)		
STOCK NUMBER	CHAIN SIZE	WORK LOAD LIMIT		DIMENSIONS (Inches)		WEIGHT 100 Ft.
	(Inches)	(Lbs.)	D	E	н	(Lbs.)
KLA-8-10	5/16	5,700	.32	.95	.45	97
KLA-10-10	3/8	8,800	.40	1.20	.58	151
KLA-13-10	1/2	15,000	.52	1.50	.72	253
KLA-16-10	5/8	22,600	.63	1.90	.87	450



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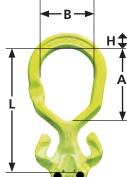
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*Design Factor 4:1

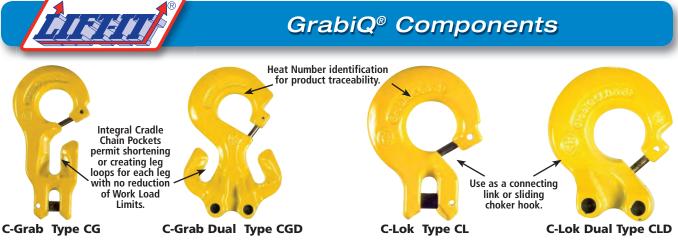
All in one fitti	ng, combinir	ng masterlink, con	nector and s	hortening fu	nction for si	ngle leg slin	gs.]			
	MASTER GRAB TYPE - MG										
STOCK NUMBER	(Inches)										
	(Inches)	(Lbs.)	L	(Lbs.)							
MG-8-10	5/16	5,700	6.7	3.7	2.4	.71	2.2) L			
MG-10-10	3/8	8,800	8.3	4.6	3	.87	4.0				
MG-13-10	1/2	15,000	10.3	5.6	3.5	1	7.7]			
MG-16-10	5/8	22,600	12.2	6.4	4.1	1.2	12.8	🗶			

*Design Factor 4:1

		MASTER	GRAB DUAL T	YPE - MGD			
STOCK NUMBER	CHAIN SIZE	WORK LOAD LIMIT			WEIGHT EACH		
	(Inches)	(Lbs.)	L	А	В	н	(Lbs.)
MGD-8-10	5/16	9,900	6.7	3.9	3	.83	3.1
MGD-10-10	3/8	15,200	8.3	4.9	3.5	.95	5.5
MGD-13-10	1/2	26,000	10.3	5.8	4.1	1.1	11.0
MGD-16-10	5/8	39,100	12.2	6.9	4.7	1.4	19.6



*Design Factor 4:1



A connecting link used with MF, MFX or MTX masterlinks 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 with no WLL reduction.

C-GRAB TYPE - CG **STOCK** CHAIN WORK LOAD DIMENSIONS WEIGHT NUMBER SIZE LIMIT (Lbs.) (Inches) EACH AT 90° (Inches) L В Ε Η (Lbs.) CG-8-10 5/16 5,700 4.2 .47 1.3 .95 1.8 CG-10-10 3/8 8,800 5.3 .59 1.6 1.1 3.3 CG-13-10 1/2 15,000 6.8 .71 2.0 1.5 7.1

8.5

.87

2.5

1.9

13.4

CG-16-10 *Design Factor 4:1 5/8

A connecting link used with MF, MFX or MTX masterlinks to attach two legs of chain. Fitting includes built-in chain pocket for shortening or creating leg loops.

22,600

	C-GRAB DUAL TYPE - CGD										
STOCK NUMBER	CHAIN SIZE	WORK LOAD LIMIT (Lbs.)		DIMENSIONS (Inches)							
	(Inches)	AT 60°	L	(Lbs.)							
CGD-8-10	5/16	9,900	4.2	.47	1.3	1.1	2.9				
CGD-10-10	3/8	15,200	5.2	.59	1.6	1.5	5.5				
CGD-13-10	1/2	26,000	6.8	.71	2	1.8	12.1				
CGD-16-10	5/8	39,100	8.5	.87	2.5	2.2	22.5				

*Design Factor 4:1

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

	C-LOK TYPE - CL										
STOCK NUMBER	CHAIN SIZE	WORK LOAD LIMIT (Lbs.)		DIMENSIONS (Inches)							
	(Inches)	AT 90°	L	(Lbs.)							
CL-8-10	5/16	5,700	2.2	2.2 .47 1.3 .95							
CL-10-10	3/8	8,800	2.8	.59	1.6	1.1	2.0				
CL-13-10	1/2	15,000	3.7	.71	2.0	1.5	4.4				
CL-16-10	5/8	22,600	4.7	.87	2.5	1.9	8.4				

*Design Factor 4:1

A connecting li	nk used with	MF, MFX or MTX r	nasterlinks	to attach t	wo legs.							
C-LOK DUAL TYPE - CLD												
STOCK CHAIN WORK LOAD DIMENSIONS WEIGHT NUMBER SIZE LIMIT (Lbs.) (Inches) EACH												
	(Inches)	AT 60°	AT 60° L B E H (Lbs.)									
CLD-8-10	5/16 9,900 2.2 .47 1.3 1.1											
CLD-10-10	3/8	15,200	2.8	.59	1.6	1.5	3.3					
CLD-13-10	I3-10 1/2 26,000 3.7 .71 2.0 1.8 7.3											
CLD-16-10	5/8	39,100	4.5	.99	2.5	2.2	13.2					

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*Design Factor 4:1





		EGKN	SLING HOC	Ж					
STOCK NUMBER	CHAIN SIZE	WORK LOAD LIMIT			ISIONS hes)		WEIGHT EACH		
	(Inches)	(Lbs.) AT 90°	L	В	G	н	(Lbs.)		
EGKN-8-10	5/16	5,700	3.7	1.1	.67	.87	1.1		
EGKN-10-10	3/8	8,800	4.8	1.4	.90	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		

*Design Factor 4:1

GBK SELF LOCKING HOOK									
STOCK NUMBER	NUMBER SIZE LOAD LIMIT (Inches)								
	(Inches)	(Lbs.) AT 90°	L	В	G	H	(Lbs.)		
GBK-8-10	5/16	5,700	4.7	1.5	.79	.87	1.8		
GBK-10-10	3/8	8,800	5.9	1.9	.94	1.1	2.9		
GBK-13-10	1/2	15,000	6.8	2.1	1.1	1.4	5.3		
GBK-16-10	5/8	22,600	8.5	2.4	1.5	2.0	12.3		

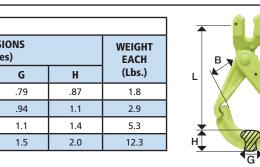
Design Factor 4:1

	LBK SWIVEL EYE GRIP LATCH SELF LOCKING HOOK with Bronze Bushing									
STOCK NUMBER	CHAIN SIZE	WORK LOAD LIMIT		DIMENSIONS (Inches) L B C E F G H						WEIGHT EACH
	(Inches)	(Lbs.) AT 90°	L							(Lbs.)
LBK-7/8-10	5/16	5,700	6.9	1.5	1.1	1.5	.47	.79	.87	1.8
LBK-10-10	3/8	8,800	8.4	1.9	1.4	1.7	.59	.87	1.1	4.0
LBK-13-10	1/2	15,000	9.3	2.1	1.9	1.9	.75	1.10	1.4	8.4

*Design Factor 4:1

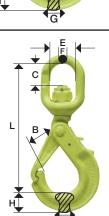
	LKBK SWIVEL EYE GRIP LATCH SELF LOCKING HOOK with Ball Bearings									
STOCK NUMBER								WEIGHT EACH		
	(Inches)	(Lbs.) AT 90°	L	L B C E F G H (L						
LKBK-7/8-10	5/16	5,700	6.9	1.5	1.1	1.5	.47	.79	.87	1.8
LKBK-10-10	3/8	8,800	8.4	1.9	1.4	1.7	.59	.87	1.1	4.0
LKBK-13-10	1/2	15,000	9.3	2.1	1.9	1.9	.75	1.10	1.4	8.4

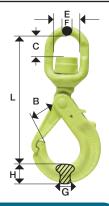
*Design Factor 4:1



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Shackles - Van Beest Green Pin®



Without substituting quality for cost, the **Green Pin**[®] brand has earned a reputation as an industry leader in design and international quality. Van Beest **Green Pin**[®] shackles comply with a wide range of internationally recognized standards such as DNV, CE, ASME B30.26 and RR-C-271D.

- Van Beest shackles are upset forged and are superior to drop forged shackles.
- Upset forged shackles do not have forge flash metal edges like drop forged shackles.
- Upset forged shackles have higher tensile strengths and more precise tolerances when compared with similar sized drop forged shackles.
- Van Beest shackles feature a true, hot dip galvanizing which is smoother and longer lasting than cold dip finishes.
- Mandatory identification markings are embossed rather than upraised; mitigating potential damage to synthetic slings.

All Van Beest shackles feature metric long ton ratings and are readily available in the following sizes:

- G-4161 Screw Pin Anchor Shackles: 1/4" to 2-1/2" Bow Diameter (1/2 to 55 ton).
- P-6033 Wide Body Shackles: 7 to 1550 ton in stock for immediate shipment.
- G-4163 Bolt Anchor Shackles: 1/4" to 3" Bow Diameter (1/2 to 85 ton).





