

Pro-LIFT

Lifting & Rigging Hardware



RHINO

POLYESTER SLINGS



*When **Nothing**, But The **Best** Will Do!*

Protherm Engineering Pvt. Ltd. are the manufacturer of all kinds of Lifting and Lashing Equipment – of rope products, lifting slings, Chain Slings, Wire Rope Slings, Chain Hoists, Magnet Lifters, Lifting and Rigging products.

When your people, your project and your reputation are on line, you can't afford lifting and rigging equipment that don't measure up. You can trust our Lifting and Rigging products will live up to "EVERY LIFT, EVERY TIME".

Our Test Facilities are State-of-the-art. This provides us with up-to-date information to ensure that you are provided with products that conform to today's high standard.



We, at Protherm are proud to celebrate 20 years of establishment. We started as a small company to serve the growing demands of high quality Lifting and Rigging Products. Subsequently started manufacturing slings and rapidly grew to become one of the leading manufacturers in India.

From our factory in Faridabad in National Capital Region, just on border of Delhi, the Capital of India, we are serving all over India as well as catering to International markets.

In these 20 Years time, we have maintained our high quality levels and achieved customer satisfaction as high as required to serve the best. Protherm is an ISO 9001:2000 certified company and all our products meet international standards.

Warm Regards

Ratnesh DEWAN
Managing Director
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We, at Protherm understand that our customers depend upon us to supply top quality Lifting and Rigging Products. Protherm has a reputation with its customers that is second to none, that is why so many of them keep coming back to us for top quality products.

Our friendly sales team has vast experience in the lifting industry and can be contacted for any kind of sales advice. We shall feel honoured to help you find suitable products for your requirement.

Our Main aim being the "Highest Quality" at the "Most Competitive prices", so your every lift is safe as well as economical.

Warm Regards

Sanjeev SHARMA
Director – Technical
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PROTHERM is one of the leading manufacturer of Heavy Duty Polyester Webbing from High Tenacity Polyester Yarn and also manufacture Polyester Slings upto 30 tons capacity as per international standards.

We have latest Muller Power looms and equipment to manufacture High Quality Webbings and latest Sewing Machines including Computerised Sewing machines to supply consistent quality slings. We also have a State-of-the-art Computerised Test Bed to check the quality of slings on a regular basis.

POLYESTER WEBBING SLINGS

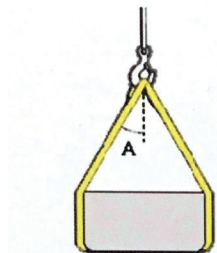
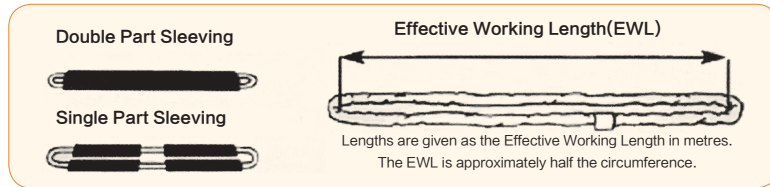
- four Varieties available – SIMPLEX / DUPLEX / TRIPLEX / QUADRAPLEX
- Wide & Flat load bearing surface
- Reinforced eyes at both ends for lifting
- Color Coded as per EN-1492-1
- Light Weight, Flexible and doesn't damage load

VERTICAL MODE-KGS 	CHOKER MODE-KGS 	BASKET MODE-KGS 	0-90 DEG. KGS 	91-120 DEG.-KGS 	WEBBING SLING Width(MM)			
					PSWS	PDWS	PWTS	PWQS
500	400	1000	700	500	25	–	–	–
1000	800	2000	1400	1000	50	25	–	–
2000	1600	4000	2800	2000	100	50	–	25
3000	2400	6000	4200	3000	150	75	50	–
4000	3200	8000	5600	4000	200	100	–	50
5000	4000	10000	7000	5000	250	125	75	–
6000	4800	12000	8400	6000	300	150	100	75
7500	6000	15000	10500	7500	–	–	125	–
8000	6400	16000	11200	8000	–	200	–	100
9000	7200	18000	12600	9000	–	–	150	–
10000	8000	20000	14000	10000	–	250	–	125
12000	9600	24000	16800	12000	–	300	200	–
15000	12000	30000	21000	15000	–	–	250	150
16000	12800	32000	22400	16000	–	–	–	200
18000	14400	36000	25200	18000	–	–	300	–
20000	16000	40000	28000	20000	–	–	–	250
24000	19200	48000	33600	24000	–	–	–	300

POLYESTER WEBBING SLING

How to order Webbing & Round Slings

- 1.Mention Lifting Capacity (Straight Vertical Lift)
- 2.Mention Effective Working Length
- 3.Mention requirement of Wear Protection Sleeve



SLING TO LOAD ANGLES:When slings are used at an angle, the sling capacity is reduced. How much it is reduced depends on the degree of the angle. You can determine whether a sling will be rated high enough if you know the angle between the sling leg and the vertical. Once you know this angle, multiply the sling's rating by the appropriate factor in the table. This will give you the sling's reduced rating.

SLING TO LOAD ANGLES

Leg Angle (A)	Load Factor to Multiply
0	1.0000
5	0.9962
10	0.9848
15	0.9659
20	0.9397
25	0.9063
30	0.8660
35	0.8192
40	0.7660
45	0.7071
50	0.6428
55	0.5736
60	0.5000
65	0.4226
70	0.3420
75	0.2588

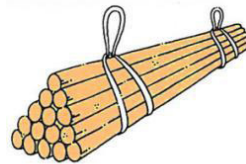
CHEMICAL COMPATIBILITY CHART

Substance	USE
Acids	*
Alcohol	OK
Aldehydes	OK
Strong Alkalies	**
Bleaching Agents	OK
Dry Cleaning Solvents	OK
Ethers	OK
Halogenated Hydrocarbons	OK
Hydrocarbons	OK
Ketones	OK
Oil,Crude	OK
Oil,Lubricating	OK
Soaps, Detergents	OK
Water, Sea Water	OK
Weak Alkalies	OK

* Disintegrated by Concentrated Sulfuric Acid

** Degraded by Strong Alkalies at elevated temperatures for specific temperature, concentration and time factors, please contact us.

ONE WAY SLINGS



PROTHERM offers one way slings as a economical solution for Industries to handle their products depending upon their production systems. One way sling can be used once the product is manufactured and till it reaches the destination of use.

