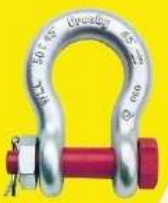


# GLOTECH ENGINEERING PVT LTD

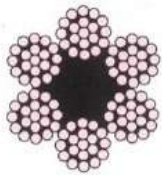
#193,(New#258) Linghi Chetty Street, Chennai 600 001.

Ph:044-25223678/25249781

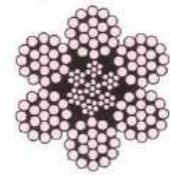


**wire rope 6x19 const. for slings**

For Shovels, Cranes, Hoist Draglines Mining, Logging, Slings, Oil-Fields, Fishing, etc.%



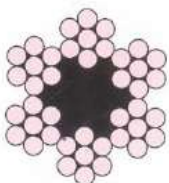
6 x 19M (12/6-1) Fiber Core (CF)



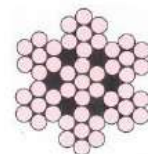
6 x 19M (12/6-1) Steel Core (CWR)

**BREAKING LOAD AND MASS FOR 6x19/12/6-1 CONSTRUCTION**

Nominal Diameter	Approximate Mass Weight		Minimum Breaking Force Corresponding to Rope Grade of					
			1570 N/mm <sup>2</sup>		1770 N/mm <sup>2</sup>		1960 N/mm <sup>2</sup>	
	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core
(1)	(CF)	(CWR)	(CF)	(CWR)	(CF)	(CWR)	(CF)	(CWR)
mm	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	kg/100 m		kN	kN	kN	kN	kN	kN
8	22.1	24.2	31	33	35	38	39	42
9	28.0	30.8	39	42	44	48	49	53
10	34.6	38.1	48	52	54	59	60	65
11	41.9	46.4	58	63	66	71	73	79
12	49.8	54.8	69	75	78	85	87	94
13	58.5	64.3	82	88	92	99	102	110
14	67.8	74.6	95	102	107	115	118	128
16	88.6	97.4	124	133	139	150	154	167
18	112	123	156	169	176	190	195	211
19	125	137	174	188	196	212	217	235
20	138	152	193	208	218	235	241	260
22	167	184	234	252	263	284	292	315
24	199	219	278	300	313	338	347	375
26	234	257	326	352	368	397	407	440
28	271	298	378	409	426	461	472	510
32	354	390	494	534	557	602	617	666
36	448	493	625	675	705	761	781	843
38	500	550	697	752	785	848	871	939
40	554	609	772	834	870	940	964	1 041
44	670	-	934	-	1 053	-	1 166	-
48	797	-	1 112	-	1 253	-	1 388	-
52	936	-	1 305	-	1 471	-	1 629	-



6x7(6-1) Fiber Core (CF)



6x7(6-1) Steel Core (CWR)

**BREAKING LOAD AND MASS FOR 6X7 (6-1) CONSTRUCTION**

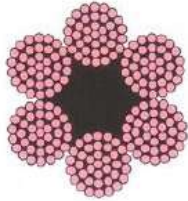
Nominal Diameter	Approximate Mass Weight		Minimum Breaking Force Corresponding to Rope Grade of					
			1570 N/mm <sup>2</sup>		1770 N/mm <sup>2</sup>		1960 N/mm <sup>2</sup>	
	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core
(1)	(CF)	(CWR)	(CF)	(CWR)	(CF)	(CWR)	(CF)	(CWR)
mm	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	kg/100 m		kN	kN	kN	kN	kN	kN
8	22.9	25.2	33	36	38	41	42	45
9	28.9	31.8	42	46	48	51	53	57
10	35.7	39.3	52	56	59	64	65	70
11	43.2	47.6	63	68	71	77	79	85
12	51.5	56.6	75	81	85	91	94	101

Note: To calculate the aggregate breaking force, multiply the figures given in col 4, 6 and 8 by 1.111 and in col 5, 7 and 9 by 1.193.



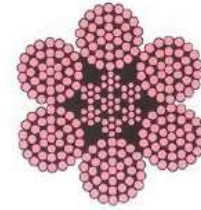
## Wire Rope 6x37 Const.

For Cranes, Slings, Shovels, Hoists and general Engineering Purposes.



(6x37) 8 to 56mm with  
Fiber Core (CF)

(6x37) 8 to 26mm with  
Steel Core (CWR)



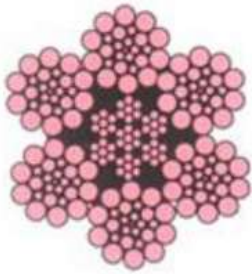
### BREAKING LOAD AND MASS FOR 6 x 37 (18/12/6/1) CONSTRUCTION

Nominal Diameter	Approximate Mass Weight		Minimum Breaking Force Corresponding to Rope Grade of					
			1570 N/mm <sup>2</sup>		1770 N/mm <sup>2</sup>		1960 N/mm <sup>2</sup>	
	Fiber core	Steel core	Fibre core	Steel core	Fibre core	Steel core	Fibre core	Steel core
	(CF)	(CWR)	(CF)	(CWR)	(CF)	(CWR)	(CF)	(CWR)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
mm	kg/100 m		kN	kN	kN	kN	kN	kN
8	22.1	24.4	30	32	33	36	37	40
9	28.0	30.8	37	40	42	46	47	51
10	34.6	38.1	46	50	52	56	58	62
11	41.9	46.1	56	60	63	68	70	76
12	49.8	54.8	67	72	75	81	83	90
13	58.5	64.3	78	84	88	95	98	105
14	67.8	74.6	91	98	102	110	113	122
16	88.6	97.4	118	128	134	144	148	160
18	112	123	150	162	169	183	187	202
19	125	137	167	180	188	203	209	225
20	138	152	185	200	209	225	231	250
22	167	184	224	242	253	273	280	302
24	199	219	267	288	301	325	333	359
26	234	257	313	338	353	381	391	422
28	271	298	363	392	409	442	453	489
32	354	390	474	512	534	577	592	639
36	448	493	600	648	676	730	749	809
38	500	550	668	722	753	814	834	901
40	554	609	741	800	835	902	924	999
44	670	737	896	968	1 010	1 091	1 119	1 208
48	797	877	1 066	1 152	1 202	1 298	1 331	1 438
52	936	1 029	1 252	1 352	1 411	1 524	1 562	1 687
56	1 085	-	1 451	-	1 636	-	1 812	-
60	1 246	-	1 666	-	1 878	-	2 080	-
64	1 417	-	1 896	-	2 137	-	2 367	-

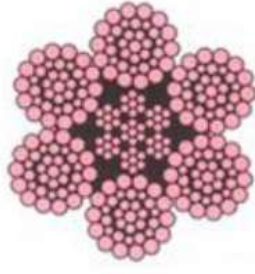
**Note:** To calculate the aggregate breaking force, multiply the figures given in col 4, 6 and 8 by 1.212 and in col 5, 7 and 9 by 1.302.

## Wire Rope 6x36 Const.

For Cranes, Slings, Shovels, Hoists and general Engineering Purposes.



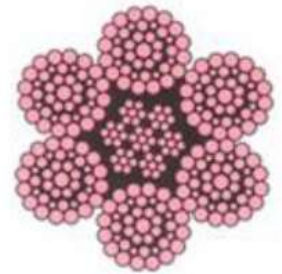
6x26 (10/5 & 5/5/1)  
(CF) or (CWR)  
9 to 40mm



6x36 (14/7 & 7/7/1)  
(CF) or (CWR)  
13 to 56mm



6x41 (16/8 & 8/8/1)  
(CF) or (CWR)  
16 to 60mm



6x49 (16/8 & 8/8/1)  
(CF) or (CWR)  
48 to 92mm

## BREAKING LOAD AND MASS FOR THE FOLLOWING CONSTRUCTION.

Nominal Diameter	Approximate Mass Weight		Minimum Breaking Force Corresponding to Rope Grade of					
	Fiber core	Steel core	1570 N/mm <sup>2</sup>		1770 N/mm <sup>2</sup>		1960 N/mm <sup>2</sup>	
			Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core
	(CF)	(CWR)	(CF)	(CWR)	(CF)	(CWR)	(CF)	(CWR)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
mm	kg/100 m		kN	kN	kN	kN	kN	kN
9	30.8	33.9	42	45	47	51	52	57
10	38.0	41.8	52	56	58	63	65	70
11	46.0	50.8	63	68	71	76	78	85
12	54.7	60.2	75	81	84	92	93	100
13	64.3	70.7	88	97	99	106	109	118
14	74.5	82.0	102	112	114	124	127	137
16	97.3	107	133	143	149	161	166	178
18	123	135	168	181	189	204	210	226
19	137	151	187	202	211	228	233	252
20	152	167	207	224	234	252	259	279
22	184	202	251	271	283	305	313	338
24	219	241	298	322	336	363	372	402
26	257	283	350	378	395	426	437	472
28	298	328	406	439	458	494	507	547
32	389	428	530	573	598	646	662	715
36	493	542	671	725	757	817	840	905
40	608	669	829	895	934	1009	1035	1117
44	736	810	1003	1083	1131	1221	1252	1352
48	876	964	1193	1289	1345	1453	1490	1609
52	1028	1131	1401	1513	1579	1705	1748	1888
56	1192	1311	1624	1754	1831	1978	2028	2190
60	1369	1506	1865	2014	2102	2270	2238	2514
64	1557	1713	2122	2291	2392	2583	2648	2860
68	1758	1934	2395	2587	2700	2916	2990	3229
72	1971	2168	2685	2900	3027	3269	3352	3620
76	2196	2416	2992	3231	3373	3643	3755	4034
80	2433	2676	3315	3580	3737	4036	4138	4469
84	2683	2951	3655	3947	4120	4450	4562	4928
88	2944	3239	4011	4332	4522	4884	5007	5408
92	3218	3540	4334	4735	4942	5338	5473	5910

Note: To calculate the aggregate breaking force, multiply the figures given in col 4, 6 and 8 by 1.212 and in col 5, 7 and 9 by 1.302.



## Single Part Slings

Mechanically Spliced with Allu-Alloy Ferrules with end fittings.



Dia. (mm)	Vertical	Basket	Choker	Vertical	Basket	Choker
6	0.4	0.8	0.3	0.5	1.0	0.4
8	0.8	1.5	0.6	0.8	1.7	0.7
9	1.0	2.0	0.8	1.1	2.1	0.8
10	1.2	2.4	1.0	1.3	2.6	1.1
12	1.8	3.5	1.4	1.9	3.8	1.5
13	2.1	4.1	1.6	2.2	4.4	1.8
14	2.4	4.8	1.9	2.6	5.2	2.1
16	3.1	6.2	2.5	3.4	6.7	2.7
18	4.0	7.9	3.2	4.3	8.5	3.4
19	4.4	8.8	3.5	4.8	9.5	3.8
20	4.9	9.7	3.9	5.3	10.5	4.2
22	5.9	11.8	4.7	6.4	12.7	5.1
24	7.0	14.0	5.6	7.2	14.4	5.8
25	7.5	15.0	6.0	7.6	15.2	6.1
26	8.1	16.1	6.4	8.7	17.4	6.9
28	9.3	18.7	7.5	10.1	20.1	8.1
32	12.2	24.4	9.8	13.2	26.3	10.5
35	14.4	28.8	11.5	15.7	31.5	12.6
38	17.6	35.2	14.1	18.6	37.1	14.8
40	18.4	36.9	14.8	20.6	41.1	16.5
44	23.1	46.1	18.4	24.9	49.8	19.9
50	27.4	54.8	21.9	34.8	69.5	27.8
56	37.0	74.0	29.6	40.3	80.7	32.3
64	48.0	96.0	38.4	52.7	105.3	42.1
70	55.0	110.0	44.0	65.0	130.0	52.0

## Types of Hooks & Other accessories



## Multiple Leg Slings with Oval Links

Combinations of Multiple Leg Slings



Multiple LEG SLINGS														
Rope Dia	6x19 / 6/36 Groups Steel Core							6x19 / 6/36 Groups Fiber Core						
	Safe working Load					Minimum	Proof	Safe working Load					Minimum	Proof
	Single	Leg angle (0-90)		Leg angle (90-120)		Breaking	Load	Single	Leg angle (0-90)		Leg angle (90-120)		Breaking	Load
	Leg	2 Leg	3 & 4 Leg	2 Leg	3 & 4 Leg	Load	Per Kg	Leg	2 Leg	3 & 4 Leg	2 Leg	3 & 4 Leg	Load	Per Kg
6	0.5	0.7	1.1	0.5	0.8	2.6	1.0	0.4	0.6	0.8	0.4	0.6	2.0	0.8
8	0.8	1.2	1.8	0.8	1.3	4.2	1.7	0.8	1.1	1.6	0.8	1.2	3.9	1.5
9	1.1	1.5	2.2	1.1	1.6	5.3	2.1	1.0	1.4	2.1	1.0	1.5	4.9	2.0
10	1.3	1.9	2.8	1.3	2.0	6.6	2.6	1.2	1.7	2.6	1.2	1.8	6.1	2.4
12	1.9	2.7	4.0	1.9	2.8	9.5	3.8	1.8	2.5	3.7	1.8	2.6	8.8	3.5
13	2.2	3.1	4.7	2.2	3.3	11.3	4.4	2.1	2.9	4.3	2.1	3.1	10.3	4.1
14	2.6	3.6	5.4	2.6	3.9	13.0	5.2	2.4	3.3	5.0	2.4	3.6	11.9	4.8
16	3.4	4.7	7.1	3.4	5.0	16.8	6.7	3.1	4.4	6.6	3.1	4.7	15.6	6.2
18	4.3	6.0	8.9	4.3	6.4	21.3	8.5	4.0	5.5	8.3	4.0	5.9	19.8	7.9
19	4.8	6.7	10.0	4.8	7.1	23.8	9.5	4.4	6.2	9.2	4.4	6.6	22.0	8.8
20	5.3	7.4	11.0	5.3	7.9	26.3	10.5	4.9	6.8	10.2	4.9	7.3	24.4	9.7
22	6.4	8.9	13.4	6.4	9.5	31.8	12.7	5.9	8.2	12.4	5.9	8.8	29.5	11.8
24	7.2	10.1	15.1	7.2	10.8	36.0	14.4	7.0	9.8	14.7	7.0	10.5	35.1	14.0
25	7.6	10.6	16.0	7.6	11.4	38.0	15.2	7.5	10.5	15.8	7.5	11.3	37.5	15.0
26	8.7	12.2	18.2	8.7	13.0	43.4	17.4	8.1	11.3	16.9	8.1	12.1	40.3	16.1
28	10.1	14.1	21.1	10.1	15.1	50.4	20.1	9.3	13.1	19.6	9.3	14.0	46.7	18.7
32	13.2	18.4	27.7	13.2	19.8	65.9	26.3	12.2	17.1	25.6	12.2	18.3	61.0	24.4
35	15.7	22.0	33.1	15.7	23.6	78.7	31.5	14.4	20.2	30.2	14.4	21.6	72.0	28.8
38	18.6	26.0	39.0	18.6	27.8	92.8	37.1	17.6	24.6	37.0	17.6	26.4	88.0	35.2
40	20.6	28.8	43.2	20.6	30.9	102.9	40.1	18.4	25.8	38.7	18.4	27.7	92.2	36.9
44	24.9	34.8	52.3	24.9	37.3	124.5	49.8	23.1	32.3	48.4	23.1	34.6	115.3	46.1
50	34.8	48.7	73.0	34.8	52.1	173.8	69.5	27.4	38.4	57.6	27.4	41.4	137.1	54.8
56	40.3	56.5	84.7	40.3	60.5	201.6	80.7	37.0	51.8	77.7	37.0	55.5	185.0	74.0
64	52.7	73.7	110.6	52.7	79.0	263.3	105.3	48.0	67.2	110.8	48.0	72.0	240.0	96.0
70	65.0	91.0	136.5	65.0	97.5	325.0	130.0	55.0	77.0	115.5	55.0	82.5	275.0	110.0

Master Links also available in the following varieties



Pear Shaped



Oval Type



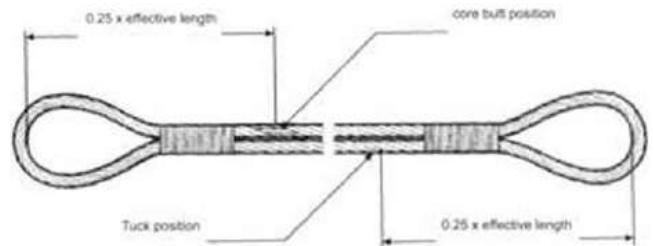
## Grommet and Flemish Eye Slings

### System for Grommet Slings

Grommet Slings can be fabricated in very snort circumferences. The reason is this: grommet Slings are made from one continuous length of strand or wire rope. This requires only one tuck-in point as compared with the six tuck-points needed to manufacture an endless sling.

