



جميع انواع الوابرات الصلب

لزوم الاناش والمصاعد

مؤسسة
الزكى



لتجارة الحبال والمهزمات البحرية

01287000872 - 01098424666

4946472 - 3906068



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منذ عام ١٩٢٠

الاجل / ميمى الزكى



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1 LEG SLING



2 LEG SLING



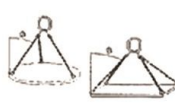
3 LEG SLING



4 LEG SLING



GRADE 80 CHAIN SLING WORKING LOAD CHART BS-EN 818-4

SAFETY FACTOR	1 LEG	2 LEGS		3 OR 4 LEGS		CHOCKER ENDLESS SLING	BASKET SLING			
4										
WORKING ANGLES	90°	0° - 45°	45°- 60°	0° - 45°	45°- 60°		0° - 45°	0° - 45°	0° - 45°	0° - 45°
LOAD FACTOR	1	1.4	1	2.1	1.5	1.6	1.4	2.1	1	1.4
D MM	WORKING LOAD LIMITS (TONNES)									
6	1.12	1.56	1.12	2.35	1.68	1.79	1.56	2.35	1.12	1.56
7	1.50	2.12	1.50	3.15	2.24	2.50	2.12	3.15	1.50	2.12
8	2.00	2.80	2.00	4.25	3.00	3.15	2.80	4.25	2.00	2.80
10	3.15	4.40	3.15	6.70	4.75	5.00	4.40	6.70	3.15	4.40
13	5.30	7.50	5.30	11.20	8.00	8.50	7.50	11.20	5.30	7.50
16	8.00	11.20	8.00	17.00	11.80	12.50	11.20	17.00	8.00	11.20
18	10.00	14.00	10.00	21.00	15.00	16.00	14.00	21.00	10.00	14.00
19	11.20	15.68	11.20	23.52	16.80	17.92	15.68	23.52	11.20	15.68
20	12.50	17.00	12.50	26.50	19.00	20.00	17.00	26.50	12.50	17.00
22	15.00	21.20	15.00	31.50	22.40	23.60	21.20	31.50	15.00	21.20
25	21.20	30.00	21.20	45.00	31.50	33.50	30.00	45.00	21.20	30.00



WEBBING SLING

COMPLY TO EN 1492 - 1



ROUND SLING

COMPLY TO EN 1492 - 2

colour coded according to EN 1492	Single Max, working load limit						2 - LEG Max, working load limit				Approx width (mm)
	Upright	Choked	B				Upright 45°	Choked 45°	Upright 45° - 60°	Choked 45° - 60°	
			0° - 7°	7° - 45°	45° - 60°	45°					
											
	1.0	0.8	2.0	1.4	1.0	0.7	1.4	1.12	1.0	0.8	1:5 1:6 1:7
WLL 1T	1.0	0.8	2.0	1.4	1.0	0.7	1.4	1.12	1.0	0.8	25 25 30
WLL 2T	2.0	1.6	4.0	2.8	2.0	1.4	2.8	2.4	2.0	1.6	50 50 60
WLL 3T	3.0	2.4	6.0	4.2	3.0	2.1	4.2	3.36	3.0	2.24	75 75 90
WLL 4T	4.0	3.2	8.0	5.6	4.0	2.8	5.6	4.48	4.0	3.2	100 100 120
WLL 5T	5.0	4.0	10.0	7.0	5.0	3.5	7.0	5.6	5.0	4.0	125 125 150
WLL 6T	6.0	4.8	12.0	8.4	6.0	4.2	8.4	6.72	6.0	4.8	150 150 180
WLL 8T	8.0	6.4	16.0	11.2	8.0	5.6	11.2	8.96	8.0	6.4	200 200 240
WLL 10T	10.0	8.0	20.0	14.0	10.0	7.0	14.0	11.2	10.0	8.0	250 250 300
WLL 12T	12.0	9.6	24.0	16.8	12.0	8.4	16.8	13.44	12.0	9.6	300 300 300
WLL 15T	15.0	12.0	30.0	21.0	15.0	10.5	21.0	16.8	15.0	12.0	
WLL 20T	20.0	16.0	40.0	28.0	20.0	14.0	28.0	22.4	20.0	16.0	
WLL 25T	25.0	20.0	50.0	35.0	25.0	17.5	35.0	28.0	25.0	20.0	
WLL 30T	30.0	24.0	60.0	42.0	30.0	21.0	42.0	33.6	30.0	24.0	
WLL 40T	40.0	32.0	80.0	56.0	40.0	28.0	56.0	44.8	40.0	32.0	
WLL 50T	50.0	40.0	100.0	70.0	50.0	35.0	70.0	56.0	50.0	40.0	



