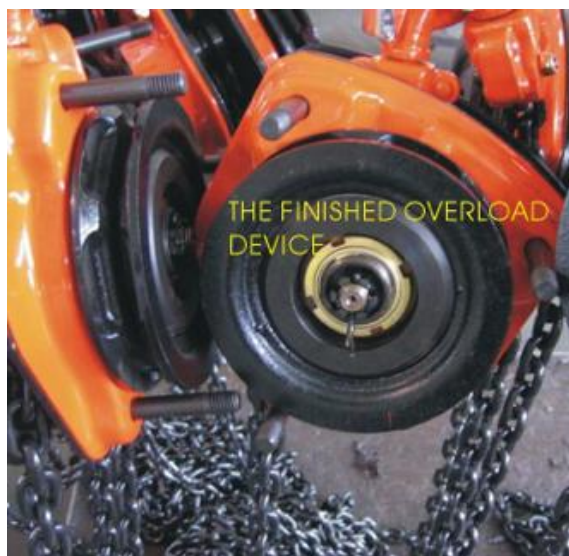


HOISTS & LIFTING ACCESSORIES

Manual Chain Blocks & Lever Pullers	134 - 149
Wire Rope Winches	150
Permanent Magnet Lifters	151 - 152
Trolleys & Beam Clamps	153 - 154
Vertical & Horizontal Plate Clamps.....	155 - 157
Cable Socks & Synthetic Rope Grabs.....	157 - 158
Drum Lifters.....	159



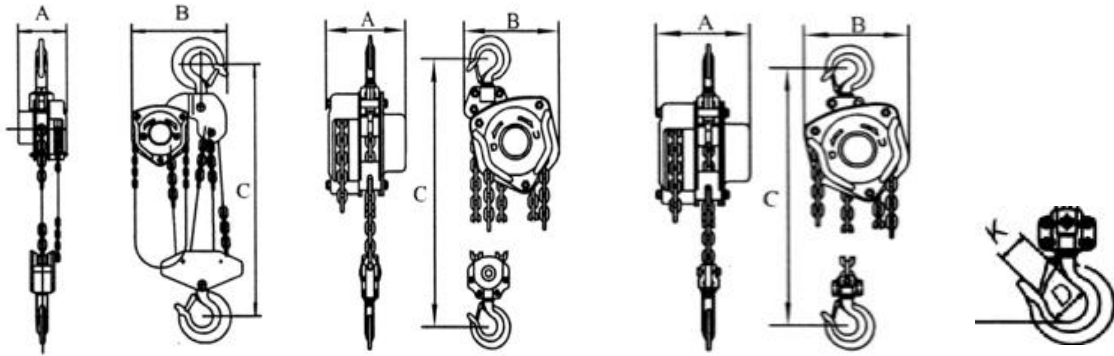
PRINCIPLE OF OVERLOAD PROTECTION

The principle of overload protection brake engagement is the same on both lever pullers and chain blocks. The unit has an adjustable friction disk when engaged produces a friction force between the disk and the hand wheel or lever. This is adjusted at the factory. Each unit is tested twice. The first is a normal proof load test, and the second load is used to set the friction disk brake engagement. For example on a 1.5 ton lever block, the block is pulled to 1.5 times the WLL, $1.5 \text{ ton} \times 1.5 = 2.25 \text{ ton}$ as a normal proof load test. The block is then taken to 1.3 times the WLL to set the friction brake. $1.5 \text{ ton} \times 1.3 = 1.95 \text{ ton}$. If the unit is taken above this load the friction disk will engage and the unit will not lift. Proof loading for this block would be $1.25 \times 1.5 \text{ ton} = 1.875 \text{ ton}$.

- Standard lift from stock 3 & 6 meter - "custom chain length available on request"
- Standard: EN 13157, ASME B30.16
- Identification: Trademark, Size/WLL, Date, Serial No.
- Finish: Painted Yellow



BLOCK - CHAIN HOIST, 619



WLL (t)		0.5	1	1.5	2	3	5	10	20
Part Number		6-0.5TCB3	6-1TCB3	6-1.5TCB3	6-2TCB3	6-3TCB3	6-5TCB3	6-10TCB3	N/A
Price 3 m (10 ft) of Lift	ea.	262.55	313.10	466.46	482.10	598.29	790.05	1,581.96	-
Part Number		6-0.5TCB6	6-1TCB6	6-1.5TCB6	6-2TCB6	6-3TCB6	6-5TCB6	6-10TCB6	6-20TCB6
Price 6 m (20 ft) of Lift	ea.	357.66	423.15	572.00	591.29	792.30	1,144.75	2,105.25	5,271.00
Number of falls		1	1	1	1	2	2	4	8
Dimensions (mm)	A	131	140	161	161	161	186	207	209
	B	127	158	174	187	199	253	398	625
	C	270	317	399	414	465	636	798	890
	D	35	35.5	45	42.5	50	64	85	110
	K	30	28	36	33.5	40	50	64	81
Net Weight / 3 m of lift	kg	10	12	19	20	27	45.5	83	173
Running test load	Kn	7.5	15	22.5	30	45	75	150	235.2
Effort to lift rated load	N	231	309	320	360	340	414	414	435X2
Load chain diameter	mm	6	6	8	8	8	10	10	10
Chain weight kg/m	kg	1.7	1.7	2.3	2.3	3.7	5.6	9.7	19.4

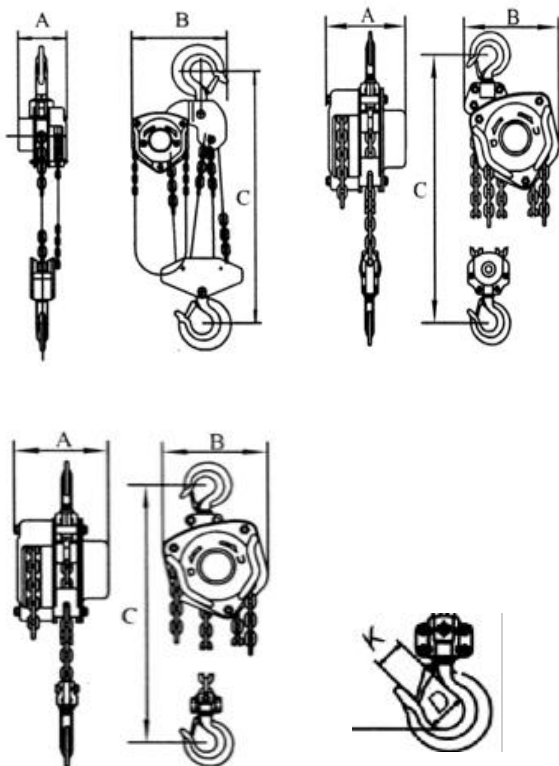
Rated in Metric Ton(s)

WARNING - Read and understand all warnings, maintenance, and operation instructions (supplied with every unit).

