

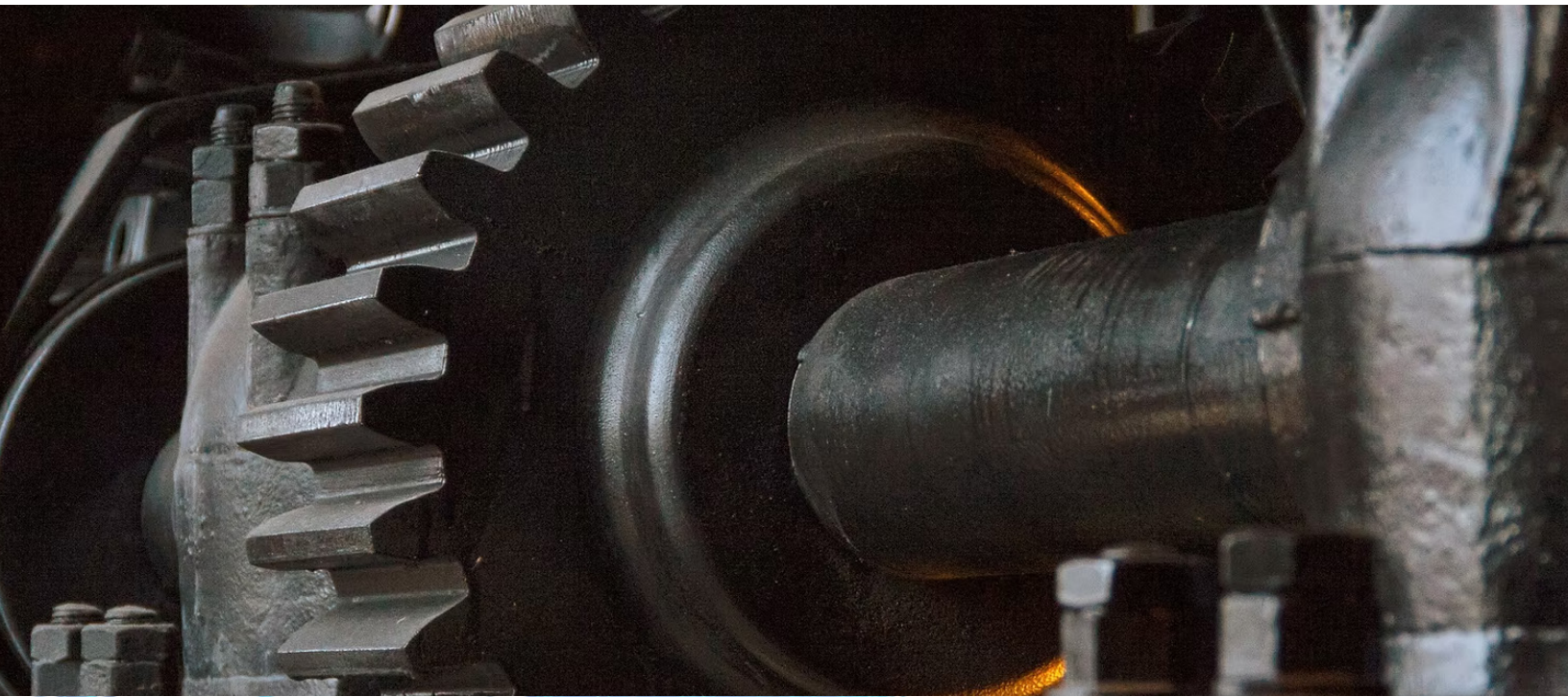


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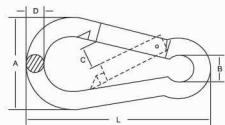
Vat no: 4600228763 | Tax no: 901833143



Lifting Equipment
Catalogue

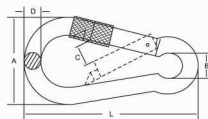
CARABINERS

HARDWARE



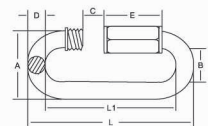
Snap Hook, DIN5299, Form C, Zinc Plated
DIN5299C

Size (mm)	Dimension (mm)					W.L.L (lbs)	N.W. (g/pc)
	A	B	C	D	L		
4X40	20	7	7	4	40	200	6
5X50	25	8	7	5	50	220	16
6X60	30	9	8	6	60	260	28
7X70	35	10	8	7	70	400	45
8X80	40	12	9	8	80	500	63
9X90	45	12	10	9	90	550	90
10X100	50	16	11	10	100	770	125
11X120	57	18	16	11	120	990	192
12X140	67	20	19	12	140	1200	250
13X160	74	22	25	13	160	1400	350
14X180	86	22	35	14	180	1600	455
15X200	90	26	37	15	200	1800	618



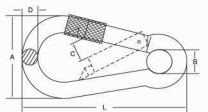
Snap Hook, with Screw DIN5299, Form D, Zinc Plated
DIN5299D

Size (mm)	Dimension (mm)					W.L.L (lbs)	N.W. (g/pc)
	A	B	C	D	L		
5X50	25	8	7	5	50	220	20
6X60	30	9	8	6	60	260	30
7X70	35	10	8	7	70	400	50
8X80	40	12	9	8	80	500	75
9X90	45	12	10	9	90	550	98
10X100	50	15	11	10	100	770	160
11X120	57	18	16	11	120	990	210
12X140	67	20	19	12	140	1200	270
13X160	74	22	25	13	160	1400	360
14X180	86	22	35	14	180	1600	510



Quick Link, Zinc Plated

Size (mm)	Dimension (mm)							W.L.L (lbs)	N.W. (g/pc)
	A	B	C	D	L	L1	E		
3.5	17	10	5	3.5	36	29	11	220	8
4	19.5	11.5	5.5	4	39.5	31.5	12.5	440	12
5	23	13	6.5	5	48.5	35.5	16	660	21
6	26.5	14.5	7.5	6	57	45	19	880	35
7	30	16	8.5	7	66	52	21.5	1300	54
8	33.5	17.5	10.5	8	74	58	24	1760	75
9	37	19	11	9	80	62	26	2200	105
10	40.5	20.5	12	10	89	69	29	2640	135
12	47.5	23.5	15	12	104.5	80.5	33	3300	228
14	54.5	26.5	17	14	121	93	38.5	6100	350
16	61.5	29.5	19	16	140	108	45	8000	500



Snap Hook, with Eye and Screw, Zinc Plated

Size (mm)	Dimension (mm)					W.L.L (lbs)	N.W. (g/pc)
	A	B	C	D	L		
5X50	25	5	7	5	50	220	21
6X60	30	5	8	6	60	260	32
7X70	35	7	8	7	70	400	50
8X80	40	10	9	8	80	500	77
9X90	45	10	10	9	90	550	99
10X100	50	13	11	10	100	770	162
11X120	57	13	16	11	120	990	220
12X140	67	15	19	12	140	1200	280
13X160	74	17	25	13	160	1400	370

DUPLEX FLAT SLINGS & ENDLESS ROUND SLINGS

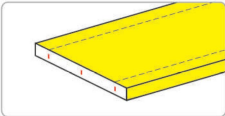
WEBBING SLING I

FLAT POLYESTER WEBBING SLING

- It is finished by the weaving machine with different sewing methods.
- Material: 100% high tensile polyester (PES)
- Single ply or double ply.
- The working load can be distinguished easily by the colour and the width.
- It is colour coded according to DIN-EN1492-1, also it has capacity stripes on the sling(each stripe is equal to 1 ton capacity).
- It can offer wide and smooth load surface to the lifted object.
- It has high protection against the abrasion and damage. To avoid being damaged by the sharp objects, it can also be used together with proper protective sleeve.
- Safety factor :4:1,5:1, 6:1,7:1,8:1 is available.
- Temperature: -40°C to 100°C
- Standard: EN1492-1:2000, EC directive 2006/42/EC.
- Special identification tag is optional at extra cost.