It can be either ENDLESS or SIMPLEX sling depending upon the product that needs to be handled.

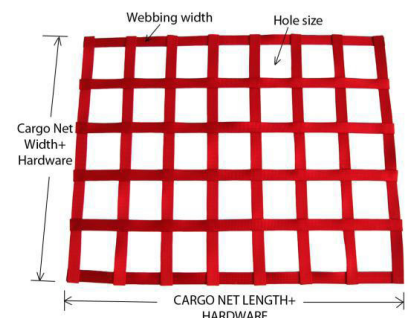
CARGO NETS



Cargo Nets find variety of applications in transportation. These are used to secure cargo in the Containers and to tie down loads onto the pallets.

These cargo nets are available in standard sizes. Also these can be customised as per the buyer's requirements.

HOW TO ORDER A CARGO NET

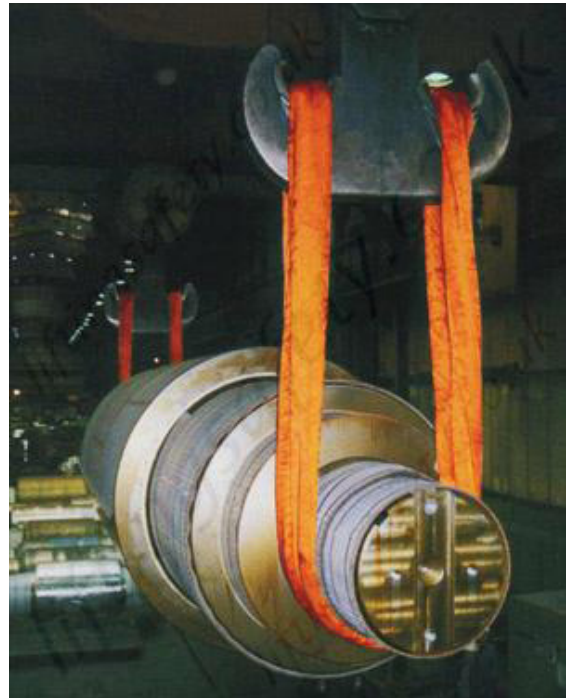


POLYESTER ENDLESS ROUND SLINGS

These slings are made using Yarn Hanks of High Tenacity Polyester covered with a Polyester seamless tubing for protecting the Core yarns. These slings are available up to 100 Tons lifting capacity and are most economical slings available.

The Outer cover has excellent abrasion resistance. Round slings are soft, light-weight and easy to handle and store. These are the most flexible slings available for lifting heavy loads.

Load bearing fibre at core never come in contact with the load and as the yarn hank inside has no joint, it is very reliable. Seamless cover offers no edge to wear out and round shape of sling helps to take shape of object being lifted.

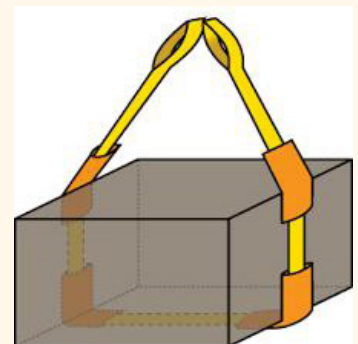
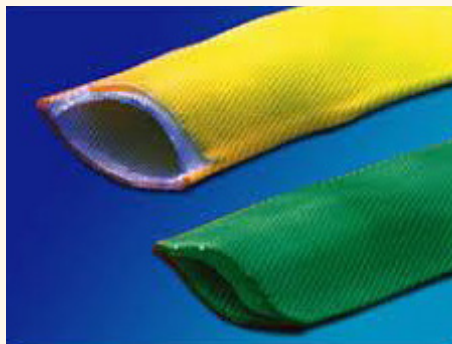


WEAR PROTECTION SLEEVES

Wear protection sleeves are used to protect synthetic slings from abrasions and cuts. Polyester Slings find wide range of applications in Abrasive and sharp edge environments.

ANTI ABRASIVE SLEEVES – These sleeves are made of Polyester yarns and used wherever protection from abrasive surfaces is needed. It is always recommended to use these sleeves to protect the slings.

ANTI CUTTING SLEEVES – These sleeves are made of Polyurethane (PU) or UHMPE Yarn [Dyneema®]. These sleeves offer excellent protection to slings from cuts from sharp edges of loads being lifted, hence proving better life of lifting slings.



HIGH PERFORMANCE UHMPE SLINGS

UHMPE Fiber surpasses the performance of Polyester and Nylon Fibers and offers a new dimension in Lifting by offering Slings with lifting capacities upto 500 Tons in lengths 0.5 mtrs to 65 mtrs.

Dyneema®, the World's strongest fiber™ offer excellent properties to offer a ultimate lifting sling.

Steel wire rope lifting slings – typically used for general purpose and engineered lifts as well as offshore oil, gas and wind farm installation – are reliable and strong. But they are also heavy, hard to handle, rough on loads, and always potentially dangerous.

Slings with Dyneema® offer the same strength at one-seventh the weight of steel ones. They are also easy to maintain, inspect, and repair, which increases uptime and cuts costs.

- Soft, flexible and safer for crew, loads, and structures
- Torque-free and similar elongation to steel wire rope
- Float in water and resistant to UV, chemicals, and salt
- Ultra high strength versus weight (15 times stronger than steel, like for like)
- Low elongation at break
- High resistance to abrasion, moisture, UV radiation, and chemicals
- Float on water
- Highly flexible
- High energy absorption
- Dyneema® also shows the highest impact strength of any thermoplastic.

It doesn't smell, doesn't taste of anything, and isn't toxic. It is self-lubricating and its friction coefficient is lower than nylon and comparable to that of polytetrafluoroethylene (PTFE, Teflon) – but with better abrasion resistance. And uniquely for a thermoplastic, it can conduct heat.