NON-OVERLOAD PROTECTION

- Marking: Rated load, Direction of motion, Name of Manufacturer, Manufacturer's model or serial number. Product safety/warning information
- Standard lift from stock 6 meter - "custom chain length available on request"
- Standard: EN 13157, ASME B30.16
- Finish: Painted Orange
- Identification: Trademark, Size/WLL, Date, Serial No.
- Rated in Metric Ton(s)

BLOCK - CHAIN HOIST, 619

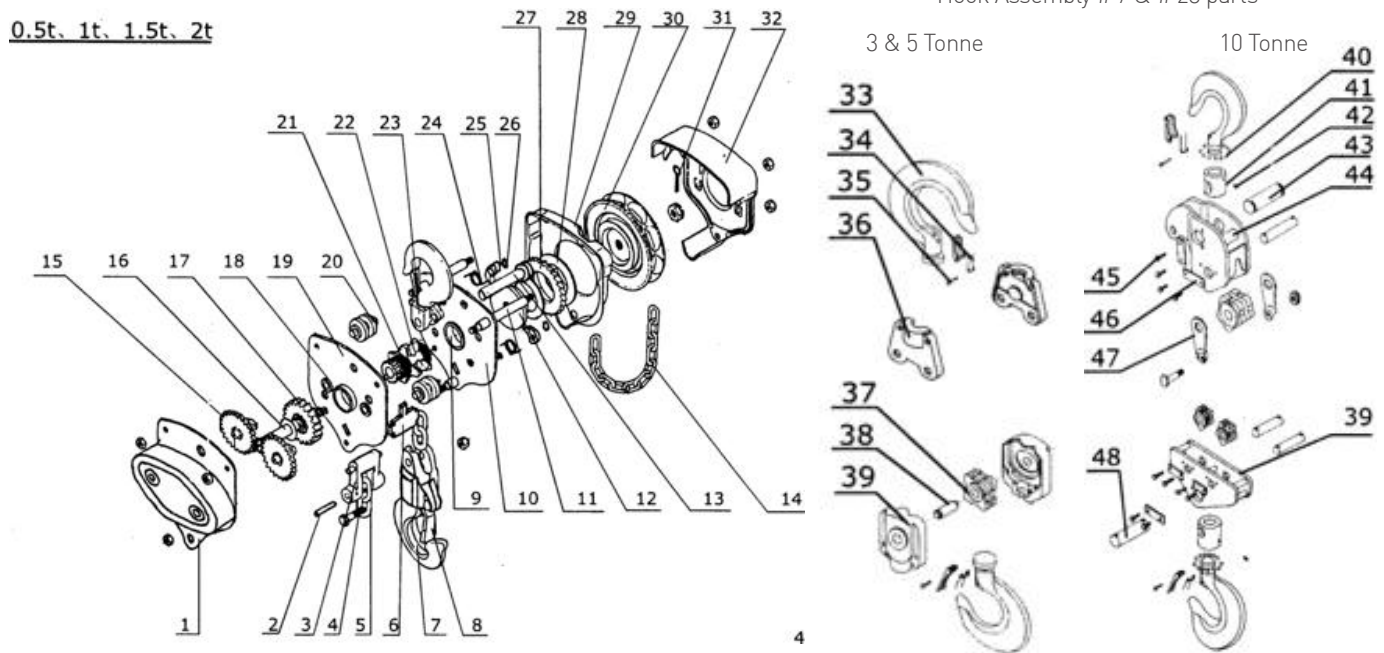


WLL (t)		1	1.5	2	3
Part Number		6-1TCB6-NOP	6-1.5TCB6-NOP	6-2TCB6-NOP	6-3TCB6-NOP
Price 6 m (20 ft) of Lift	ea.	375.15	467.50	521.97	716.15
Number of falls		1	1	1	2
Dimensions (mm)	A	140	161	161	161
	B	158	174	187	199
	C	317	399	414	465
	D	35.5	45	42.5	50
	K	28	36	33.5	40
Net Weight / 6 m of lift	kg	17	26	27	41
Running test load	Kn	15	22.5	30	45
Effort to lift rated load	N	309	320	360	340
Load chain diameter	mm	6	8	8	8
Chain weight kg/m	kg	1.7	2.3	2.3	4.6

WARNING - Read and understand all warnings, maintenance, and operation instructions (supplied with every unit).



CHAIN HOIST PARTS BREAKDOWN



Top and Bottom hook assembly sold as complete kit only

#	Description	#	Description	#	Description	#	Description
1	Bent plate	13	Hook pin	25	Pawl	37	Move wheel
2	End anchor pin	14	Hand chain	26	Spring ring	38	Move wheel pin
3	End anchor	15	Disk gear	27	Ratchet disk	39	Bottom hook frame
4	Chain pin	16	Driving shaft	28	Friction plate	40	Row
5	Load chain (sold/ft)	17	Splined gear	29	Brake cover	41	Hook frame bar
6	Stripper	18	Steel bushing	30	Hand wheel	42	Lock screw
7	Bottom hook as.	19	Right side plate	31	Cotter pin	43	Top hook pin
8	Safe clip	20	Guide roller	32	Hand wheel cover	44	Bunton
9	Bearing race	21	Roller	33	Hook	45	Screw
10	Left side plate	22	Load sheave	34	Spring	46	Stripper
11	Stay	23	Top hook assembly	35	Rivet	47	Sling plate
12	Brake seat	24	Double spring	36	Top hook frame	48	Bottom hook pin

AVAILABLE SPARE PARTS FOR CHAIN HOIST BLOCK 619

#	Description	1/2 t		1 t		1-1/2 t	
2	End anchor pin	1.48	6-0.5TCBEAP	2.06	6-1TCBEAP	2.47	6-1.5TCBEAP
4	Chain pin	9.20	6-0.5TCBCP	9.71	6-1TCBCP	12.18	6-1.5TCBCP
5	Load chain (\$/ft)	12.54	6-0.5-1TCBCH			18.65	6-1.5T-3TCBCH
7	Bottom hook as.	48.53	6-0.5TCBBHA	50.34	6-1TCBBHA	59.09	6-1.5TCBBHA
8	Safe clip	6.74	6-0.5TCBSC	6.74	6-1TCBSC	7.67	6-1.5TCBSC
13	Hook pin	8.50	6-0.5TCBHP	8.50	6-1TCBHP	12.18	6-1.5TCBHP
14	Hand chain	6.18	6-HAND CHAIN				
22	Load sheave	45.23	6-0.5&1TLS			59.11	6-1.5&2TLS
23	Top hook assem.	38.62	6-0.5TCBTHA	45.76	6-1TCBTHA	57.19	6-1.5TCBTHA
24	Double spring	2.89	6-0.5TCBDS	2.95	6-1TCBDS	3.71	6-1.5TCBDS
25	Pawl	7.32	6-0.5TCBP	7.33	6-1TCBP	12.18	6-1.5TCBP
26	Spring ring	2.50	6-0.5TCBSR	3.71	6-1TCBSR	4.86	6-1.5TCBSR
28	Friction plate	12.14	6-0.5TCBFP	12.18	6-1TCBFP	15.25	6-1.5TCBFP
31	Cotter pin	1.64	6-0.5TCBCP31	2.06	6-1TCBCP31	2.47	6-1.5TCBCP31