- A grommet consists of an endless rope having 6/1 construction & is used where high ultimate breaking strength of the rope is required beyond the limits of a single part rope.
- A strand of sufficient length to complete the grommet shall be obtained by either of the following methods:
- **Method A:** An Outer strand shall be unlaid from a specimen of 6/1 rope conforming to the requirement of the customer.
- **Method B:** Unlaying from a specimen of 6/4 rope having strand in all respects equivalent to those obtained by method A above.
- **Method C:** Using a virgin strand either performed or post formed & in all other respects equivalent to those obtained by methods A& B
- During the courses of construction of a grommet the preformed lay of the strand shall be maintained & shall be interfered with except when laying in the core of which purpose length of strand left to form the core should be straightened.
- The length of the strand required to form a grommet shall be equal to about 7.5 times the perimeter of the grommet in case of spliced grommet, but in case of complete streamline spicing length shall be 4 times the effective length.

Nominal of Single Part of Grommet		Nominal Diameter of Components Ropes	Calculated Breaking Load (On Double Part)		
Inches	mm		Tonnes	Tons (200 lb)	Tons (2240 lb)
2	52	18	211	233	208
2 1/2	64	22	316	348	311
3	76	26	442	486	434
3 1/2	89	30	589	650	580
4	102	34	756	833	744
4 1/2	115	38	944	1040	930
5	125	42	1152	1268	1132
5 1/2	140	48	1509	1668	1489
6	152	52	1775	1954	1744
6 1/2	165	58	2030	2262	2020
7	180	60	2356	2593	2315

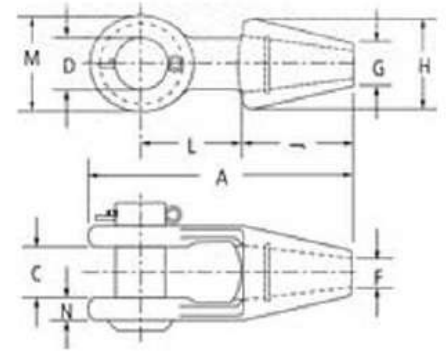


- **Butt Splice:** The Two Ends Of The Rope Shall Be Joined Together By Two Five-tuck Splices
- **Number of Tucks:** The splices be tucked three times with full size of the strand, a fourth time with the strands each reduced to half the original number and a fifth tome with the strands each further reduced to one third the original number. The heart strand is to be rowed in during tucking so that a double heart is produced for at least the length of the first three tusks in both directions.
- **Method of Tucking:** The tucks of the splice shall be made over one strand and under one strand against the lay of the rope. The heart strand of the rope shall not be removed when the strands are opened out for tucking, but may be cut to a suitable length.
- **Finishing of the Splice:** On completion of tucking, the rope shall be stretched and the ends of all wires, including those which have to be laid back and stopped down, shall be broken off close in the nip of the lay of the rope by twisting.
- **Finishing:** The ends fo the splice in way of twisted-off ends of wire, that is between the end and the third, tusk, shall be tightly served with seizing wire, after parceling with canvas, hessian or wax paper.

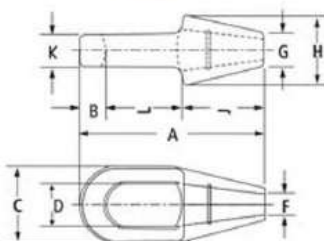
## Sockets

### Open Spelter Sockets

Wire Rope Dia	A	C	D	F	J	L	M	N	Approx. Wt. in Kg.
6	116	18	19	10	57	40	33	8	0.3
8-10	124	21	22	13	57	44	40	11	0.6
11-13	141	25	25	14	64	51	49	13	1
14-16	171	32	30	18	76	64	57	14	2
19	202	38	35	21	89	76	67	16	2
22	235	44	41	25	102	89	80	19	4
25	268	51	51	29	114	102	95	22	7
29	300	57	57	32	127	114	105	25	10
32-35	335	64	64	38	140	127	121	29	14
38	384	76	70	41	152	152	137	30	21
41	413	76	76	44	165	165	146	33	27
44-48	464	89	89	51	191	178	165	40	38
51-54	546	102	95	57	216	229	178	46	57
57-60	597	114	108	65	229	254	197	54	76
64-67	648	127	121	73	248	273	216	60	114
70-73	692	133	127	79	279	279	229	73	143
76-79	737	146	133	86	305	286	241	76	172
83-86	784	159	140	92	330	298	254	79	197
89-92	845	171	152	99	356	318	273	83	255
95-102	921	191	178	108	381	343	318	89	355



### Closed Spelter Sockets



Wire Rope Dia	A	C	D	F	T	L	M	N	Approx. Wt. in Kg.
6	116	18	19	10	57	40	33	8	0.3
8-10	124	21	22	13	57	44	40	11	0.6
11-13	141	25	25	14	64	51	49	13	1
14-16	171	32	30	18	76	64	57	14	2
19	202	38	35	21	89	76	67	16	2
22	235	44	41	25	102	89	80	19	4
25	268	51	51	29	114	102	95	22	7
29	300	57	57	32	127	114	105	25	10
32-35	335	64	64	38	140	127	121	29	14
38	384	76	70	41	152	152	137	30	21
41	413	76	76	44	165	165	146	33	27
44-48	464	89	89	51	191	178	165	40	38
51-54	546	102	95	57	216	229	178	46	57
57-60	597	114	108	65	229	254	197	54	76
64-67	648	127	121	73	248	273	216	60	114
70-73	692	133	127	79	279	279	229	73	143
76-79	737	146	133	86	305	286	241	76	172
83-86	784	159	140	92	330	298	254	79	197
89-92	845	171	152	99	356	318	273	83	255
95-102	921	191	178	108	381	343	318	89	355



# Special Application Wire Rope Slings



# Lifting Chain, Grade 80

- Material: High Quality Alloy Steel
- Quality Grade: 80
- Surface Treatment: Blackened
- Safety Factor: 4 Times
- Standard: ISO, DIN, BS, JIS, ASTM



Chain Dia (mm)	Pitch (mm)	Dimensions (mm)			Weight Testing Details (in Tonnage)			
		Outside Width	Outside Length	Inside Width	/mtr. (kgs) 5%	Working Load Limit	Test Load	Breaking Load (min)
6	18	21	30	7.5	0.782	1.1	2.2	4.4
8	24	28	40	10	1.39	2	4	8
10	30	35	50	12.5	2.17	3.2	6.4	12.8
12	36	42	60	15	3.2	4.6	9.2	18.4
13	39	46.8	65	17.5	3.8	5.4	10.8	21.6
14	50	48	78	18	4	6.3	12.6	25.2
16	48	57.6	80	21.5	5.7	8.2	16.4	32.8
18	64	60	100	21	6.4	10	20	40
20	72	65	112	27	8.1	12.5	25	50
22	78	75	122	28	10	15.5	31	62
25	86	82	136	30	13	20	40	80
28	108	98	164	39	15.8	25	50	100
30	108	104	168	40	18.5	28.3	56.6	113.2
32	108	108	180	42	21.5	33	66	132



## Triple Super Gear Chain Pulley Block Model P

Capacity	MT	0.5	1	2	3	5	7.5	10
No.of.Falls		1	1	2	2	2	3	4
Running pull on hand chain	Kgs.	13	26	28	43	49	50	61
Weight at 3 meter lift	Kgs.	21	21	30	35	60	88	126
Extra Weight per additional meter lift	Kgs.	2.9	2.9	4.3	4.3	5.2	7.0	14.4

Capacity	A	B	C	D	E	F	H	Mono Blocks	Thrust Bearing in Bottom block
0.5 T	460	210	180	210	195	31	550	500	580
1 T	460	210	180	210	195	31	550	500	580
2 T	560	240	180	210	195	37	665	620	760
3 T	625	240	200	210	195	42	759.0	635	825
5 T	810	320	225	275	270	51	885	780	1010
7.5 T	910	455	225	275	270	75	1017	952	1135
10 T	990	515	225	275	270	75	1120	1025	1240



## Triple super gear chain pulley block Model - M

\* **Light weight & Sturdy**  
Ease of handling

\* **Lifelong lubrication**  
Minimal maintenance required

\* **Surface hardened gears**  
Extended working life

\* **Use of needle roller bearings**  
High operating efficiency

\* **Smooth passage of load chain**  
Machined guide rollers

\* **Smooth hand chain operation**  
Unique cover design

\* **Self sustaining maintenance free friction brake**  
Reduced downtime

\* **Grade 80 load chain for strength & wear resistance**  
Longer chain life



Capacity	MT	0.5	1	2	2.5	3	5	8	10
Number of falls of load chain	No	1	1	2	1	1	2	3	4
Dimensions									
A Hook Susoension	mm	335	400	461	530	575	805	880	950
With trolley, ranges 1 & 2	mm	365	430	500	560	705	690	980	950
With trolley, range 3	mm	405	470	540	605	720			
B	mm	155	180	180	238	230	280	430	480
C	mm	144	153	153	209	182	209	220	220
H Hook admittnace	mm	27	32	32	42	42	51	75	75
Weight at 3 M	kg	10	13	19	29	27	59	94	130
Extra weight per additional M Lift	kg	1.4	1.8	2.6	3.0	3.0	5.7	7.9	10.1
Running pull on hand chain	kg	38	30	33	37	36	41	46	43

# Hand Operated - Chain Pulley Block - ISI

**Compact size | Durable | Light weight | Easy to carry | Minimum Effort for lifting**

- **Frames:** Micro alloyed steel highly strength quality precisely machined ensuring parallelism and alignment.
- **Hooks:** Grade "T" Hooks with safety latches, designed and dimensioned as specified in IS: 15560-2005. made from alloy Steel forged and duly heat treated, compact size but sturdy. In 2 to 8 falls Chain Pulley Blocks, bottom Housing contains idler wheel with needle roller bearing for easy rotary motion.
- **Load Chain Wheel:** Steel recommended in IS:3832, cast, heat treated, tested, accurately machined to suit calibrated load chain & needle roller bearings for free rotation, reducing effort for lifting.
- **Load Chain:** Grade 80, alloy steel load chain as per Indian/international standard electrically resistance welded, heat treated in Induction furnace calibrated and tested. Chains are having brilliant toughness, resistance to wear and corrosion.
- **Gears:** Highly efficient, compact and hard wearing gears made from alloy steel, truly machined and case hardened assured long life.
- **Bearings:** To enhance mechanical efficiency, load wheel is mounted on sealed Needle roller bearings ?axed in frames. Additional bearings are also placed on gear cover to align the driving shaft and short pinions.
- **Brake Mechanism:** Precision self actuating screw disc type mechanical brake engages Instantly, outstanding stopping power and safety for high performance with rated capacity.
- **Brake Disc:** Asbestos free long lasting, low. wear and more griping ability.
- **Pawl & Ratchet Mechanism:** Two nos. hardened Pawl with piano type wire springs associated with ratchet disc to enhance performance level.
- **Triple Protective Cover:** One Gear cover to protect gears from external shock another chain cover to guide hand Chain with additional protective cover to protect mechanical brake arrangement from dust and mud intrusion, made from thick steel.
- **Load Chain Guide:** To facilitate smooth movement of load chain, two nos. rotary steel rollers Guide are used.
- **Other Fittings:** The vital components are perfectly designed for sufficient strength and rigidity.





# Hand Operated - Chain Pulley Block - ISI

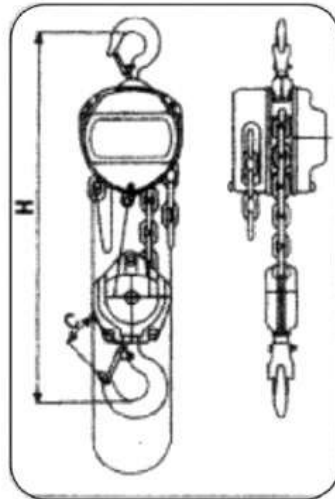
CAPACITY(TONNES)	0.5	1	1.5	2	3	5	10	20
Model	KP 0.5	KP 1	KP 1.5	KP 2	KP 3	KP 5	KP 10	KP 20
Standard lift (meters)	3	3	3	3	3	3	3	3
Column of load chain	1	1	1	2	2	2	4	8
Load chain dia (mm)	6	6	8	6	8	10	10	10
Test load (T)	0.75	1.5	2.25	3	4.5	7.5	15	30
Effort required at capacity (n)	224	280	290	287	298	332	342	392
Dimensions (mm)Length = A	140	162	180	162	182	220	350	620
Width = B	137	152	176	152	174	187	187	220
Head room = C	320	360	430	480	532	640	860	1000
Throat opening = D	27.3	20.6	35	23.2	29.5	34.8	52.4	86
Net Weight (kg)	9.5	12	17	16.5	26	30	75	229
Extra weight per mtr. Of extra lift (kg)	1.5	1.7	2.1	2.5	3.7	5.3	9.6	20.2

- Manufactured conforming to IS: 3832-2005 for Safety. Quality and Performance
- Every Chain Block is Operationally Proof Tested to a Proof load of 1.5 times of WLL
- After sales services are provided and Warranted for 12 months  
Spares are readily available and supplied on demand
- Optimal use of space – Very low head room
- Factor of Safety-4 times the rated capacity
- Safe Working Load = 100% Working Load Limit



# Hand Operated - Chain Pulley Block

- CE approved
- Conforms to International Standard
- Warranted for 12 months
- Minimal effort to lift
- Smooth function
- Triple spur gear
- Load chain grade 80
- Compact Size
- Safety factor 4 times
- Enclosed brake mechanism



CAPACITY(TONNES)	0.5	1	1.5	2	2	3	5	10	20
Model	KT 0.5	KT 1	KT 1.5	KT 2(1)	KT 2(2)	KT 3	KT 5	KT 10	KT 20
Standard Lift (Meters)	3	3	3	3	3	3	3	3	6
Column of Load Chain	1	1	1	1	2	2	2	4	8
Load Chain Dia	6	6	8	8	6	8	10	10	10
Head Room "H" (mm)	280	306	368	444	368	520	616	700	1000
Efforts required to lift max load (N)	221	304	343	457	390	390	420	392	392
Top / Bottom Hook opening "C" (mm)	37	45	49	52	52	67	78	85	92
Net Weight (Kg)	8	11	16.5	16.7	16	23	37	69	229
Extra weight per meter (Kg)	1.7	1.7	2.3	2.3	2.5	3.7	5.3	9.6	19.4



# Electrically Operated Wire Rope Hoist

- Warranted for 12 months
- Class IV
- Capacity 1 Ton to 10 Ton
- Lift 6 mtrs to 30 mtrs
- Smooth Function
- Conical-Rotor Brake Motor
- 415V – 3 Ph
- Overload Protection System
- Limit Switch Provided
- Secondary Limit Switch for Extra Safety
- 36 Volt Pendant Control
- Made as per International Standard
- Wrong Connection Protection System
- Rope Guide made of special Closed Grain Casting