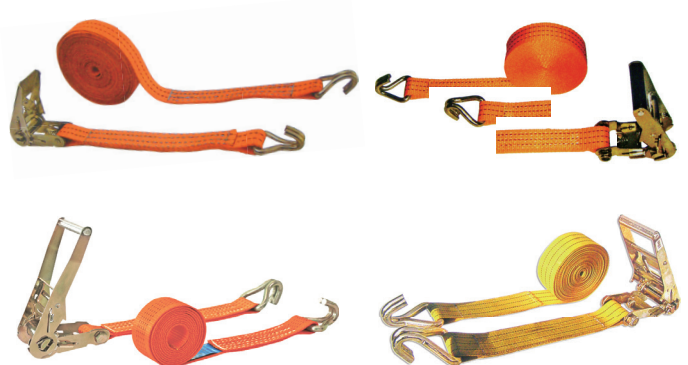


RATCHET LASHINGS & TIE DOWNS

Ratchet Lashing systems are widely used for tying down loads whilst transporting, shifting or moving them. These have replaced conventional ropes, chains and wire ropes, as ratchet Lashing systems offer a greater convenience of application, storage and are very economical.

The main advantages of Ratchet Lashing :

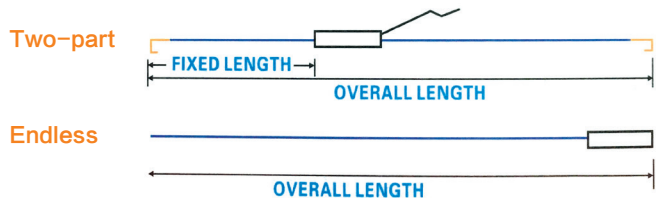
- Load restraint using a tensioning device (Ratchet)
- Effective and Safe Control of Loads whilst transportation
- Extremely quick and efficient tie down and release of load, thus time saving
- No damage to load being tied down



SIZE(mm)	BREAK STRENGTH(Kgs)
25	1,000
35	3,000
50	5,000
75	10,000

How to order Ratchet lashings

Having first selected the appropriate Minimum Break Strength, the lashing format must next be considered. There are two options that are Two-Part or Endless, with the possibility to specify the Fixed and Overall Length of a Two-Part lashing or the Overall Length of an Endless Lashing.



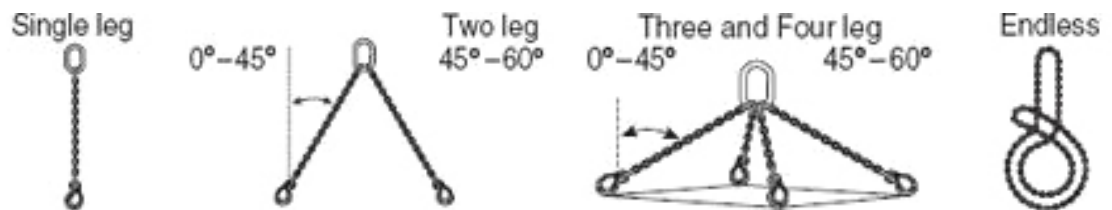
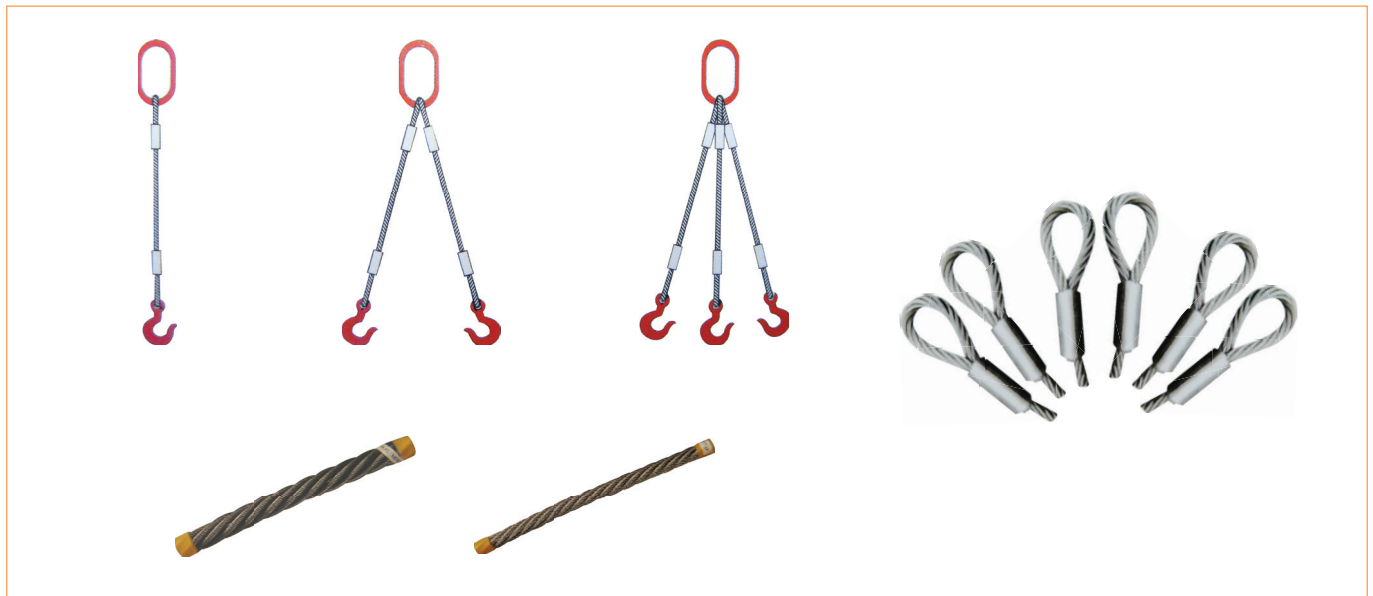
ONE WAY LASHINGS



One way lashing system uses disposable flexible lashing system, which has no sew component, so as to offer flexibility to use it onsite locations to tie down loads on to base, pallets or on to containers, where no standard length can be applied.

One way lashing is widely used in export shipments, as it is much economical than the conventional Ratchet buckle lashing assembly, which is sew on, and comes in standard lengths.



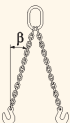
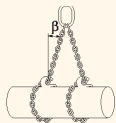

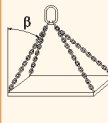





One way lashing consists of Polyester lashing webbing or composite straps with one way lashing buckle and tightening device. It is normally available in 13mm, 19mm, 25mm, 32mm, 40mm & 50mm width sizes.