#	Description	2 t		3 t		5 t		10 t	
2	End anchor pin	2.47	6-2TCBEAP	3.62	6-3TCBEAP	3.62	6-5TCBEAP	3.62	6-5TCBEAP
4	Chain pin	12.18	6-2TCBCP	12.18	6-3TCBCP	12.18	6-5TCBCP	12.18	6-5TCBCP
5	Load chain (\$/ft)	18.65	6-1.5T-3TCBCH			36.13	6-5T-10TCBCH		
7	Bottom hook as.	75.96	6-2TCBBHA	108.04	6-3TCBBHA	181.98	6-5TCBBHA	427.36	6-10TCBBHA
8	Safe clip	8.57	6-2TCBSC	8.57	6-3TCBSC	10.72	6-5TCBSC	18.47	6-10TCBSC
13	Hook pin	12.18	6-2TCBHP	14.65	6-3TCBHP	24.34	6-5TCBHP	24.34	6-5TCBHP
14	Hand chain	6.18	6-HAND CHAIN						
22	Load sheave	59.11	6-1.5&2TLS			77.33	6-3&5TLS		
23	Top hook assem.	68.99	6-2TCBTHA	90.12	6-3TCBTHA	173.60	6-5TCBTHA	382.52	6-10TCBTHA
24	Double spring	3.71	6-2TCBDS	3.94	6-3TCBDS	3.94	6-5TCBDS	3.94	6-5TCBDS
25	Pawl	12.18	6-2TCBP	14.60	6-3TCBP	14.60	6-5TCBP	14.60	6-5TCBP
26	Spring ring	4.86	6-2TCBSR	4.86	6-3TCBSR	7.34	6-5TCBSR	7.34	6-5TCBSR
28	Friction plate	15.25	6-2TCBFP	18.47	6-3TCBFP	18.47	6-5TCBFP	18.47	6-5TCBFP
31	Cotter pin	2.47	6-2TCBCP31	3.30	6-3TCBCP31	3.30	6-5TCBCP31	3.30	6-5TCBCP31

Rated in Metric Ton(s)

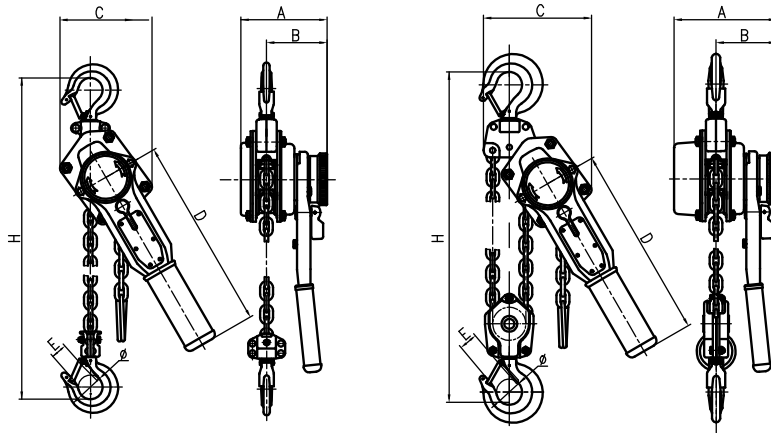
The Subsea Lever Hoist is our premium line hoist with the following advantages:

- The driving shaft is fixed by a simple support structure. The gear transmission is more stable and effective.
- The hand wheel is steel with higher strength and reliable operation. No preload required.
- The surface treatment of change over gear, brake seat, brake steel bushing and fused brake disc are Cr-free Dacromet (better corrosion resistance).
- Fused brake disc is a whole part and includes friction disk and ratchet. This provides exceptional performance and long life.
- The performance of our maintenance free bearing is close to rolling bearing with better corrosion resistance.
- The hooks are alloy steel and passed heat treatment.
- Compact and higher strength lever is suited for narrow space operation. The material of handle and sleeve is special elastomer.
- Higher strength and higher temperature resistance. Grade 80 load chain comes with Cr-free Dacromet finish. Brake seat and driving shaft are connected by involute splines, brake effect is higher and the parts are easily disassembled.
- Standard parts made of stainless steel.

LEVER HOIST - PULLER, 816

- Patented
- Standard: EN 13157, ASME B30.21
- Finish: Painted White
- Identification: Trademark, Size/WLL, Date, Serial No.
- Rated in Metric Ton(s)





WLL (t)		L3-1.5	L3-3	L3-6
Capacity	kg	1500	3000	6000
Part Number		6-1.5TSS-L3LP	6-3TSS-L3LP	6-6TSS-L3LP
Price		1,076.00	1,577.99	2,654.20
Lift	m	1.5	1.5	1.5
Test Load	kg	1875	3750	7500
Pull on lever to lift full load	N	295	380	390
No. of load chain falls		1	1	2
Diameter of load chain	mm	7 x 21	10 x 30	10 x 30
Min. distance between hooks	mm	400	460	600
Length of lever handle	mm	378	418	418
Dimensions mm	A	173	204	204
	B	99	114	114
	C	145	203	243
	Φ	42.5	55	65
	E	2.9	40	46
Net weight	kg	10.9	20.5	32

WARNING - Read and understand all warnings, maintenance, and operation instructions (supplied with every unit).

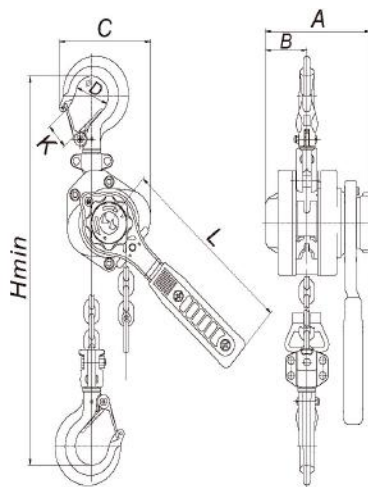
LIGHT WEIGHT ALUMINUM LEVER HOIST

The Light Weight Aluminum Lever Hoist is one of our premium line hoist with the following advantages:

- Aluminum Material, Light weight. Load chain sprocket made of heat treated alloy steel with precision machining. Chain guides provide smooth chain operation. Rubber grips used to prevent hand sliding during operation. Double regulating wheel structure and double pawl guarantee safe and reliable brake operation. Suitable for high altitude and small space operation. The existing brake separation technology can be quickly adjusted to a suitable working position. The hooks are alloy steel, heat treated and includes cast safety latch. Grade 80 load chain is accorded with EN818-7 standard. No overload protection.

LEVER HOIST - PULLER, HSH-AL, LIGHT WEIGHT ALUMINUM

- Patented
- Standard: EN 13157, ASME B30.21
- Finish: Aluminum
- Identification: Trademark, Size/WLL, Date, Serial No.
- Rated in Metric Ton(s)
- Standard lift from stock, "custom chain length available on request"



WLL (t)		0.25	0.5	0.75	1.5
Part Number		6-0.25TLPAL	6-0.5TLPAL	6-0.75TLPAL	6-1.5TLPAL
Price	ea.	254.75	269.20	430.29	511.75
Standard lift	m	1	1	1.5	1.5
Strands of load chain		1	1	1	1
Dimensions (mm)	A	94.5	100	126	142
	B	35	39	50	63.5
	C	84	99	110	133
	D	34	34	40	45
	H min	230	265	315	340
	L	163	163	208	238
	K	24	24	26	31
Net Weight per standard lift	kg	1.9	2.7	4.8	7
Running test load	kN	3.1	6.1	9.2	18.4
Force to lift rated load	N (kg)	206 (21)	255 (26)	303 (31)	362 (37)
Load chain diameter	mm	4	5	5.6	7.1
Chain weight kg/m	kg/m	0.36	0.55	0.68	1.2
Load Chain Part Number.		6-4X12LCH	6-5X15LCH	6-5.6X15.6LCH	6-7.1X19.9LCH
Price	ft.	18.90	14.75	14.75	23.50
Top Hook Assembly Part Number		6-0.25TTHA	6-0.5TTHA	6-0.75TTHA	6-1.5TTHA
Price	ea.	20.32	23.30	34.31	43.55
Bottom Hook Assembly Part Number		6-0.25TBHA	6-0.5TBHA	6-0.75TBHA	6-1.5TBHA
Price	ea.	22.00	26.39	39.58	46.63
Latch Kits Part Number		6-0.25TLK	6-0.5TLK	6-0.75TLK	6-1.5TLK
Price	ea.	3.08	3.08	3.52	4.40
Friction Disk Part Number		6-0.25TFDAL	6-0.5TFDAL	6-0.75TFDAL	6-1.5TFDAL
Price	ea.	7.92	7.92	8.79	8.79