909.469.2251

Screw Pin Anchor Shackles - Van Beest



G-4161



- Material: Bow and pin: High tensile steel, Grade 6, quenched and tempered.
- Design Factor: 6:1
- Standards: U.S. Federal Specification RR-C-271 IVA, Class 2, Grade A, ASME B30.26 and EN 13889.
- Finish: Hot dip galvanized
- Temperature Range: -40°F (-40°C) to + 392°F (200°C)
- Certification: manufacturer, material, proof test and CE declaration of conformity available at no additional charge.
- Additional dimensional, tolerance information and CAD drawings are available on request.

SCREW PIN ANCHOR SHACKLE SPECIFICATIONS

Work Load Limit	Diameter Bow	Diameter Pin	Diameter Eye	Width Eye	Width Inside	Length Inside	Width Bow	Overall Length	Length Bolt	Overall Width
Metric Tons	a inch	b inch	Not shown	d inch	e inch	f inch	g inch	h inch	i inch	j inch
.50	0.25	0.31	0.66	0.28	0.47	1.16	0.78	1.91	1.50	1.34
.75	0.31	0.38	0.78	0.34	0.53	1.25	0.88	2.22	1.84	1.56
1	0.38	0.44	0.88	0.41	0.66	1.44	1.03	2.50	2.13	1.81
1.5	0.44	0.50	1.03	0.44	0.75	1.69	1.16	2.91	2.34	2.00
2	0.50	0.63	1.34	0.50	0.88	2.00	1.25	3.50	2.88	2.28
3.25	0.63	0.75	1.56	0.63	1.06	2.53	1.69	4.34	3.50	2.94
4.75	0.75	0.88	1.81	0.75	1.22	3.00	2.00	5.09	4.06	3.50
6.5	0.88	1.00	2.06	0.88	1.41	3.28	2.28	5.66	4.69	4.03
8.5	1.00	1.13	2.31	0.97	1.69	3.75	2.69	6.47	5.41	4.66
9.5	1.13	1.25	2.41	1.09	1.75	4.25	2.94	7.28	6.03	5.16
12	1.25	1.38	2.84	1.25	2.00	4.53	3.28	7.91	6.69	5.78
13.5	1.38	1.50	3.16	1.38	2.25	5.25	3.63	8.94	7.31	6.38
17	1.50	1.63	3.47	1.50	2.38	5.75	3.91	9.81	8.00	6.88
25	1.75	2.00	4.06	1.78	2.91	7.00	4.97	11.81	9.56	8.50
35	2.00	2.25	4.38	1.97	3.28	7.75	5.44	13.03	10.72	9.38
42.5	2.25	2.56	5.13	2.25	3.75	8.75	6.31	14.84	12.22	10.78
55	2.50	2.75	5.72	2.56	4.13	10.25	7.09	17.06	13.53	12.22

b

e

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Bolt Anchor Shackles - Van Beest



G-4163



- Material: Bow and pin: High tensile steel, Grade 6, quenched and tempered.
- Design Factor: 6:1
- Standards: U.S. Federal Specification RR-C-271 IVA, Class 2, Grade A, ASME B30.26 and EN 13889.
- Finish: Hot dip galvanized
- Temperature Range: -40°F (-40°C) to + 392°F (200°C)
- Certification: manufacturer, material, proof test and CE declaration of conformity available at no additional charge.
- Additional dimensional, tolerance information and CAD drawings are available on request.

BOLT ANCHOR SHACKLE SPECIFICATIONS

Work Load Limit	Diameter Bow	Diameter Pin	Diameter Eye	Width Eye	Width Inside	Length Inside	Width Bow	Overall Length	Length Bolt	Overall Width	Nut
Metric Tons	a inch	b inch	Not shown	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch
.50	0.25	0.31	0.66	0.28	0.47	1.16	0.78	1.91	1.66	1.34	0.16
.75	0.31	0.38	0.78	0.34	0.53	1.25	0.88	2.22	1.97	1.56	0.19
1	0.38	0.44	0.88	0.41	0.66	1.44	1.03	2.50	2.38	1.81	0.31
1.5	0.44	0.50	1.03	0.44	0.75	1.69	1.16	2.91	2.63	2.00	0.44
2	0.50	0.63	1.34	0.50	0.88	2.00	1.25	3.50	3.22	2.28	0.50
3.25	0.63	0.75	1.56	0.63	1.06	2.53	1.69	4.34	3.84	2.94	0.66
4.75	0.75	0.88	1.81	0.75	1.22	3.00	2.00	5.09	4.50	3.50	0.75
6.5	0.88	1.00	2.06	0.88	1.41	3.28	2.28	5.66	5.13	4.03	0.88
8.5	1.00	1.13	2.31	0.97	1.69	3.75	2.69	6.47	5.91	4.66	0.97
9.5	1.13	1.25	2.41	1.09	1.75	4.25	2.94	7.28	6.53	5.16	1.06
12	1.25	1.38	2.84	1.25	2.00	4.53	3.28	7.91	7.00	5.78	1.19
13.5	1.38	1.50	3.16	1.38	2.25	5.25	3.63	8.94	7.75	6.38	1.31
17	1.50	1.63	3.47	1.50	2.38	5.75	3.91	9.81	7.94	6.88	0.75
25	1.75	2.00	4.06	1.78	2.91	7.00	4.97	11.81	9.81	8.50	0.91
35	2.00	2.25	4.38	1.97	3.28	7.75	5.44	13.03	10.59	9.38	1.03
42.5	2.25	2.56	5.13	2.25	3.75	8.75	6.31	14.84	11.84	10.78	1.16
55	2.50	2.75	5.72	2.56	4.13	10.25	7.09	17.06	13.00	12.22	1.25
85	3.00	3.25	6.38	2.88	5.00	12.94	7.47	20.75	14.97	13.38	1.53

Alloy Super Shackles - Van Beest





G-5263

• Material: Bow and pin: Alloy steel, Grade 8, quenched and tempered.

- Design Factor: 5:1
- Standards: U.S. Federal Specification RR-C-271 IVA, Class 3, Grade B, ASME B30.26 compliant
- Finish: Hot dip galvanized (175 Ton are painted)
- Temperature Range: -4°F (-20°C) to + 392°F (200°C)
- Certification: manufacturer, material, proof test and CE declaration of conformity available at no additional charge.
- Additional dimensional, tolerance information and CAD drawings are available on request.

ALLOY SUPER SHACKLE SPECIFICATIONS

Work Load Limit	Diameter Bow	Diameter Pin	Diameter Eye	Width Eye	Width Inside	Length Inside	Width Bow	Overall Length	Length Bolt	Overall Width	Nut
Metric Tons	a inch	b inch	Not shown	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch
3.3	0.50	0.63	1.34	0.50	0.88	2.00	1.25	3.50	3.22	2.28	0.50
5	0.63	0.75	1.56	0.63	1.06	2.53	1.69	4.34	3.84	2.94	0.66
7	0.75	0.88	1.81	0.75	1.22	3.00	2.00	5.09	4.50	3.50	0.75
9.5	0.88	1.00	2.06	0.88	1.81	3.28	2.28	5.66	5.13	4.03	0.88
12.5	1.00	1.13	2.31	0.97	1.69	3.75	2.69	6.47	5.91	4.66	0.97
15	1.13	1.25	2.59	1.09	1.84	4.25	2.94	7.28	6.53	5.16	1.06
18	1.25	1.38	2.84	1.25	2.00	4.53	3.28	7.91	7.00	5.78	1.19
21	1.38	1.50	3.16	1.38	2.25	5.25	3.63	8.94	7.75	6.38	1.94
30	1.50	1.63	3.47	1.50	2.38	5.75	3.91	9.81	7.94	6.88	0.75
40	1.75	2.00	4.06	1.78	2.91	7.00	4.97	11.81	9.81	8.50	0.91
55	2.00	2.25	4.59	2.25	3.28	7.75	5.44	13.44	11.25	9.91	1.03
85	2.50	2.75	5.63	2.75	4.13	10.25	7.09	17.22	13.53	12.59	1.25
120	3.00	3.25	6.38	3.28	5.00	12.94	7.47	21.06	15.88	14.03	1.56
150	3.75	3.75	8.19	3.59	5.78	15.75	9.38	25.47	20.13	16.84	1.97
175	4.00	4.25	9.38	4.03	6.66	16.16	10.81	27.09	22.09	19.09	2.38





Wide Body Shackles - Van Beest



P-6033



• Material: Bow and pin: Alloy tensile steel, Grade 8, quenched and tempered.

- Design Factor: 5:1
- Finish Painted: Shackle bow-Silver, Shackle pin-Green
- Temperature Range: -4°F (-20°C) to + 392°F (200°C)
- Certification: manufacturer, material, proof test and CE declaration of conformity available at no additional charge.
- Additional dimensional, tolerance information and CAD drawings are available on request.