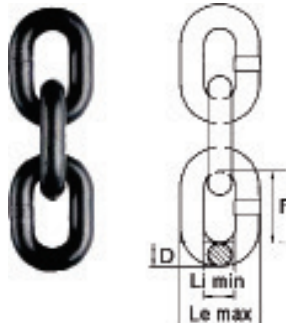
Rope Size	SINGLE LEG	TWO LEG		THREE&FOUR LEG		ENDLESS
MM	KGS	KGS	KGS	KGS	KGS	KGS
8	640	900	650	1350	960	1000
9	800	1100	800	1680	1200	1280
10	990	1400	1000	2100	1500	1600
11	1200	1700	1200	2500	1800	1900
12	1400	2000	1400	3000	2100	2300
13	1650	2300	1650	3500	2500	2700
15	2200	3100	2200	4600	3300	3500
16	2500	3500	2500	5300	3800	4000
18	3200	4500	3200	6700	4800	5200
19	3600	5000	3600	7600	5400	5800
20	4000	5600	4000	8400	6000	6400
22	4750	6700	4800	10000	7200	7600
24	5700	8000	5700	12000	8600	9200
28	7500	10500	7500	16000	11250	12000
30	8600	12000	8600	18000	13000	14000
32	9200	13600	9700	20400	14600	16000
36	12400	17400	12400	26000	18600	20000
38	13800	19500	14000	29000	20700	22000
40	15300	21500	15300	32000	23000	25000
44	18500	26000	18500	39000	28000	30000
48	22000	31000	22000	46000	33000	35000
52	25800	36000	25800	54000	38700	42000
56	33500	47000	33500	70500	50400	54000
60	38500	54000	38500	81000	58000	62000
64	44000	62000	44000	92500	66000	71000

Pro-LIFT® Steel Chain Slings


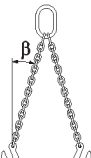

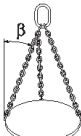
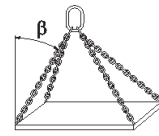

G100 Alloy STEEL CHAIN SLING

Safety factor	1-leg chains		2-leg chains				3- and 4-leg chains		Endless chain sling	Loop chains	
											
Angle of inclination	–	–	up to 45°	45° –60°	up to 45°	45° –60°	up to 45°	45° –60°	–	up to 45°	0° –45°
Load factor	1	0.8	1.4	1	1.12	0.8	2.1	1.5	1.6	1.4	2.1
Q	Load capacity [kg]										
6	1400	1120	2000	1400	1600	1120	3000	2120	2240	2000	3000
7	1900	1500	2650	1900	2120	1500	4000	2800	3000	2650	4000
8	2500	2000	3550	2500	2800	2000	5300	3750	4000	3550	5300
10	4000	3150	5600	4000	4250	3150	8000	6000	6300	5600	8000
13	6700	5300	9500	6700	7500	5300	14000	10000	10600	9500	14000
16	10000	8000	14000	10000	11200	8000	21200	15000	16000	14000	21200
19	14000	11200	20000	14000	16000	11200	30000	21200	22400	20000	30000
22	19000	15000	26500	19000	21200	15000	40000	28000	30000	26500	40000

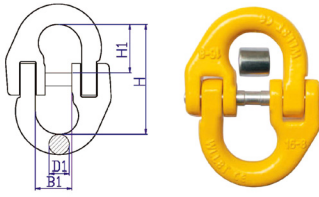
G80 Alloy STEEL CHAIN

	Chain		Tolerance			Tolerance			Weight	Working load limit	Breaking load
	D			P		Li/min.	Le/ max				
	mm	inch	mm	mm	mm	mm	mm	kg/m	kg	KN	
	6	1/4	± 0.24	18	± 0.5	7,8	22,2	0,8	1.120	45,2	
	7	9/32	± 0.28	21	± 0.6	9,1	25,9	1,1	1.500	61,6	
	8	5/16	± 0.32	24	± 0.7	10,4	29,6	1,4	2.000	80,4	
	10	3/8	± 0.40	30	± 0.9	13	37	2,2	3.150	126	
	13	1/2	± 0.52	39	± 1.2	16,9	48,1	3,8	5.300	212	
	16	5/8	± 0.64	48	± 1.4	20,8	59,2	5,7	8.000	322	
	18	11/16	± 0.90	54	± 1.6	23,4	66,6	7,3	10.000	407	
	20	3/4	± 1.00	60	± 1.8	26	74	9	12.500	503	
	22	7/8	± 1.10	66	± 2.0	28,6	81,4	10,9	15.000	608	
	26	1	± 1.30	78	± 2.3	33,8	96,2	15,2	21.200	849	
Safety factor 4:1											
32	1 1/4	± 1.60	96	± 2.9	41,6	118	23	31.500	1,290		

G80 Alloy STEEL CHAIN SLING

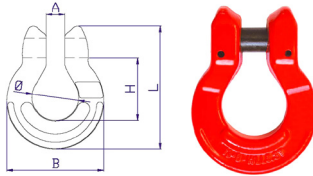
Chain	Single Legs	Double Legs		3-4-Legs		Endless sling chains
						
		0° < B ≤ 45°	0° < B ≤ 60°	0° < B ≤ 45°	0° < B ≤ 60°	
mm	kg	kg		kg		kg
6	1.120	1.600	1.120	2.360	1.700	1.800
7	1.500	2.120	1.500	3.150	2.240	2.500
8	2.000	2.800	2.000	4.250	3.000	3.150
10	3.150	4.250	3.150	6.700	4.750	5.000
13	5.300	7.500	5.300	11.200	8.000	8.500
16	8.000	11.200	8.000	17.000	11.800	12.500
18	10.000	14.000	10.000	21.200	15.000	16.000
20	12.500	17.000	12.500	26.500	19.000	20.000
22	15.000	21.200	15.000	31.500	22.400	23.600
26	21.200	30.000	21.200	45.000	31.500	33.500
32	31.500	45.000	31.500	67.000	47.500	50.000

G80 CONNECTING LINK



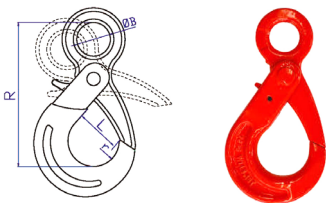
Product Code	Size(mm)	Dimensions(mm)				Capacity(Ton)	Weight(Kg)
		B1	D1	H1	H		
PL00106	6	15.2	7.5	18.5	45.5	1.12	0.10
PL00107	7	19.2	9.0	24.0	59.5	1.5	0.16
PL00108	8	19.5	9.3	24.5	62.0	5	0.20
PL00110	10	25.0	11.8	28.0	69.8	3.15	0.33
PL00113	13	30.0	15.0	36.5	89.0	5.3	0.68
PL00116	16	36.0	19.0	41.0	102.0	8	1.17
PL00118	18	40.5	21.0	40.5	110.5	10	1.45
PL00120	20	42.0	23.0	49.0	119.0	12.5	1.99
PL00122	22	49.0	24.5	63.0	152.5	15	3.08
PL00126	26	58.5	31.5	69.0	162.4	21.2	5.27