Identification Tag



Wear-out Warning Strip

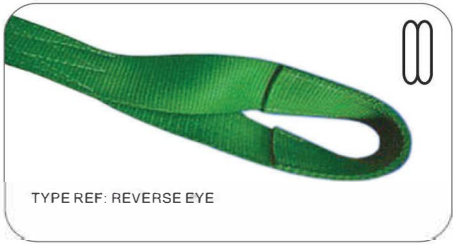
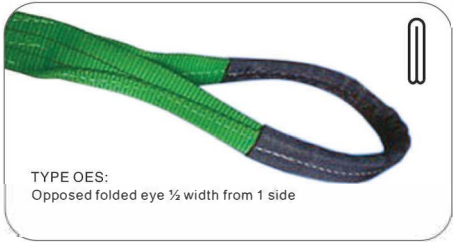
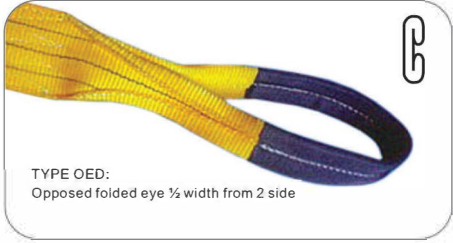


Thickened Webbing Sling

Webbing Width (mm)	colour coded according to DIN-EN- 1492-1	Working Load Limit with 1 webbing sling					Working load limit with 2 webbing sling			
		Straight lift	Choked lift	lift in different angle			straight lift up to	choked lift up to	Straight lift	choked lift
				0° - 7°	7° - 45°	45° - 60°	45°	45°	45° - 60°	45° - 60°
										
		1.0	0.8	2.0	1.4	1.0	1.4	1.12	1.0	0.8
50	WLL1T	1000	800	2000	1400	1000	1400	1120	1000	800
60	WLL2T	2000	1600	4000	2800	2000	2800	2240	2000	1600
90	WLL3T	3000	2400	6000	4200	3000	4200	3360	3000	2400
120	WLL4T	4000	3200	8000	5600	4000	5600	4480	4000	3200
150	WLL5T	5000	4000	10000	7000	5000	7000	5600	5000	4000
180	WLL6T	6000	4800	12000	8400	6000	8400	6720	6000	4800
240	WLL8T	8000	6400	16000	11200	8000	11200	8960	8000	6400
300	WLL10T	10000	8000	20000	14000	10000	14000	11200	10000	8000

* Up to 50 Ton available on request

LIFTING EYE TYPE



Physical information chart

Material	Polyester
Elongation at breaking force	ca. 12%
Elongation at WLL	ca. 3%
Elongation-resistance in wet condition	100%
Compared wear-resistance	80
Specific weight	1.38

POLYESTER ROUND WEBBING SLING

- It is finished by the weaving machine with different sewing methods.
- It is made by high quality synthetic fibre and high tensile polyester.
- The working load can be distinguished easily by the colour.
- It is colour coded according to DIN-EN1492-2, also it has capacity stripes on the sling(each stripe is equal to 1 ton capacity).
- Safety factor: 4:1,5:1,6:1,7:1,8:1 is available.
- Material: Sleeve: 100% high tensile polyester (PES)
Filling: 100% high quality synthetic fibre
- Temperature: -40°C to 100°C
- Standard: EN1492-2:2000, EC directive 2006/42/EC.



Color	colour coded according to DIN-EN-1492-1	Working Load Limit with 1 webbing sling							Working load limit with 2 webbing sling			
		Straight lift	Choked lift	lift in different angle					straight lift up to	choked lift up to	Straight lift	choked lift
		1.0	0.8	2.0	1.4	1.0	0.7	0.5	1.4	1.12	1.0	0.8
Purple		1000	800	2000	1400	1000	700	500	1400	1120	1000	800
Green		2000	1600	4000	2800	2000	1400	1000	2800	2240	2000	1600
Yellow	WLL3T	3000	2400	6000	4200	3000	2100	1500	4200	3360	3000	2400
Grey	WLL4T	4000	3200	8000	5600	4000	2800	2000	5600	4480	4000	3200
Red	WLL5T	5000	4000	10000	7000	5000	3500	2500	7000	5600	5000	4000
Brown	WLL6T	6000	4800	12000	8400	6000	4200	3000	8400	6720	6000	4800
Blue	WLL7T	8000	6400	16000	11200	8000	5600	4000	11200	8960	8000	6400
Orange	WLL10T	10000	8000	20000	14000	10000	7000	5000	14000	11200	10000	8000
Orange	WLL12T	12000	9600	24000	16800	12000	8400	6000	16800	13440	12000	9600
Orange	WLL15T	15000	12000	30000	21000	15000	10500	7500	21000	16800	15000	12000
Orange	WLL20T	20000	16000	40000	28000	20000	14000	10000	28000	22400	20000	16000
Orange	WLL30T	30000	24000	60000	42000	30000	21000	15000	42000	33600	30000	24000
Orange	WLL50T	50000	40000	100000	70000	50000	35000	25000	70000	56000	50000	40000
Orange	WLL60T	60000	48000	120000	84000	60000	42000	30000	84000	67200	60000	48000
Orange	WLL80T	80000	64000	160000	112000	80000	56000	40000	112000	89600	80000	64000
Orange	WLL100T	100000	80000	200000	140000	100000	70000	50000	140000	112000	100000	80000

All specifications herein are subject to change without notice.

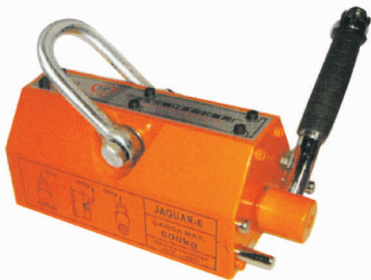
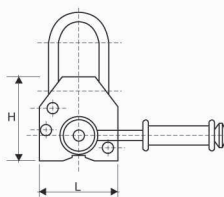
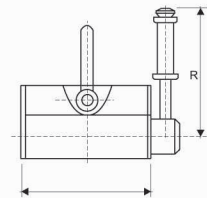
MAGNETS & WIRE ROPE WINCHES

HOIST | MAGNET LIFTER & WIRE ROPE WINCH

PERMANENT MAGNET LIFTER

TC

- Strong permanent magnetic circuit
- Stable and lasting working performance
- Strong pull-off strength
- High safety factor and reliable quality