WIDE BODY SHACKLE SPECIFICATIONS

Work Load Limit	Diameter Bow	Diameter Pin	Diameter Eye	Width Eye	Width Inside	Length Inside	Width Bow	Overall Length	Length Bolt	Overall Width	Nut	Bearing Surface	
Metric Tons	a inch	b inch	Not shown	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch	l inch	9-
18	1.38	1.38	2.72	1.19	2.13	5.81	4.03	9.41	6.78	7.09	1.16	2.53	f h
30	1.56	1.66	3.53	1.38	2.72	6.50	4.97	10.97	8.16	7.88	1.34	3.13	P PP
40	2.16	2.00	4.28	1.78	3.31	7.84	5.50	13.03	9.91	9.25	1.50	3.81	UTUK,
55	2.38	2.25	4.53	2.16	3.53	9.44	6.31	15.31	11.56	10.63	1.78	3.94	
75	2.69	2.75	4.91	2.13	4.34	11.41	7.28	18.63	12.88	12.47	2.13	4.72	the Description
125	3.34	3.16	6.06	3.34	5.41	14.41	8.66	22.94	16.78	15.34	2.53	5.91	
150	3.69	3.75	7.06	3.50	5.78	15.41	9.97	25.41	17.13	17.09	1.97	6.69	
200	4.34	4.13	7.84	3.94	6.22	18.94	11.03	29.88	18.50	18.97	1.97	8.06	$\backslash \Psi /$
250	4.97	4.72	8.94	4.34	7.17	21.34	11.81	33.81	20.44	20.88	2.38	9.44	a
300	5.31	5.28	9.66	4.81	7.69	23.66	13.78	37.28	22.63	24.41	2.75	10.44	
400	6.31	6.31	11.53	5.72	9.09	22.69	14.56	38.78	26.56	27.16	3.16	12.59	
500	6.69	7.09	12.91	6.31	10.34	26.81	17.72	44.53	29.44	31.09	3.53	13.34	c

Lift-It[®] Manufacturing is the master distributor in the western United States for Van Beest. We are honored in our association with the fine people who make Van Beest an industry leader and we have made a large investment to stock their line of rigging hardware to ensure customer satisfaction.

Lower cost, extremely short lead times and uncompromising quality make our customers beneficiaries of the collaboration between Lift-It[®] and Van Beest.

A range of sizes and different types of rigging hardware are available for immediate shipment.

Orders placed before 12:00 PM PST ship the same day. Emergency orders ship 24/7/365!

- 1/2" to 3-1/2" 120 Ton Bolt Anchor Shackles 1/4" to 2-1/2" 55 Ton Screw Pin Anchor Shackles
- 40 to 200 Ton Wide Body Shackles
- 2-1/2" & 2-3/4" Jaw & Jaw Turnbuckles
- 1/2" to 3" 120 Ton Alloy Super Shackles
- 1" to 3" 75 Ton Wide Mouth Shackles

909.469.2251



Shackles - Crosby®

WIDE BODY SHACKLES

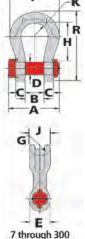
- Forged alloy steel for 7 through 300 metric tons
- "Wide body" design improves sling life.



G-2160

•	Increase in shackle bow radius provides a 58% increase
	in sling bearing surface and eliminates need for thimbles.

Working Load	Stock	Dimensions (Inches)										
Limit (Tons)	Number	А	B +/25	с	D +/02	E	G	н	J	к	Р	R
7	1021256	4.14	1.25	0.69	0.88	1.82	1.25	3.56	1.60	1.25	4.10	5.87
12 1/2	1021265	5.38	1.69	0.92	1.13	2.38	1.37	4.63	2.13	1.63	5.51	7.63
18	1021283	6.69	2.03	1.16	1.38	2.69	1.50	5.81	2.50	2.00	6.76	9.38
30	1021285	7.69	2.37	1.38	1.63	3.50	1.75	6.94	3.13	2.50	8.50	11.38
40	1021287	9.28	2.88	1.69	2.00	4.00	2.31	8.06	3.75	3.00	10.62	13.62
55	1021390	10.36	3.25	2.00	2.25	4.63	2.63	9.36	4.50	3.50	12.26	15.63
75	1021307	14.37	4.13	2.12	2.75	5.00	2.50	11.53	4.75	3.64	12.28	18.41
125	1021316	16.51	5.12	2.56	3.15	5.71	3.15	14.36	5.91	4.33	14.96	22.65
200	1021325	20.67	5.91	3.35	4.12	7.28	4.33	18.80	8.07	5.41	19.49	29.82
300	1021334	24.20	7.38	4.00	5.25	9.25	5.38	22.63	10.38	6.31	23.38	37.26



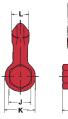
7 through 300 metric tons

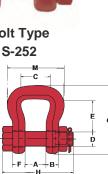
SYNTHETIC SLING SAVER SHACKLES

- Eliminates "bunching" effect caused by traditional shackles.
- · Increased bow radius allows better load distribution on load bearing fibers.



Bolt Type

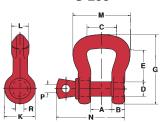




Bolt	Shackle	Screw Pin
Stock No.	Size (Inches)	Stock No.
1020485	1	1020575
1020496	1.5	1020584
1020507	2	1020593
1020518	3	1020602
1020529	4	1020611
1020540	5	1020620
1020551	6	1020629







Shackle Size	Work Load							Dimens	sions (lı	nches)					
(Inches)	Limit (Lbs.)	Α	В	С	D	E	F	G	н	J	К	L	М	N	Р	R
1	6,500	0.88	0.62	1.38	0.75	1.50	0.44	3.38	3.68	1.12	1.50	0.75	2.69	3.22	0.44	1.00
1.5	13,000	1.25	0.75	1.75	0.88	1.88	0.50	4.15	4.25	1.31	1.81	1.00	3.38	4.03	0.50	1.19
2	17,500	1.38	0.88	2.25	1.00	2.81	0.56	5.50	4.72	1.50	2.09	1.12	4.19	4.50	0.50	1.44
3	25,000	1.62	1.12	3.25	1.25	3.06	0.75	6.34	5.88	1.88	2.62	1.38	5.56	5.59	0.62	1.81
4	41,000	2.12	1.38	24.50	1.50	5.75	0.88	9.45	7.19	2.25	3.12	1.75	7.50	6.88	0.75	2.13
5	70,000	2.50	1.75	5.50	2.00	6.34	1.12	11.50	9.31	3.00	4.19	2.25	9.19	8.66	1.00	2.88
6	100,000	3.00	2.12	6.50	2.25	7.70	1.25	13.75	10.38	3.38	4.75	2.75	11.00	10.22	1.22	3.19

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www.lift-it.com

Wide Mouth Shackles - Van Beest



G-4263

- Material: Bow and pin: Alloy steel, Grade 8, quenched and tempered.
- Design Factor: 6:1
- Finish: Hot dip galvanized
- Temperature Range: -4°F (-20°C) to + 392°F (200°C)
- Certification: manufacturer, material, proof test and CE declaration of conformity available at no additional charge.
- Additional dimensional, tolerance information and CAD drawings are available on request.

WIDE MOUTH SHACKLE SPECIFICATIONS

Work Load Limit	Diameter Bow	Diameter Pin	Diameter Eye	Width Eye	Width Inside	Length Inside	Width Bow	Overall Length	Length Bolt	Overall Width	Nut
Metric Tons	a inch	b inch	C inch	d inch	e inch	f inch	g inch	h inch	i inch	j inch	k inch
4.75	0.88	1.00	2.06	0.88	2.47	4.41	3.47	6.81	6.19	5.19	0.91
6.5	1.00	1.13	2.31	0.97	2.94	5.31	4.13	8.03	7.16	6.09	0.97
8.5	1.13	1.25	2.59	1.09	3.22	5.81	4.53	8.84	7.91	6.72	1.09
9.5	1.25	1.38	2.84	1.25	3.53	6.38	4.97	9.75	8.53	7.47	1.22
12	1.38	1.50	3.13	1.38	3.94	7.09	5.50	10.78	9.44	8.28	1.92
16	1.50	1.63	3.47	1.50	4.19	8.50	6.25	12.56	9.75	9.25	0.75
25	1.75	2.00	4.06	1.78	5.00	9.75	6.88	14.56	11.66	10.44	0.94
30	2.00	2.25	4.66	1.97	5.75	10.75	8.16	16.19	13.31	12.09	1.06
55	2.50	2.75	5.72	2.56	6.50	12.38	8.38	19.19	15.31	13.50	1.31
75	3.00	3.25	6.53	2.94	7.25	13.00	10.00	20.88	17.00	15.91	1.56

Specialty Products



FOR THE WIND INDUSTRY

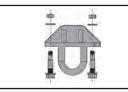
ADB, a leading manufacturer of Engineered Swivel Hoist Rings recognized the need to develop a handling system specifically for the erection of wind towers. Top and Bottom Tower Placement Rings make the Wind-Worker™ Tower Placement System "a breeze" to use as they eliminate sling binding and fit most towers.



WIND-WORKER™ TOOL CONSIDERATIONS

1-3/4" STUD ASSEMBLY

For 36 mm holes use 1-1/2" socket head cap screws. For 45 mm holes use 1-3/4" stepped studs as shown in the example, below.





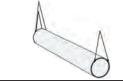
DIFFERENT STAGES OF THE LIFT

The following illustrations depict the tower and tools at various stages of the lift.





Note: The slings are positioned so they do not overlap.



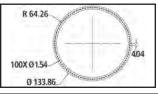






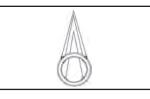
CUSTOMIZED UPON REQUEST

Wind-Worker[™] Tower Tools are designed to fit bolt patterns that are 11-3/4 to 16 in. (center-to-center). Custom sizes are available on request.



LOADING AND UNLOADING

For loading and unloading operations it is necessary to install both Top and Bottom Lifting Tools to avoid overlapping the slings.





Install Top Lifting Tools at the following positions: 10.5, 1.5, 4.5 and 8.5 O'clock.

Install Bottom Tools at the following positions: 10.5 and 1.5 O'clock.