G80 OMEGA LINK



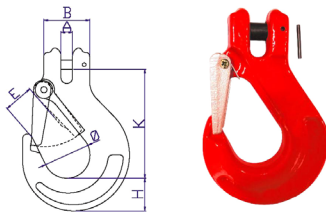
Product Code	Size(mm)	Dimensions(mm)					Capacity(Ton)	Weight(Kg)
		A	B	H	L	Q		
PL50206	6	8.0	41.0	25.5	52.0	20.5	1.12	0.12
PL50208	7/8	10.0	52.0	34.0	68.0	23.5	2	0.22
PL50210	10	12.0	62.0	40.5	81.0	31.5	3.15	0.36
PL50213	13	15.5	81.0	54.0	108.0	41.0	5.3	0.71
PL50216	16	19.0	99.0	64.0	126.0	47.5	8	1.30
PL50220	20	23.0	118.0	75.6	152.0	58.0	12.5	2.20

G80 EYE SELF LOCKING HOOK



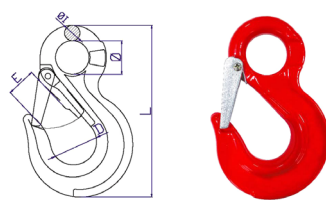
Product Code	Size(mm)	Dimensions(mm)				Capacity(Ton)	Weight(Kg)
		B	L	R	r		
PL00506	6	22.0	28.3	110.0	16.5	1.12	0.50
PL00508	7/8	24.8	33.7	132.0	21.0	2	0.86
PL00510	10	32.0	43.1	167.0	27.5	3.15	1.52
PL00513	13	40.0	50.9	204.0	33.6	5.3	3.15
PL00516	16	56.5	61.6	250.0	41.5	8	6.10
PL00520	20	62.6	84.0	269.0	48.0	12.5	8.10
PL00522	22	70.0	77.1	312.5	48.0	15	12.60
PL00526	26	80.5	97.1	362.0	53.4	21.2	21.90
PL00532	32	105.0	168.0	470.0	83.0	31.5	44.40

G80 CLEVIS SLING HOOK WITH LATCH



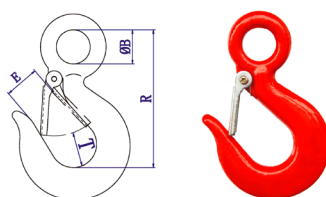
Product Code	Size(mm)	Dimensions(mm)						Capacity(Ton)	Weight(Kg)
		A	B	Q	H	K	E		
PL01006	6	9.0	35.0	27.0	20.5	74.0	21.0	1.12	0.32
PL01008	7/8	9.3	36.8	37.5	26.5	86.5	26.0	2	0.57
PL01010	10	12.4	46.6	44.5	33.5	104.0	30.0	3.15	1.20
PL01013	13	16.9	54.6	56.3	41.0	128.0	43.0	5.3	2.00
PL01016	16	21.5	70.5	63.5	49.5	157.0	47.0	8	3.70
PL01020	20	24.0	88.5	75.5	56.5	186.5	52.0	12.5	6.00
PL01022	22	28.0	90.0	98.0	63.0	205.0	68.0	15	10.40
PL01026	26	31.1	116.0	114.0	75.0	245.4	85.0	21.2	14.50
PL01032	32	35.0	150.0	140.0	88.0	317.0	106.0	31.5	27.00

G80 EYE SLING HOOK WITH LATCH



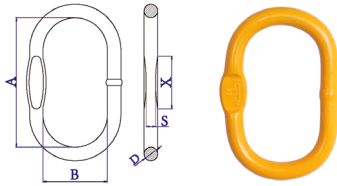
Product Code	Size(mm)	Dimensions(mm)					Capacity(Ton)	Weight(Kg)
		D	E	L	I	Q		
PL01106	6	32.4	25.0	107.0	9.0	20.0	1.12	0.30
PL01108	7/8	37.2	30.0	131.5	10.5	25.0	2	0.55
PL01110	10	43.8	32.5	167.0	16.0	38.0	3.15	1.15
PL01113	13	55.0	37.0	213.0	19.5	42.5	5.3	2.32
PL01116	16	68.9	42.0	256.0	23.0	50.0	8	3.45
PL01120	20	87.4	51.0	305.0	27.0	61.0	12.5	6.60
PL01122	22	98.0	72.0	344.0	33.0	68.3	15	11.00
PL01126	26	112.5	85.0	392.5	34.5	63.0	21.2	14.00
PL01132	32	140.0	106.0	480.0	37.0	88.0	31.5	17.00

EYE HOOK



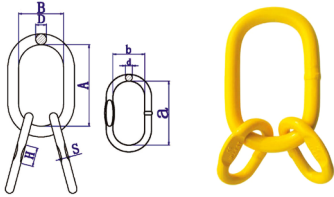
Product Code		Dimensions(mm)				Capacity(Ton)		Weight(Kg)
C.S.	A.S.	B	E	R	T	C.S.	A.S.	
PT00801	PT00851	16.0	20.5	71.1	16.5	1/2	3/4	0.18
PT00802	PT00852	19.0	21.0	81.7	20.0	3/4	1	0.25
PT00803	PT00853	23.0	23.0	93.0	21.3	1	1 1/2	0.41
PT00804	PT00854	28.4	24.5	103.8	21.3	1 1/2	2	0.59
PT00805	PT00855	31.8	26.5	118.9	27.5	2	3	0.93
PT00806	PT00856	39.6	33.5	146.6	36.0	3	4 1/2	1.77
PT00807	PT00857	50.8	38.0	188.5	46.0	5	7	3.25
PT00808	PT00858	61.9	48.0	230.0	53.8	7 1/2	11	5.90
PT00809	PT00859	73.0	57.0	257.7	58.0	10	15	10.15
PT00810	PT00860	89.0	74.0	316.0	65.0	15	22	16.25
PT00811	PT00861	90.0	98.0	255.9	75.0	20	30	27.20