TC Model safety factor 3.5:1

Model	Rated Lifting Strength (kgf)	Cylindrical Lifting Strength (kgf)	Max. Pull-off Strength (kgf)	Dimension (mm)				Operation Temperature (°C)	Net. Weight (kg)
				L	B	H	R		
TC100	100	50	350	62	92	67	140	<80	3
TC300	300	150	1050	92	163	93	180	<80	10
TC500	500	250	1750	120	216	116	220	<80	21
TC600	600	300	2100	122	234	118	220	<80	24
TC1000	1000	500	3500	172	264	168	260	<80	50
TC2000	2000	1000	7000	232	370	221	450	<80	125
TC3000	3000	1500	10500	274	453	266	520	<80	200
TC5000	5000	2500	17500	296	720	266	700	<80	398

ZNL



Cast Aluminum Housing

Model		NHSS0.8	NHSS1.6	NHSS3.2	NHSS5.4
Rated Capacity	tons	0.8	1.6	3.2	5.4
Pulling Capacity	tons	1.2	2.4	4.8	8.1
Rated Forward Travel	mm	≥52	≥55	≥28	≥25
Efficient Length of Forward handle	mm	825	1200	1200	1200
Drive Step		1	1	2	2
Rope Diameter	mm	8.3	11	16	20
Standard Length of Rope	m	20	20	20	20
Net Weight	Kg	16	24	32	90
Rated Forward Hand Power	N	≤341	≤400	≤438	≤550
Max.Overall Size	mm	426x64x238	545x97x284	660x98x325	930x390x150



STEEL WIRE ROPE

STEEL WIRE ROPE

STEEL WIRE ROPES FOR AEROSPACE CONTROLS

Standard: YB/T5197-2005

Main Application: apply to the major machinery and equipment.

Construction	Diameter (mm)		Nominal Tensile Strength (Mpa)	Min. Breaking Strength (kN)	Appr. Weight (kg/100m)
	Nominal Diameter (mm)	Allowed Tolerance (%)			
 6x7+FC	1.8	+10 0	1960	2.3	1.4
	2.15	+8 0	1960	3.3	2.0
	2.5			4.5	2.7
	3.05		1870	6.3	4.0
	3.6			8.7	5.5
	4.1	+7 0	1770	10.4	7.0
	4.5			12.8	8.7
	5.4		1670	17.5	12.5

 6x7+IWS	1.8	+10 0	1870	2.5	1.5
	2.15	+8 0		3.6	2.2
	2.5			5.0	3.0
	3.05			7.3	4.4
	3.6			10.1	6.2
	4.5	+7 0	1770	15.0	9.6
	5.4		1670	20.4	13.8

STEEL STRAND (UNGALVANIZED AND GALVANIZED)

Galvanized: Electric Galvanized, Hot Dipped Galvanized

Main Application: Suitable for hanger, communication cable, overhead power line and fixing subject etc.

Construction	Nominal Diameter mm	Approx Weight kg/100m	Nominal Tensile Strength	
			Minimum Breaking Strength (kN)	
			1570N/mm ²	1770N/mm ²
 1x19	1	0.5	0.825	0.93
	1.2	0.71	1.19	1.34
	1.5	1.11	1.86	2.09
	2	1.98	3.3	3.72
	2.5	3.1	5.15	5.81
	3	4.46	7.42	8.37
	3.5	6.06	10.1	11.4
	4	7.93	13.2	14.9
	5	12.4	20.6	23.2
	6	17.8	29.7	33.5
	7	24.3	40.4	45.6
	8	31.7	52.8	59.5
	9	40.1	66.8	75.3
	10	49.5	82.5	93
	11	59.9	99.8	114
	12	71.3	119	135



■ STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)

Construction: DIN3055 6x7+FC

Galvanized: Electric Galvanized, Hot Dipped Galvanized

Application: for various kind of cable carriage, rope and belt conveyer, cable drawing and slope well winching

Construction	Nominal Diameter	Approx Weight	Nominal Tensile Strength							
			Minimum Breaking Strength (kN)							
			mm		kg/100m		1570N/mm²		1770N/mm²	
	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
 6x7+FC	1.2	0.505	0.557	0.75	0.81	0.84	0.91	0.94	1.00	
	2	1.40	1.55	2.08	2.25	2.35	2.54	2.60	2.81	
	3	3.16	3.48	4.69	5.07	5.28	5.71	5.85	6.33	
	4	5.62	6.19	8.33	9.01	9.40	10.10	10.40	11.20	
	5	8.77	9.68	13.00	14.00	14.60	15.80	16.20	17.60	
	6	12.60	13.90	18.70	20.20	21.10	22.80	23.40	25.30	
	7	17.20	19.00	25.50	27.60	28.70	31.10	31.80	34.40	
	8	22.50	24.80	33.30	36.00	37.60	40.60	41.60	45.00	
	9	28.40	31.30	42.20	45.60	47.50	51.40	52.70	56.90	
	10	35.10	38.70	52.10	56.30	58.70	63.50	65.00	70.30	
	11	42.50	46.80	63.00	68.10	71.10	76.80	78.70	85.10	
	12	50.50	55.70	75.00	81.10	84.60	91.50	93.70	101.00	
	13	59.30	65.40	88.00	95.20	99.30	107.00	110.00	118.00	
	14	68.80	75.90	102.00	110.00	115.00	124.00	127.00	138.00	
	16	89.90	99.10	133.00	144.00	150.00	162.00	166.00	180.00	
	18	114.00	125.00	168.00	182.00	190.00	205.00	210.00	228.00	
	20	140.00	155.00	208.00	225.00	235.00	254.00	260.00	281.00	
	22	170.00	187.00	252.00	272.00	284.00	307.00	315.00	340.00	
	24	202.00	223.00	300.00	324.00	338.00	366.00	374.00	405.00	
	26	237.00	262.00	352.00	381.00	397.00	429.00	440.00	475.00	
	28	275.00	303.00	408.00	441.00	460.00	498.00	510.00	551.00	
	30	316.00	348.00	469.00	507.00	528.00	571.00	585.00	633.00	
	32	359.00	396.00	533.00	577.00	601.00	650.00	666.00	720.00	
	34	406.00	447.00	602.00	651.00	679.00	734.00	752.00	813.00	
	36	455.00	502.00	675.00	730.00	761.00	823.00	843.00	912.00	
	38	507.00	559.00	752.00	813.00	848.00	917.00	940.00	1016.00	
	40	561.00	619.00	833.00	901.00	940.00	1016.00	1041.00	1125.00	
	42	619.00	682.00	919.00	994.00	1036.00	1120.00	1147.00	1241.00	
44	679.00	749.00	1009.00	1091.00	1137.00	1230.00	1260.00	1362.00		
46	742.00	818.00	1102.00	1192.00	1243.00	1344.00	1377.00	1488.00		
48	808.00	891.00	1200.00	1298.00	1354.00	1464.00	1499.00	1621.00		

Note: 1) Stainless Steel Wire Rope is Available.
 Material: AISI304 ,AISI316 or AISI316L as per requirement.
 2) Steel wire rope made as per other standard is available (BS, ASTM, EN etc)

■ STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)

Construction: BS302 6x12+7FC

Galvanized: Electric Galvanized, Hot Dipped Galvanized

Application: for tugboat, cargo net, floating of wood, fish net dragging and binding.