AWARNING Always install a bolt or stud through a drilled hole before installation through the slotted side. This will keep the tool from sliding back and forth in the slot. Do not put fingers in holes or slots, under any circumstance. For aligning holes, ADB® recommends the use of a locating pin or similar tool.

Metric Swivel Hoist Rings - Actek®

A (RADIUS)

С

THREAD



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- All Actek hoist rings are proof tested to 200% of work load limit.
- Serialized for traceability.
- Swivels 360° Pivots 180°.
- Material: Aircraft quality alloy.
- Finish: Military specification back oxide.
- Design factor: 5:1
- Magnetic particle inspected.

- Certified heat treatment.
- Rated at 100% WLL from 0° to 90°.
- Fatigue tested to 20,000 cycles at 1-1/2 times work load limit.
- Meets or exceeds the requirements of ASME B30.26.
- Thread: Longer thread projection and fine thread are available.

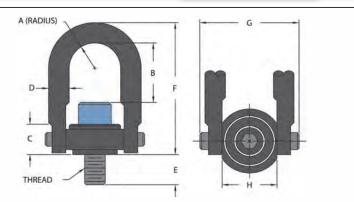
	Metric Hoist Swivel Ring Specifications (Millimeters)														
Work Load	Thread	А	с	D	E	Standa	ard U-B	ar	Lon	g U-Bar		G	н	Torque	
Limit (Lbs.)	Size				-	Stock No.	В	F	Stock No.	В	F	,		Ft./Lbs.	
400	M8x1.25	11	18	10	13	46912	32	68				47	25	9	
400	M8x1.25	11	18	10	18	46913	32	68				47	25	9	
500	M10x1.50	11	18	10	18	46916	30	68				47	25	16	
625	M12x1.75	11	18	10	23	49301	28	68				47	25	37	
1,050	M12x1.75	18	24	13	27	46608	48	96				66	38	37	
1,050	M12x1.75	22	30	19	19	46924	60	121	47124	110	171	89	51	37	
1,050	M14x2.00	22	30	19	29	46928	58	121	47128	108	171	89	51	40	
1,900	M16x2.00	22	30	19	24	46933	56	121	47126	106	171	89	51	80	
1,900	M16x2.00	22	30	19	29	46930	56	121	47130	106	171	89	51	80	
1,900	M18x2.50	22	30	19	29	46934	54	121	47134	104	171	89	51	90	
2,150	M20x2.50	22	30	19	29	46938	52	121	47132	102	171	89	51	135	
2,150	M20x2.50	22	30	19	34	46936	52	121	47136	102	171	89	51	135	
2,650	M22x2.50	22	30	19	39	49302	50	121	49351	100	171	89	51	311	
2,850	M24x3.00	22	30	19	39	49303	48	121	49353	98	171	89	51	311	
3,000	M20x2.50	36	43	25	27	46941	78	166	47140	118	206	131	76	135	
3,000	M20x2.50	36	43	25	32	46942	78	166	47142	118	206	131	76	135	
3,000	M22x2.50	36	43	25	37	46944	76	166	47144	116	206	131	76	135	
4,200	M24x3.00	36	43	25	32	46947	74	166	47146	114	206	131	76	311	
4,200	M24x3.01	36	43	25	37	46948	74	166	47148	114	206	131	76	311	
4,200	M30x3.50	36	43	25	58				46950	108	206	131	76	637	
5,000	M33x3.50	36	43	25	42	49304	65	166	49355	105	206	131	76	637	
5,000	M36x4.00	36	43	25	52	49305	62	166	49357	102	206	131	76	1085	
Dimensions are	subject to chan	ge witho	out notic	P											

Dimensions are subject to change, without notice.

Metric Swivel Hoist Rings - Actek®







			Me	tric Sv	vivel H	oist Ring Speci	fication	s (Millim	eters)					
Work Load	Thread Size			6	Е	Standa	ard U-Ba	ar	Long	U-Bar		6		Torque
Limit (Lbs.)	Inread Size	A	С	D	E	Stock No.	В	F	Stock No.	В	F	G	н	Ft./Lbs
7,000	M30x3.50	45	54	32	42	46956	106	222				165	95	15
7,000	M30x3.50	45	54	32	46	46955	106	222				165	95	15
7,000	M30x3.50	45	54	32	62	46958	106	222				165	95	15
7,000	M30x3.50	45	54	32	67	46957	106	222				165	95	15
7,000	M33x3.50	45	54	32	67	46960	103	222				165	95	15
8,500	M36x4.00	45	54	32	56	49306	100	222				165	95	16
9,000	M39x4.00	45	54	32	56	49307	97	222				165	95	17
9,250	M42x4.50	45	54	32	66	49308	94	222				165	95	18
9,500	M45x4.50	45	54	32	66	49309	91	222				165	95	18
9,500	M46x5.00	45	54	32	66	49310	90	222				165	95	18
10,000	M48x5.00	45	54	32	66	49311	88	222				165	95	18
10,000	M33x3.50	50	62	38	58	46961	140	259				189	109	23
10,000	M33x3.50	50	62	38	68	46962	140	259				189	109	23
11,000	M36x4.00	57	71	44	58	46963	166	317				217	124	35
11,000	M36x4.00	57	71	44	63	46966	166	317				217	124	35
11,000	M36x4.00	57	71	44	68	46964	166	317				217	124	35
12,500	M42x4.50	57	71	44	68	46965	160	317				217	124	36
12,500	M42x4.50	57	71	44	83	46968	160	317				217	124	36
13,500	M48x5.00	57	71	44	68	46980	154	317				217	124	38
13,500	M48x5.00	57	71	44	83	46970	154	317				217	124	38
13,500	M48x5.00	57	71	44	88	46979	154	317				217	124	38
13,500	M56x5.50	57	71	44	88	46973	154	317				217	124	38
14,500	M52x5.00	57	71	44	83	49312	150	317				217	124	42
15,500	M56x5.50	57	71	44	83	49313	146	317				217	124	42
16,500	M64x6.00	57	71	44	93	49314	138	317				217	124	42
22,300	M64x6.00	76	103	57	101	46972	204	428				271	165	86
24,500	M72x6.00	76	103	57	100	49315	196	428				296	165	92
26,500	M80x6.00	76	103	57	110	49316	188	428				296	165	92
31,500	M72x6.00	95	133	70	132	46988	220	495				359	206	165
31,500	M80x6.00	95	133	70	132	46989	200	495				359	206	165
33,000	M90x6.00	95	133	70	140	49317	200	495				359	206	280
33,000	M100x6.00	95	133	70	150	49318	200	495				359	206	280
44,600	M90x6.00	102	153	83	177	46990	235	561				404	218	260
44,600	M100x6.00	102	153	83	200	46994	235	561				404	218	260

Dimensions are subject to change, without notice.









909.469.2251

www.lift-it.com



Swivel Hoist Rings - Actek®

A (RADIUS)

THREAD



- All Actek hoist rings are proof tested to 200% of work load limit.
- Serialized for traceability.
- Swivels 360° Pivots 180°.
- Material: Aircraft quality alloy (180,000 PSI tensile strength, minimum).
- Finish: Military specification black oxide.
- Design factor: 5:1

- Magnetic particle inspected.
- Certified heat treatment.
- Rated at 100% WLL from 0° to 90°
- Fatigue tested to 20,000 cycles at 1-1/2 times work load limit.
- Meets or exceeds the requirements of ASME B30.26.
- Thread: Longer thread projection and fine thread are available.

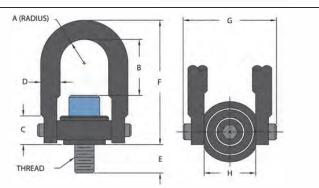
Swivel Hoist Ring Specifications (Inches)														
Work Load	Thread	А	с	D	Е	Standa	rd U-Ba	ar	Long	U-Bar		G	н	Torque
Limit (Lbs.)	Size	A	Ľ	U	E	Stock No.	В	F	Stock No.	В	F	G	п	Ft./Lbs.
600	1/4-20	0.43	0.71	3/8	0.54	46100	1.27	2.67				1.84	1.00	0.30
800	5/16-18	0.43	0.71	3/8	0.29	46102	1.27	2.67				1.84	1.00	0.30
800	5/16-18	0.43	0.71	3/8	0.54	46104	1.27	2.67				1.84	1.00	0.30
1000	3/8-16	0.43	0.71	3/8	0.54	46106	1.27	2.67				1.84	1.00	0.30
1250	7/16-14	0.43	0.71	3/8	0.79	46351	1.2	2.67				1.84	1.00	0.40
1500	1/2-13	0.43	0.71	3/8	0.79	46352	1.15	2.67				1.84	1.00	0.40
2000	7/16-14	0.70	0.93	1/2	1.07	46606	1.9	3.77				2.58	1.49	1.0
2500	1/2-13	0.70	0.93	1/2	1.07	46602	1.84	3.77	3.77			2.58	1.49	1.0
2000	7/16-14	0.88	1.22	3/4	0.78	46000	2.37	4.78	46638	4.34	6.72	3.52	1.99	2.6
2500	1/2-13	0.88	1.22	3/4	0.78	46008	2.31	4.78	46644	4.25	6.72	3.52	1.99	2.6
2500	1/2-13	0.88	1.22	3/4	1.03	46010	2.31	4.78	46646	4.25	6.72	3.52	1.99	2.6
2500	1/2-13	0.88	1.22	3/4	1.28	46012	2.31	4.78	46648	4.25	6.72	3.52	1.99	2.6
2500	9/16-12	0.88	1.22	3/4	0.78	46007	2.25	4.78	46651	4.19	6.72	3.52	1.99	2.6
4000	5/8-11	0.88	1.22	3/4	0.78	46002	2.18	4.78	46641	4.12	6.72	3.52	1.99	2.6
4000	5/8-11	0.88	1.22	3/4	1.03	46004	2.18	4.78	46640	4.12	6.72	3.52	1.99	2.6
4000	5/8-11	0.88	1.22	3/4	1.28	46006	2.18	4.78	46642	4.12	6.72	3.52	1.99	2.6
4000	5/8-11	0.88	1.22	3/4	1.53	46005	2.18	4.78	46643	4.12	6.72	3.52	1.99	2.6
5000	3/4-10	0.88	1.22	3/4	1.03	46014	2.06	4.78	46650	4	6.72	3.52	1.99	3
5000	3/4-10	0.88	1.22	3/4	1.53	46018	2.06	4.78	46654	4	6.72	3.52	1.99	3
6000	7/8-9	0.88	1.22	3/4	1.53	46353	1.94	4.78	41604	3.88	6.72	3.52	1.99	3
6500	1-8	0.88	1.22	3/4	1.53	46354	1.71	4.78	41606	3.75	6.72	3.52	1.99	3

Dimensions are subject to change, without notice.