Capacity	Ton	1						2						3						5						10						
No. of Fall		2						2						2						2						4						
Dia of wire Rope	mm	8						11						13						16						16						
Hoist Height	m	6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30	
Hoist Speed	m/min	8						8						8						8						7						
Cross Travel Speed	m/min	20						20						20						20						20						
Movement Track	I-Beam Type(15MB), mm	175x85-250x125				175x85-250x125		200x100-4				175x85-250x125				250x125-500x180				250x125-500x180												
	Min Curvature Radius	m	1.8	2	2.5	3.5	1.8	2	2.5	3.5	1.8	2	2.5	3.5	1.8	2.5	3	4	2.5	3	3.5	4.5	6	7.2								
Hoist Motor Power	kw	1.5						3						4.5						7.5						13						
Cross Travel Motor Power	kw	0.2						0.4						0.4						0.8						0.8x2						
Dimension	L	mm	760	855	955	1150	1345	1540	820	920	1020	12020	1420	1620	930	1030	1136	1342	1548	1754	1052	1157	1262	1472	1682	1892	1501	1682	1863	2225	2587	2949
	L1	mm	185						205						205						228						228					
	L2	mm			316	512	708	904			290	412	612	182			350	556	762	968			465	675	885	1095	530	582	763	1125	1487	1849
	f	mm	719			810			856			956			961			1064			1177			1327			1350					
	Bmax	mm	897						935						935						1067						1067					
Total Weight+10%	Fixed Type	kg	130	140	157	172	186	203	174	190	208	232	260	284	234	276	310	244	374	390	410	431	476	505	545	764	820	874	1001	1090	1174	
	With Cross Travel Movement	kg	170	180	207	222	236	253	230	244	299	315	337	357	308	330	392	408	434	472	494	517	601	648	691	735	1010	1066	1120	1232	1336	1440

# Electric Chain Hoist



- Extra Heavy Duty
- Durable Limit Switch
- Fail Safe Brake
- Phase Preventer
- Designed for Very Long Lifts
- Low Voltage Pendant Control 36V
- Overload Protection Device
- Grade 80 Alloy Steel Chain
- Unique Chain Guide Device for Smooth Operation
- 360 Degree Swivel Bottom Hook for Easy
- Positioning Completely Enclosed Body for Indoor and Outdoor Applications



model No.	Rated Load (ton)	Lift	Lifting Speed (mtr.)	Motor Power (kw)	Load Chain Dia (mm)	No. of fall	Weight (kg.)	Dimensions (approx.) in mm					
								A	B	D	E	H	J
KECH005	0.5	3	6.8	0.75	6.3	1	50	455	240	285	165	540	28
KECH01	1	3	6.6	1.5	7.1	1	54	520	260	300	176	650	32
KECH02	2	3	3.3	1.5	7.1	2	58	520	260	300	236	835	40
KECH03	3	3	2.2	1.5	11.2	3	68	520	260	350	205	950	48
KECH05	5	3	2.7	3	11.2	2	116	615	295	430	325	1030	48
KECH07	7.5	3	1.8	3	11.2	3	182	615	295	505	320	1200	80
KECH10	10	3	2.7	3.0x2	11.2	4	289	630	315	890	445	1400	80



# Electrical Trolley

- Wheels are lubricated well and are fitted with strong bearings
- Contains strong shafts
- Have latest setting of overloading safety protection
- Reliability of the product is enhanced by adjusting hot protection setting inside it
- Enables quick lifting
- Has excellent finish



Model No.	Rated	Cable	Running	Motor	I-Beam Width (S)	Major Dimensions (Appx.) in mm				Minimum	Weight (kg.)
	Load	Length	Speed	Power		A	B	R	T	Radius of	
	(ton)	(mtr.)	(m/min)	(kw)	(mm)						
KET005	0.5	3	21	0.4	52-153	315	212	142	231	0.8	40
KET01	1	3	21	0.4	52-153	315	212	142	231	0.8	40
KET02	2	3	21	0.4	82-178	325	220	142	231	0.8	49
KET03	3	3	21	0.75	100-178	340	250	142	231	1	63
KET05	5	3	11	0.75	100-178	400	291	142	231	1.8	88
KET07	7.5	3	11	0.75	100-178	400	291	142	231	1.8	95
KET10	10	3	11	0.75	150-220	500	370	142	231	2.5	115

# Hand Operated Geared Travelling Trolley

- Rugged steel construction of frame.
- Lifetime lubricated double sealed ball bearings.
- Specially contoured wheels made of high grade cast iron make perfect contact on I and H beams.
- The travelling wheel axles are made of high tensile steel.
- Adjustable to various size wide angle and I-Beams.
- Proof tested to 25% overload.
- Design generally complies with international standards.
- All products are warranted to be free from defects in materials and workmanship for six months from the date of supply.
- Capacity from 1 ton to 20 ton.



Model	Capacity	Test	Running	Force	Min. radius	Dimensions (min)										I beam width range			
	load	load	height		of curve											(mm)			
						A										M			
	(T)	(kn)	(Mtr)	(kgf)	(m)	a	b	B	C	H	S	D	G	F	a	b	a	b	
KGT-1	1	1.25	3	5	0.9	336	436	213	194	96	38	37	40	1.5"3	64"203	64"305	14.5	16	
KGT-2	2	2.5	3	9	1	343	445	268	225	109	38	42	52	1.5"3	88"203	88"305	22	24	
KGT-3	3	2.75	3	9.5	1.2	357	459	322	266	124	40	52	63	1.5"3	100"203	100"305	34	38	
KGT-5	5	6.25	3	14	1.3	373	475	362	301	142	42	62	74	1.5"3	114"203	114"305	47	53	
KGT-10	10	12.5	3	24	2	406	508	442	396	190	45	72	110	2"3.5	124"203	124"305	88	94	
KGT-20	20	25	3	25	3.5	501	604	555	498	233	58	95	135	2"3.5	136"203	136"305	165	174	



# Manila, Sisal & Polypropylene Ropes



Made from natural fibers Manila & Sisal Ropes are the best of their kind in India. Made in accordance to rigid 1.5.1 specification. Ropes are available in sizes varying from 4mm ma to /6mm dia in Manila (Grade III & III) and sisal (Grade 'A'). Their distinct and superior characteristics offer both high breaking strength and maximum flexibility in use.

Dia in mm.	Circumference in Inches	Min. No of yarns per strands	Approx. Wt. per coil of 220 meters	Manilla Grade I	Manilla Grade II	Manilla Grade III	Sisal
8	1	3	12	545	483	419	483
10	1 1/2	4	15	705	635	559	635
12	1 1/2	6	23	1065	955	838	955
14	1 3/4	8	31	1450	1285	1118	1285
16	2	10	42	2030	1805	1576	1805
18	2 1/4	13	49	2440	1880	2135	1880
20	2 1/2	16	61	3250	2845	2215	2845
22	2 3/4	19	73	3860	3405	2972	3405
24	3	23	88	4570	4065	3556	4065
26	3 1/4	27	103	5335	4725	4140	4725
28	3 1/2	31	118	6095	5325	4725	5325
30	3 3/4	36	138	6860	6095	5385	6095
32	4	41	155	7875	6860	6071	6860
36	4 1/2	52	197	9650	8635	7570	8635
40	5	64	244	11940	10415	9703	10415



# Polypropylene Ropes

## 3 Strand Industrial Ropes (Polypropylene Ropes)

### Safety

Safety Nets  
 Jumping Ropes,  
 Helipad Nets.  
 Gangway Nets  
 Escape Rope  
 Ladders  
 Scramble Nets.  
 Bulk Cargo Nets.

### Defence

Repelling.  
 Slithering &  
 Jackstay Ropes.  
 Arrestor Barriers  
 & Helideck nets.  
 Tentage &  
 Reinforcement  
 Rope Ropeways &  
 Rope Bridges

### Material Handling

Tower erection &  
 Cable Pulling Slings  
 for Metal Tube  
 Handling  
 Panton Bodes  
 Sugarcane Trolley  
 Pulling

- Floats. Will not absorb water
- Good strength and minimal stretch
- Twice the tensile strength of manila rope
- Yellow. Additional colors available



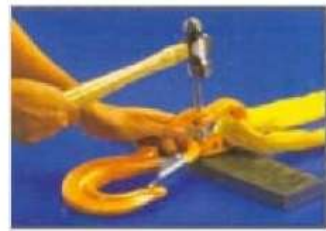
Dia in mm.	Breaking Strength in Kgf	Runnage in Meter per Kgs	Wt. Per coil of 220 mtr. in Kg.	Breaking Strength in Kgf	Runnage in Meter per Kgs	Wt. Per coil of 220 mtr. in Kg.
4	214	135.00	1.63	320	95.24	2.30
6	602	60.00	367	750	44.40	4.95
8	1060	33.30	6.60	1345	25.00	8.80
10	1560	22.00	10.00	2088	16.20	13.60
12	2210	15.20	14.50	2995	11.20	19.60
14	3050	11.00	20.00	4095	8.20	26.80
16	3770	8.60	25.50	5300	6.30	35.00
18	4810	6.80	32.50	6695	5.00	44.00
20	5800	5.50	40.00	8300	4.10	54.00
22	6960	4.50	48.50	10000	3.30	66.00
24	8130	3.90	57.00	12000	2.80	78.00
26	9410	3.20	67.60	13950	2.40	92.40
28	10700	2.80	78.00	15800	2.10	107.00
30	12220	2.50	89.00	17755	1.80	122.10
32	13500	2.20	101.00	20000	1.60	139.00
36	16930	1.70	129.00	24900	1.25	176.00
40	20510	1.40	158.00	30000	1.00	218.00
44	24640	1.13	194.00	35800	0.80	264.00
48	28610	0.96	229.00	42000	0.70	312.00



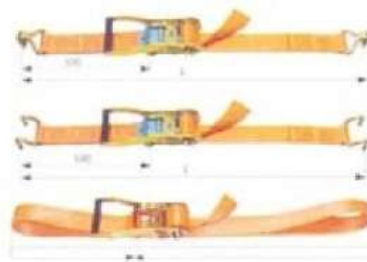
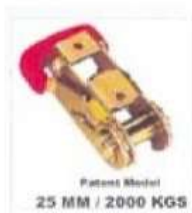
# Polyester Sling & Ratchet Lashing

## Multi – Leg Polyester Sling

Width	Colour	CAPACITY			
		S.W.L. 1 Leg	S.W.L. 2 Leg	S.W.L. 3 Leg	S.W.L. 4 Leg
MM		0 Deg	90 Deg	90 Deg	90 Deg
		Kgs	Kgs	Kgs	Kgs
25	VIOLET	1000	1430	2100	2100
50	GREEN	2000	2850	4200	4200
75	YELLOW	3000	4300	6300	6300
100	GREY	4000	5700	8400	8400
125	RED	5000	7150	10500	10500
150	BROWN	6000	8570	12630	12630
200	BLUE	8000	11400	16850	16850
250	BROWN	10000	14300	21000	21000



## Ratchet Lashing





# Webbing & Round Slings






## Triplex Webbing Slings

ST-3		Type : TRIPLEX (Safety Factor 1:7) ST-3						
M* = mode factor		CAPACITY						
ITEM CODE	WIDTH	COLOUR	S.W.L.	S.W.L.	S.W.L.	S.W.L.	S.W.L.	Guaranteed min. breaking load
			vertical lift	basket lift	choker lift	45deg lift	90deg lift	
								
ST-1	MM		M* = 1	M = 2	M = 0.8	M = 1.8	M = 1.4	
ST-1500	25	VIOLET	1500	3000	1200	2700	2100	10500
ST-3500	50	GREEN	3500	7000	2800	6300	4900	24500
ST-5500	75	YELLOW	5500	11000	4400	9900	7700	38500
ST-7500	100	GREY	7500	15000	6000	13500	10500	52500
ST-9500	125	RED	9500	19000	7600	17100	13300	66500
ST-12500	150	BROWN	12500	25000	10000	22500	17500	87500
ST-17000	200	BLUE	17000	34000	13600	30600	23800	119000
ST-19000	250	ORANGE	19000	38000	15200	34200	26600	133000
ST-23000	300	ORANGE	23000	46000	18400	41400	32200	161000

## Quadraplex Webbing Slings

ST-4		Type : QUADRAPLEX (As per MFR'S Standards - Safety Factor 1:7) ST-4						
M* = mode factor		CAPACITY						
ITEM CODE	WIDTH	COLOUR	S.W.L.	S.W.L.	S.W.L.	S.W.L.	S.W.L.	Guaranteed min. breaking load
			vertical lift	basket lift	choker lift	45deg lift	90deg lift	
								
ST-1	MM		M* = 1	M = 2	M = 0.8	M = 1.8	M = 1.4	
ST-2500	25	VIOLET	2500	5000	2000	4500	3500	17500
ST-5000	50	GREEN	5000	10000	4000	9000	7000	35000
ST-7500	75	YELLOW	7500	15000	6000	13500	10500	52500
ST-10000	100	GREY	10000	20000	8000	18000	14500	70000
ST-12500	125	RED	12500	25000	10000	22500	17500	87500
ST-17000	150	BROWN	17000	34000	13600	30600	23800	119000
ST-22500	200	BLUE	22500	45000	18000	40500	31500	157500
ST-25000	250	ORANGE	25000	50000	20000	45000	35000	175000
ST-30000	300	ORANGE	30000	60000	24000	54000	42000	210000

## Heavy Duty Round Endless Slings

M* = mode factor		CAPACITY (Safety Factor 1:7)						
ITEM CODE	WIDTH	COLOUR	S.W.L.	S.W.L.	S.W.L.	S.W.L.	S.W.L.	Guaranteed min. breaking load
			vertical lift	basket lift	choker lift	45deg lift	90deg lift	
								
ST-1	MM		M* = 1	M = 2	M = 0.8	M = 1.8	M = 1.4	
			kgs.	kgs.	kgs.	kgs.	kgs.	kgs.
ST-500	15	VIOLET	500	1000	400	900	700	3500
ST-1000	18	VIOLET	1000	2000	800	1800	1400	7000
ST-2000	20	GREEN	2000	4000	1600	3600	2800	14000
ST-3000	22	YELLOW	3000	6000	2400	5400	4200	21000
ST-4000	25	GREY	4000	8000	3200	7200	5600	28000
ST-5000	27	RED	5000	10000	4000	9000	7000	35000
ST-6000	32	ORANGE	6000	12000	4800	10800	8400	42000
ST-8000	38	BLUE	8000	16000	6400	14400	11200	56000
ST-10000	46	ORANGE	10000	20000	8000	18000	14000	70000
ST-12000	58	ORANGE	12000	24000	9600	21600	16800	84000
ST-15000	70	ORANGE	15000	30000	12000	27000	21000	105000
ST-20000	78	ORANGE	20000	40000	16000	36000	28000	140000
ST-25000	90	ORANGE	25000	50000	20000	45000	35000	175000
ST-30000	100	ORANGE	30000	60000	24000	54000	42000	210000
ST-36000	114	ORANGE	36000	72000	28800	64800	50400	252000
ST-40000	125	ORANGE	40000	80000	32000	72000	56000	280000
ST-50000	180	ORANGE	50000	100000	40000	90000	70000	350000
ST-75000	200	ORANGE	75000	150000	60000	135000	105000	525000
ST-100000	250	ORANGE	100000	200000	80000	180000	140000	700000





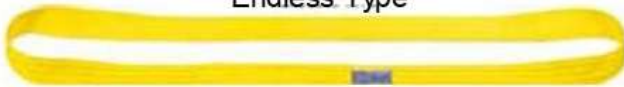
# Webbing Sling

## Simplex Webbing Sling

A flat webbing sling are manufactured from high tenacity, 100% polyester yam. Simplex slings is a single layered webbing. Sling ends are terminated either m reinforced loops or any combination of meta; end fittings. Manufacturer's test certificate is provided for safe work load along with the slings Simplex slings are preferred because of their board width which gives wider support of lifts The slings of three types, namely simplex sling with soft eyes, simplex sling with metal end fitting and endless sling They normally lift loads with the sling reeved around the load (Choke hitch), or on two parts of the sling (Basket hitch), they are tested in straight pull.