G80 MASTER LINK WITH FLAT



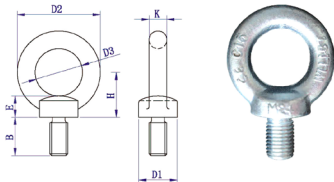
Product Code	Size(mm)		Dimensions(mm)					Capacity(Ton)	Weight(Kg)
	Single leg	Double leg	A	B	D	S	X		
PL50501	7	6	110±6	60±5	13±1	7	25.0	1.6	0.34
PL50502	8	7	110±6	60±5	16±1	7 ^{+0.3} _{-0.5}	25.0	2.12	0.54
PL50503	10	8	135±6	75±5	18±1	8 ^{+0.5} _{-0.5}	28.0	3.15	0.82
PL50504	13	10	160±6	90±5	22±1	11 ^{+0.5} _{-0.5}	35.0	5.3	1.50
PL50505	16	13	180±6	100±6	27±1	13±0.5	43.0	8	2.32
PL50506	18	16	200±6	110±6	32	17±0.5	55.0	11.2	3.95
PL50507	20	18	260±6	140±6	36 ^{+1.2} _{-1.2}	19±0.5	60.0	14	6.34
PL50508	22	20	300±6	160±6	40 ^{+1.2} _{-1.2}	20±0.5	64.0	17	8.96
PL50509	26	22	340±10	180±6	45 ^{+1.2} _{-1.2}	23±0.5	70.0	21.2	12.81
PL50510	32	26	350±10	190±6	50 ^{+1.2} _{-1.2}	26±0.5	83.0	31.5	16.55
PL50511	36	32	400±10	200±6	56 ^{+1.2} _{-1.2}	32±0.5	105.0	45	23.28
PL50512	40	36	430±10	220±7	63 ^{+1.2} _{-1.2}	36±0.5	116.0	56	32.00
PL50513	45	40	460±10	250±7	72±3	45±0.5	230.0	63	45.76

G80 MASTER LINK ASSEMBLY WITH FLAT



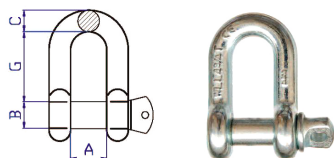
Product Code	Size (mm)	Weight (Kg)	Cap. (Ton)	A	B	D	a	b	d	S x H
PL50801	6	1.18	2.36	135±6	75±5	18±1	54±5	25±3	13±1	7 ^{+0.3} _{-0.5} × 25
PL50802	7	1.24	3.15	135±6	75±5	18±1	60±5	38±3	13±1	7 ^{+0.5} _{-0.5} × 25
PL50803	8	2.20	4.25	160±6	90±5	22±1	70±5	34±3	16±1	8 ^{+0.5} _{-0.5} × 28
PL50804	10	3.40	6.7	180±6	100±5	26±1	85±5	40±3	18±1	11±0.5 × 30
PL50805	13	6.10	11.2	200±6	110±6	32 ^{+1.2} _{-1.2}	115±6	50±3	22±1	13±0.5 × 43
PL50806	16	9.98	17.0	260±7	140±6	36 ^{+1.2} _{-1.2}	140±6	65±3	26±1	17±0.5 × 55
PL50807	18	18.90	21.2	340±10	180±6	45 ^{+1.2} _{-1.2}	180±6	100±6	32 ^{+1.2} _{-1.2}	18±0.5 × 59
PL50808	20	22.60	26.5	350±10	190±6	50 ^{+1.2} _{-1.2}	180±6	100±6	32 ^{+1.2} _{-1.2}	20±0.5 × 64
PL50809	22	25.20	31.5	350±10	190±6	50 ^{+1.2} _{-1.2}	180±6	100±6	36 ^{+1.2} _{-1.2}	-
PL50810	26	35.20	45	400±10	200±6	56 ^{+1.2} _{-1.2}	180±6	100±6	40 ^{+1.2} _{-1.2}	-
PL50811	28	47.00	50	430±10	220±7	63±3	180±6	100±6	45 ^{+1.2} _{-1.2}	-
PL50812	32	66.46	63	460±10	250±7	72±3	200±6	110±6	50 ^{+1.2} _{-1.2}	-

EYE BOLT (DIN 580)



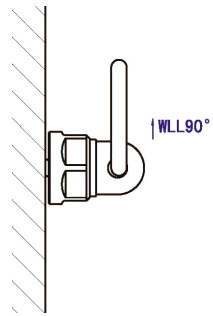
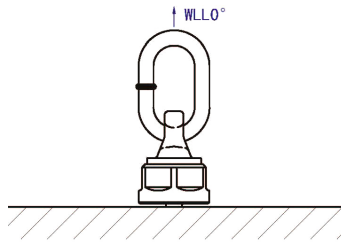
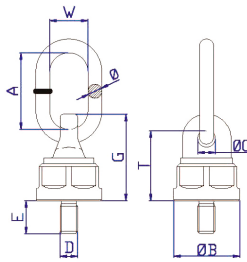
Product Code	Size(mm)	Dimensions(mm)							Cap.(T)	Cap.(T)	Weight (KG/PC)
		d1	d2	d3	b	e	h	k			
PT08301	M6	17.0	28.0	16.0	13.0	6.0	17.0	6.0	0.07	0.05	0.05
PT08302	M8	20.0	36.0	20.0	15.0	6.0	18.0	8.0	0.14	0.095	0.06
PT08303	M10	25.0	45.0	25.0	18.0	8.0	22.0	10.0	0.23	0.17	0.11
PT08304	M12	30.0	54.0	30.0	22.0	10.0	26.0	13.0	1.34	0.24	0.18
PT08305	M14	35.0	63.0	35.0	28.0	12.0	30.0	14.0	0.49	0.34	0.28
PT08306	M16	35.0	63.0	35.0	28.0	12.0	30.0	14.0	0.7	0.5	0.28
PT08307	M20	40.0	72.0	40.0	30.0	12.0	35.0	16.0	1.2	0.83	0.45
PT08308	M22	45.0	81.0	45.0	35.0	14.0	40.0	18.0	1.5	1.05	1.67
PT08309	M24	50.0	90.0	50.0	38.0	16.0	45.0	20.0	1.8	1.27	0.78
PT08310	M27	50.0	90.0	50.0	38.0	18.0	45.0	20.0	2.5	1.65	0.88
PT08311	M30	65.0	108.0	60.0	45.0	18.0	55.0	24.0	3.6	2.6	1.66
PT08312	M33	65.0	108.0	60.0	45.0	22.0	55.0	24.0	4.3	3.2	1.72
PT08313	M36	75.0	126.0	70.0	55.0	22.0	65.0	28.0	5.1	3.7	2.65
PT08314	M39	75.0	126.0	70.0	55.0	26.0	65.0	28.0	6.1	4.3	2.80
PT08315	M42	85.0	144.0	80.0	65.0	30.0	75.0	32.0	7	5	4.03
PT08316	M45	85.0	144.0	80.0	65.0	30.0	75.0	32.0	8	5.5	4.25
PT08317	M48	100.0	166.0	90.0	70.0	35.0	85.0	38.0	8.6	6.1	6.38
PT08318	M52	100.0	166.0	90.0	70.0	35.0	85.0	38.0	9.9	7.3	6.60
PT08319	M65	110.0	184.0	100.0	80.0	38.0	95.0	42.0	11.5	8.3	8.80
PT08320	M64	120.0	206.0	110.0	90.0	42.0	100.0	48.0	16	11	12.40