Construction	Nominal Diameter mm	Approx Weight kg/100m	Nominal Tensile Strength	
			Minimum Breaking Strength (kN)	
			1570N/mm²	1770N/mm²
 6x12+7FC	NF/SF			
	5	6.28/5.78	8.20	9.25
	6	9.04/8.32	11.80	13.30
	7	12.30/11.30	16.10	18.10
	8	16.10/14.80	21.00	23.70
	9	20.30/18.70	26.60	30.00
	10	25.10/23.10	32.80	37.00
	11	30.40/28.00	39.70	44.80
	12	36.10/33.30	47.30	53.30
	14	49.20/45.30	64.30	72.50
	16	64.30/59.10	84.00	94.70
	18	81.30/74.80	106.00	120.00
	20	100/92.40	131.00	148.00
	22	121/112	159.00	179.00
	24	145/133	189.00	213.00
	26	170/156	222.00	250.00
	28	197/181	257.00	290.00
	30	226/208	295.00	333.00
	32	257/237	336.00	379.00
	34	290/267	379.00	428.00
	36	325/299	425.00	479.00
	38	362/334	474.00	534.00
	40	402/370	525.00	592.00
	42	442/407	579.00	652.00
	44	486/447	635.00	716.00
	46	531/488	694.00	782.00



■ STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)

Construction: DIN3055 6x19+FC, 6x19+IWS or IWR
Galvanized: Electric Galvanized, Hot Dipped Galvanized
Application: for various equipment for lifting, drawing and fish net dragging.

Construction	Nominal Diameter	Approx Weight	Nominal Tensile Strength							
			Minimum Breaking Strength (kN)							
			kg/100m		1570N/mm²		1770N/mm²		1960N/mm²	
			mm	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
 6x19+FC	3	3.11/3.03	3.43	4.34	4.69	4.89	5.29	5.41	5.85	
	4	5.54/5.39	6.10	7.71	8.34	8.69	9.40	9.62	10.40	
	5	8.65/8.43	9.53	12.00	13.00	13.60	14.70	15.00	16.20	
	6	12.50/12.10	13.70	17.40	18.80	19.60	21.20	21.60	23.40	
	7	17.00/16.50	18.70	23.60	25.50	26.60	28.80	29.40	31.80	
	8	22.10/21.60	24.40	30.80	33.40	34.80	37.60	38.50	41.60	
 6x19+IWS	9	28.00/27.30	30.90	39.00	42.20	44.00	47.60	48.70	52.70	
	10	34.60/33.70	38.10	48.20	52.10	54.30	58.80	60.00	65.00	
	11	41.90/40.80	46.10	58.30	63.10	65.80	71.10	72.80	78.70	
	12	49.80/48.50	54.90	69.40	75.10	78.20	84.60	86.60	93.70	
	13	58.50/57.00	64.40	81.50	88.10	91.80	99.30	101	110	
	14	67.80/66.10	74.70	94.50	102	107	115	118	127	
	16	88.60/86.30	97.50	123	133	139	150	154	166	
	18	112/109	123	156	169	176	190	195	210	
 6x19+IWR	20	138/135	152	193	208	217	235	240	260	
	22	167/163	184	233	252	263	284	291	315	
	24	199/194	219	278	300	313	338	346	374	
	26	234/228	258	326	352	367	397	406	440	
	28	271/264	299	378	409	426	461	471	510	
	30	311/303	343	434	469	489	529	541	585	
	32	354/345	390	494	534	556	602	616	666	
	34	400/390	440	557	603	628	679	695	752	
	36	448/437	494	625	676	704	762	780	843	
	38	500/487	550	696	753	785	849	868	940	
	40	554/539	610	771	834	869	940	962	1041	
	42	610/594	672	850	919	959	1040	1061	1147	
	42	670/652	738	933	1010	1050	1140	1164	1260	
	46	732/713	806	1020	1100	1150	1240	1273	1376	
	48	797/776	878	1110	1200	1250	1350	1386	1499	
	50	865/843	953	1200	1300	1360	1470	1504	1626	
	52	936/911	1030	1300	1410	1470	1590	1627	1759	
	54	1010/983	1110	1410	1520	1580	1710	1754	1897	
	56	1090/1060	1190	1510	1630	1700	1840	1887	2040	

Note: 1) Stainless Steel Wire Rope is Available.
Material: AISI304 ,AISI316 or AISI316L as per requirement.
2) Steel wire rope made as per other standard is available (BS, ASTM, EN etc)

■ STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)

Construction: 6x61+FC, 6x61+IWR

Galvanized: Electric Galvanized, Hot Dipped Galvanized

Application: for various equipment for lifting, drawing and fish net dragging.

Construction	Nominal Diameter	Approx Weight	Nominal Tensile Strength							
			Minimum Breaking Strength (kN)							
			mm	kg/100m	1570N/mm²		1770N/mm²		1960N/mm²	
			NF/SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
 6x61+FC	8	23.10/22.60	25.40	30.30	32.70	32.20	36.90	37.80	40.80	
	12	52.00/51.00	57.30	68.20	73.70	77.00	83.00	85.20	92.00	
	20	144/142	159	190	205	214	231	236	255	
	26	244/239	269	321	346	361	390	400	432	
	30	325/319	358	427	461	481	519	532	575	
	36	468/459	516	614	663	693	748	767	828	
	40	578/566	637	759	819	855	923	947	1022	
	46	764/749	842	1000	1080	1130	1220	1252	1352	
	50	903/885	995	1190	1280	1340	1440	1479	1597	
	56	1130/1110	1250	1490	1610	1680	1810	1856	2000	
 6x61+IWR	60	1300/1270	1430	1710	1840	1920	2080	2130	2297	
	66	1570/1540	1730	2070	2230	2330	2510	2578	2780	
	68	1670/1640	1840	2190	2370	2470	2670	2737	2950	
	70	1770/1730	1950	2320	2510	2620	2830	2900	3127	

Construction: 8x61+FC, 8x61+IWR

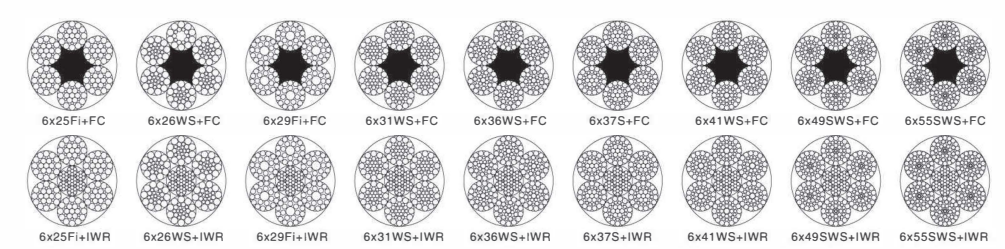
Galvanized: Electric Galvanized, Hot Dipped Galvanized

Application: for various equipment for lifting, drawing and fish net dragging.