PRINCIPLE OF OVERLOAD PROTECTION



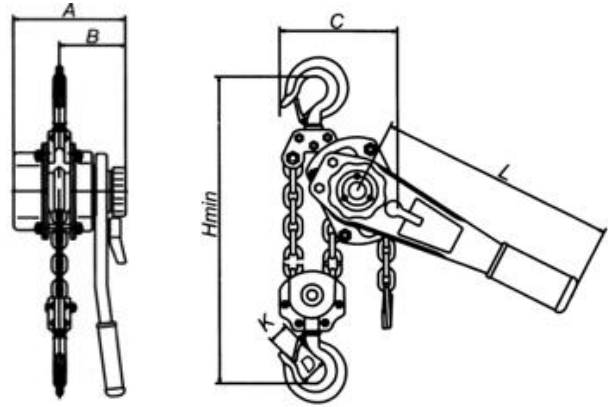
The principle of overload protection brake engagement is the same on both lever pullers and chain blocks. The unit has an adjustable friction disk when engaged produces a friction force between the disk and the hand wheel or lever. This is adjusted at the factory. Each unit is tested twice. The first is a normal proof load test, and the second load is used to set the friction disk brake engagement. For example on a 1.5 ton lever block, the block is pulled to 1.5 times the WLL, 1.5 ton x 1.5 = 2.25 ton as a normal proof load test. The block is then taken to 1.3 times the WLL to set the friction brake. 1.5 ton x 1.3 = 1.95 ton. If the unit is taken above this load the friction disk will engage and the unit will not lift. Proof loading for this block would be 1.25 x 1.5 ton = 1.875 ton.

- Standard lift from stock - 1.5 & 3 meter - "custom chain length available on request".



LEVER HOIST - PULLER, 622, OCEAN® BRAND®

- **Patented**
- Standard: EN 13157, ASME B30.21
- Finish: Painted Yellow
- Identification: Trademark, Size/WLL, Date, Serial No.
- Rated in Metric Ton(s)



WLL (t)		0.75	1.5	3	6	9
Part Number		6-0.75TLP	6-1.5TLP	6-3TLP	6-6TLP	6-9TLP
Price (1.5 m of Lift)	ea.	313.50	381.99	574.80	1,093.30	1,561.40
Part Number		6-0.75TLP3	6-1.5TLP3	6-3TLP3	-	-
Price (3 m of Lift)	ea.	336.00	417.35	768.92	-	-
Strands of load chain		1	1	1	2	3
Dimensions (mm)	A	148	172	200	200	200
	B	90	98	115	115	115
	C	136	160	180	235	320
	H	325	380	480	620	700
	L	280	410	410	410	410
	K	34	38	48	52	58
Net Weight / 3 m of lift	kg	7	11	21	31	46
Running test load	Kn	11.0	22.0	37.5	75.0	112.5
Force to lift rated load	N	140	220	320	340	360
Load chain diameter	mm	6	8	10	10	10
Chain weight kg/m	kg	0.8	1.4	2.2	4.4	6.6

WARNING - Read and understand all warnings, maintenance, and operation instructions (supplied with every unit).

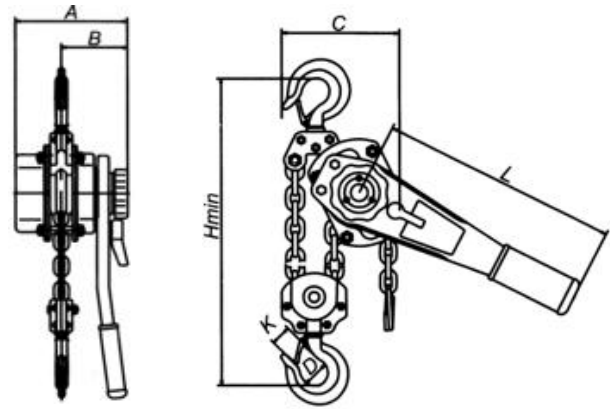
NON-OVERLOAD PROTECTION

- Marking: Rated load, Direction of motion, Name of Manufacturer, Manufacturer's model or serial number. Product safety/warning information
- Standard lift from stock - 3 meter - "custom chain length available on request"
- Lever Puller rated in Metric Ton = Tons of 1000kgs. (2200 pounds / 9.81kN)



LEVER HOIST - PULLER, 622

- **Patented**
- Standard: EN 13157, ASME B30.21
- Finish: Painted Orange
- Identification: Trademark, Size/WLL, Date, Serial No.
- Rated in Metric Ton(s)

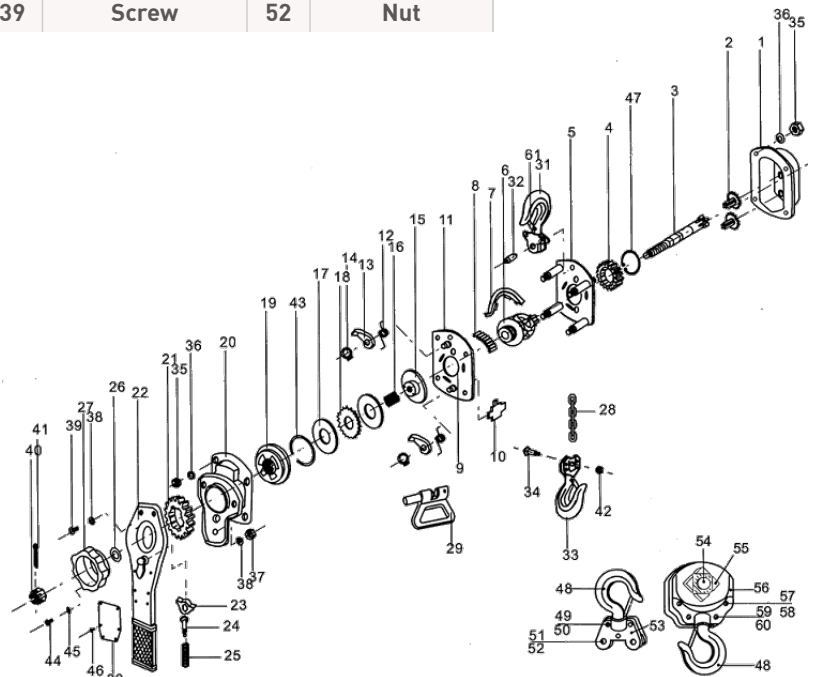


WLL (t)		0.75	1.5	3	6
Part Number		6-0.75TLP3-NOP	6-1.5TLP3-NOP	6-3TLP3-NOP	6-6TLPNOP
Price	ea.	305.45	360.95	562.80	993.95
Standard lift	m	3	3	3	1.5
Strands of load chain		1	1	1	2
Dimensions (mm)	A	148	172	200	200
	B	90	98	115	115
	C	136	160	180	235
	H	325	380	480	620
	L	280	410	410	410
	K	34	38	48	52
Net Weight / 3 m of lift	kg	7	11	21	31
Running test load	kN	11.0	22.0	37.5	75.0
Force to lift rated load	N	140	220	320	340
Load chain diameter	mm	6	8	10	10
Chain weight kg/m	kg	0.8	1.4	2.2	4.4

WARNING - Read and understand all warnings, maintenance, and operation instructions (supplied with every unit).