D SHACKLE (G-210)



Product Code	Size		Dimensions(mm)				Capacity(Ton)	Weight(Kg)
	Inch	mm	A	B	C	G		
PT05201	1/4	6	11.9	7.9	6.3	19.1	0.5	0.06
PT05202	5/16	8	13.5	9.6	7.8	25.4	0.75	0.10
PT05203	3/8	10	16.8	11.2	9.6	31.0	1	0.15
PT05204	7/16	11	19.1	12.7	11.2	36.1	1.5	0.22
PT05205	1/2	13	20.6	16.0	12.7	41.4	2	0.34
PT05206	5/8	16	26.9	19.1	16.0	51.0	3.25	0.67
PT05207	3/4	19	31.8	22.4	20.6	60.5	4.75	1.14
PT05208	7/8	22	36.6	25.4	24.6	71.5	6.5	1.74
PT05209	1	25	42.9	28.7	25.4	81.0	8.5	2.52
PT05210	1 1/8	29	46.0	31.8	31.8	91.0	9.5	3.45
PT05211	1 1/4	32	51.5	35.1	35.1	100.0	12	4.90
PT05212	1 3/8	35	57.1	38.1	38.1	111.1	13.5	6.24
PT05213	1 1/2	38	60.5	41.4	41.1	122.0	17	8.39
PT05214	1 3/4	45	73.0	51.0	54.0	146.0	25	14.20
PT05215	2	51	82.5	57.0	60.0	172.0	35	21.20
PT05216	2 1/2	63	105.0	70.0	66.5	203.0	55	38.60
PT05217	3	76	127.0	82.5	89.0	216.0	85	56.00

SWIVEL LIFTING POINT



Product Code	Size(D × E)	Dimensions(mm)							Capacity(Ton)		Weight(Kg)
		A	B	C	G	T	W	Q	90°	0°	
PL50308	M8 × 13	55.0	36.0	15.5	52.0	44.0	30.0	13.0	0.3	0.6	0.43
PL50310	M10 × 18	55.0	36.0	15.5	52.0	44.0	30.0	13.0	0.45	0.9	0.45
PL50312	M12 × 18	55.0	36.0	15.5	52.0	44.0	30.0	13.0	0.5	1	0.46
PL50316	M16 × 20	55.0	36.0	15.5	52.0	44.0	30.0	13.0	1.12	2	0.50
PL30520	M20 × 30	85.0	60.0	22.5	81.0	69.0	40.0	18.0	2	4	1.58
PL50324	M24 × 30	85.0	60.0	22.5	81.0	69.0	40.0	18.0	3.15	6.3	1.62
PL50330	M30 × 50	115.0	80.0	26.5	110.0	90.0	50.0	25.0	5.3	10.6	3.72
PL50336	M36 × 54	115.0	80.0	26.5	110.0	90.0	50.0	25.0	8	11.8	3.86
PL50342	M42 × 63	135.0	93.0	31.0	122.5	100.0	65.0	28.0	10	15	3.88
PL50348	M48 × 68	135.0	93.0	31.0	122.5	100.0	65.0	28.0	10	15	3.95
PL50356	M56 × 84	150.0	105.0	38.0	158.0	132.0	70.0	32.0	15	20	8.10
PL50364	M64 × 95	150.0	105.0	38.0	158.0	132.0	70.0	32.0	15	20	9.00
PL50372	M72 × 108	150.0	125.0	48.5	200.0	166.0	80.0	40.0	25	–	22.80
PL50380	M80 × 120	150.0	125.0	48.5	200.0	166.0	80.0	40.0	25	–	23.92

NOTE : PLEASE CONTACT US FOR SPECIAL THREAD SIZES (DIA OR LENGTHS) OF THIS LIFTING SWIVEL



CHAIN PULLEY BLOCKS (HOIST)

Model		PL-1C	PL-2C	PL-3C	PL-5C	PL-10C
Capacity	Ton	1	2	3	5	10
Lift	m	2.5	2.5	3	3	3
Test load	Ton	1.25	2.5	4	6.3	12.5
Min. distance between two hooks	mm	300	392	515	640	730
Chain pull to lift full load	n	340	340	390	420	450
No.of falls of load chain		1	1	2	2	4
Diameter of load chain	mm	6	8	8	10	10
Net weight	kg	10	14	24	36	68
Gross weight	kg	10.5	14.5	24.8	37.3	79
Packing measurement	cm	25 × 18 × 16	27 × 20 × 16	32 × 23 × 18	41 × 30 × 21	62 × 50 × 27
Extra weight per meter of extra lift	kg	1.7	2.5	3.7	5.3	9.7



LEVER CHAIN HOIST

Model		PL-0.75L	PL-1.5L	PL-3L	PL-6L
Capacity	Ton	0.75	1.5	3	6
Lift height	m	1.5	1.5	1.5	1.5
Net weight	kg	7	11	20	30
Lever length	mm	290	410	410	410
Diameter of load chain	mm	6	7.1	10	10
No.of load chain falls		1	1	1	2
Chain pull to lift full load	n	200	210	324	350
Test load	Ton	1	2	4	8
Min. distance between two hooks	mm	325	380	485	600