Endless Type



Eye & Eye Type



ST-1		Type : SIMPLEX-ST-1						
ITEM CODE	WIDTH	COLOUR	CAPACITY					Guaranteed min. breaking load
			S.W.L. vertical lift	S.W.L. basket lift	S.W.L. choker lift	S.W.L. 45deg lift	S.W.L. 90deg lift	
ST-1	MM		M* =1	M =2	M =0.8	M =1.8	M =1.4	
			kgs.	kgs.	kgs.	kgs.	kgs.	kgs.
ST-500	25	VIOLET	500	1000	400	900	700	3500
ST-1000	50	GREEN	1000	2000	800	1800	1400	7000
ST-1500	75	YELLOW	1500	3000	1200	2700	2100	10500
ST-2000	100	GREY	2000	4000	1600	3600	3800	1400
ST-2500	125	RED	2500	5000	2000	4500	3500	17500
ST-3000	150	BROWN	3000	6000	2400	5400	4200	21000
ST-4000	200	BLUE	4000	8000	3200	7200	5600	28000
ST-5000	250	ORANGE	5000	10000	4000	9000	7000	35000
ST-6000	300	ORANGE	6000	12000	4800	10800	8400	42000

## Duplex Webbing Slings



ENDLESS TYPE



EYE & EYE TYPE



ST-2		Type : DUPLEX / ENDLESS ST-2 (Safety Factor 1:7)						
ITEM CODE	WIDTH	COLOUR	CAPACITY					Guaranteed min. breaking load
			S.W.L. vertical lift	S.W.L. basket lift	S.W.L. choker lift	S.W.L. 45deg lift	S.W.L. 90deg lift	
ST-1	MM		M* =1	M =2	M =0.8	M =1.8	M =1.4	
			1000	2000	800	1800	1400	7000
ST-1000	25	VIOLET	1000	2000	800	1800	1400	7000
ST-2000	50	GREEN	2000	4000	1600	3600	2800	14000
ST-3000	75	YELLOW	3000	6000	2400	5400	4200	21000
ST-4000	100	GREY	4000	8000	3200	7200	5600	28000
ST-5000	125	RED	5000	10000	4000	9000	7000	35000
ST-6000	150	BROWN	6000	12000	4800	10800	8400	42000
ST-8000	200	BLUE	8000	16000	6400	14400	11200	56000
ST-10000	250	ORANGE	10000	20000	8000	18000	14000	70000
ST-12000	300	ORANGE	12000	24000	9600	21600	16800	84000



# 8 Strand Mooring Ropes



- A world leader in the manufacturer of Synthetic Ropes, Twines and Nets
- An ISO 9001 2000 Certified Company
- Exports to more than 55 countries
- Extension distributions network

## Polypropylene Rope

- High breaking strength
- Good abrasion resistance
- Inert to chemicals
- Better runnage & low elongation



## Shipping :

- Mooring lines
- Splash target ropes
- Splash target ropes
- Anchoring ropes
- Towing lines / Messenger lines

## Nylon Rope

- Excellent breaking strength & higher elongation
- Good shock load adsorption
- Strong 8 Durable



## Rope Articles:

- Towing stretchers
- SPM Hawsers

## Maxiflex ( Composite Fibre ) Rope :

- Higher strength compared to Nylon
- Flexible 8 Low elongation



## Oil Exploration:

- On board oil rigs
- Oil Exploration Platform

Circ in Inches	Dia in MM	Polypropylene Rope		Nylon Rope		Maxima		Maxiflex / Tufflex	
		220 Mtr. KG	Breaking Strength	220 Mtr. KG	Breaking Strength	220 Mtr. KG	Breaking Strength	220 Mtr. KG	Breaking Strength
4.0	32	101.00	13500	139.00	20000	101.00	18500	124.00	20000
4.5	36	129.00	16930	176.00	24900	129.00	23250	157.00	24900
5.0	40	158.00	20510	218.00	30000	158.00	28000	195.00	30000
5.5	44	198.00	24640	264.00	35800	194.00	34000	238.00	35800
6.0	48	229.00	28610	312.00	42000	229.00	39500	282.00	46290
6.5	52	268.00	33110	365.00	48800	268.00	45500	330.00	54300
7.0	56	312.00	37850	425.00	56000	312.00	52000	378.00	62800
8.0	60	359.00	43280	486.00	63800	359.00	59500	438.00	72000
8.0	64	407.00	48960	554.00	72000	407.00	67500	495.00	82600
9.0	72	515.00	61500	702.00	89900	515.00	84500	627.00	102000
10.0	80	638.00	75640	867.00	109800	638.00	104000	775.00	125500
11.0	88	772.00	90760	1049.00	130800	772.00	125000	1100.00	156000
12.0	96	916.00	107100	1250.00	153900	916.00	148000	1315.00	185000
13.0	104	1078.00	122900	1425.00	182140	1075.00	173500	1540.00	216000
14.0	112	1254.00	141830	1698.00	210200	1250.00	201000	1790.00	250000
15.0	120	1430.00	162860	1951.00	240200	1435.00	230000	2050.00	286000



# Types of Net



PP CARGO Net



Human Safety Net



Floor Net



Construction Safety Net



Kids Play Area Net



Drill Floor Net



Helipad Safety Net



## Vertical Plate Lifting Clamp

- To turn plates from horizontal to vertical positions, Vertical Plate-lifting Clamps are used
- Tough steel jaws are involved to ensure tight locking
- It is easy to handle
- Enables firm grip
- Its spring locks attach clamps to the plates easily



Capacity (T)	1	2	3	5	8	10	15	20
Model	KVC 1	KVC 2	KVC 3	KVC 5	KVC 10	KVC	KVC	KVC
Jaw Open (mm)	0-22	0-30	0-35	0-50	0-60	0-85	0-100	0-100
Weight (Kg)	3.5	7	10.5	16	35	37	80	85

## Horizontal Plate Lifting Clamp

- Transfer the plate horizontally only
- Both locking and non-locking models are available
- Customized lifting hook
- Is easy to use
- Has a great working limit of loads

Capacity (T)	1	2	3	5	8
Model	KHC 1	KHC 2	KHC 3	KHC 5	KHC 8
Jaw Open (mm)	0-30	0-40	0-45	0-55	0-100
Weight (Kg)	4	7.2	8	9	14



## Universal Plate Lifting Clamp

- Various models of lifting clamps are available to transfer and lift steel plates
- Its hinged eyes enable it to lift loads from all directions
- Ensures optimum reliability
- Manufactured from high quality steel
- Has bigger jaw openings and outstanding lifting capacity



Capacity (T)	0.5	1	2	3	5	8	10	15	20
Model	KUC .5	KUC 1	KUC 2	KUC 3	KUC 5	KUC 8	KUC10	KUC15	KUC 20
Jaw Open (mm)	0-15	0-20	0-25	0-30	0-50	0-60	0-65	50-130	50-130
Weight (Kg)	1.7	4.5	8	15	20	28	46	65	72



# Universal Gearless Hand Operated Pulling & Lifting Machine

- Manufactured in accordance with International standard for safety, quality and performance.
- High strength pressure die cast aluminum alloy body for heavy duty applications.
- Backward lever & forward lever placed in tandem providing a slim design and assuring power transfer along the center.
- Anchor Bolt offers numerous and versatile connecting possibilities with load hooks, sling rope and chains.
- Adjustable telescopic handle for smooth and easy operation.
- Jaw grips Drop-Forged from alloy steel, precision machined heat treated to prevent rope slip.
- Anchor hooks made of Drop-Forged steel.
- Specially designed Reels: Galvanized Steel Wire Rope Mounted on specially designed reel to prevent early wear and tear of wire rope and hook.
- Rope clamp system: easily disengaged with a lever allowing smooth installation of wire rope.

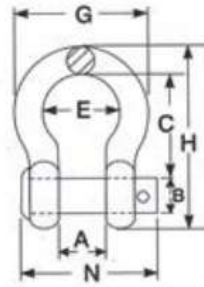
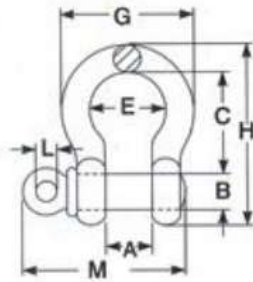


CAPACITY in Tonnage	Lifting	0.8	1.6	3.2	5.4
	Pulling	1.2	2.6	5.2	8
Model		KPL 08	KPL 16	KPL 32	KPL 54
Standard Length of Rope (Meters)		20	20	20	20
Dia of Wire Rope (mm)		8.3	11	16	20
Effort Lever Pull at Rated Load (N)		284	412	441	745
Forward Travel (mm)		52	55	28	30
Weight (kg)		6	12	22	57
Dimensions (mm)	A	426	545	660	930
	B	235	280	325	480
	C	64	97	116	152
	L1	800	800	800	800
	L2	800	1200	1200	1200

# Alloy Steel Bow Shackles



Screw pin type



Bolt type Anchor Shackle

Norn. Size (In.)	Working Load Limit*(Tons)	Dimension (mm)												Weight Each Kg.	
		A	B	C	D	E	F	G	H	L	M	N	P	ST-SP 209	LT-BT 2130
3/8	1	16.8	11.2	36.4	9.65	26.1	23.1	45.2	63.0	6.40	51.5	47.2	55.0	0.1	0.15
1/2	2	20.6	16.0	47.7	12.7	33.3	30.2	58.5	83.5	9.65	68.5	60.5	71.0	0.3	0.35
5/8	3 1/4	26.9	19.0	60.5	16.0	42.9	38.1	74.5	106	11.2	85.0	74.0	89.5	0.6	0.8
3/4	4 3/4	31.8	22.4	71.0	19.1	51.0	46.0	89.0	126	12.7	101	87.5	103	1.0	1.32
7/8	6 1/2	36.6	25.4	84.0	22.4	58.0	53.0	102	148	12.7	114	97.0	120	1.5	1.8
1	8 1/2	42.9	28.7	95.0	25.4	68.5	60.5	119	167	14.2	129	115	135	2.4	2.8
1 1/8	9 1/2	46.0	31.8	108	28.7	74.0	68.5	132	190	16.0	142	130	129	3.1	3.8
1 1/4	12	51.5	35.1	119	31.8	82.5	76.0	146	210	17.5	156	140	165	4.3	5.4
1 3/8	13 1/2	57.0	38.1	133	35.1	92.0	85.0	162	233	19.1	174	156	183	6.0	7.18
1 1/2	17	60.5	41.4	146	38.1	98.5	92.0	175	254	20.6	187	165	196	7.8	9.5
1 3/4	25	73.0	51.0	178	44.5	127	106	225	313	25.4	231	197	230	13.78	15.4
2	35	82.5	57.0	197	51.0	146	122	253	348	31.0	263	222	264	20.4	23.7
2 1/2	55	105	70.0	267	66.5	184	145	327	453	35.1	330	-	344	38.9	44.5
3	85	127	82.5	330	76.0	200	165	365	546	-	-	-	419	-	70

## Side Loading Reduction Chart For Screw Pin and Bolt Type Shackles Only

Angle of Side Load from Vertical in-Line of shackle	Adjusted Working Load Limit
0" In-Line *	100% of Rated Working Load Limit
45" from In-Line *	70% of Rated Working Load Limit
90" from In-Line *	50% of rated working Load Limit

- Working Load Limit permanently shown in every shackle.
- Forged Quenched and Tempered, with alloy pins
- Capacities 1 thru 85 tons
- Look for the Blue Pin the mark of genuine ELTECH quality
- Galvanized or Self Colored
- Fatigue rated

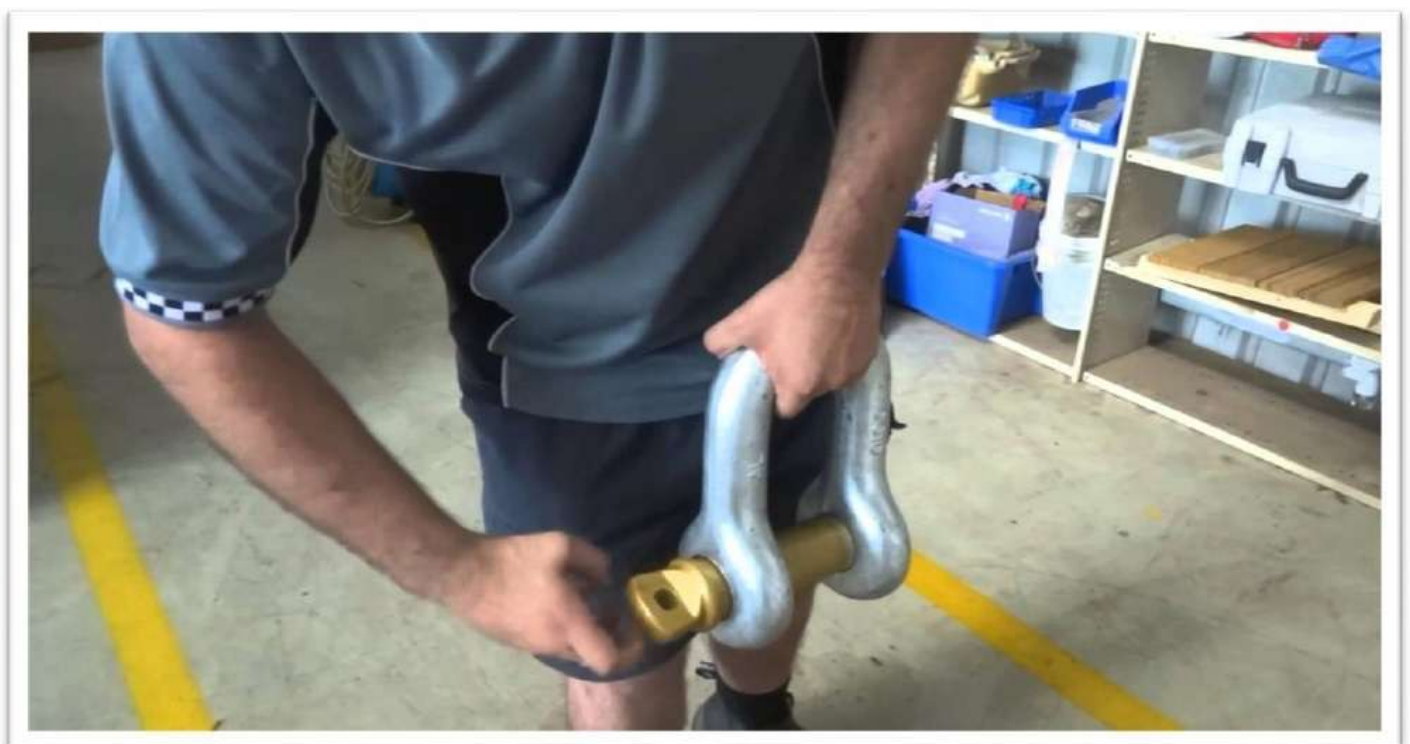


## D-Shackles

- Conforms to International Standard.
- Rigid, Durable and Smooth Functioning.
- Axial alignment of the holes in the body, as well as straightness of the machined pin are maintained accurately.
- Available in Grade S(6).
- Protective Finish – Shackles are E-coated.
- Material: Pin – Alloy Steel, Body – Carbon Steel.