LEVER HOIST PARTS BREAKDOWN

#	Description	#	Description	#	Description	#	Description	#	Description
1	Gear assembly	14	Snap ring	27	Hand wheel	40	Castle nut	53	6t top hook frame
2	Disk gear assy.	15	Disk hub	28	Load chain	41	Split pin	54	Move wheel pin
3	Drive shaft	16	Free spring	29	Chain ring	42	Lock nut	55	Move wheel
4	Splined gear	17	Friction disk	30	Name plate	43	Wire snap ring	56	6t bottom hook frame
5	Gear side plate assy.	18	Ratchet disk	31	Top hook assy.	44	Screw	57	Nut
6	Load sheave	19	Female thread grip	32	Top hook shaft	45	Lock washer	58	Screw
7	Guide plate	20	Brake cover assy.	33	Bottom hook assy.	46	Rivet	59	Nut
8	Roller	21	Change over gear	34	Chain pin	47	Snap ring	60	Screw
9	Bearing race	22	Lever handle assy.	35	Hex nut	48	6t hook	61	Safe clip assembly
10	Stripper	23	Change over pawl	36	Lock washer	49	Nut		
11	Lever side plate assy.	24	Spring seat	37	Hex nut	50	Screw		
12	Pawl spring	25	Change over spring	38	Lock washer	51	6t pin		
13	Pawl	26	Bushing	39	Screw	52	Nut		



Available Spare Parts for Lever Hoist

#	Description	3/4 tonne		1-1/2 tonne		3 tonne		6 tonne	
6	Load sheave	38.26	6-0.75TLBLS	56.56	6-1.5TLBLS	108.49	6-3-6TLBLS	108.49	6-3-6TLBLS
12	Pawl spring	7.26	6-0.75TLBPS	9.20	6-1.5TLBPS	18.30	6-3TLBPS	18.30	6-3TLBPS
13	Pawl	9.49	6-0.75TPAWL	18.96	6-1.5TPAWL	23.75	6-3TPAWL	23.75	6-6TPAWL
14	Snap ring	2.47	6-0.75TLBSR	3.13	6-1.5TLBSR	4.62	6-3TLBSR	4.62	6-3TLBSR
16	Free spring	12.13	6-0.75TLBFS	19.39	6-1.5TLBFS	24.24	6-3TLBFS	24.24	6-3TLBFS
17	Friction disk	8.90	6-0.75TFD	14.84	6-1.5TFD	23.75	6-3TFD	23.75	6-6TFD
19	Female thread grip	21.92	6-0.75TLBFTG	27.37	6-1.5TLBFTG	36.50	6-3TLBFTG	36.50	6-3TLBFTG
20	Brake cover assembly	37.43	6-0.75TLBBCA	69.42	6-1.5TLBBCA	76.67	6-3TLBBCA	76.67	6-3TLBBCA
23	Change over pawl	12.78	6-0.75TLBCOP	18.13	6-1.5TLBCOP	27.37	6-3TLBCOP	27.37	6-3TLBCOP
24	Spring seat	5.52	6-0.75TLBSS	9.07	6-1.5TLBSS	9.07	6-3TLBSS	9.07	6-3TLBSS
25	Change over spring	5.44	6-0.75TLBCOS	9.07	6-1.5TLBCOS	9.07	6-3TLBCOS	9.07	6-3TLBCOS
26	Bushing	3.62	6-0.75TLBB	5.43	6-1.5TLBB	7.26	6-3TLBB	7.26	6-3TLBB
28	Load chain	12.54	6-0.5-1TCBCH	18.65	6-1.5T-3TCBCH	36.13	6-5T-10TCBCH	36.13	6-5T-10TCBCH
29	Chain ring	7.26	6-0.75TLBCR	14.51	6-1.5TLBCR	18.13	6-3TLBCR	18.13	6-3TLBCR
30	Name plate	7.26	6-0.75TLBNP	9.73	6-1.5TLBNP	12.18	6-3TLBNP	12.18	6-3TLBNP
31	Top hook assembly	42.52	6-0.75TLBTHA	51.95	6-1.5TLBTHA	97.94	6-3TLBTHA	239.40	6-6TLBTHA
32	Top hook shaft	12.18	6-0.75TLBTHS	19.39	6-1.5TLBTHS	29.18	6-3TLBTHS	29.18	6-3TLBTHS
33	Bottom hook assembly	46.54	6-0.75TLBBHA	71.68	6-1.5TLBBHA	97.81	6-3TLBBHA	236.94	6-6TLBBHA
34	Chain pin	7.26	6-0.75TLBCP	10.97	6-1.5TLBCP	14.60	6-3TLBCP	14.60	6-6TLBCP
35	Hex nut	3.62	6-0.75TLBHN	4.37	6-1.5TLBHN	4.37	6-3TLBHN	4.37	6-3TLBHN
36	Lock washer	0.83	6-0.75TLBLW	1.24	6-1.5TLBLW	1.49	6-3TLBLW	1.49	6-3TLBLW
37	Hex nut	3.62	6-0.75TLBHNN	4.37	6-1.5TLBHNN	4.86	6-3TLBHNN	4.86	6-3TLBHNN
38	Lock washer	0.83	6-0.75TLBLW38	1.24	6-1.5TLBLW38	1.49	6-3TLBLW38	1.49	6-3TLBLW38
39	Screw	2.06	6-0.75TLBS	2.47	6-1.5TLBS	3.22	6-3TLBS	3.22	6-3TLBS
40	Castle nut	2.47	6-0.75TLBCN	4.86	6-1.5TLBCN	7.26	6-3TLBCN	7.26	6-3TLBCN
41	Split pin	1.24	6-0.75TLBSP	2.06	6-1.5TLBSP	2.47	6-3TLBSP	2.47	6-3TLBSP
42	Lock nut	1.24	6-0.75TLBLN	2.06	6-1.5TLBLN	2.47	6-3TLBLN	2.47	6-3TLBLN
43	Wire snap ring	4.81	6-0.75TWSR	4.81	6-1.5TWSR	5.81	6-3TWSR	5.81	6-3TWSR
44	Screw	4.81	6-0.75TLBSS44	4.81	6-1.5TLBSS44	4.81	6-3TLBSS44	4.81	6-3TLBSS44
45	Lock washer	0.83	6-0.75TLBLW45	1.24	6-1.5TLBLW45	3.08	6-3TLBLW45	3.08	6-3TLBLW45
46	Rivet	4.25	6-0.75TLBR	4.73	6-1.5TLBR	5.26	6-3TLBR	5.26	6-3TLBR
47	Snap ring	2.47	6-0.75TLBSR47	3.08	6-1.5TLBSR47	7.85	6-3TLBSR47	7.85	6-3TLBSR47
61	Safe clip assembly	7.42	6-0.75TSCA	9.55	6-1.5TSCA	11.87	6-3TSCA	11.87	6-6TSCA

WINCH - WIRE ROPE, SPARE PIN

- Each new unit comes with a Spare Shear Pin located in the handle of the winch.