Construction	Nominal Diameter	Approx Weight	Nominal Tensile Strength								
			Minimum Breaking Strength (kN)								
			mm		kg/100m	1570N/mm²		1770N/mm²		1960N/mm²	
			mm	NF/SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
 8x61+FC	8	22.80	26.56	27.30	32.30	30.80	36.40	34.20	40.30		
	16	91.20	106	110	129	123	146	137	161		
	20	143	166	171	202	193	228	214	252		
	26	241	280	289	341	326	384	361	426		
	30	321	374	385	454	434	512	480	567		
	32	365	425	438	516	493	582	546	645		
	36	462	538	554	654	624	737	691	816		
	40	570	664	684	807	771	910	853	1007		
 8x61+IWR	46	754	880.8	904	1066	1020	1203	1129	1331		
	50	890	1038	1068	1260	1204	1420	1333	1573		
	56	1117	1302	1339	1580	1510	1782	1672	1974		
	60	1282	1494	1538	1815	1734	2046	1920	2265		
	66	1551	1808	1860	2196	2098	2475	2323	2741		
	70	1745	2034	2093	2470	2360	2785	2613	3083		

Note: 1) Stainless Steel Wire Rope is Available.
Material: AISI304, AISI316 or AISI316L as per requirement.
2) Steel wire rope made as per other standard is available (BS, ASTM, EN etc)

■ LINE CONTACTED STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



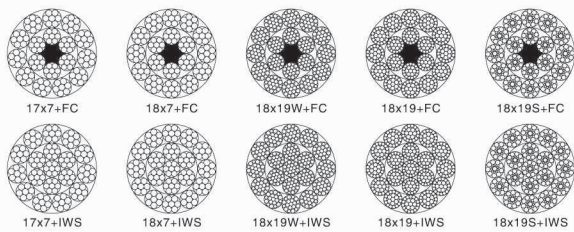
Construction: 6x25 Fi, 6x29 Fi, 6x26WS, 6x31WS,6x36WS,6x37S,6x41WS,6x49SWS, 6x55SWS

Galvanized: Electric Galvanized, Hot Dipped Galvanized

Application: for port loading and unloading purposes, for tower crane purpose, lifting and drawing; the rope with steel core can be used under the shock load, heated and squeezed conditions such as excavator

Nominal Diameter	Approx Weight	Nominal Tensile Strength							
		Minimum Breaking Strength (kN)							
		1570N/mm²		1770N/mm²		1960N/mm²			
mm	kg/100m								
	NF/SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	
6	13. 70/13. 40	15. 00	18. 60	20. 10	21. 00	22. 60	23. 20	25. 10	
8	24. 30/23. 70	26. 80	33. 20	35. 80	37. 40	40. 30	41. 40	44. 60	
9	30. 80/30. 10	33. 90	42. 00	45. 30	47. 30	51. 00	52. 30	56. 50	
10	38. 00/37. 10	41. 80	51. 80	55. 90	58. 40	63. 00	64. 60	69. 70	
11	46. 00/44. 90	50. 60	62. 70	67. 60	70. 70	76. 20	78. 20	84. 40	
12	54. 70/53. 40	60. 20	74. 60	80. 50	84. 10	90. 70	93. 10	100	
13	64. 20/62. 70	70. 60	87. 60	94. 50	98. 70	106	109	118	
14	74. 50/72. 70	81. 90	102	110	114	124	126	136	
16	97. 30/95. 00	107	133	143	150	161	165	178	
18	123/120	135	168	181	189	204	209	226	
20	152/148	167	207	224	234	252	258	279	
22	184/180	202	251	271	283	305	313	337	
24	219/214	241	298	322	336	363	372	402	
26	257/251	283	350	378	395	426	437	471	
28	298/291	328	406	438	458	494	507	547	
30	342/334	376	466	503	526	567	582	627	
32	389/380	428	531	572	598	645	662	714	
34	439/429	483	599	646	675	728	747	806	
36	492/481	542	671	724	757	817	838	904	
38	549/536	604	748	807	843	910	933	1007	
40	608/594	669	829	894	935	1010	1034	1116	
42	670/654	737	914	986	1030	1110	1140	1230	
44	736/718	809	1000	1080	1130	1220	1252	1350	
46	804/785	884	1100	1180	1240	1330	1368	1476	
48	876/855	963	1190	1290	1350	1450	1490	1607	
50	950/928	1050	1300	1400	1460	1580	1617	1744	
52	1030/1000	1130	1400	1510	1580	1700	1748	1886	
54	1110/1080	1220	1510	1630	1700	1840	1886	2034	
56	1190/1160	1310	1620	1750	1830	1980	2028	2188	
58	1280/1250	1410	1740	1880	1960	2120	2175	2347	
60	1370/1340	1500	1870	2010	2100	2270	2328	2511	
62	1460/1430	1610	1990	2150	2250	2420	2486	2682	
65	1606/1567	1766	2188	2361	2467	2662	2732	2948	

■ NON-ROTATING STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



Construction: 17x7+FC,17x7+IWS,18x7+FC,18x7+IWS,18x19s+FC,18x19s+IWS
18x19W+FC, 18x19W+IWS, 18x19+FC, 18x19+IWS

Galvanized: Electric Galvanized, Hot Dipped Galvanized

Application: for port loading and unloading purposes, for tower crane purpose, lifting and drawing; the rope with steel core can be used under the shock load, heated and squeezed conditions such as excavator.

Nominal Diameter	Approx Weight	Nominal Tensile Strength							
		Minimum Breaking Strength (kN)							
mm	kg/100m	1570N/mm²		1770N/mm²		1960N/mm²			
		FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
6	14.0		15.5	17.5	18.5	19.8	20.9	21.9	23.1
7	19.1		21.1	23.8	25.2	26.9	28.4	29.8	31.5
8	25.0		27.5	31.1	33.0	35.1	37.2	38.9	41.1
9	31.6		34.8	39.4	41.7	44.4	47.0	49.2	52.1
10	39.0		43.0	48.7	51.5	54.9	58.1	60.8	64.3
11	47.2		52.0	58.9	62.3	66.4	70.2	73.5	77.8
12	56.2		61.9	70.1	74.2	79.0	83.6	87.5	92.6
13	65.9		72.7	82.3	87	92.7	98.1	103	109
14	76.4		84.3	95.4	101	108	114	119	126
16	99.8		110	125	132	140	149	156	165
18	126		139	158	167	178	188	197	208
20	156		172	195	206	219	232	243	257
22	189		208	236	249	266	281	294	311
24	225		248	280	297	316	334	350	370
26	264		291	329	348	371	392	411	435
28	306		337	382	404	430	455	476	504
30	351		387	438	463	494	523	547	579
32	399		440	498	527	562	594	622	658
34	451		497	563	595	634	671	702	743
36	505		557	631	667	711	752	787	833
38	563		621	703	744	792	838	877	928
40	624		688	779	824	878	929	972	1030
42	688		759	859	908	968	1020	1070	1130
44	755		832	942	997	1060	1120	1180	1240

Note: 1) Stainless Steel Wire Rope is Available.
Material: AISI304 ,AISI316 or AISI316L as per requirement.
2) Steel wire rope made as per other standard is available (BS, ASTM, EN etc)

■ NON-ROTATING STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)

Construction: 35Wx7

Galvanized: Electric Galvanized, Hot Dipped Galvanized

Application: Elevator, crane, machinery.

Construction	Nominal Diameter	Approx Weight	Nominal Tensile Strength			
			Minimum Breaking Strength (kN)			
	mm	kg/100m	1570N/mm ²	1770N/mm ²	1870N/mm ²	1960N/mm ²
 35Wx7	8	29.4	36.1	40.7	43.0	45.1
	10	46	56.5	63.7	67.3	70.6
	12	66.2	81.4	91.8	96.9	102
	14	90.2	111	125	132	138
	16	118	145	163	172	181
	18	149	183	206	218	229
	20	184	226	255	269	282
	22	223	274	308	326	342
	24	265	326	367	388	406
	26	311	382	431	455	477
	28	361	443	500	528	553
	30	414	509	573	606	635
	32	471	579	652	689	723
	34	532	653	737	778	816
	36	596	732	826	872	914
	38	664	816	920	972	1020
	40	736	904	1020	1080	1130
	42	811	997	1120	1190	1240
	44	891	1090	1230	1300	1370
	46	973	1196	1348	1424	1493
	48	1060	1302	1468	1551	1625
	50	1150	1410	1590	1680	1760

Construction: 34x7+FC,34X7+IWS, 36x7+FC, 36x7+IWS

Galvanized: Electric Galvanized, Hot Dipped Galvanized

Application: equipment for port loading and unloading, tower crane lifting.