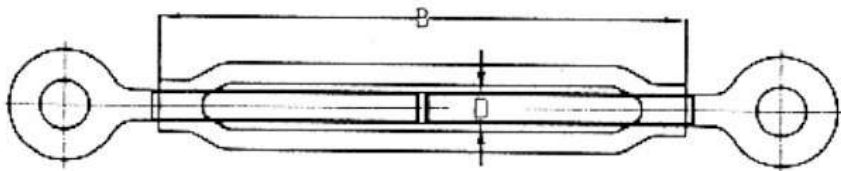


SIZE (Inch)	WLL (Ton)
3/8	1
1/2	2
5/8	3.25
3/4	4.75
7/8	6.5
1	8.5
1½	9.5
1¼	12
1¾	13.5
1½	17
1¾	25
2	35
2½	55
3	85



## Turn Buckles

- Conforms to International Standard.
- Sturdy, Smart, sparkling and long lasting.
- Body made from forged steel conform to IS: 1570 -1961, Designation C20, weldless.
- Axial alignment of the threaded holes in the body at opposite end are maintained accurately.
- Components are duly normalised after forging.
- Screwed eyes are made from steel, threaded portion are machined precisely.
- Available sizes and capacities are stated in the table.
- Protective Finish - Turn Buckles are Galvanised / Zinc coated or as desired.
- Each Turn Buckle is Proof Load Tested.



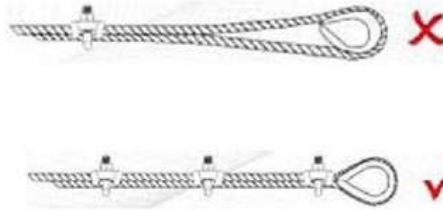
Size MM	Dimensions ( mm )		Safe Working Load TON	Proof Load TON
	"D"	"B"		
M6 X 100	M6	100	0.1	0.2
M8 X 125	M8	125	0.15	0.3
M10 X 160	M10	160	0.3	0.6
M12 X 200	M12	200	0.45	0.9
M16 X 250	M16	250	0.76	1.52
M20 X 315	M20	315	1.14	2.24
M22 X 355	M22	355	1.62	3.24
M24 X 400	M24	400	2	4
M30 X 450	M30	450	3.15	6.3
M36 X 450	M36	450	4.5	9
M39 X 450	M39	450	5	10
M45 X 450	M45	450	7.1	14.2
M52 X 450	M52	450	9.5	19
M56 X 450	M56	450	15	30
M62 X 450	M62	450	20	40



# Forged wire Rope Clamps / Clips

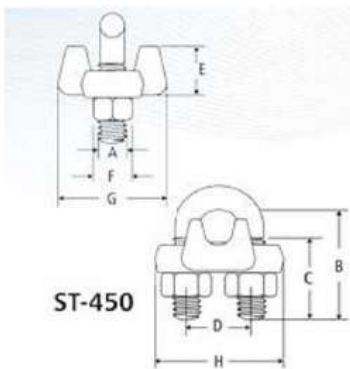
As per U.S. Federal Specifications

## Drop Forged Wire Rope Clips



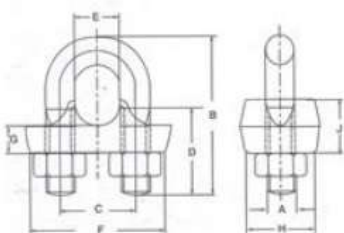
Look for the Galvanised Black-U-Bolt your assurance of ST Clips

- Entire Clips are Galvanized / Powder Coated to resist corrosive and rusting action.
- Only Genuine Clips have a colour code for instant recognition.
- All Clips have rolled threads and extra heavy nuts



Rope Size		Dimensions								Min no of Clips	Amt. of Rope to Turn Back in (cm)
(in.)	(mm)	A	B	C	D	E	F	G	H		
3/8	9-10	11.2	38.1	19.1	25.4	23.1	19.2	41.4	49.3	2	16.5
1/2	13	12.7	47.8	25.4	30.2	28.7	22.4	48.5	58.0	3	29.2
5/8	16	14.2	60.5	31.8	33.3	34.0	23.9	52.5	63.5	3	30.5
3/4	18-20	15.8	70.0	36.6	38.1	35.8	26.9	57.0	72.0	4	46
7/8	22	19.1	79.5	41.2	44.5	40.4	31.8	62.0	80.5	4	48
1	24-26	19.1	89.0	46.0	47.8	45.2	31.8	67.0	88.0	5	66
1 - 1/8	28-30	19.1	98.5	51.0	51.0	48.5	31.8	71.5	91.0	6	86
1 - 1/4	32-34	22.4	108	54.0	58.5	55.5	36.3	79.5	105	7	112
1 - 3/8	36	22.4	118	58.5	60.5	58.5	36.3	79.5	106	7	112
1 - 1/2	38-40	22.4	125	60.5	65.5	62.0	36.3	86.5	113	8	137
1 - 3/4	44-46	28.7	146	70.0	77.5	74.5	46.0	97.0	134	8	155
2	48-52	31.8	164	76.0	86.0	83.5	51.0	113	149	8	180

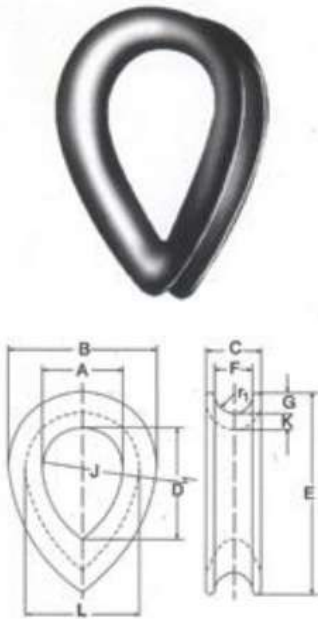
## Bull Dog Grips



Nominal Size (Dia of Rope) d	Dimensions of Bulldog Grip									
	A	B	C	D	E	F	G	H	J	
8	MB	40	17	21	9	33	8	18	14	
9	M10	50	21	26	11	41	10	23	18	
10	M10	50	21	26	11	41	10	23	18	
11	M12	60	25	31	13	49	12	28	22	
12	M12	60	25	31	13	49	12	28	22	
13	M12	64	27	32	15	51	12	28	22	
14	M12	64	27	32	15	51	12	28	22	
16	M14	74	31	38	17	59	14	32	25	
18	M14	82	36	40	22	64	14	32	25	
19	M14	82	36	40	22	64	14	32	25	
20	M14	82	36	40	22	64	14.3	32	25	
22	M16	92	40	45	24	72	16	37	29	
24	M20	110	47	55	27	87	20	49	36	
26	M20	118	51	57	31	91	20	46	36	
28	M20	118	51	57	31	91	20	46	36	
32	M20	124	54	59	34	94	20	46	36	
35	M22	136	60	65	38	104	22	51	40	
36	M22	142	63	67	41	107	22	51	40	
38	M22	142	63	67	41	107	22	51	40	
41	M22	157	63	75	41	119	25	58	45	

# Thimble used with wire Ropes

## Ordinary Thimbles



Nominal Size of Rope	A	B	C* Min	D	E	F* Min	G	r1	J Approx	K	L
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
8	22	38	13	34	54	9	4	AA	62	4	30
10	24	46	15	38	64	11	6	5.5	76	5	34
12	32	60	19	44	80	13	8	6.6	90	6	44
14	32	60	21	44	80	15	8	7.7	90	6	44
16	40	72	23	58	98	17	8	8.8	114	8	56
18	44	80	29	66	110	19	10	9.9	125	8	60
20	50	94	31	74	124	21	12	11.0	150	10	70
22	58	102	34	82	134	24	12	12.1	165	10	78
24	64	108	36	92	150	26	12	13.2	176	10	84
25	70	118	37	108	162	27	14	13.75	200	10	90
29	76	132	41	112	176	31	16	15.95	230	12	100
32	96	152	44	134	196	34	16	19.2	250	12	120
35	104	174	48	152	228	38	19	21.0	300	16	136
38	114	198	54	165	254	41	24	22.8	330	18	150
41	114	198	56	165	254	44	24	24.6	330	18	150
44	125	222	57	178	285	47	26	26.4	355	25	175
48	134	246	67	190	315	51	28	28.8	380	28	190
51	140	256	70	200	330	55	30	30.6	400	28	196
54	140	256	70	200	330	58	30	32.4	400	28	196
57	146	270	76	216	355	61	32	34.2	425	30	206
64	156	308	95	240	400	69	44	38.4	450	32	220
70	200	400	120	275	500	75	60	45.0	480	40	280

## Solid Thimbles



Nominal Size of Rope	B	C	E	F Min	G	r1	L	M* Max
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
8	33	11	46	9	4	4.4	25	12
10	44	15	56	11	6	5.5	32	16
12	60	20	82	13	8	6.6	44	22
14	60	21	82	15	8	7.7	44	22
16	70	23	94	17	10	8.8	50	25
18	80	26	104	19	12	9.9	56	28
20	88	28	116	21	12	11.0	64	32
22	100	30	125	24	14	12.1	72	34
24	104	33	140	26	14	13.2	76	38
25	114	36	150	27	16	13.75	82	42
29	124	39	165	31	18	15.95	88	44
32	140	45	190	34	20	19.2	100	50
35	154	50	208	38	20	21.0	114	56
38	169	56	234	41	22	22.8	125	64
41	169	56	234	44	22	24.6	125	64
44	190	65	260	47	25	26.4	140	68
48	206	67	275	51	28	28.8	150	75
51	229	72	300	55	32	30.6	165	78
54	229	76	300	58	32	32.4	165	78
57	243	78	330	61	34	34.2	175	88
64	276	88	375	69	38	38.4	200	100

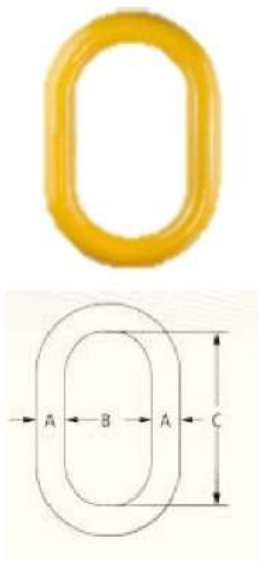
Note: For wire ropes of intermediate sizes, the next larger size of thimble shall be used.

\* Dimensions M is the standard pin-hole and the largest pin-hole for each thimble. Should a smaller pin-hole be required, the diameter of this shall be stated in the enquiry and order.



# Alloy & Welded Master Links

## Alloy Master Links

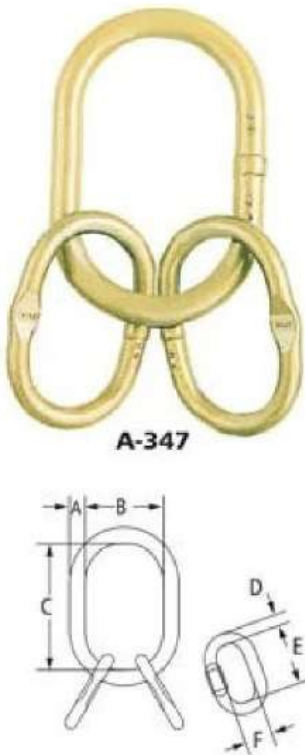


Size "AA" (mm)	Will SF = 5/1 for Rope (t)*	Will SF = 4/1 for Chain (t)*	Proof load in KN**	Weigh Each (KG)	Dimensions (mm)		
					B	C	Deformation Indicator
** 13	3.17	2.54	63	0.37	63.5	127	76
** 16	4.08	3.26	81	0.69	76.0	152	89
** 19	5.58	4.46	127	0.94	70.0	140	89
**22	6.80	5.45	134	1.59	95.5	162	114
** 25	11.05	8.83	217	2.20	89.0	178	114
**32	16.42	13.13	323	4.34	111	222	140
** 38	25.67	20.54	504	7.36	133	267	165
** 44	38.51	30.81	756	11.4	152	305	191
** 51	46.54	37.23	913	16.8	178	356	229
** 57	65.6	52.47	1287	24.5	203	406	-
**63	72.6	58.06	1311	30.7	203	406	-

• Based on single leg sling (in line-load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees.

\*\* Proof test load equals or exceeds the requirement of ASTM A952(8:1) and ASME B30.9-1.4 for the chain size and number of legs, For use with chain slings.

## Welded Master Links



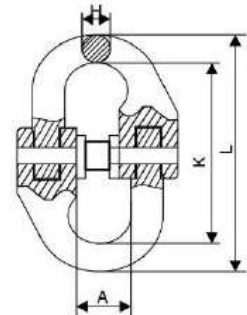
Size (mm)	Working Load Limit (t)*		Weight Each (kg)	Dimensions (mm)						Engineered Flat Size for S- 325A (in) - (mm)
	4:01	5:01		A	B	C	D	E	F	
13/12	2.36	2.40	0.81	13.0	60.0	120	12.0	85.0	45.0	No Flat
17/13	3.15	3.20	1.56	17.0	90.0	160	13.0	120	60.0	No Flat
19/13	4.25	4.20	1.79	19.0	90.0	160	13.0	120	60.0	1/4inc - 5/16inc , 7-8 MM
22/17	6.7	8.00	3.29	22.0	100	180	17.0	160	90.0	3/8 inc, 10 MM
28/22	11.2	12.0	7.00	28.0	145	275	22.0	180	100	1/2 inc , 13 MM
31/25	17	17.0	9.43	31.0	145	275	25.0	210	115	5/8inc , 16MM
40/31	23.6	25.0	16.28	40.0	160	300	31.0	275	145	No Flat
45/36	31.5	31.5	26.39	45.0	180	340	36.0	285	155	No Flat
51/45	45	45.0	42.88	51.0	190	350	45.0	340	180	No Flat

# CONNECTING LINK



- Working Load Limit - 1.12T to 31.5T.
- Suitable for use with both Grade 80 and Grade 100 chain.
- 100% proof tested.
- Locking system that provides for simple assembly and disassembly - no special tools needed.