For Size (t)	Spare Replacement Shear Pins	
	Price / ea.	Part Number
0.8	16.45	6-0.8T#16SAFETYBOLT
1.6	16.45	6-1.6T#16SAFETYBOLT
3.2	16.45	6-3.2T#16SAFETYBOLT

WINCH - WIRE ROPE

- **Complete with: wire, hook and handle.**
- Safe, reliable, and efficient, these units are suitable for many applications.
- One man operated, using a telescopic handle, they work in any position and over any height of lift.
- Can replace conventional winches and other hoists for many applications.
- Proof load to the WLL, and use only properly sized dry galvanized wire rope provided with units.
- Standard: EN 13157
- Identification: Trademark, Size/WLL, Date
- Rated in Metric Ton(s)



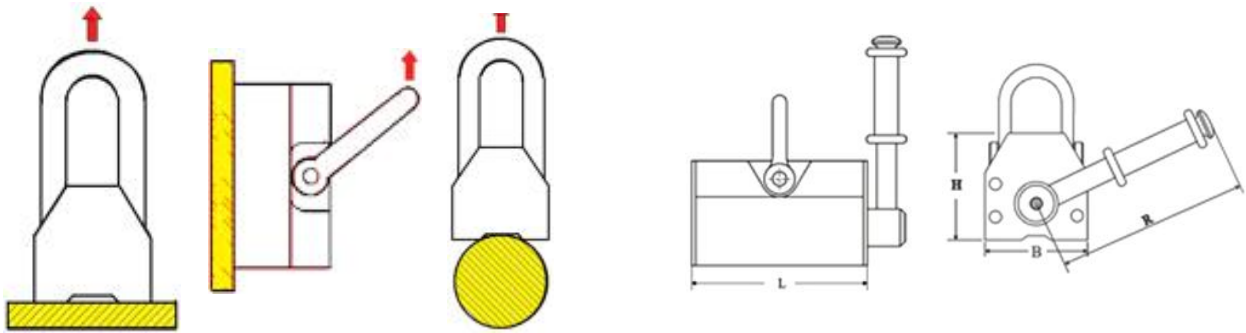
Capacity lifting (t)	Capacity pulling (t)	Rope dia. (mm)	Weight / each (kg)	Size (mm)	Drive Step	c/w std wire length (m)	Spare Replacement Handles		Price / ea.	Part Number
							Price / ea.	Part Number		
0.8	1.3	8	6	428 x 64 x 235	1	20 m	71.90	6-0.8TWRWHANDLE	599.00	6-0.8TWRW
1.6	2.6	11	12	545 x 97 x 286	1	20 m	123.59	6-1.6TWRWHANDLE	895.00	6-1.6TWRW
3.2	5.2	16	23	660 x 116 x 350	2	10 m	123.59	6-3.2TWRWHANDLE	1,450.00	6-3.2TWRW

WARNING - Read and understand all warnings, maintenance, and operation instructions (supplied with every unit).

PERMANENT MAGNET LIFTER



- Standard: EN 13155 & ASME B30.20
- Finish: Painted Yellow, Zinc
- Identification: Trademar, WLL, Serial No.
- Certification: Load Test



Horizontal Load Capacity (kg)	Horizontal [Max.] Breakaway Force (kg)	Round Bar or Vertical Capacity (kg)	Dimensions (mm)				Wt. (kg)	Spare Handle Only		Spare Shackle Only		Magnet Lifter	
			L	B	H	R		Price / ea.	Part Number	Price / ea.	Part Number	Price / ea.	Part Number
100	350	30	92	66	70	145	3	105.22	6-PML-01RH	91.57	6-PML-100RS	545.00	6-PML-100
300	1050	100	165	88	96	176	10	108.81	6-PML-03RH	103.00	6-PML-300RS	1,010.00	6-PML-300
600	2100	200	236	118	120	219	23	134.10	6-PML-06 RH	125.95	6-PML-600RS	1,739.90	6-PML-600
1000	3500	300	264	172	168	285	54	201.25	6-PML-10RH	152.62	6-PML-1000RS	3,130.00	6-PML-1000
2000	7000	600	378	223	216	462	130	270.25	6-PML-20RH	206.07	6-PML-2000RS	6,930.00	6-PML-2000

- Do not use this lifting device above the working load limit for the application, this information is attached to each magnet.
- Operating temperature maximum 80°C.
- Other sizes available on request.

SEE WARNING AND APPLICATION INFORMATION - NEXT PAGE

PERMANENT MAGNET LIFTER - WARNINGS AND APPLICATION INSTRUCTIONS

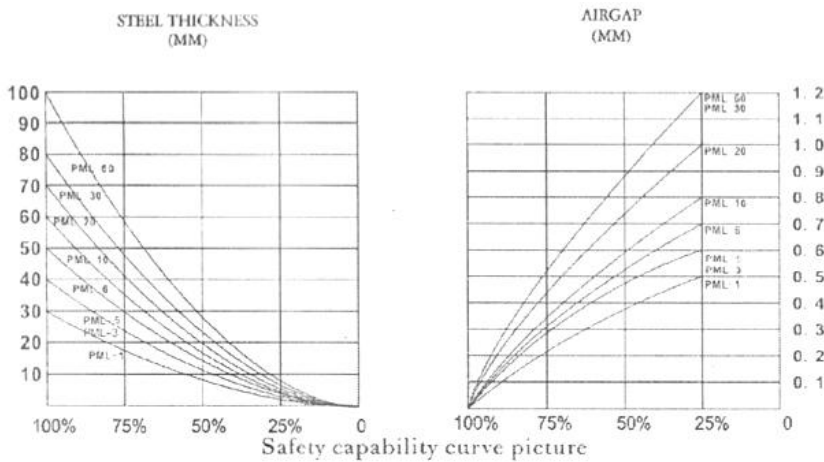
Prior to operation, clear away rust and any debris from the components surface. The centerline of lifter must overlap with centerline of component then place the magnetic lifting hoist on the face of component, turn the handle from "OFF" to "ON" and confirm unit is holding. Make sure the security key on the handle is automatically locked, and then start to hoist for trial lift.

Air Gap – These lifting magnets create high magnetic forces which permit the magnet to clamp materials through the air gap but these air gaps do however decrease the magnetic performance due to the fact that they provide a barrier between the contact surfaces. Air gaps can happen in a variety of ways, such as dust, paint, and mill scale. Inadequately machined surfaces will also make up an air gap. The lifting magnet will need to be down rated in capacity according to the adhesive force / air gap as shown in the diagram below.

Material Thickness – When lifting magnets are used to lift materials which are thinner than the recommended minimum thickness, the clamping force of the magnet will be considerably lower. See below diagram for detailed information.

Full lifting capacity is only achieved when the lifting magnet has complete contact with the item being lifted. Performance will be affected if the surface of the materials to be lifted contains holes or is uneven. A trial lift must be carried out in these situations to establish correct lifting prior to transporting the load. Some materials will have differing abilities to carry magnetism. Apart from mild steel, a reduction factor needs to be applied so that the clamping force can be effectively calculated.