Construction	Nominal Diameter	Approx Weight	Nominal Tensile Strength			
			Minimum Breaking Strength (kN)			
	mm	kg/100m	1570N/mm ²	1770N/mm ²	1870N/mm ²	1960N/mm ²
 34x7+FC	8	24.96	32.0	36.1	38.1	39.9
	10	39.00	50.0	56.3	59.5	62.4
 34x7+IWS	12	56.16	72.0	81.1	85.7	89.8
	14	76.44	98.0	111	117	123
 36x7+FC	16	99.84	128	144	153	160
	18	126.36	162	182	193	202
 36x7+IWS	20	156	200	225	238	250
	24	225	288	325	343	360
	28	306	392	442	467	489
	30	351	450	507	536	561
	36	506	648	730	771	808
	42	688	881	993	1049	1100
	48	900	1151	1297	1370	1437

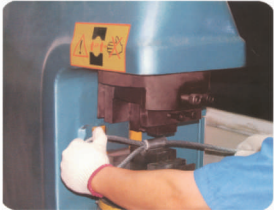
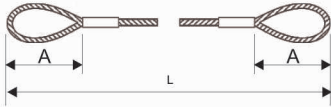
PRESS STEEL WIRE ROPE SLINGS

The specification of the wire rope used by the following working load in the table Dia 6mm-60mm use the construction of 6X37(b)-1670; Dia 62mm-120mm use the construction of 8X61(b)-1670; Dia 122mm-190mm use the construction of 8X91(b)-1670.

Different construction of the rope means different working load, we can calculate the working load with the steel wire rope construction that the customer required.

The sling's breaking load is 5 times of its working load.

The pressed type for the rope with dia 90mm is pressed two aluminum ferrule on each end of the sling

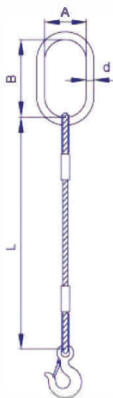


Dia. of Rope (mm)	W.L.L (kN)		Appr. Eye Length A (mm)
	FC	IWRC	
6	3.2	3.4	180
7	4.3	4.7	190
8	5.7	6.1	210
9	7.2	7.8	230
10	8.9	9.6	230
11	11	12	250
12	13	14	260
13	15	16	260
14	17	19	280
16	23	24	320
18	29	31	360
20	35	38	400
22	43	46	440
24	51	55	480
26	60	65	520
28	69	75	560
30	80	86	600
32	91	98	640
34	102	110	680
36	115	124	720
38	128	138	760
40	142	153	800
42	157	169	840
44	172	185	880
46	187	203	920
48	203	220	960
50	221	240	1000
52	239	259	1040
54	258	279	1080
56	277	301	1120
58	298	322	1160
60	319	345	1200
62	290	343	1240
64	309	365	1280
66	329	389	1320
68	349	413	1360
70	370	437	1400
72	391	463	1440
74	413	489	1480
76	436	516	1520
78	459	543	1560
80	483	571	1600
82	507	600	1640
84	532	630	1680
86	558	660	1720
88	584	691	1760
90	611	723	1800
92	639	756	1840

Dia. of Rope (mm)	W.L.L (kN)		Appr. Eye Length A (mm)
	FC	IWRC	
94	667	789	1880
96	695	823	1920
98	725	857	1960
100	755	893	2000
102	785	929	2040
104	816	966	2080
106	848	1003	2120
108	880	1041	2160
110	913	1080	2200
112	946	1120	2240
114	981	1160	2280
116	1015	1201	2320
118	1051	1243	2360
120	1086	1286	2400
122	1207	1503	2440
124	1247	1553	2480
126	1288	1603	2520
128	1330	1654	2560
130	1371	1706	2600
132	1414	1760	2640
134	1458	1818	2680
136	1501	1872	2720
138	1546	1926	2760
140	1591	1980	2800
142	1636	2034	2840
144	1683	2088	2880
146	1729	2160	2920
148	1778	2214	2960
150	1818	2268	3000
152	1872	2340	3040
154	1926	2394	3080
156	1980	2466	3120
158	2034	2520	3160
160	2070	2592	3200
162	2124	2646	3240
164	2178	2718	3280
166	2232	2790	3320
168	2286	2844	3360
170	2340	2916	3400
172	2394	2988	3440
174	2466	3060	3480
176	2520	3132	3520
178	2574	3204	3560
180	2628	3276	3600
182	2682	3348	3640
184	2754	3420	3680
186	2808	3492	3720
188	2862	3564	3760
190	2934	3654	3800

SINGLE LEG PRESSED STEEL WIRE ROPE SLINGS

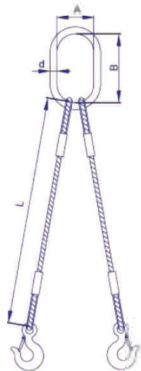
The specification of the steel wire rope in the form with the working load is :6X37+FC-1670;
Different construction rope with different working load, we can calculate the working load of the steel wire rope construction that the customer required;



Dia. of Rope (mm)	W.L.L (kN)		Master Link Ax Bxd (mm)	Type	Hook	W.L.L (t)
	0°-90°	90°-120°				
6	3.2	3.2	65×130×16	(US)S6		0.75
7	4.3	4.3	65×130×16	(US)S6		0.75
8	5.7	5.7	65×130×16	(US)S6		0.75
9	7.2	7.2	65×130×16	(US)S6		0.75
10	8.9	8.9	65×130×16	(US)S6		1
11	11	11	65×130×16	(US)S6		1.5
12	13	13	65×130×16	(US)S6		1.5
13	15	15	65×130×16	(US)S6		1.5
14	17	17	65×130×16	(US)S6		2
16	23	23	80×150×20	(US)S6		3
18	29	29	80×150×20	(US)S6		3
20	35	35	90×160×24	(US)S6		5
22	43	43	90×160×24	(US)S6		5
24	51	51	90×160×24	(US)S6		7.5
26	60	60	100×190×28	(US)S6		7.5
28	69	69	100×190×28	(US)S6		7.5
30	80	80	100×190×28	(US)S6		10
32	91	91	110×200×32	(US)S6		10
34	102	102	110×200×32	(EYE)		15
36	115	115	120×230×34	(EYE)		15
38	128	128	135×250×38	(EYE)		15
40	142	142	135×250×38	(EYE)		15
42	157	157	140×270×42	(EYE)		37
44	172	172	140×270×42	(EYE)		37
46	187	187	140×270×42	(EYE)		37
48	203	203	140×270×42	(EYE)		37
50	221	221	160×310×46	(EYE)		37
52	239	239	160×310×46	(EYE)		37
54	258	258	180×330×52	(EYE)		37
56	277	277	180×330×52	(EYE)		37
58	298	298	180×330×52	(EYE)		37
60	319	319	180×330×56	(EYE)		37