Weight/kg	WLL/T	B.L./T	A	L	K	H
0.8	1.12	4.48	15	58	42	7
1.145	1.5	6	19	71.8	54.8	8.5
0.146	2	8	18	79.5	62.5	8.5
0.16	2	8	18	79.5	60.5	8.5
0.3	3.15	12.6	25	93	68	10.8
0.7	5.3	21.2	29	117	87	15
1.1	8	32	34.5	148	108.4	19.8
1.84	10	40	38	154	112	21
1.8	12.5	50	41	169.5	121.5	24
3.2	15	60	48	193.5	141.5	26
4.5	21.2	84.8	57.5	220	158	30
9	31.5	126	67	281	205	37

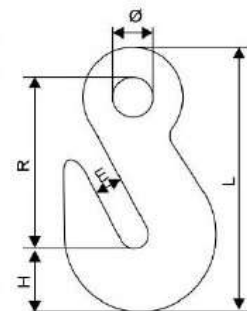


# HOOK

## Grab Hook



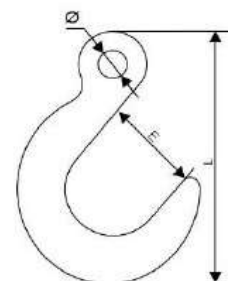
weight /kg	wll/t	b.l/t	E	O	H	R	L
0.14	1.12	4.48	8	13.5	16	51	75.2
0.245	2.0	8	10.8	17	18.5	60.5	88.5
0.65	3.15	12.6	13	20	29	79.5	121.5
1.39	5.3	21.2	16.5	26	42.8	99.7	158
2.2	8	32	19.2	30	45.7	104	169
4.6	12.5	50	24	37	56	140	219
8.2	15	60	28	44	68	165	259
9.8	21.2	84.8	30	41	77	188.5	298
19.4	31.5	126	38	57	95	228	361



## Foundry Hook



Weight/lbs	Wll/lbs	B.L/lbs	E	O	L
2.4	3500	14000	63.5	18	163
4.5	7100	28400	76	22	200
7.1	12000	48000	89	27	238
12.2	18100	72400	102	32	278
19.3	28300	113200	114.5	38	325
26.3	34200	136800	127.5	45	361
37	48500	194000	140	67.5	402
58.6	72750	291000	153.5	81.5	461

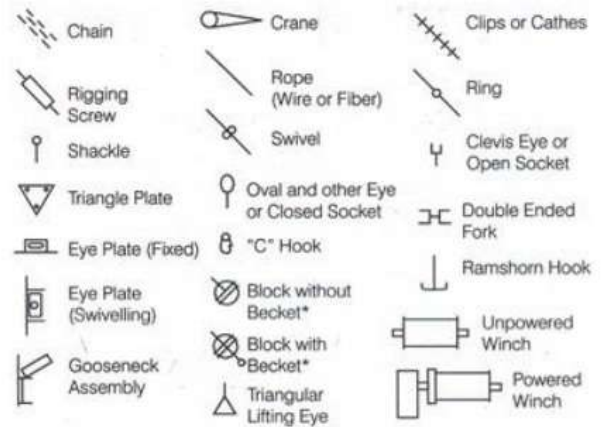
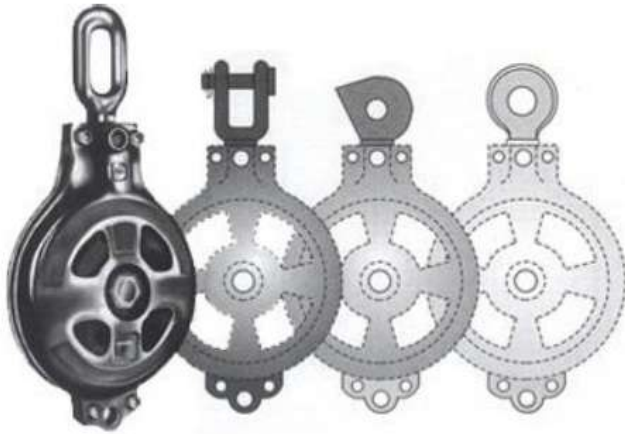




# ship cargo hoisting blocks

GIN, MASTHEAD, HEEL, DERRICK, TOPPING BLOCKS

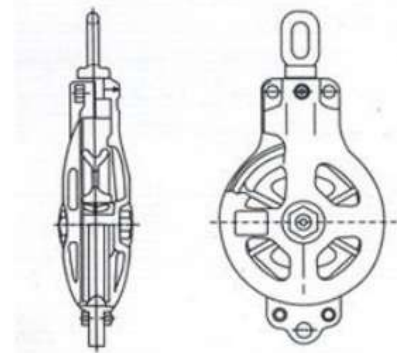
Key Plans Symbols generally used on ships



Note: Cargo blocks are fitted with double roller bearing on sheaves and has great strength. The sizes are available from 12" to 18" and is recommended for smooth operations under heavy loads.

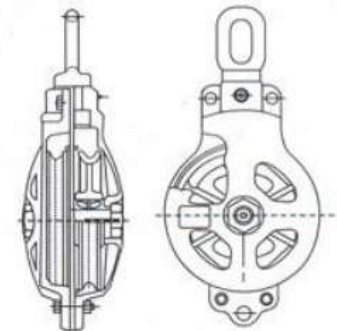
## Single Sheave Block with Taper Roller Bearing

Sheave Dia. (mm)	SWL (tons)	TEST (tons)	Wire Rope Dia. (mm)	Weight Approx each (kgs)
14 (340)	5	20	24	66
14 (340)	6	24	28	68
14 (340)	8	32	25-29	75
16 (410)	8	32	25-29	90
16 (410)	10	40	29-32	93
18 (460)	15	60	32-36	130

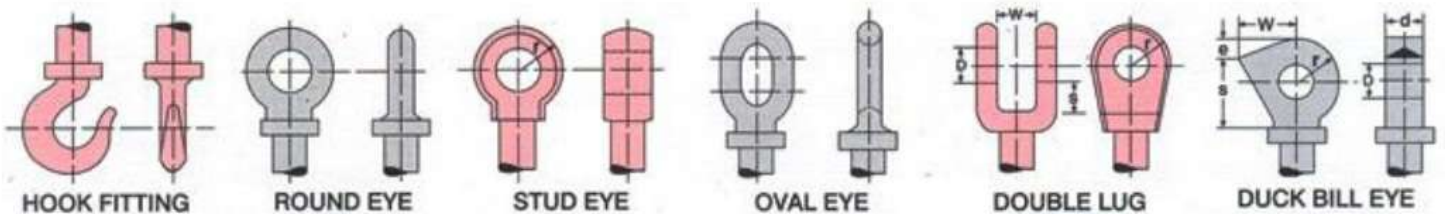


## Double Sheave Block with Taper Roller Bearing

Sheave Dia. (mm)	SWL (tons)	TEST (tons)	Wire Rope Dia. (mm)	Weight Approx each (kgs)
14 (340)	10	20	24	90
14 (340)	12	24	28	95
14 (340)	15	30	28	99
16 (410)	16	32	29-32	140
16 (410)	20	40	29-32	148
18 (460)	30	60	32-36	210



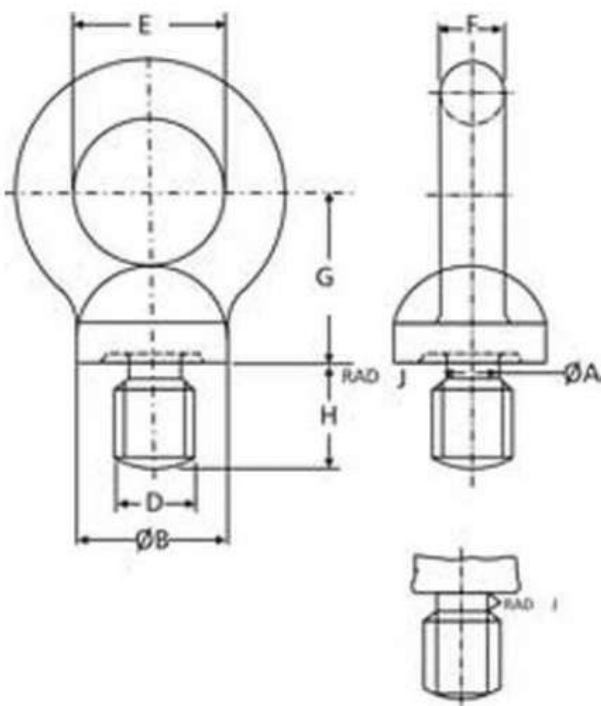
## Alternate Design of Head Fittings



# Eye Bolts

## High Tensile Steel Forged Eye Bolts with Collar

Thread Size D	S.W.L. @ 0 KG		Coarse Pitch	A	B	E	F	G	H	J	Approx, wt. each Kg
	EN- 8	MS									
M8	160	85	1.25	6	20	20	6.3	20	15	1	0.06
M10	250	150	1.5	7.7	24	24	8	25	17	1	0.11
M12	400	220	1.75	9.4	28	28	9.5	30	20	1	0.18
M16	630	380	2.0	13	34	34	12.5	36	24	1	0.28
M20	1000	570	2.5	16.4	40	40	16	45	27	1	0.44
M24	1600	1050	3.0	19.6	48	48	19	53	31	2	0.74
M30	2500	1700	3.5	25	56	56	24	64	39	2	1.66
M36	4000	2500	4.0	30.3	67	67	28	75	48	3	2.7
M42	6300	3400	4.5	35.6	80	80	34	90	56	3	4.0
M48	8000	5200	5.0	41	95	95	38	100	65	3	6.4
M56	10000	6500	5.5	48.3	112	112	45	119	73	4	8.8
M64	16000	8700	6.0	55.7	125	125	50	135	85	4	—
M72	20000	13000	6.0	63.7	140	140	58	153	95	4	—
M80	25000	17000	6.0	71.7	160	160	63	165	110	4	—
M90	32000	18000	6.0	81.7	180	180	71	180	125	5	—
M100	40000	20000	6.0	91.7	200	200	80	195	140	5	-



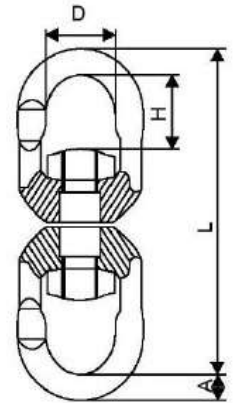
All dimensions in mm  
 Proof Load 2 x S.W.L (Safe Workload)  
 Other threads can be also be supplied to Special order.



## Swivel



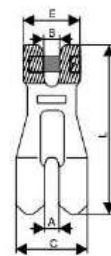
Weight / Kg	WLL/T	B.L/T	A	D	H	L
0.6	2	8	12.5	35.5	28.5	164
1.5	3.15	12.6	15	42	34.5	195
1.75	5.3	21.2	18	50	43.5	217
4.52	8	32	21.5	61	56	289



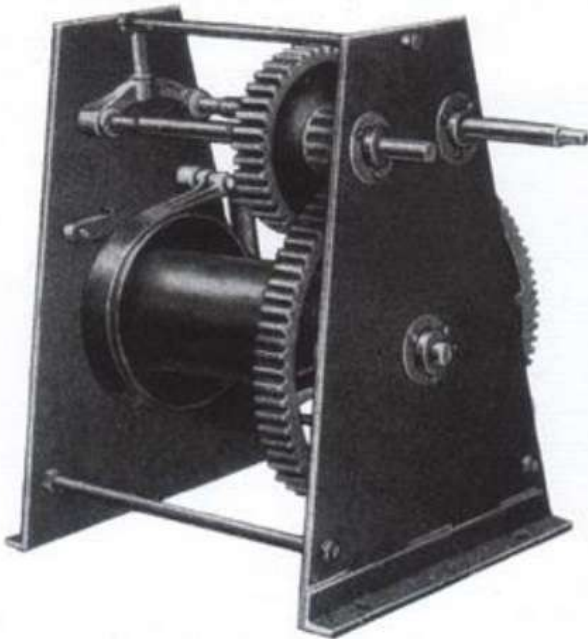
## CHAIN SHORTNER



Weight /kg	WLL/T	B.L/T	A	B	C	E	L
0.71	1.12	4.48	7.5	7.5	33	26	73.5
0.41	2.0	8	9.5	9.5	45	36	101
0.97	3.15	12.6	13	13	55	48	138
2.01	5.3	21.2	18	18	75	59	177
3.32	8	32	21	21	93	73	220
6.2	12.5	50	22	22	99	78	238
8.5	15	60	25.5	25.5	118	98	295

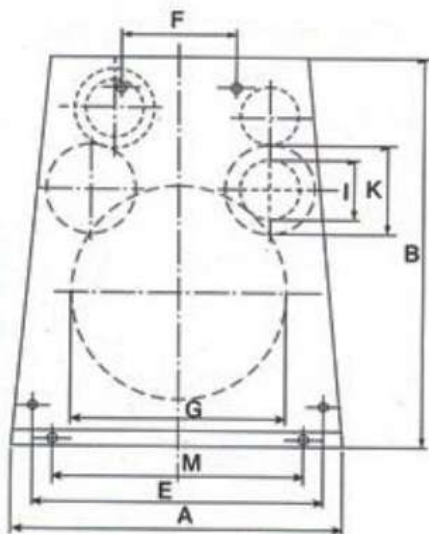


## Hand Operated Treble Purchase Crab Winch

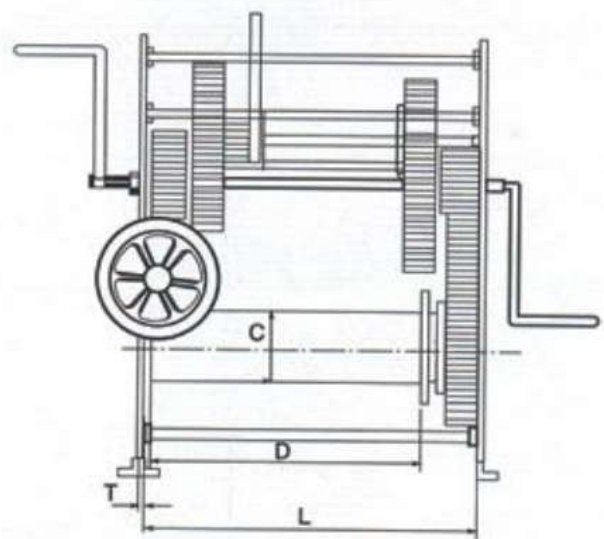


Treble purchase Crab winch is designed with three main gears for lifting direct loads from the drum by means of steel wire ropes preferably having 6x37 construction, the winch has standard attachments like Cast iron drum, powerful screw brake, safety ratchet wheel locking device and operating lever. The drum, brake wheel and gears are made out of best quality graded cast iron material, the drum is fixed to the main gear by joggles on the flange of the drum and arms of the main gear, they are carefully moulded for gearing and even the bearings are accurately suited and assembled on steel shaft for perfect alignment and is locked by means of steel keys.

This winch is generally used for all kinds of applications in material handling and is useful where overhead cranes and other sophisticated lifting appliances are not available. This type of manual winches becomes accessible and is easily operated by means of two handles with two individual persons. Description and illustrations in this leaflet is intended merely to present a general idea of this product described and not to form the basis of a contract. We reserve the right to change the specifications for better results of our product without any prior intimation.



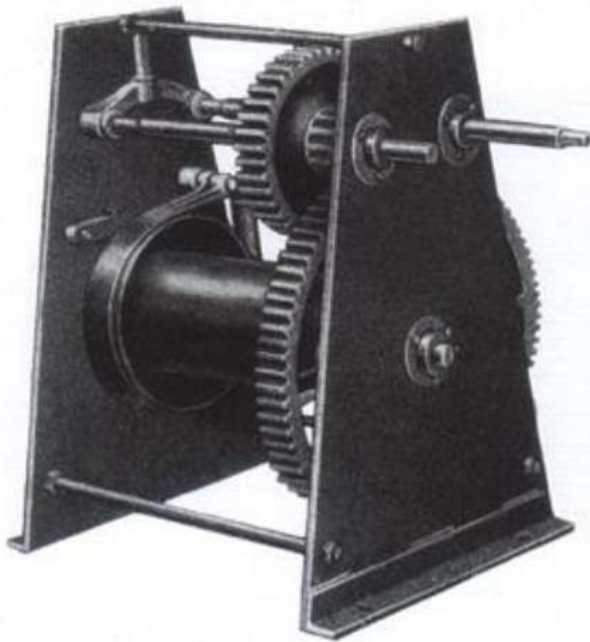
FRONT VIEW



SIDE VIEW

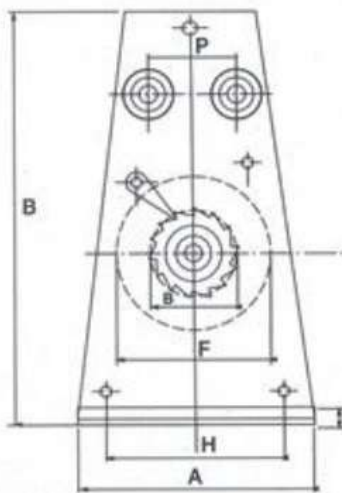


# Hand Operated Double Purchase Crab Winch

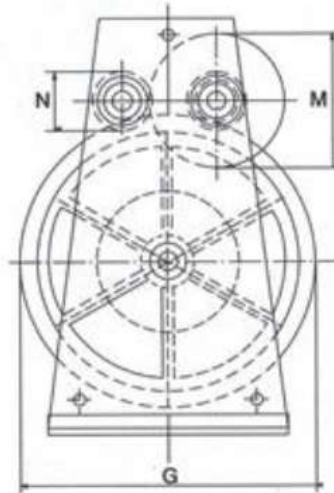


Hand operated double purchase crab winch is a multipurpose manual machine operated with two handles, it consists of profiled side frames, cast iron main drum, M.S. Tie rods, Ratchet & Pawl, Flange, Hand break and required centre bush bearing.