Model	Flat Material			Round Material			Tear off Force (kg)
	Maximum Capacity SWL (kg)	Min. Thickness (mm)	Max. Length of Material (mm)	Maximum Capacity SWL (kg)	Diameter (mm)	Max. Length of Material (mm)	
PML-100	100	30	2000	30	200-300	2 000	350
PML-300	300	40	2500	100	200-300	2 500	1050
PML-600	600	50	3000	200	200-400	3 000	2100
PML-1000	1000	60	3500	300	200-400	3 500	3500
PML-2000	2000	70	3500	600	200-400	3 500	7000

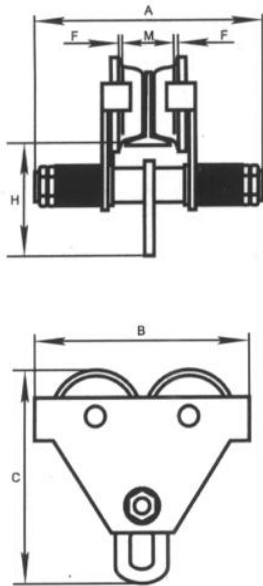


*** Read and understand Operating Instructions (supplied with every unit) before using this product ***

Reduction of capacity for material type	% of capacity
Temperature < 80°C	100%
Humidity < 80%	100%
Low Carbon Steel	100%
St 52	95%
Alloy Steel	80%
High Carbon Steel	70%
Cast Iron	45%
Nickel	45%
Austenitic Stainless Steel	0%
Brass	0%
Aluminium	0%

TROLLEYS - BEAM, PUSH TRAVEL

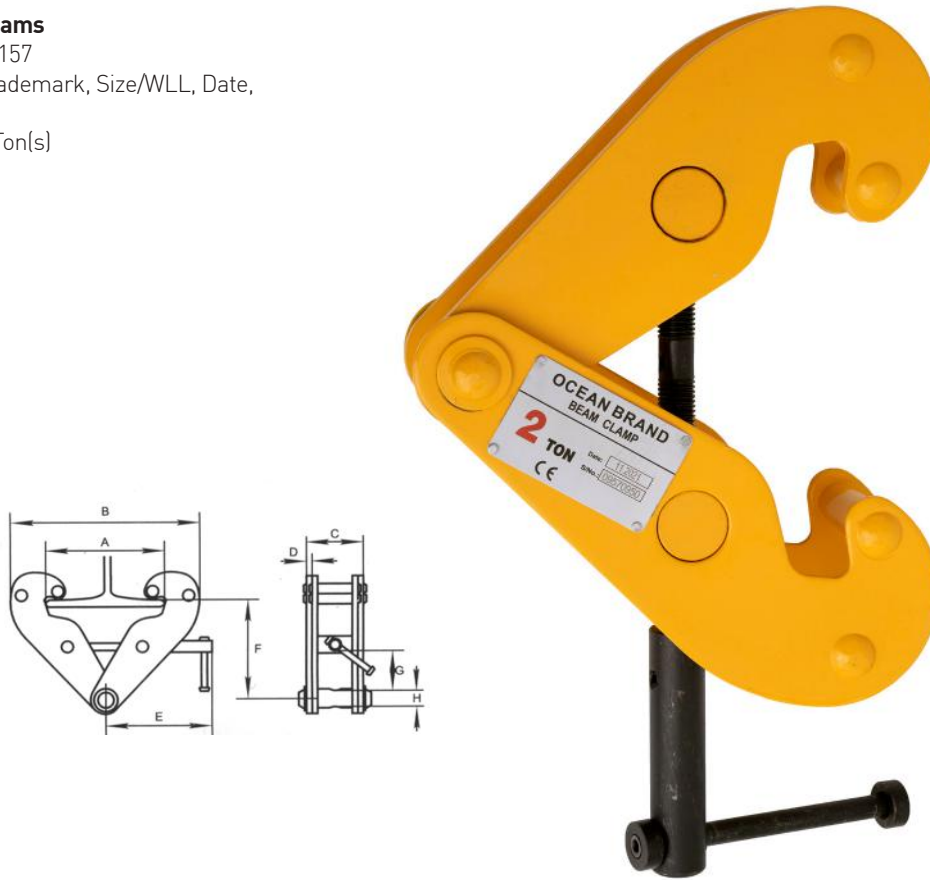
- For use on 'I' Beams
- Standard: EN 13157
- Identification: Trademark, Size/WLL, Date, Serial No.
- Rated in Metric Ton(s)



WLL (t)	I-Beam Width (mm)	Min. Radius Curve (m)	N.W. (kg)	A (mm)	B (mm)	C (mm)	H (mm)	Price / ea.	Part Number
0.5	64-140	0.6	7	230	212	198.5	113	157.45	6-0.5TT
1	64-140	0.8	12	254	255	231.5	128	249.45	6-1TT
1.5	76-165	1.1	18	276	277	265	145	308.95	6-1.5TT
2	76-165	1.1	22	294	302	278	152	379.60	6-2TT
3	76-203	1.4	30	344	344	338	186	575.40	6-3TT
5	88-203	1	55	360	378	393	219	966.29	6-5TT
10	125-203	1.3	93	403	455	490	275.5	1,529.86	6-10TT

CLAMP - BEAM

- For use on 'I' Beams
- Standard: EN 13157
- Identification: Trademark, Size/WLL, Date, Serial No.
- Rated in Metric Ton(s)



WLL (t)	Adj. Beam Width (mm)	N.W. / (kg)	Dimensions (mm)										Price / ea.	Part Number
			A Max.	B Min.	B Max.	C	D	E	F Min.	F Max.	G	H		
1	75-220	4	260	180	360	64	5	215	102	155	25	22	114.75	6-1TBC
2	75-220	5	260	180	360	74	6	215	102	155	25	22	136.00	6-2TBC
3	80-320	9	354	235	490	103	8	260	140	225	45	24	205.00	6-3TBC
5	80-320	11	354	235	490	110	10	260	140	225	45	28	215.00	6-5TBC
10	90-320	15	365	320	505	120	12	280	170	235	50	40	345.00	6-10TBC

WARNING

OVERLOADING AND IMPROPER USE CAN RESULT IN INJURY!

To avoid injury:

- DO NOT exceed working load limit, load rating or capacity
- DO NOT use to lift people, or loads over people
- Use only alloy chain and attachments for overhead lifting

CLAMP - PLATE, VERTICAL LIFTING CLAMP

- Universal eye for lifting in any direction
- Lock open, lock closed
- Able with latch handle for pretension on material and then release on material
- Standard: EN 13155
- Finish: Painted Blue
- Identification: Trademark, Size/WLL, Serial No., Date
- Rated in Metric Ton(s)



WLL (t)	Weight (kg)	Opening (mm)	Price / ea.	Part Number
0.8	2	0-15	182.00	6-0.8TPC
1.6	7.6	0-20	329.00	6-1.6TPC
3.2	16.2	0-25	455.00	6-3.2TPC
8	34	0-45	997.12	6-8.0TPC
12	47	0-54	2,895.00	6-12TPC

Spare Parts

Size (t)	Spare Pivot & Bolt		Spare Jaw		Spare Jaw Pin		Lock Handle & Spring	
	Price / ea.	Part #	Price / ea.	Part #	Price / ea.	Part #	Price / ea.	Part #
0.8	5.29	6-VL08PB	40.38	6-VL08J	3.45	6-VL08JP	35.37	6-VL08HS
1.6	14.03	6-VL16PB	132.63	6-VL16J	13.18	6-VL16JP	150.99	6-VL16HS
3.2	27.18	6-VL32PB	210.77	6-VL32J	19.93	6-VL32JP	189.29	6-VL32HS
8	51.58	6-VL80PB	382.28	6-VL80J	38.06	6-VL80JP	427.20	6-VL80HS
12	89.43	6-VL120PB	631.69	6-VL120J	55.65	6-VL120JP	849.56	6-VL120HS

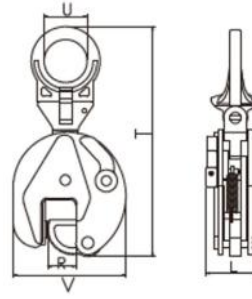


Size (t)	Spare Repair Kit	
	Price / ea.	Part #
0.8	43.04	6-0.8TPCRKIT
1.6	151.21	6-1.6TPCRKIT

PCD VERTICAL PLATE CLAMPS

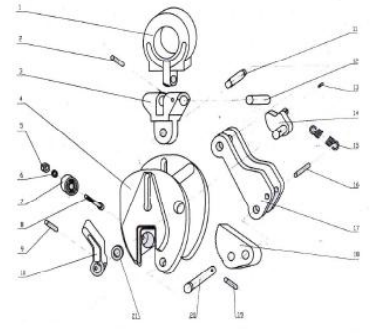
PCD Plate clamp with safety lock

- Universal eye for lifting in any direction
- Standard: EN 13155
- Lock open, lock closed
- Equipped with a pre-tension mechanisms ensuring the clamp does not slip when lifting force is applied and when load is being lowered
- Tagged with manufacturer, capacity, date and serial number
- Rated in Metric Ton(s)
- Minimum W.L.L is 10% of the maximum W.L.L.