PERMANENT MAGNET LIFTER

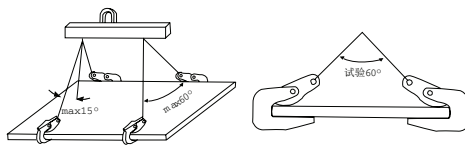
Model	Rated Lifting Weight(kgs)	Suspended steel plate thickness (mm)	Max. length of the steel plate(mm)
PL-100M	100	5-25	500
PL-400M	400	20-40	800
PL-600M	600	25-50	1000
PL-1000M	1000	40-80	1300
PL-2000M	2000	50-100	1800
PL-3000M	3000	60-120	2300
PL-5000M	5000	80-160	3000



HORIZONTAL LIFTING CLAMPS PDB TYPE



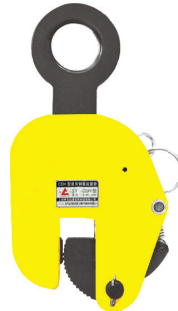
sketch map of the lifting



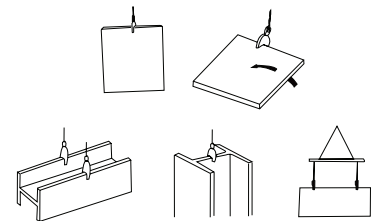
Art.NO.	WLL/Pair(t).	Steel plate Thickness(mm)
PDB1	1	0-30
PDB2	2	0-40
PDB3	3	0-45
PDB5	5	0-55
PDB8	8	0-80
PDB10	10	0-120

VERTICAL LIFTING CLAMPS CDH TYPE

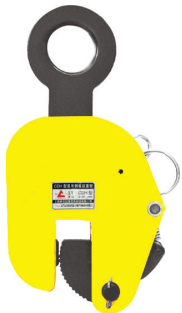
Art.NO.	WLL/Pair(t).	Steel plate Thickness(mm)
CDH1	1	0-20
CDH2	2	0-25
CDH3.2	3.2	0-35
CDH5	5	0-50
CDH8	8	0-60
CDH10	10	0-80



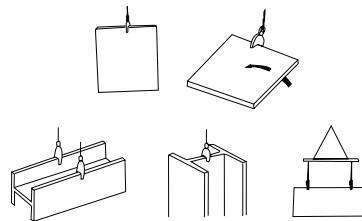
sketch map of the lifting



VERTICAL LIFTING CLAMPS CD TYPE



sketch map of the lifting



Art.NO.	WLL/Pair(t).	Steel plate Thickness(mm)
CD1	1	0-15
CD2	2	0-20
CD3.2	3.2	0-25
CD5	5	0-30
CD8	8	10-80
CD12	12	10-90

DRUM LIFTING CLAMPS

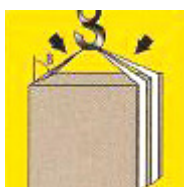
- Designed to lift steel drums with or without lids
- Clamp uses drum edge for lifting
- Compact and lightweight
- All steel construction



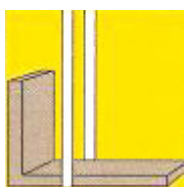
Recommendations for use



Check the weight of the load. Do not overload slings.



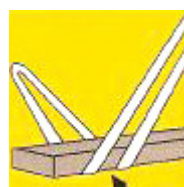
Take the slinging method and the lifting angle into account.



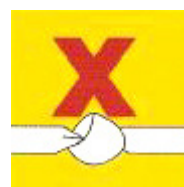
Remember to consider the centre of gravity of the load.



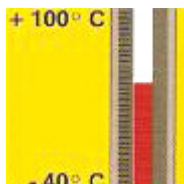
Never put slings on the point of hooks.



Protect slings from sharp edges.



Never tie knots.



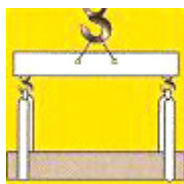
Use slings at temperatures between -40°C and $+100^{\circ}\text{C}$



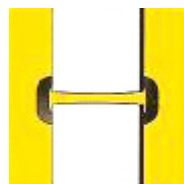
In the event of exposure to chemicals refer to the manufacturer's instructions



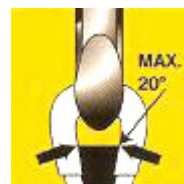
Take the dimension of the crane hook into account. If necessary, use a reducing hook.



Support the load along the whole length of lifting belts and slings.



Connect belts and slings together using suitable metal rings or loops only.

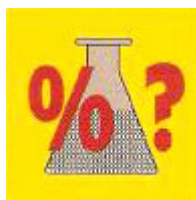


Maximum loop opening angle: 20° .

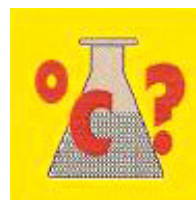
IMPORTANT: if the slings or belts should come into contact with chemicals, check the following factors



Type of chemical



Concentration



Temperature



Duration

INSTRUCTIONS FOR USE

Comply with the temperature conditions when using round or flat belt slings. When there are sharp edges and/or abrasive surfaces, polyester protective covers or sleeves must be used.

Storage : in a slightly heated room, away from moisture and sunlight. Do not dry near a fire or other heat source. Anchorage Point for Harnesses and Safety Belts to be always above the user.

DAMAGED PRODUCTS MUST BE WITHDRAWN FROM USE

A Few Words of CAUTION

Our products are sold with the understanding that the customer is completely familiar with their safe and proper use and application. There are numerous government and industry standards covering our products. It is critical that, as a minimum, the user follow all applicable guidelines. Failure of the product can occur due to misapplication, abuse or improper maintenance. This failure may result in property damage, personal injury, or death.

Ratings in this catalogue are based on new or "in as new" condition of the product. Rated capacity indicates the greatest load a product can carry under usual environmental conditions. Shock Loading and extraordinary conditions must be taken into account when selecting products.

Understanding WARRANTY

Seller warrants its products to be specified in Seller's Catalog. Any suggestion by Seller or Seller's agents regarding use, application or suitability of the products shall not be construed as a warranty unless confirmed to be such in writing by Seller. Any warranty, expressed or implied as to quality, performance, or fitness for use is always premised on the condition that the published rated capacities apply only to new and unused components and assemblies, that the mechanical equipment on which such products are used is properly designed and maintained, that such products are properly stored, handled, used and maintained, and properly inspected prior to each use. For Products not manufactured by the Seller, it extends Buyer the warranties of the manufacturer only.



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