Swivel Hoist Rings - Actek®







Work Load						Specifications Stand	ard U-Ba		Long	U-Bar				Torque
Limit (Lbs.)	Thread Size	Α	С	D	E	Stock No.	B	F	Stock No.	B	F	G	н	Ft./Lbs.
7,000	3/4 - 10	1.40	1.71	1	1.04	46204	3.06	6.52	46658	4.65	8.11	5.14	3.00	7
7,000	3/4 - 10	1.40	1.71	1	1.54	46206	3.06	6.52	46660	4.65	8.11	5.14	3.00	7
8,000	7/8 - 9	1.40	1.71	1	1.04	46202	2.93	6.52	46656	4.52	8.11	5.14	3.00	7
8,000	7/8 - 9	1.40	1.71	1	1.29	46203	2.93	6.52	46657	4.52	8.11	5.14	3.00	7
8,000	7/8 - 9	1.40	1.71	1	1.54	46205	2.93	6.52	46655	4.52	8.11	5.14	3.00	7
10,000	1 - 8	1.40	1.71	1	1.29	46210	2.81	6.52	46662	4.40	8.11	5.14	3.00	8
10,000	1 - 8	1.40	1.71	1	1.54	46212	2.81	6.52	46664	4.40	8.11	5.14	3.00	8
10,000	1 - 8	1.40	1.71	1	2.29	46214	2.81	6.52	46666	4.40	8.11	5.14	3.00	8
10,000	1-1/8 - 7	1.40	1.71	1	2.29	46216	2.69	6.52	46668	4.28	8.11	5.14	3.00	8
10,000	1-1/8 - 8	1.40	1.71	1	2.29	46217	2.69	6.52	46669	4.28	8.11	5.14	3.00	8
11,500	1-1/4 - 7	1.40	1.71	1	2.1	46355	2.44	6.52	41612	4.24	8.11	5.14	3.00	8
12,000	1-3/8 - 6	1.40	1.71	1	2.1	46356	2.31	6.52	41614	4.13	8.11	5.14	3.00	8
12,500	1-1/2-6	1.40	1.71	1	2	46357	2.19	6.52	41616	4.00	8.11	5.14	3.00	8
15,000	1-1/4 - 7	1.75	2.11	1 1/4	1.89	46802	4.12	8.73				6.50	3.76	14
15,000	1-1/4 - 8	1.75	2.11	1 1/4	1.89	46805	4.12	8.73				6.50	3.76	14
15,000	1-3/8 - 6	1.75	2.11	1 1/4	1.89	46806	4.06	8.73				6.50	3.76	15
15,000	1-3/8 - 8	1.75	2.11	1 1/4	1.89	46807	4.06	8.73				6.50	3.76	15
16,500	1-1/2 - 6	1.75	2.11	1 1/4	2.8	46359	4.02	8.73				6.50	3.76	16
17,000	1-5/8 - 5-1/2	1.75	2.11	1 1/4	2.8	46360	3.9	8.73				6.50	3.76	16
17,500	1-3/4 - 5	1.75	2.11	1 1/4	2.8	46361	3.77	8.73				6.50	3.76	16
18,000	1-7/8 - 5	1.75	2.11	1 1/4	2.8	46362	3.65	8.73				6.50	3.76	16
18,500	2 - 4-1/2	1.75	2.11	1 1/4	2.8	46363	3.52	8.73				6.50	3.76	16
20,000	1-3/8 - 6	2	2.4	1 1/2	2.5	46702	5.5	10.2				7.46	4.31	23
24,000	1-1/2 - 6	2.25	2.81	1 3/4	2.7	46404	6.41	12.47				8.55	4.87	34
24,000	1-1/2 - 8	2.25	2.81	1 3/4	2.7	46405	6.41	12.47				8.55	4.87	34
24,000	1-3/4 - 5	2.25	2.81	1 3/4	3.2	46408	6.16	12.47				8.55	4.87	34
24,000	1-3/4 - 8	2.25	2.81	1 3/4	3.2	46406	6.16	12.47				8.55	4.87	34
30,000	2 - 4-1/2	2.25	2.81	1 3/4	3.2	46400	5.91	12.47				8.55	4.87	36
30,000	2 - 8	2.25	2.81	1 3/4	3.2	46440	5.91	12.47				8.55	4.87	36
30,000	2-1/4 - 4-1/2	2.25	2.81	1 3/4	3.2	46431	5.66	12.47				8.55	4.87	40
30,000	2-1/4 - 8	2.25	2.81	1 3/4	3.2	46435	5.66	12.47				8.55	4.87	40
32,500	2-1/4 - 4-1/2	2.25	2.81	1 3/4	2.9	46364	5.86	12.47				8.55	4.87	40
35,000	2-1/2 - 4	2.25	2.81	1 3/4	3.9	46365	5.63	12.47				8.55	4.87	40
35,000	2-1/2 - 8	2.25	2.81	1 3/4	3.9	46368	5.63	12.47				8.55	4.87	40
50,000	2-1/2 - 8	3	4.09	2 1/4	4	47002	8.03	16.87				10.67	6.52	88
50,000	2-1/2 - 4	3	4.09	2 1/4	4	47006	8.03	16.87				10.67	6.52	88
50,000	2-3/4 - 4	3	4.09	2 1/4	4	47008	7.75	16.87				10.67	6.52	90
50,000	2-3/4 - 8	3	4.09	2 1/4	4	47010	7.75	16.87				10.67	6.52	90
55,000	2-3/4 - 4	3	4.09	2 1/4	4	46366	6.16	16.87				11.67	6.52	92
60,000	3 - 4	3	4.09	2 1/4	5	46367	6.16	16.87				11.67	6.52	92
75,000	3 - 4	3.75	5.27	2 3/4	5.25	47200	8.48	19.5				14.15	8.10	166
75,000	3 - 8	3.75	5.27	2 3/4	5.25	47202	8.48	19.5				14.15	8.10	166
80,000	3-1/2 - 4	3.75	5.27	2 3/4	5	46332	7.98	19.5				14.15	8.10	172
80,000	3-1/2 - 8	3.75	5.27	2 3/4	5	46334	7.98	19.5				14.15	8.10	172
100,000	3-1/2 - 4	4	6.06	3 1/4	7	47402	9.28	22.09				15.90	8.60	265
100,000	3-1/2 - 8	4	6.06	3 1/4	7	47406	9.28	22.09				15.90	8.60	265
250,000	6 - 4	6	14	5	9	47602	14	33				25.00	13.00	790

Dimensions are subject to change, without notice.

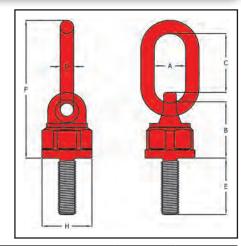


Actek[®] Ultra Lifting Ring

- ALL ULTRA LIFTING RINGS ARE PROOF TESTED
- SERIALIZED FOR TRACEABILITY
- EXTRA LARGE LIFT LUG ACCOMODATES MANY HOOK SIZES AND STYLES
- BALL BEARINGS PROVIDE SMOOTH SWIVELING AND PIVOTING
- SWIVELS 360° PIVOTS 180°
- MATERIAL: AIRCRAFT QUALITY ALLOY
- DESIGN FACTOR: 4:1
- MAGNETIC PARTICLE INSPECTED
- CERTIFIED HEAT TREATMENT

WARNING

See Important Safety, Use and Inspection Information that accompanies the product before use.