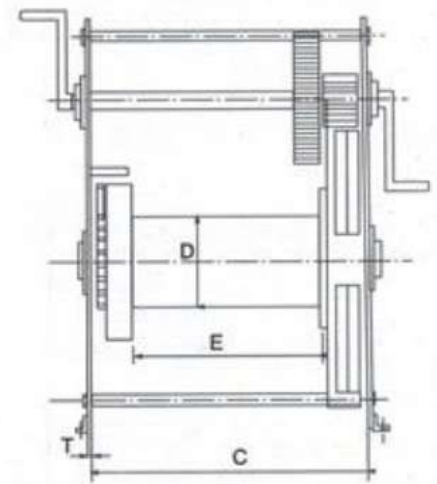
The whole system is tested for 50% Overload of its S.W.L. this kind of winch is very useful for the Municipally & Public sewerage works, for pipes & pre cast Installations, loading & unloading and for site erection for heavy steel structure



ONE SIDE VIEW



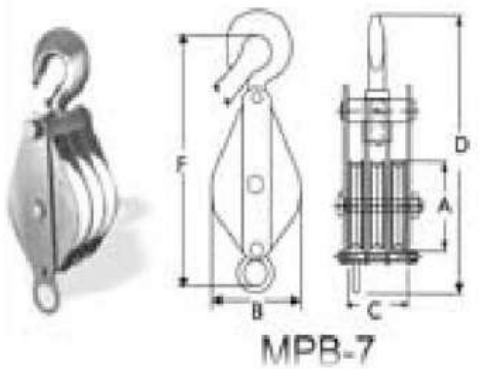
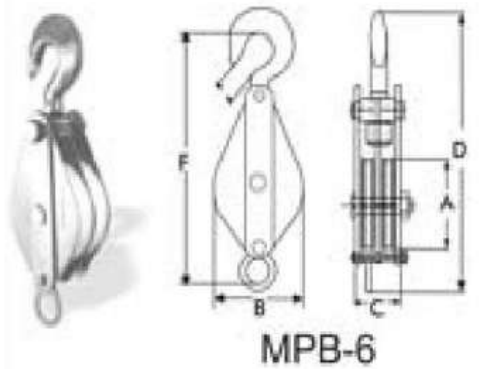
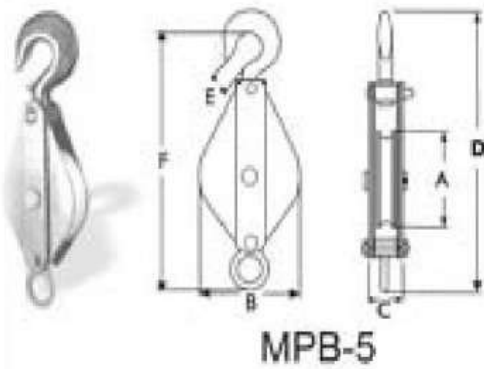
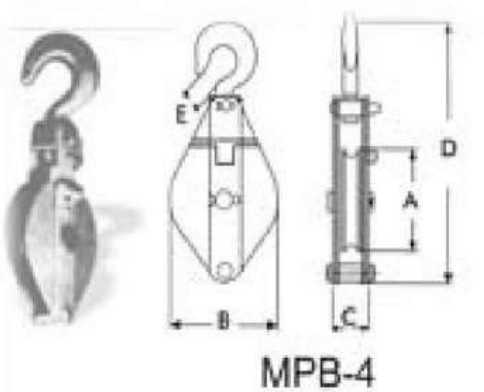
SECOND SIDE VIEW



FRONT VIEW

# Malleable from Fibre Rope Blocks

Light Durable & Easily to Handle



'A' Sheave Dia in (mm)		For: Rope Circ in (mm)		For: Rope Dia in (mm)		Maximum SWL cwt kg	
3 1/2	88	1 1/2	38	7/16	11	2	102
4	102	2	51	5/8	16	3	152
4 3/4	121	2 1/2	63	1 3/16	21	4 1/2	229
5	127	2	70	7/8	22	7	356
6	152	3 1/4	82	1	25	10	533
2 1/2	63	1 1/4	31	3/8	10	0	38
3	76	1 1/2	38	7/16	11	2	102
3 1/2	88	1 1/2	38	7/16	11	2	102
4	102	2	51	3/8	16	3	152
4 3/4	121	2 1/2	63	1 3/16	21	4 1/2	229
5	127	2 3/4	70	3/8	22	7	356
6	152	3 1/4	82	1	25	10 1/2	533
2 1/2	63	1 1/4	31	3/8	10	2	102
3	76	1 1/2	38	7/16	11	5	254
3 1/2	88	1 1/2	38	7/16	11	5	254
4	102	2	51	5/8	16	8	406
4 3/4	121	2 1/2	63	1 3/16	21	12	610
5	127	2 3/4	70	7/8	22	18	914
6	152	3 1/4	82	1	25	28	1422
2 1/2	63	1	31	3/8	10	3	152
3	76	1 1/2	38	7/16	11	8	406
3 1/2	88	1 1/2	38	7/16	11	8	406
4	102	2	51	5/8	16	12	610
4 3/4	121	2 1/2	63	1 3/16	21	18	914
5	127	2 3/4	70	7/8	22	28	1422
6	152	3	82	1	25	42	2134



# Wire Rope Pulley Blocks

## Trible Sheave Pulley Block



Sheave Dia. (mm)	Wire Rope Dia. (mm)	SWL (tons)	TEST (tons)	Weight Approx each (kgs)
10" (250)	14-16	9	18	74
10" (250)	14-16	12	24	80
10" (250)	16-20	15	30	86
12" (300)	16-20	14	28	117
12" (300)	16-20	17	34	126
12" (300)	20-24	20	40	141
14" (350)	20-24	20	40	157
14" (350)	20-24	25	50	176
14" (350)	24-28	30	55	On Application
16" (400)	24-28	30	55	
16" (400)	28-32	40	64	
18" (450)	28-32	40	64	
20" (500)	32-38	100	120	

## Quadrapulate Sheave Pulley Block



Sheave Dia. (mm)	Wire Rope Dia. (mm)	SWL (tons)	TEST (tons)	Weight Approx each (kgs)
14" (350)	20-24	30	55	On Application
14" (350)	24-28	40	64	
16" (400)	24-28	40	64	
16" (400)	24-28	50	74	
18" (450)	24-28	50	74	
18" (450)	28-32	60	83	
20" (500)	32-38	100	120	

### Extract of Dock Safety Rules, Regulations 47(1) & 51 (2)

a) In case of a single sheave block, the SWL shall be the maximum load which can safely be lifted by the Block when suspended by its head fitting and the load is attached to a rope which passes around the sheave of the block and the test load not less than four times the proposed safe working load shall be applied to the head of the block.

b) In case of a multi - sheave block, the test load shall not be less than the following:

SWL (in tonnes)	Test Load (in tonnes)
upto 25	2 x Safe working Load (SWL)
Above 25 to 160	(0.933 x SWL) + 27
bove 160	A 1.1 x SWL

c) In case of hand operated pulley blocks used with pitched chains and rings, hooks, shackles or swivels permanently attached there to a test load not less than 50 percent on excess of the safe working load shall be applied

d) In the case of a pulley block fitted with the bucket, the bucket shall be tested and the tested and the test load applied to the bucket while testing the block will be accepted as test loading of the bucket.

# Light Weight Snatch Pulley Blocks



- Snatch blocks are manufactured from the highest quality tensile steel.
- Snatch blocks are available in sizes from 2 tons to 20 tons
- Snatch blocks are designed with a safety factor of 4:1.
- Snatch blocks are available for wire rope sizes 5/16" to 1-1/8".
- Snatch blocks are supplied with test certs and batch numbers for ease of traceability.
- Snatch blocks are manufactured with bronze bushing and grease fitting for ease of use and extended sheave life.



## Snatch Block with Shackle

Working Load Limit	Sheave Dia.	Wire Rope Size		Dimensions (Inch)							
		Tons	Inch	MM	Inch	A	B	K	R	E	F
2	3	8-10	5/16 ~ 3/8	1.38	1.18	5.19	8.53	2.52	043	2.95	8.96
4	4.5	10-13	3/8 ~ 1/2	2.52	1.97	9.57	13.27	3.11	075	4.21	14.02
8	6	16-19	5/8 ~ 3/4	3.43	2.99	12.60	17.80	4.09	1.26	5.98	19.06
8	8	16-19	5/8 ~ 3/4	3.43	2.99	13.10	20.64	4.09	1.26	8.66	21.90
12	6	19-22	3/4 ~ 7/8	3.07	3.15	14.13	19.63	5.28	1.73	6.57	21.26
15	8	19-22	3/4 ~ 7/8	3.07	3.15	13.99	21.46	5.28	1.73	8.66	23.19
15	10	19-22	3/4 ~ 7/8	3.07	3.15	16.70	26.37	5.28	1.73	11.00	28.10
15	12	19-22	3/4 ~ 7/8	3.07	3.15	16.80	28.57	5.28	1.73	13.00	30.30
20	8	25-29	1 ~ 1 1/8	4.29	3.66	17.05	24.25	5.91	2.17	8.50	26.42
20	10	25-29	1 ~ 1 1/8	4.29	3.66	18.90	28.46	5.91	2.17	11.00	30.60
20	12	25-29	1 ~ 1 1/8	4.29	3.66	19.10	30.63	5.91	2.17	13.00	32.80

\* Minimum Ultimate Load is 4 times the Working Load Limit

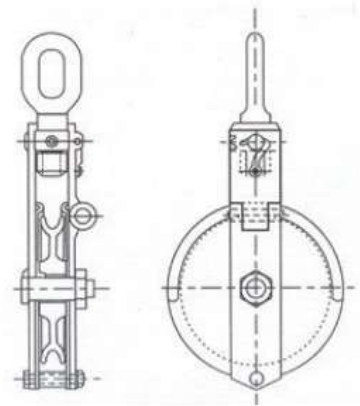
Working Load Limit	Sheave Dia.	Wire Rope Size		Dimensions (Inch)							
		Tons	Inch	MM	Inch	A	B	K	R	E	F
2	3	8-10	5/16 ~ 3/8	35	30	150	217	64	11	75	228
4	4.5	10-13	3/8 ~ 1/2	64	50	243	337	79	19	107	356
8	6	16-19	5/8 ~ 3/4	87	76	320	452	104	32	152	484
8	8	16-19	5/8 ~ 3/4	87	76	333	526	104	32	220	558
12	6	19-22	3/4 ~ 7/8	78	80	359	496	134	44	167	540
15	8	19-22	3/4 ~ 7/8	78	80	355	545	134	44	220	589
15	10	19-22	3/4 ~ 7/8	78	80	423	670	134	44	280	714
15	12	19-22	3/4 ~ 7/8	78	80	428	726	134	44	330	770
20	8	25-29	1 ~ 1 1/8	109	93	433	616	150	55	216	671
20	10	25-29	1 ~ 1 1/8	109	93	481	723	150	55	280	778
20	12	25-29	1 ~ 1 1/8	109	93	485	778	150	55	330	833



# Standard Design Snatch Block

## Standard Design

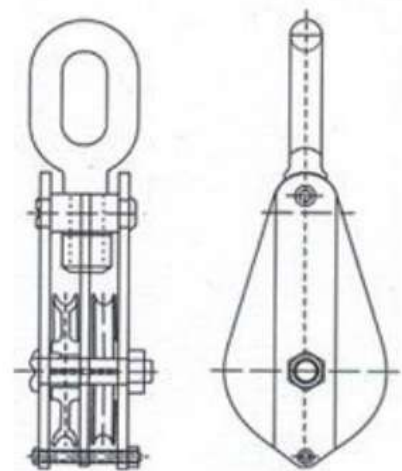
Sheave Dia. (Mm)	Wire Rope Dia. (Mm)	SWL (tons)	TEST (tons)	Weight Approx each (kgs)
10 (250)	20	3	12	40
12 (300)	20	3	12	43
12 (300)	2A	5	20	46
14 (350)	PA	5	20	59
14 (350)	28	6	24	65
16 (400)	28	6	24	85
16 (400)	29-32	8	32	98



## Alternate Design

### Double Sheave Pulley Block

Sheave Dia. (mm)	Wire Rope Dia. (mm)	SWL (tons)	TEST (tons)	Weight Approx each (kgs)
10" (250)	14-16	6	12	54
10" (250)	14-16	8	16	60
10" (250)	16-20	10	20	67
12" (300)	16-20	10	20	73
12" (300)	16-20	12	24	87
12" (300)	20-24	15	30	94
14" (350)	18-22	10	20	102
14" (350)	20-24	15	30	110
14" (350)	20-24	20	40	120
16" (400)	24-28	20	40	142
16" (400)	24-28	25	50	
16" (400)	28-32	30	55	
16" (400)	28-32	40	64	
18" (450)	28-32	25	50	
18" (450)	28-32	30	64	
18" (450)	28-32	40	64	
20" (500)	32-38	100	120	



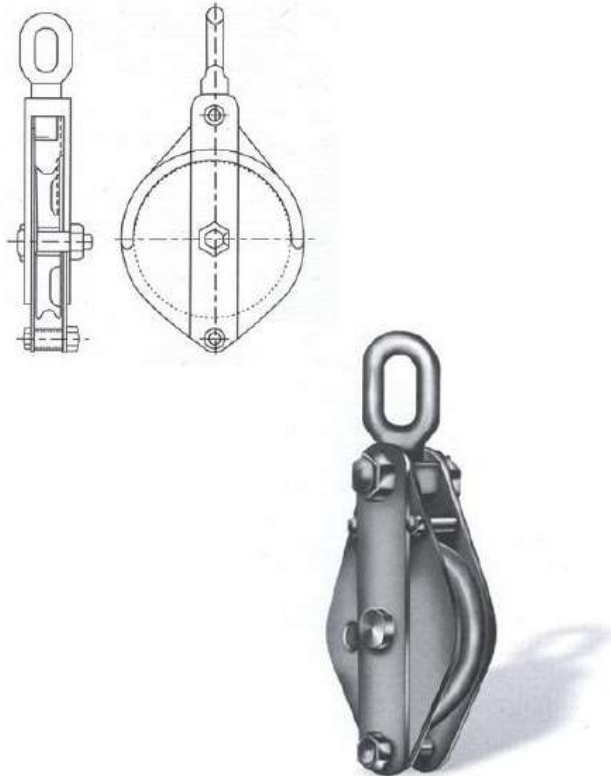
Example: 16" (350) X 2 B 0  
 Sheave Dia. | Number of Sheave | Oval eye Head fitting Without Bucket

# Wire Rope Pulley Blocks

(Universal Cargo, Heel or Lead blocks)