WLL (t)	Jaw Opening	Dimensions (mm)				N.W. / (kg)	Price / ea.	Part Number
		T	U	V	L			
1	0~20	300	50	145	66	5	289.80	6-1TPCD
2	0~25	385	68	175	75	8	410.00	6-2TPCD
3.2	0~30	430	75	215	102	15	603.75	6-3.2TPCD

Model	Jaw Opening (mm)	Load Capacity (kg)	T (mm)	U (mm)	V (mm)	L (mm)	Net Weight (kg)
PCD 0.5T	0~15	500	205	30	105	48	2
PCD 1T	0~20	1000	300	50	145	66	5
PCD 2T	0~25	2000	385	68	175	75	8
PCD 3.2T	0~30	3200	430	75	215	102	15
PCD 5T	0~50	5000	500	68	232	112	23
PCD 8T	0~45	8000	600	88	290	125	37
PCD 12T	50~90	12000	700	90	420	128	50
PCD 16T	60~100	16000	710	100	445	140	65
PCD 20T	0~80	20000	948	100	563	140	160
PCD 30T	10~90	30000	944	100	568	142	167



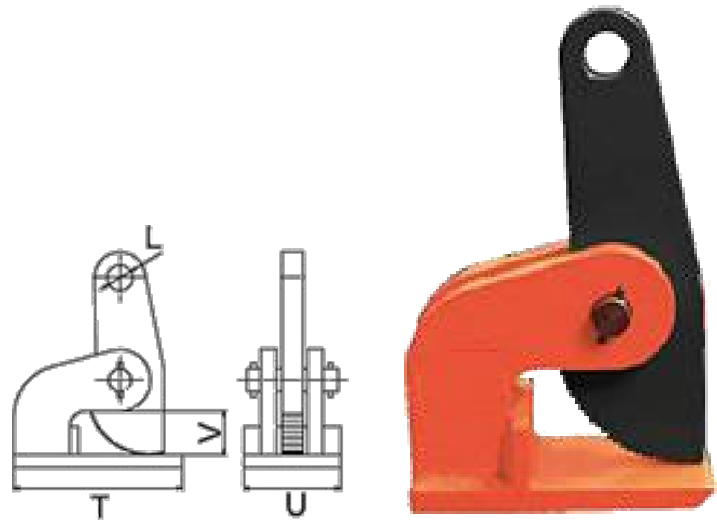
Part	1 tonne		2 tonne		3.2 tonne	
	Price / ea.	Part #	Price / ea.	Part #	Price / ea.	Part #
Pad Assembly # 5, 6, 7, 8	42.44	6-1TPCPA	47.13	6-2TPCPA	63.75	6-3.2TPCPA
Pivoting Shackle Pin # 12	23.56	6-1TPCPSP	31.38	6-2TPCPSP	39.19	6-3.2TPCPSP
Function Block # 14	12.56	6-1TPCFB	18.88	6-2TPCFB	23.56	6-3.2TPCFB
Pulling Spring # 15	7.88	6-1TPCPS	12.56	6-2TPCPS	15.69	6-3.2TPCPS
Roll Pin # 16	1.63	6-1TPCRIN	1.63	6-2TPCRIN	1.63	6-3.2TPCRIN
Connecting Plate & Jaw # 17, 18	78.50	6-1TPCJA	101.94	6-2TPCJA	169.31	6-3.2TPCJA
Roll Pin # 19	1.63	6-1TPCRP	1.63	6-2TPCRP	1.63	6-3.2TPCRP
Jaw Pin # 20	23.56	6-1TPCJP	31.38	6-2TPCJP	39.25	6-3.2TPCJP

INSPECTION, CARE & USE

- DO NOT lift loads less than 10% of working load limit of clamp
- DO NOT lift plates with a temperature greater than 100°C
- DO NOT use to lift stainless steel lead or copper

CLAMP - PLATE, HORIZONTAL LIFTING CLAMP

- Intended to be used in pairs, sets of pairs, or in a tripod arrangement for transporting steel plate horizontally
- For handling inherently stacked nundles of sheets and steel plates
- Fastened to suitable slings and attached at three or more points on the load being handled
- Larger jaw opening
- With long load, we recommend using a spreader beam
- Able with latch handle for pretension on material and then release on material
- Standard: EN 13155
- Finish: Painted Blue
- Identification: Trademark, Size/WLL, Serial No, Date
- Rated in Metric Ton(s)



WLL (t)	Weight (kg)	Opening (mm)	T (mm)	U (mm)	V (mm)	L (mm)	Price / ea.	Part Number
2	7.5	0 - 60	180	80	68	25	264.40	6-2THPC
3	10	0 - 60	220	90	80	30	306.90	6-3THPC
5	20	0 - 100	220	110	123	45	555.70	6-5THPC
10	28	0 - 100	220	125	120	45	786.90	6-10THPC

CABLE SOCK - T-TYPE

- Double weave construction for medium to heavy pulling applications in underground installations.



Type	Line Capacity (mm)	WLL (kg)	Length of braid (mm)	Grip to end of loop (mm)	Price / ea.	Part Number
MG-10	7-12	300	330	85	75.49	6-MG10T
MG-15	13-18	400	330	85	89.10	6-MG15T

CABLE SOCK - K-TYPE

- Double weave construction for medium to heavy pulling applications in underground installations.
- Comes with swivel head which is ideal for connecting to shackles.



Type	Line Capacity (mm)	WLL (kg)	Length of braid to grip (mm)	Grip to end of swivel (mm)	Price / ea.	Part Number
LS-6	19-35	1100	630	180	179.80	6-LSK
MS-6	25-50	2000	760	200	258.20	6-MSK
MXS-7	38-60	2000	950	210	296.86	6-MXSK
XS-8	50-75	2500	1020	240	328.69	6-XSK

ROPE GRAB - PULLER

- Recommended for fibre rope.

Easy-to-use rope grab can be used with a variety fiber ropes. The large handle eye openings for easy opening, attaching and releasing to prevent lock-ups. Made of forged steel, its ideal for a variety of utility jobs.



Size (in)	Max rope size (in)	Min rope size (in)	MBL (lb)	Weight / each (lb)	Price / ea.	Part Number
1/2 - 3/4	3/4	1/2	8000	4	252.49	6-1/2"-3/4"RP

DRUM LIFTER

- For use on metal drums
- Rated in Metric Ton(s)



Capacity (t)	Chain size (mm)	Length of lift chain (mm)	Net Weight (kg)	Price / ea.	Part Number
1	6 x 18	500	3.6	147.80	6-DRUMLIFT