			STANDAR	D ULTRA LIFT	ING RING SP	ECIFICATIONS	6 (Inches)			
Stock Number	Work Load Limit (Lbs.)	А	В	с	D	E	F	н	Thread Size	Weight (Lbs)
44104	800	1-1/8	1-1/2	1-1/4	5/16	1/2	3.45	1.42	5/16"-18	.60
44106	1,000	1-1/8	1-1/2	1-1/4	5/16	1/2	3.45	1.42	3/8″-16	.60
44110	2,000	1-3/8	2-1/2	2-1/4	1/2	3/4	5.83	2.36	7/16"-14	2.6
44112	2,500	1-3/8	2-1/2	2-1/4	1/2	3/4	5.83	2.36	1/2″-13	2.6
44114	3,000	1-3/8	2-1/2	2-1/4	1/2	7/8	5.83	2.36	9/16"-12	2.6
44116	4,000	1-3/8	2-1/2	2-1/4	1/2	1	5.83	2.36	5/8"-11	2.6
44120	5,000	1-1/2	3	2-3/4	3/4	1-1/4	7.05	2.76	3/4"-10	5
44122	8,000	1-1/2	3	2-3/4	3/4	1-1/2	7.05	2.76	7/8"-9	5
44124	10,000	1-1/2	3	2-3/4	3/4	1-1/2	7.05	2.76	1″-8	5
44146	11,000	2	3-1/2	3-1/2	7/8	2	8.90	2.90	1-1/4"-7	9
44150	17,600	2	3-1/2	3-1/2	7/8	2-1/8	8.90	2.90	1-1/2"-6	9
44160	22,000	2-1/2	4	4-1/2	1	3	9.45	3.67	2"-4-1/2	14
44163	22,000	2-1/2	4	4-1/2	1	6	9.45	3.67	2"-4-1/2	17
44166	22,000	2-1/2	4	4-1/2	1	12	9.45	3.67	2"-4-1/2	22
44162	22,000	2-1/2	4	4-1/2	1	3	9.45	3.67	2″-8	14
44164	22,000	2-1/2	4	4-1/2	1	6	9.45	3.67	2″-8	17
44168	22,000	2-1/2	4	4-1/2	1	12	9.45	3.67	2″-8	22
44170	33,000	2-3/4	5-3/16	5	1-1/4	4	11.18	4.13	2-1/2"-4	24
44176	33,000	2-3/4	5-3/16	5	1-1/4	8	11.18	4.13	2-1/2"-4	30
44178	33,000	2-3/4	5-3/16	5	1-1/4	12	11.18	4.13	2-1/2"-4	35
44172	33,000	2-3/4	5-3/16	5	1-1/4	4	11.18	4.13	2-1/2"-8	24
44177	33,000	2-3/4	5-3/16	5	1-1/4	8	11.18	4.13	2-1/2"-8	30
44179	33,000	2-3/4	5-3/16	5	1-1/4	12	11.18	4.13	2-1/2"-8	35

Additional sizes available upon request.

Dimensions subject to change without notice.

METRIC ULTRA LIFTING RING SPECIFICATIONS (Millimeters)												
Stock Number	Work Load Limit (Kgs.)	Α	В	с	D	E	F	н	Thread Size	Weight (Lbs.)		
44302	400	28.57	38.1	31.75	7.94	12	87.63	36.06	M8x1.25	.60		
44304	500	28.57	38.1	31.75	7.94	19	87.63	36.06	M10x1.50	.60		
44310	1,050	35.05	63.5	57.15	12.7	20	148.08	59.94	M12x1.75	2.6		
44312	1,150	35.05	63.5	57.15	12.7	31	148.08	59.94	M14x2.00	2.6		
44314	1,900	35.05	63.5	57.15	12.7	31	148.08	59.94	M16x2.00	2.6		
44320	2,150	38.10	76.2	69.85	19.05	38	179.07	70.10	M20x2.50	5		
44322	2,250	38.10	76.2	69.85	19.05	38	179.07	70.10	M22x2.50	5		
44324	4,200	38.10	76.2	69.85	19.05	38	179.07	70.10	M24x3.00	5		
44346	5,000	50.8	88.9	88.9	22.22	50	226.06	73.66	M30x3.50	9		
44348	7,000	50.8	88.9	88.9	22.22	50	226.06	73.66	M33x3.50	9		
44350	8,000	50.8	88.9	88.9	22.22	54	226.06	73.66	M36x4.00	9		
44355	8,000	50.8	88.9	88.9	22.22	58	226.06	73.66	M39x4.00	9		
44360	10,000	63.5	101.6	114.30	24.4	63	240.00	93.21	M42X4.50	13		
44362	10,000	63.5	101.6	114.30	24.4	152	240.00	93.21	M42X4.50	15		
44363	10,000	63.5	101.6	114.30	24.4	304	240.00	93.21	M42X4.50	19		
44367	10,000	63.5	101.6	114.30	24.4	68	240.00	93.21	M45X4.50	14		
44365	10,000	63.5	101.6	114.30	24.4	68	240.00	93.21	M48X5.00	14		
44366	10,000	63.5	101.6	114.30	24.4	152	240.00	93.21	M48X5.00	17		
44364	10,000	63.5	101.6	114.30	24.4	304	240.00	93.21	M48X5.00	21		
44370	15,000	69.85	131.76	127	31.75	84	283.97	104.9	M56X5.50	22		
44376	15,000	69.85	131.76	127	31.75	203	283.97	104.9	M56X5.50	27		
44384	15,000	69.85	131.76	127	31.75	304	283.97	104.9	M56X5.50	31		
44372	15,000	69.85	131.76	127	31.75	90	283.97	104.9	M60X5.50	23		
44378	15,000	69.85	131.76	127	31.75	203	283.97	104.9	M60X5.50	28		
44386	15,000	69.85	131.76	127	31.75	304	283.97	104.9	M60X5.50	33		
44375	15,000	69.85	131.76	127	31.75	95	283.97	104.9	M64X6.00	24		
44380	15,000	69.85	131.76	127	31.75	203	283.97	104.9	M64X6.00	30		
44388	15,000	69.85	131.76	127	31.75	304	283.97	104.9	M64X6.00	35		

Additional sizes available upon request. Dimensions subject to change without notice.

Container Lifting Assemblies

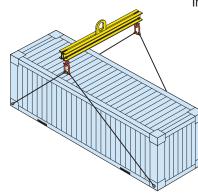


Lift-It[®] Container Lifting Assemblies provide efficiency in handling containers featuring a bottom lifting slot. Available in two models, Fixed and Adjustable, Container Lifting Assemblies are rated to handle 20 ft. and 40 ft. containers. Please provide container length, width, height, weight and location of center of gravity and we will determine the system that will be best suited for your application.

WARNING See Important Safety, Use and Inspection Information that accompanies the product before use.

FIXED ASSEMBLIES

Fixed Container Lifting Assemblies are used when the center of gravity is located at the center of the container. Includes:



- Lifting beam
- Two wire rope slings
- Four anchor shackles
- Four container lifting lugs

Stock
NumberContainer
SizeCLS-45-2020 Ft.CLS-45-4040 Ft.

ADJUSTABLE ASSEMBLIES

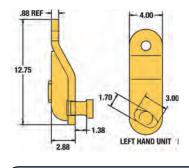
Adjustable Container Lifting Assemblies are used when the center of gravity is offset and not located at the center of the container. Includes:

- Lifting beam
- Two adjuster mechanisms with wire rope slings
- Four anchor shackles
- Four container lifting lugs

Stock Number	Container Size
CLSA-48-20	20 Ft.
CLSA-48-40	40 Ft.

CONTAINER LIFTING LUGS

- An efficient way to lift containers from bottom lifting slot.
- Handle indicator shows Lug is engaged for lifting.





TOP ADJUSTER MECHANISM

COMPONENT INFORMATION

- Allows the crane hook to be placed directly over the Center of Gravity.
- Quickly adjusts to the CG.
- Can be locked into place for repetitive lifts.

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Stock Number	WLL (Lbs.)		DIMEN Inches	WEIGHT (LBS.)	
Humber	(2001)	Α	В	С	(1991)
CTAM24	60,000	5-5/8	8-3/4	2-3/8	220

LIFTING LUG OPERATION

Align Lug with Container Fitting



Insert Lug into Container Fitting



Apply Tension and Indicator Shows Lug in Locked Position.





Can fail if damaged, misused or overloaded. Inspect before use. Use by untrained personnel is hazardous. OBSERVE AND DO NOT EXCEED WORK LOAD LIMIT. DEATH and INJURY can occur from improper use or maintenance.

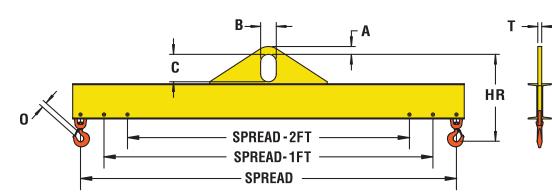
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www.lift-it.com



M20 & M20H - LOW HEADROOM MULTIPLE SPREAD BEAM



Red ORDER CODES denote M20 Beams. Available Options: A, B, C, D and E. Blue ORDER CODES denote M20H Beams (I Beam construction). Available options: A, F or G.