## Single Sheave Pulley Block

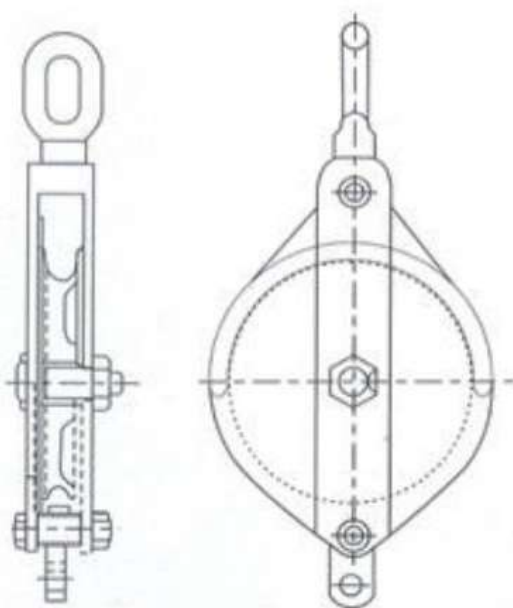
### Type – A without Becket



Sheave Dia. (mm)	Wire Rope Dia. (mm)	SWL (tons)	TEST (tons)	Weight Approx each (kgs)
8" (200)	9-12	1	4	22
10" (250)	14-16	3	12	28
12" (300)	16-21	3	12	30
12" (300)	16-21	5	20	33
14" (350)	21-24	5	20	42
14" (350)	24-29	8	32	50
16" (400)	21-24	5	20	57
16" (400)	25-29	8	32	69
16" (400)	29-32	10	40	74
18" (450)	29-32	10	40	97
18" (450)	32-36	15	60	110
20" (500)	38-42	20	80	180

**Example:** 16" (400) X 1 A H  
 Sheave Dia. Number of Sheave Double Lug fitting of each type can be mounted. Without Becket

### Type – B with Becket

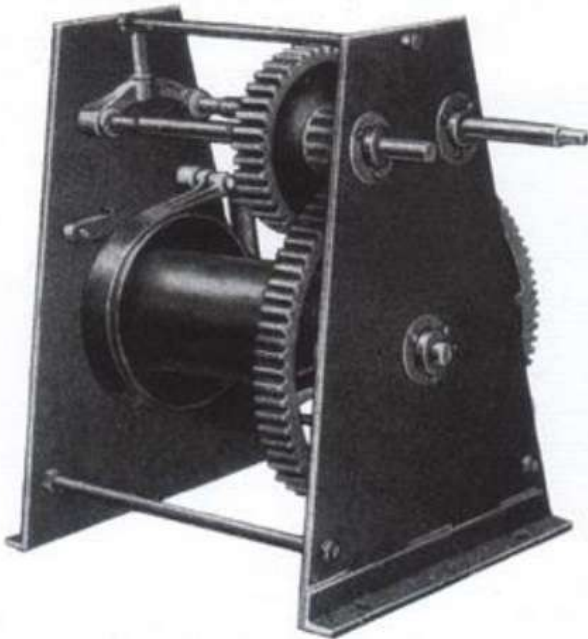


Sheave Dia. (mm)	Wire Rope Dia. (mm)	SWL (tons)	TEST (tons)	Weight Approx each (kgs)
8" (200)	9-12	1	6	26
10" (250)	14-16	3	18	33
12" (300)	16-21	3	18	35
12" (300)	16-21	5	30	38
14" (350)	21-24	5	30	49
14" (350)	24-29	8	48	58
16" (400)	21-24	5	30	66
16" (400)	25-29	8	48	80
16" (400)	29-32	10	60	86
18" (450)	29-32	10	60	113
18" (450)	32-36	15	90	129
20" (500)	38-42	20	120	195

**Example:** 16" (350) X 1 A H  
 Sheave Dia. Number of Sheave Head fitting of any type can be mounted. With/Without Becket

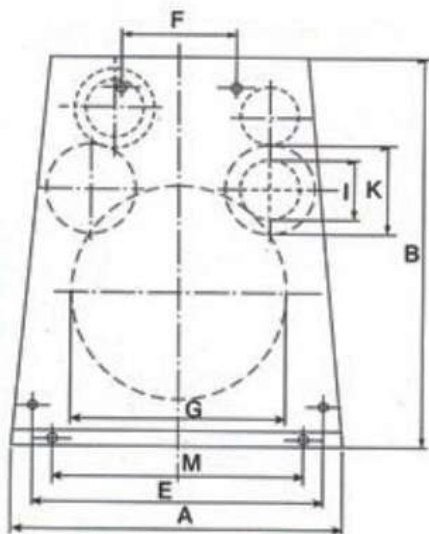


## Hand Operated Treble Purchase Crab Winch

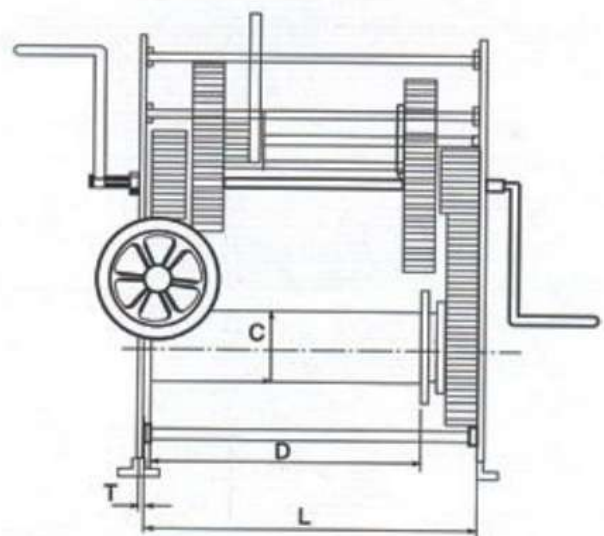


Treble purchase Crab winch is designed with three main gears for lifting direct loads from the drum by means of steel wire ropes preferably having 6x37 construction, the winch has standard attachments like Cast iron drum, powerful screw brake, safety ratchet wheel locking device and operating lever. The drum, brake wheel and gears are made out of best quality graded cast iron material, the drum is fixed to the main gear by joggles on the flange of the drum and arms of the main gear, they are carefully moulded for gearing and even the bearings are accurately suited and assembled on steel shaft for perfect alignment and is locked by means of steel keys.

This winch is generally used for all kinds of applications in material handling and is useful where overheaded cranes and other sophisticated lifting appliances are not available. This type of manual winches becomes accessible and is easily operated by means of two handles with two individual persons. Description and illustrations in this leaflet is intended merely to present a general idea of this product described and not to form the basis of a contract. We reserve the right to change the specifications for better results of our product without any prior intimation.



FRONT VIEW



SIDE VIEW

## SS Products - 304



DEE SHACKLE



BOW SHACKLE



CLAMP



THIMBLE



TURN BUCKLE



EYE BOLT



S.S CHAIN



SNAP HOOK



WIRE ROPE



# MAGNETIC LIFTER



The magnetic lifter can be in variety industries for the transportation and lifting of steel, engine parts, semi manufactured goods and moulds, due to its magnetic. Larger sizes available, output up to 6000Kgs.

## Features:

- The magnetic lifter's pulling force is 3.5 times greater than rated lifting capability.
- Light weight, range from 10-250Kgs.
- No Electricity is needed to operate the magnetic lifter, one operated there is less than 1% residual magnetism.

Rated lifting Capacity(Kg)	Max breakaway force (Kg)	Dimensions (mm)				N.W (kg)
		L	B	H	R	
100	300	90	63	68	145	3
400	1200	160	95	180	160	11
600	1800	220	115	125	230	20
1000	3000	260	145	145	280	40
1500	3750	310	145	145	280	48
2000	5000	340	160	165	410	60
3000	7500	420	185	185	510	90
4000	10500	480	200	200	510	120
5000	15000	580	300	300	650	400

# Hydraulic Hand Pallet Truck



## Features:

- Capacity: upto 2500 Kgs.
- Large diameter hand grip with curvilinear handle design.
- Fingertip control of all functions.

Item	Unit	SL-II-K 25
Capacity	(Kg)	2500
Min. Fork Height	(mm)	75
Max. Fork Length	(mm)	190
Max. Lifting Height	(mm)	< 1 10
Fork Outside Distance	(mm)	520 / 685
Fork Length	(mm)	915 / 1100 / 1220
Fork Size	(mm)	160x50
Load Roller Single Wheel	(mm)	74x93
Load Roller Tandem Wheel	(mm)	74x70
Steering Wheel	(mm)	180x50
Material of Wheel	(mm)	Nylon / polyurethane / Rubber



## Chassis / High Lift or Short Lift Ratche Jacks



To Lift TON	Height When Down MM	Will Rise MM	Dia of Screw MM
5	450	300	48
10	600	350	60
15	625	350	67
20	650	400	75
25	650	350	80
30	700	350	90
40	700	350	100
50	750	350	100
75	750	250	125
100	750	400	125

# Safety Products



JACKET HARNESS



REFLECTOR JACKET



GOOGLESE



ROAD SAFETY CONE



SHOE



FALL ARRESTER



FALL PROTECTION



HELMET



NOSE MASK



GLOVES



FIRE SAFETY



## Decimal Equivalents

Fraction	Inch	mm	Fraction	Inch	mm
1/32	0.0312	0.8	17/32	0.5312	13.49
1/16	0.0625	1.59	9/16	0.5625	14.29
3/32	0.0937	2.38	19/62	0.5937	15.08
1/8	0.125	3.18	5/8	0.625	15.88
5/32	0.1562	3.97	21/32	0.6562	16.67
3/16	0.1875	4.76	11/16	0.6875	17.46
7/32	0.2187	5.56	23/32	0.7187	18.26
1/4	0.25	6.35	3/4	0.75	19.05
9/32	0.2812	7.14	25/32	0.7812	19.84
5/16	0.3125	7.94	13/16	0.8125	20.64
11/32	0.3437	8.73	27/32	0.8437	21.43
3/8	0.375	9.53	7/8	0.875	22.23
13/32	0.4062	10.32	29/32	0.9026	23.02
7/16	0.4375	11.11	15/16	0.9375	23.81
15/32	0.4687	11.91	31/32	0.9687	24.61
1/2	0.5	12.7	1	1	25.4

## Metrics / English Conversion

1 inch = 25.4mm	1 ounce = 28.3g	1 cm = 0.3937 inch	1g = 0.03527ounce
1 Ft = 30.48cm	1 lb = 04536kg	1 m = 3.281Ft	1kg = 2.2046lb
1 yard = 0.914m	1 lbf = 4.45n	1m = 1.09 yard	1N = 0.225lbf
1 mile = 1.61km	1 tonf = 9.96kN	1 km = 0.621mile	1kN = 0.100tonf

## Mass Conversion

TO CONVERT FROM **U.S. TONS** TO **METRIC TONS** MULTIPLY BY .907185

TO CONVERT FROM **U.S. TONS** TO **METRIC TONS** MULTIPLY BY 1.10231

TO CONVERT FROM **METRIC TONS** TO **POUNDS** MULTIPLY BY 2204.62

TO CONVERT FROM **METRIC TONS** TO **KILOGRAMS** MULTIPLY BY 1000

TO CONVERT FROM **METRIC TONS** TO **KILOGRAMS** MULTIPLY BY .453592

TO CONVERT FROM **KILOGRAMS** TO **POUNDS** MULTIPLY BY 2204.62

## Temperature Conversion

TO CONVERT FROM **DEGREE FAHRENHEIT** TO **DEGREE CELSIUS** USE  $T_c = 5/9 (T_f - 32)$

TO CONVERT FROM **DEGREE CELSIUS** TO **DEGREE FAHRENHEIT** USE  $T_f = 9/5 (T_c) + 32$

H

S

N

CODE

PRODUCTS	HSN CODE	GST	PRODUCTS	HSN CODE	GST
ALLOY STEEL LINK CHAINS	7315 1210	18%	HYDRAULIC LIFTING TABLE	8427 9000	18%
ALUMINIUM FERRULE	7602 2100	18%	JEEP WINCH	8425 1110	18%
ANTI ABRASIVE SLEEVE	5911 90901	12%	JIB CRANES & GANTRY CRANES	8426 3000	18%
BEAM CLAMPS	8431 1090	18%	LIFTING & PULLING MACHINE	8425 1910	18%
PLATE LIFTING AND PIPE CLAMPS	7326 9099	18%	LOAD CHAIN	7315 1210	18%
GEARED TROLLEY (PUSH PULL & GEARED)	8425 3900	18%	MAGNETIC LIFTER	8425 1910 / 8431 1090	18%
CABLE PULLER	8431 1090	18%	MANUAL WINCH	8425 3900	18%
CAM BUCKLE	7326 1990	18%	MASTER LINK & ASSLY	8431 1090	18%
CAM BUCKLE ASSEMBLY	8479 7900	18%	MINI CRANE	8425 1110	18%
CARGO BARS	7326 1990	18%	MINI HOIST	8425 1110	18%
CARGO LASHING RATCHET	8479 2090	18%	MULTI LEGGED SLINGS	8479 7900	18%
CARGO NETS	5911 9090	12%	MULTIFUNCTION WINCH	8425 1110	18%
CHAIN LINK CONNECTORS	7326 1990	18%	NARROW WOVEN FABRIC	59119090/58063200	12%
CHAIN PULLEY BLOCK	8425 1910	18%	PERMANENT MAGNET LIFTER	8425 1910	18%
CHAIN SHORTNER	8431 1090	18%	PLASTIC STRIP	3923 9090	18%
CHIMTI BUCKLE	7326 9080	18%	PLATE & PIPE LIFTING CLAMP	8431 1090	18%
COMPENSATION CHAIN	7315 1290	18%	POLYESTER WEBBING SKLING/ ROUND SLING	5911 90901	12%
CRANE LOAD CELL	8431 4990	18%	PP ROPES	5607 4900	12%
CUT OFF WHEEL (ABRASIVE WHEEL)	6804 2290	18%	PRESSED STEEL HOOK	7326 1990	18%
DEE AND BOW SHACKLE	7326 1990	18%	PULLEY BLOCKS	8425 1920	18%
D/C WHEEL (ABRASIVE WHEEL)	6804 2290	18%	PULLING 7& LIFTING MACHINE	8425 1910	18%
DRUM LIFTER	8431 1090	18%	PULLING AND LIFTING MACHINE	8425 1920	18%
GUNNAGE BAG (PP AND PAPER LAMINATED PP)	3923 9090	18%	RATCHET BUCKLE	7326 1990	18%
ELECTRC WIRE ROPE HOIST	8425 1110	18%	RATCHET- LASHING ASSEMBLY	8479 7900	18%
ELECTRIC TROLLEY	8425 1110	18%	RATCHET LEVER HOIST	8425 1910	18%
ELECTRIC WIRE ROPE HOIST	8425 1110	18%	REGULAR SWIVEL	8431 1090	18%
END FITTING	7326 1990	18%	RIGGING/SHACKLE	7326 1990	18%
EOT/HOT CRANES	8426 1100	18%	ROUND SLING	5911 9090	12%
EYE & EYE ROUND SLING	5911 9090	12%	SAFETY BELT	6307 2090	12%
EYE BOLT ALL TYPES	8431 1090	18%	STAINLESS STEEL RIGGING / WIRE ROPE	7312 9000	18%
EYE HOOKS	7326 1990	18%	STEEL PARTS-ONES WAY LASHING -BUCKLE HOOK	7326 1990	18%
FISHNET FABRIC	5911 9090	12%	STEEL WIRE ROPE & SLING BLACK	7312 1020	18%
FLAT ENDLESS SLING	5911 9090	12%	THIMBLE	8431 1090	18%
G80 CONN LINK	8431 1090	18%	TURN BUCKLE	8431 1090	18%
GEARED/PULL PUSH TROLLEY	8425 1910	18%	WEBBING	5911 9090	12%
GEARED/PULL PUSH TROLLEY	8425 1910	18%	WEBBING SLING	5911 9090	12%
HAND CHAIN	7315 1290	18%	WEBSLING CONNECTOR	8431 1090	18%
HAND PALLET TRUCK	8427 9000	18%	WELD ON RING & HOOK	8431 1090	18%
HAND STACKER	8427 9000	18%	WIRE ROPE CLAMP	8431 1090	18%
HAND WINCH	8425 3900	18%	WIRE ROPE HOIST	8425 1110	18%
HOOKS ALL TYPES	8431 1090	18%	WIRE ROPE SLING	7312 1010	18%



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