DOUBLE LEGS PRESSED STEEL WIRE ROPE SLINGS

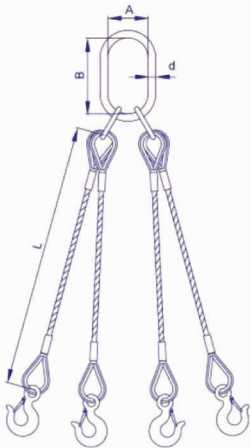
The specification of the steel wire rope in the form with the working load is :6X37+FC-1670;
The 0°-90° can be used if the customers do not have any special requirement;
Different construction rope with different working load, we can calculate the working load of the steel wire rope construction that the customer required;



Dia. of Rope (mm)	W.L.L (kN)		Master Link Ax Bxd (mm)	Type	Hook	W.L.L (t)
	0°-90°	90°-120°				
6	4.5	3.2	65×130×16	(US)S6		0.75
7	6.1	4.3	65×130×16	(US)S6		0.75
8	7.9	5.7	65×130×16	(US)S6		0.75
9	10	7.2	65×130×16	(US)S6		0.75
10	12	8.9	65×130×16	(US)S6		1
11	15	11	65×130×16	(US)S6		1.5
12	18	13	65×130×16	(US)S6		1.5
13	21	15	65×130×16	(US)S6		1.5
14	24	17	80×150×20	(US)S6		2
16	32	23	80×150×20	(US)S6		3
18	40	29	90×160×24	(US)S6		3
20	50	35	90×160×24	(US)S6		5
22	60	43	100×190×28	(US)S6		5
24	71	51	100×190×28	(US)S6		7.5
26	84	60	110×200×32	(US)S6		7.5
28	97	69	110×200×32	(US)S6		7.5
30	112	80	135×250×38	(US)S6		10
32	127	91	135×250×38	(US)S6		10
34	143	102	135×250×38	(US)S6		15
36	161	115	135×250×38	(EYE)		15
38	179	128	140×270×42	(EYE)		15
40	199	142	140×270×42	(EYE)		15
42	220	157	160×310×46	(EYE)		37
44	240	172	160×310×46	(EYE)		37
46	262	187	180×330×52	(EYE)		37
48	285	203	180×330×52	(EYE)		37
50	309	221	180×330×56	(EYE)		37
52	335	239	180×330×56	(EYE)		37
54	361	258	180×330×56	(EYE)		37
56	388	277	180×330×56	(EYE)		37
58	417	298	210×410×62	(EYE)		37
60	446	319	210×410×62	(EYE)		37

■ FOUR LEGS PRESSED STEEL WIRE ROPE SLINGS

This form with the working load use the steel wire rope: 6X37+FC-1670;
This form with status working load, the 0°~45° can be used if the customers has not any special requirement;
Different construction rope with different working load, we can calculate the working load of the steel wire rope construction that the customer required.

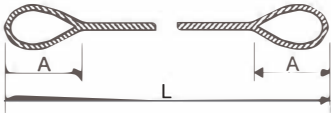


Dia. of Rope (mm)	W.L.L (kN)		Master Link AxBxd (mm)	Type	Hook W.L.L(t)
	0°-45°	45°-60°			
6	6.7	4.8	65×130×16	(US)S6	0.75
7	9.1	6.5	65×130×16	(US)S6	0.75
8	12	8.5	65×130×16	(US)S6	0.75
9	15	11	65×130×16	(US)S6	0.75
10	19	13	65×130×16	(US)S6	1
11	23	16	80×150×20	(US)S6	1.5
12	27	19	80×150×20	(US)S6	1.5
13	31	22	80×150×20	(US)S6	1.5
14	36	26	90×160×24	(US)S6	2
16	48	34	90×160×24	(US)S6	3
18	60	43	100×190×28	(US)S6	3
20	74	53	100×190×28	(US)S6	5
22	90	64	110×200×32	(US)S6	5
24	107	76	120×230×34	(US)S6	7.5
26	126	90	135×250×38	(US)S6	7.5
28	146	104	135×250×38	(US)S6	7.5
30	168	120	140×270×42	(US)S6	10
32	191	136	140×270×42	(US)S6	10
34	214	153	160×310×46	(US)S6	15
36	241	172	160×310×46	(EYE)	15
38	269	192	180×330×52	(EYE)	15
40	298	213	180×330×52	(EYE)	15
42	330	235	180×330×56	(EYE)	37
44	360	257	180×330×56	(EYE)	37
46	393	280	180×330×56	(EYE)	37
48	427	305	210×410×62	(EYE)	37
50	464	331	210×410×62	(EYE)	37
52	503	359	210×410×62	(EYE)	37
54	542	387	210×410×68	(EYE)	37
56	582	416	210×410×68	(EYE)	37
58	626	447	240×410×76	(EYE)	37
60	669	478	240×410×76	(EYE)	37



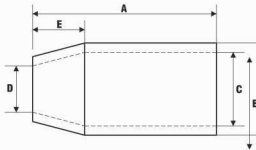
■ SPLICED WIRE ROPE SLINGS

This form with the working load use the steel wire rope: 6x37+FC-1670, 8x61+FC-1670;
Different construction of the rope means different working load, we can calculate the working load with the steel wire rope construction that the customer required;
The slings breaking load is 5 times of its working load;
According to the GB/T16271-1996 standard.



Dia. of Rope (mm)	W.L.L (kN)		Appr. Eye Length A (mm)
	FC	IWRC	
6	2.7	2.9	180
7	3.6	3.9	190
8	4.7	5.1	210
9	6	6.5	230
10	7.4	8	230
11	8.9	9.7	250
12	11	11.5	260
13	12	14	260
14	14	16	280
16	19	20	320
18	24	26	360
20	30	32	400
22	36	39	440
24	42	46	480
26	50	54	520
28	58	63	560
30	66	72	600
32	76	82	640
34	85	92	680
36	96	104	720
38	106	115	760
40	118	128	800
42	130	141	840
44	143	155	880
46	156	169	920
48	170	183	960
50	185	200	1000
52	200	216	1040
54	215	233	1080
56	231	251	1120
58	248	269	1160
60	266	287	1200
62	241	286	1240
64	257	304	1280
66	274	324	1320
68	291	344	1360
70	308	365	1400
72	326	386	1440
74	344	407	1480
76	363	430	1520
78	383	453	1560
80	402	476	1600
82	423	500	1640
84	444	525	1680
86	465	550	1720
88	487	576	1760
90	509	603	1800
92	532	630	1840

Dia. of Rope (mm)	W.L.L (kN)		Appr. Eye Length A (mm)
	FC	IWRC	
94	556	657	1880
96	579	686	1920
98	604	714	1960
100	629	744	2000
102	654	774	2040
104	680	805	2080
106	707	836	2120
108	733	868	2160
110	761	900	2200
112	789	933	2240
114	817	967	2280
116	846	1001	2320
118	876	1036	2360
120	905	1071	2400
122	1006	1252	2440
124	1039	1294	2480
126	1074	1336	2520
128	1108	1378	2560
130	1143	1422	2600
132	1179	1467	2640
134	1215	1515	2680
136	1251	1560	2720
138	1288	1605	2760
140	1326	1650	2800
142	1363	1695	2840
144	1402	1740	2880
146	1441	1800	2920
148	1482	1845	2960
150	1515	1890	3000
152	1560	1950	3040
154	1605	1995	3080
156	1650	2055	3120
158	1695	2100	3160
160	1725	2160	3200
162	1770	2205	3240
164	1815	2265	3280
166	1860	2325	3320
168	1905	2370	3360
170	1950	2430	3400
172	1995	2490	3440
174	2055	2550	3480
176	2100	2610	3520
178	2145	2670	3560
180	2190	2730	3600
182	2235	2790	3640
184	2295	2850	3680
186	2340	2910	3720
188	2385	2970	3760
190	2445	3045	3800



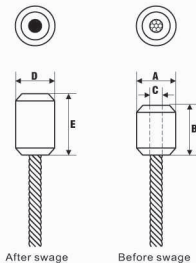
Steel Swaging Sleeve (S505)

Surface: Ungalvanized or Electric Galvanized.