SINGLE LEG



2 LEG



3 LEG



4 LEG

INDEPENDENT WIRE ROPE COR (IWRC)

SAFE WORKING LOAD (SWL)
GRADE 1960N/MM2 0-45 LEG

ROPE DIA	SINGLE LEG	2 LEG	3-4 LEG	Min Break load
MM	TONNE	TONNE	TONNE	TONNE
8	0.82	1.16	1.74	4.11
9	1.03	1.46	2.18	5.20
10	1.28	1.81	2.72	6.42
11	1.54	2.18	3.27	7.77
12	1.83	2.59	3.88	9.25
13	2.16	3.05	4.58	10.80
14	2.51	3.55	5.32	12.60
16	3.28	4.64	6.96	16.40
18	4.14	5.85	8.78	20.80
19	4.62	6.53	9.80	23.10
20	5.11	7.23	10.84	25.70
22	6.2	8.77	13.15	31.10
24	7.37	10.42	15.63	37.00
26	8.66	12.25	18.37	43.40
28	10.3	14.18	21.28	50.40

INDEPENDENT WIRE ROPE COR (IWRC)

SAFE WORKING LOAD (SWL)
GRADE 1960N/MM2 0-45 LEG

ROPE DIA	SINGLE LEG	2 LEG	3-4 LEG	Min Break load
MM	TONNE	TONNE	TONNE	TONNE
32	13.11	18.54	27.81	65.70
35	15.70	22.00	33.00	78.70
36	16.58	23.45	35.17	83.30
38	18.48	26.13	39.20	92.80
40	20.55	29.13	43.59	103.00
44	24.77	35.03	52.54	124.00
48	29.54	41.78	62.66	148.00
52	34.67	49.03	73.55	174.00
54	37.40	52.30	78.50	187.00
56	40.18	56.82	85.23	201.00
60	46.05	65.12	97.69	231.00
64	54.80	76.70	115.10	274.00
71	66.60	93.20	139.80	333.00
77	77.80	108.90	163.40	389.00
80	85.00	119.00	178.50	425.00

These table are compiled in accordance with the follow standards :-

BSEN 12385:2002 - steel wire rope

BSEN13411:2004 - terminations of steel wire rope

BSEN13414:2003 - steel wire rope slings





Steel wire rope

Galvanized

Pvc coated



6x19 fc



6x19 lwrc



6x37 fc



6x37 lwrc



6x36 lwrc



6x25 lwrc



8x19 fc



8x19 lwrc



19x7



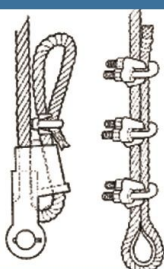
35x7



Common wire ropes constructions

Bright

Wire rope sling



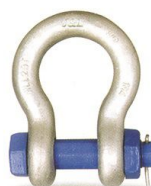
Hand spliced wire rope sling

Steel wire sling with clips

Steel wire round sling

Aluminium-Ferrules

Wire rope thimble



Galvanized D Shackle

Wire rope clips

Turnbuckle type malleable

Regular swivel

Bow Shackle Screw Pin & Nut Bolt



Whip check safety cable

Wire Mesh Grips

Cable Grips

Snap hook

Eyebolts & Eynuts



SS Wire Rope

SS chain

SS Wire Rope Clip

SS Shackle

SS Turnbuckle

SS Snape Hook



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Manual chain hoist



Ratchet Lever Block



Manual trolley for chain hoist



Manual Tirfor Winch



Hand puller



Hand winch



Round stock clamp



Screwlok Beam Clamp



Mechanical Rack Jack



Lefting clamp . vertical type



Lefting clamp . flat type



Ratchet straps



Hook latch



CHAIN GRADE 80 & GRADE 100



ELEVATOR COMPENSATION CHAIN



Load Binder and Lashing Chain



Master link



Connecting Link



Locking hook



Clevis hook



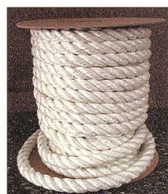
Eye hook



Sisal Rope



Manila rope



Silk ropes



Polythene rope



Marine ropes



Rock climbing pulley



Pulley blocks single double and triple



Oval Eye Snatch Block



snatch block



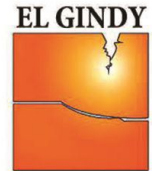
Zinc alloy mini pulley



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