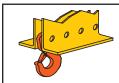
	M20 & M20H LIFTING BEAM SPECIFICATIONS											
CAPACITY	(O.C.) ORDER CODE		OU	TSIDE SPF	READ IN F	EET		DIME	NSIONS			
IN TONS	(H.R.) HEADROOM (In.) (WT.) WEIGHT (Lbs.)	14	16	18	20	24	30		:hes)			
1/2	O.C. H.R. WT.	20-1/2-14 14-3/4 230	20-1/2-16 15-3/4 305	20-1/2-18 16-3/4 400	20-1/2-20 16-3/4 450	20-1/2-24 20-1/4 830	20-1/2-30 22-1/4 1340	A= 7/8 B= 3 C= 5	T=3/4 O=7/8			
1	O.C. H.R. WT.	20-1-14 16-3/4 320	20-1-16 18-1/2 415	20-1-18 20-1/4 605	20-1-20 20-1/4 675	20-1-24 22-1/4 1095	20H-1-30 27-1/2 1500	A= 7/8 B= 3 C= 5	T=3/4 O=7/8			
2	O.C. H.R. WT.	20-2-14 20-1/4 480	20-2-16 20-1/4 540	20-2-18 24-3/4 800	20-2-20 24-3/4 900	20-2-24 27-3/4 1730	20H-2-30 27-1/2 1600	A= 7/8 B= 3 C= 5	T=3/4 O=7/8			
3	O.C. H.R. WT.	20-3-14 24-1/2 650	20-3-16 24-1/2 730	20-3-18 27-1/2 1295	20-3-20 27-1/2 1450	20-3-24 27-1/2 1765	20H-3-30 29-1/2 1900	A= 1-1/4 B= 3 C= 5	T=1 O=1			
5	O.C. H.R. WT.	20-5-14 27-1/2 690	20-5-16 30-1/4 1210	20-5-18 30-1/4 1340	20-5-20 30-1/4 1505	20-5-24 33-1/4 2275	20H-5-30 31-3/4 2310	A= 2 B= 4 C= 7	T=1-1/4 O=1-15/16			
7-1/2	O.C. H.R. WT.	20-7 1/2-14 30-1/4 1070	20-7 1/2-16 30-1/4 1210	20-7 1/2-18 33 1665	20H-7 1/2-20 34-3/4 1325	20H-7 1/2-24 34-3/4 1890	20H-7 1/2-30 35 2790	A= 2 B= 4 C= 7	T=1-1/4 O=1-1/2			
10	O.C. H.R. WT.	20-10-14 30-1/4 1075	20-10-16 33 1500	20-10-18 33 1670	20H-10-20 35-3/4 1465	20H-10-24 36 2075	20H-10-30 37-3/4 3150	A= 2 B= 4 C= 7	T=1-1/4 O=1-9/16			
15	O.C. H.R. WT.	20-15-14 40-1/4 1385	20H-15-16 41-1/2 1361	20H-15-18 41-3/4 1610	20H-15-20 42 1915	20H-15-24 43-1/2 2690	20H-15-30 42-1/4 4255	A= 2-1/2 B= 5 C= 9	T=1-1/2 O=2-1/16			
20	O.C. H.R. WT.	20H-20-14 45-3/4 1210	20H-20-16 46 1510	20H-20-18 46-1/4 1885	20H-20-20 48 2225	20H-20-24 48-1/2 3155	20H-20-30 49-1/4 5040	A= 2-1/2 B= 5 C= 9	T=1-1/2 O=2-1/4			
25	O.C. H.R. WT.	20H-25-14 54-3/4 1540	20H-25-16 55 1900	20H-25-18 56-3/4 2230	20H-25-20 59-3/4 2725	20H-25-24 60 3685	20H-25-30 60-3/4 5530	A= 3 B= 6 C= 12	T=1-3/4 O=2-1/4			
30	O.C. H.R. WT.	20H-30-14 56-1/2 1695	20H-30-16 56-3/4 2050	20H-30-18 62-1/4 2380	20H-30-20 62-1/2 2850	20H-30-24 63 4040	20H-30-30 68-3/4 5725	A= 3-1/2 B= 7 C= 16	T=2 O=2-1/4			
40	O.C. H.R. WT.	20H-40-14 66-1/4 2220	20H-40-16 68-3/4 2400	20H-40-18 69-1/4 3100	20H-40-20 72 3680	20H-40-24 75-1/4 4920	20H-40-30 78-1/2 6810	A= 3-1/2 B= 7 C= 16	T=2-1/2 O=3			

Other Sizes are available, contact us.

Dimensions and specifications are subject to change.

WARNING See Important Safety, Use and Inspection Information that accompanies

the product before use.



OPTION A Extra Holes or Different Placement of Holes. Allows multiple hook positioning beyond standard 3 spreads. Specify number and spread(s) required.



Faspins For ease of positioning hooks with quick release. Specify number required. Recommended for frequent hook position changes.



OPTION C Extra Hooks Allows for multiple pick points. Specify number required.



Pin Type Bail Lifting pin located between structural channel. (Hoist hook information must be supplied).



OPTION E Shackle Lug Lifting lug with shackle. (Headroom may change).

Lifting Beams



M32 – ADJUSTABLE SPREADER BEAM



TOP RIGGING OPTIONS

OPTION C (Depicted)

Chain top

hook.

rigging from

beam to crane

OPTION W

Wire Rope

hook.

rigging from

beam to crane

OPTION A

Top Rigging for

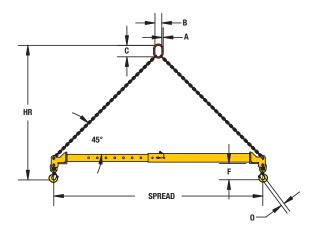
off center load

adjustment.

Adjust-A-Leg®

PRODUCT FEATURES:

- Ideal where headroom is not limited.
- Adds stability to the lift.
- Telescoping spread is standard.
- Available with standard chain or wire rope rigging. (You must specify Top Rigging).
- Available with Adjust-A-Leg[®] rigging for off center loads. (Minimum lifting capacity will be 10-15% of beam capacity).
- Swivel hooks with hook latch.
- Wide range of additional sizes and capacities available.
- Complies with ASME Standards.



			M32 - ADJUST	ABLE SPREA	DER BEAM S	PECIFICATIO	ONS			
CAPACITY IN TONS	ORDER CODE	SPREAD (Ft.) MIN./MAX.	HEADROOM MIN./MAX. With CHAIN (Inches)	WEIGHT BEAM & HOOKS (Lbs.)	LINK DIA. (Inches) A	LINK WIDTH (Inches) B	LINK HEIGHT (Inches) C	HOOK TO BEAM BOTTOM (Inches) F	HOOK OPENING W/LATCH (Inches) O	CHAIN RIGGING WEIGHT (Lbs.)
2	32-2-4/6 32-2-6/10 32-2-8/14 32-2-12/20	4 / 6 6 / 10 8 / 14 12 / 20	48 / 57 72 / 88 96 / 113 132 / 166	70 85 175 245	1/2 "	2.36	3.94	5.5	.97	9 13 17 23
5	32-5-4/6 32-5-6/10 32-5-8/14 32-5-12/20	4 / 6 6 / 10 8 / 14 12 / 20	55 / 64 79 / 95 102 / 126 138 / 172	105 160 205 670	1″	3.94	7.09	8.4	1.41	34 47 61 82
10	32-10-4/6 32-10-6/10 32-10-8/14 32-10-12/20	4 / 6 6 / 10 8 / 14 12 / 20	60 / 69 74 / 111 108 / 132 144 / 163	95 175 460 680	1-1/4"	5.38	10.83	10.6	1.78	49 69 88 118
15	32-15-4/6 32-15-6/10 32-15-8/14 32-15-12/20	4 / 6 6 / 10 8 / 14 12 / 20	64 / 72 87 / 104 111 / 135 147 / 180	165 365 478 700	1-1/2"	5.90	10.50	13.6	2.22	78 111 145 194

Note: Weight = Beam and Hooks only. The weight of the Top Rigging must be added for total fixture weight. Dimensions and Specifications are subject to change.

AWARNING See Important Safety, Use and Inspection Information that accompanies the product before use.



LB LEVER HOISTS—3/4 TO 9 TON CAPACITY

LB Series Lever Hoists offer low headroom and compact design that is ideal for use in tight guarters.

Regarded as the best lever hoist in the industry, the LB Lever Hoist is recommended for use in construction, mining, manufacturing, shipbuilding as well as in maintenance and repair operations.

Many Benefits and Features:

- · Rugged, all-steel construction that weighs less than comparable aluminum models.
- · Positive braking action with Weston-style load brake incorporating two moisture-resistant brake pads with four braking surfaces. Double brake pawls provide additional reliability.
- Protection against dirt and moisture with a totally enclosed brake mechanism.
- Longer service life with machined, heat-treated, split load double reduction gears.
- · Operate in close quarters with short steel handle and 15° recovery strokes.
- Patented, spring-loaded, freewheel mechanism permits easy load chain adjustment and safeguards against accidental freewheeling under load.
- Equipped with rubber grip for non-slip operation.

Capabilities to Count On:

- 5-foot lift is standard. 10, 15 and 20 foot lifts are also stocked; nonstandard lifts are available as well.
- Grade 100 heat-treated, manganese alloy load chain resists abrasion and wear while minimizing chain weight.
- · Forged, heat-treated alloy steel hooks, top and bottom, rotate 360°.
- Test certificate verifies that every Harrington Hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.21 requirements.



Harrington Hoist



LB LEVER HOISTS-3/4 TO 9 TON CAPACITY



		LB LEVE	R HOIST - S	PECIFICA	TIONS & I	DIMEN	ISION	S (Inche	es)			
	Capacity (Tons)	Stock Number	Headroom "C" (In.)	Std. Lift (Ft.)	Pull to Lift Load* (Lbs.)	"A"	"B"	"D"*	"E"	"F"	"G"	A
	3/4	LB008	11	5	54 (36)	5.7	4.7	9.6	3.8	1.6	1	
C C	1	LB010	11.8	5	72 (46)	5.7	4.7	(14.4)	3.8	1.6	1	
	1 1/2	LB015	13.2	5	64 (45)	6.3	5	3.9 10.4 (14.4)	3.9	1.5	1	(¥)
	2	LB020	14.8	5	59 (42)	6.8	5.9		1.8	1		
C C C C C C C C C C C C C C C C C C C	2 3/4	LB028	14.8	5	81 (57)	6.8	5.9		4	1.8	1	
	3	LB030	15.6	5	69	7.5	6.3		4.4	1.8	2	
Ţ	6	LB060	21.3	5	72	7.5	8.5	16.3 (16.9)	4.4	2.3	2	Ų
	9	LB090	26.8	5	78	7.5	12		4.4	4.1	3	

*Figures in parenthesis indicate specifications for hoists equipped with Load Limit Warning Handle option.



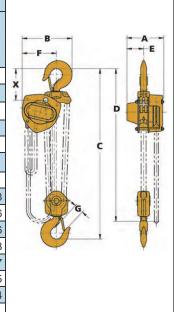
CB HAND HOISTS - 1/2 TO 100 TON CAPACITY

Harrington CB Hand Chain Hoists combine a rugged exterior shell with machined interior components to handle demanding lifting operations. An efficient drive train minimizes manual effort, while a double enclosed brake cover, slip clutch and double pawl springs enhance performance and reliability.

MANY BENEFITS AND FEATURES	CAPABILITIES TO COUNT ON
 Exceptional durability as a result of the all-steel construction, rugged gear case enclosure and hand wheel cover. 	 8 Ft. standard lift for hoists less than 10 ton WLL and 12 Ft. standard lift for 10 Ton and greater WLL units. Non-standard lifts and
 Increased lifting height due to low headroom. 	hand chain are also readily available.
 Compact design is lightweight and easy to handle. 	 Grade 100 heat-treated, manganese alloy load chain resists abrasion and wear while
 An efficient drive train results in minimum manual effort. 	minimizing chain weight.Forged, heat-treated alloy steel hooks, top
 Slip clutch device prevents the hoist from being used to lift loads beyond rated capacity. 	 Test certificate verifies that every Harrington
 Double pawl springs provide redundancy for reliable operation of the brake mechanism. 	Hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.16 requirements.
 Reliable braking with double enclosed brake cover that keeps out dust, rain and dirt. 	Boo. To requirements.



CB I	HAND CH	AIN HOIST	- SPECIF	ICATI	ONS &	DIME	NSIO	NS (In	ches))	
Capacity (Tons)	Stock Number	Headroom "C" (In.)	Std. Lift (Ft.)	"A"	"B"	"D"*	"E"	"F"	"G"	"X"	+
1/2	CB005	11.2		6.2	6.3	8	2.7	3.9	1.1	3.5	1
1	CB010	11.6		6.4	6.3	8	2.8	3.9	1.1	4	X
1 1/2	CB015	13.8		6.7	7.2	8	3.1	4.4	1.3	4.7	C
2	CB020	14.8	0	7.2	8	8	3.4	4.9	1.4	4.9	8
2 1/2	CB025	16.5	8	7.6	9.2	8	3.6	5.6	1.6	5.4	
3	CB030	20.1		6.7	9.3	8.3	3.1	6.4	1.7	5.8	i (iii)
5	CB050	23.6		7.6	11.1	10	3.6	7.6	1.8	6.8	<u> </u>
8	CB080	30.3		7.6	14.7	10.3	3.6	10	2.9	10.8	
10	CB100	29.9		7.6	17.2	14.9	4.4	12.1	2.9	11.6	W.
15	CB150	40.2		10.6	19.4	15.9	4.7	13.3	3.1	12.6	
20	CB200	46.5		14.7	29.4	16.3	7.4	14.7	3.2	13.8	
30	CB300	51.2	12	15.9	29.4	16.3	8	14.7	4.1	15.7	
40	CB400	58.3	12	19.8	29.9	16.6	9.9	15	4.1	17.5	
50	CB500	61.4		21.4	31.3	16.6	10.7	15.7	4.4	18.4	
80	CB800	100.8	2	29.9	55.2	15.9	13.8	27.6	5.1		
100	CB100	125.2		31.3	56.9	14.6	15.7	28.4	7.3		



Harrington Hoist



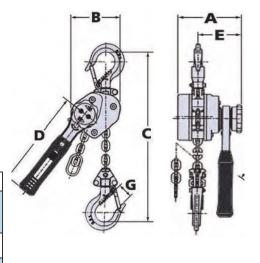
LX LEVER PULLER-1/4 AND 1/2 TON CAPACITY



Harrington LX Mini Pullers are lightweight, compact and built to perform. LX Mini Pullers fit conveniently in a toolbox and will easily handle pulling and moving jobs in many applications encountered in construction and plumbing activities.

- Durable die-cast aluminum body with steel frame is compact and lightweight.
- 5-foot standard lift, longer lifts are available for both models.
- Test certificate that verifies that every hoist has been factory load tested to 125% of rated capacity in accordance with ASME B30.21 requirements.

I	LX LEVER PULLER - SPECIFICATIONS & DIMENSIONS (Inches)											
Capacity (Tons)	Stock Number	Headroom "C" (In.)	Std. Lift (Ft.)	"A"	"B"	"D"*	"E"	"G"				
1/4	LX003	8.1	5	3.5	2.9	5.9	2.4	0.8				
1/2	LX005	9.7	5	3.9	3.7	7.1	2.7	0.9				



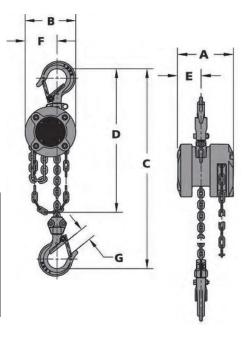
CX MINI HAND CHAIN HOIST - 1/4 TON CAPACITY



The Harrington CX Mini Hand Chain Hoist is the world's smallest industrial hoist. This uniquely compact and lightweight hoist is the perfect choice for jobs with light loads in high or difficult to reach places encountered in: duct installation, plumbing and heating, home, automobile, maintenance and crane repair activities.

- Durable die-cast aluminum body with steel frame is compact and lightweight.
- Available in 10 or 20 foot lifts.
- Test certificate verifies that every Harrington Hoist has been factory load tested to 125% of rated capacity in accordance with ASME B30.16 requirements.

CX MINI HAND CHAIN HOIST - SPECIFICATIONS & DIMENSIONS (Inches)									
Capacity (Tons)	Stock Number	Headroom "C"	Std. Lift	"A"	"B"	"D"*	"E"	"F"	"G"
1/4	CX003	8.5	10 Ft.	3.5	3.3	6.8	1.5	2.1	.80
1/4	CX005	8.5	20 Ft.	3.5	3.3	16.6	1.5	2.1	.80







CM Lodestar and Shopstar Wind Edition Hoists have been modified specifically for use as a service and maintenance hoist for wind turbines. Which unit is right for you?

Lodestar – When the load exceeds 550 pounds and faster speeds are critical. Upper and lower limit switches.

Shopstar – When the weight and size of the hoist is critical.

- Better control on long lifts; 2 speed motor (Lodestar).
- Precision machined and hardened liftwheel.

hts sty

- Rugged design to withstand the application.
- Heavy duty motor and Dual Braking system.

- No Special tools required to disassemble.
- Grease Lubrication.
- Readily available hoist parts and Lifetime Warranty.
- Overload protection.

LODESTAR HOIST



Lodestar Hoist Specifications			
Lift Height:	Exceeds 300 feet		
Capacities:	1/4 to 1 Ton		
Speeds:	Single speed standard (Two Speed Optional) Small frame Lodestar 32 fpm (32/10 fpm) Large frame Lodestar 64 fpm (64/21 fpm)		
Duty Cycle:	Exceeds ASME H4 rating		
Enclosure:	NEMA 3R		
Controls:	2 button, NEMA 4X enclosure 24V, 48V or 115V control voltage available		
Voltage:	230-460/3/60 Standard 575/3/60 available single phase, and 50Hz optional		
Suspension:	Hook, Lug or Trolley		
Load Chain:	Zinc plated CM Alloy load chain		
Standards:	Meets ASME/ANSI B30.16 CE and CSA compliant units available		

SHOPSTAR HOIST

Shopstar Hoist Specifications		
Lift Height:	Exceeds 300 feet	
Capacity:	550 lbs	
Speed:	Single speed - 20 fpm	
Duty Cycle:	Exceeds ASME H4 rating	
Enclosure:	NEMA 1	
Controls:	2 button, NEMA 4 24V, 48V or 115V control voltage available	
Voltage:	220/3/60, 230/3/60, 380/3/50 460/3/60, and 575/3/60 models	
Suspension:	Hook or Trolley	
Load Chain:	Zinc plated CM Alloy load chain	
Standards:	Meets ASME/ANSI B30.16 CE and CSA compliant units available	



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RIGGING

Shackles Sling Protection Spreader Bars & Lifting Beams Swivel Hoist Rings Synthetic Rope & Cordage Tag Lines NETS Cargo Nets: Rope & Web SLINGS Chain Roundslings **Specialty Slings** Synthetic Rope Twin-Path[®] Extra **UHMPE** Rope Slings Web Slings Wire Rope Slings WIND POWER Blade Tag Line Socks Gear & Travel Bags Nacelle Lifting Assemblies **Tool Lifting Bags** SAFETY EOUIPMENT Carabiners **Climbing Swivels** Descenders **Eye Protection Fall Arresters** Harnesses Lanyards **Rope Grabs Tool** Tethers SERVICES Calibration Inspection **Proof Testing & Certification** Repair Training

WARNING These materials are current through December 31, 2016. It is the user's responsibility to independently verify the accuracy of these materials and all cited standards and regulations if these materials are used or referenced after December 31, 2016.

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