Stock No.	Rope Dia.		Dimension (mm)					Dia. after swage(mm)	Weight(kg)
	(in.)	(mm)	A	B	C	D	E		
S505-06	1/4	6.35	25.4	16.76	7.87	7.11	11.94	14.48	0.023
S505-08	5/16	7.94	38.10	23.11	9.65	11.18	15.75	19.05	0.064
S505-10	3/8	9.53	38.10	23.11	11.94	9.91	16.76	19.05	0.064
S505-11	7/16	11.11	50.80	30.99	13.46	16.51	21.59	25.65	0.150
S505-13	½	12.70	50.80	30.99	16.00	14.22	23.11	25.65	0.130
S505-14	9/16	14.29	69.85	37.34	17.76	16.00	26.16	31.50	0.290
S505-16	5/8	15.88	69.85	37.34	19.05	16.00	27.69	31.50	0.260
S505-19	3/4	19.05	81.03	43.69	23.11	21.34	32.51	37.08	0.400
S505-22	7/8	22.23	90.42	51.56	26.16	25.40	38.86	42.67	0.600
S505-26	1	25.40	101.60	57.91	29.46	28.70	43.69	49.02	0.890
S505-28	1-1/8	28.58	121.92	63.50	32.51	31.75	49.28	54.10	1.180
S505-32	1-1/4	31.75	131.63	70.61	36.58	35.81	54.66	58.93	1.610
S505-35	1-3/8	34.93	147.57	76.20	39.62	39.62	60.45	64.00	1.920
S505-38	1-1/2	38.10	158.75	82.55	42.93	42.93	66.80	68.83	2.270
S505-45	1-3/4	44.45	184.15	97.54	49.28	50.04	79.50	78.74	3.660
S505-50	2	50.80	215.90	111.25	57.15	57.15	92.20	90.42	5.140
S505-57	2-1/4	57.15	242.82	127.56	63.50	64.26	102.36	104.65	8.790
S505-64	2-1/2	63.50	266.70	139.70	69.85	71.37	114.30	114.30	10.68
S505-70	2-3/4	69.85	292.10	146.05	76.20	78.49	120.65	119.38	12.71
S505-76	3	76.20	304.80	152.40	82.55	85.85	127.00	125.98	13.35
S505-82	3-1/4	82.55	330.20	165.10	98.04	89.92	137.92	136.40	16.50
S505-89	3-1/2	88.90	355.60	177.80	98.55	100.08	148.34	146.56	21.06
S505-95	3-3/4	95.25	381.00	190.50	103.12	107.95	160.27	158.24	24.97
S505-100	4	101.60	406.40	206.50	111.25	114.30	172.97	169.93	30.87
S505-115	4-1/2	114.30	457.20	231.90	123.95	128.52	194.56	189.23	45.40
S505-130	5	127.00	508.00	267.21	139.70	143.00	221.74	210.31	66.00
S505-150	8	152.40	609.60	318.52	165.10	171.43	259.08	252.22	123.00

Steel Swaging Sleeve (S409)

Surface: Ungalvanized or Electric Galvanized.



Stock No.	Rope Dia.		Dimension (in)					Weight(kg)
	(in.)	(mm)	A	B	C	D	E	
S409-03	1/8	3.18	0.44	0.55	0.14	0.40	0.61	0.009
S409-05	3/16	4.76	0.56	0.70	0.20	0.52	0.84	0.018
S409-06	1/4	6.35	0.63	1.06	0.30	0.58	1.20	0.036
S409-08	5/16	7.94	0.88	1.13	0.36	0.77	1.33	0.072
S409-10	3/8	9.53	0.88	1.48	0.42	0.77	1.69	0.068
S409-11	7/16	11.11	1.13	1.63	0.48	1.03	1.94	0.136
S409-13	½	12.70	1.31	1.89	0.55	1.16	2.17	0.227
S409-14	9/16	14.29	1.44	2.02	0.61	1.29	2.41	0.317
S409-16	5/8	15.88	1.56	2.42	0.67	1.42	2.89	0.454
S409-19	3/4	19.05	1.69	2.73	0.79	1.55	3.25	0.595
S409-22	7/8	22.23	2.00	3.27	0.94	1.80	3.86	1.020
S409-26	1	25.40	2.25	3.67	1.06	2.05	4.36	1.407
S409-28	1-1/8	28.58	2.56	4.05	1.19	2.30	4.81	2.043
S409-32	1-1/4	31.75	2.81	4.58	1.33	2.56	5.42	2.951

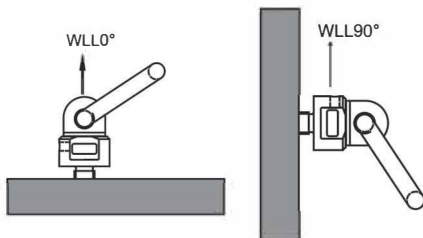
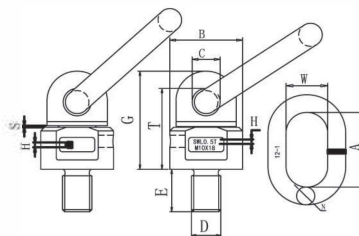
SWIVEL EYEBOLTS

COMPONENTS



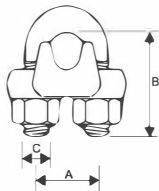
G80 Lifting Screw Point (TH-303)

- Powder coated, different color is available as per request.
- Working load limit permanently shown on the body.
- Max proof load is 2.5 times of the working load limited.
- Min. Breaking strength is 4times of the W.L.L.



Size	W.L.L (t)		Dimension (mm)										N.W. (kg/pc)
	90°	0°	DxE	B	C	G	T	A	W	N	H	S	
M8	0.3	0.6	M8x13	36	16.5	51	41	55	30	14	3	1	0.41
M10	0.5	0.9	M10x18	36	16.5	51	41	55	30	14	3	1	0.43
M10x90	0.5	1.0	M10x90	36	16.5	51	41	55	30	14	3	1	0.38
M12	0.5	1.0	M12x18	36	16.5	51	41	55	30	14	3	1	0.44
M12x40	0.5	1.0	M12x40	36	16.5	51	41	55	30	14	3	1	0.52
M12x45	0.5	1.0	M12x45	36	16.5	51	41	55	30	14	3	1	0.47
M12x110	0.5	1.0	M12x110	36	16.5	51	41	55	30	14	3	1	0.53
M14	1.12	2.0	M14x20	36	16.5	51	41	55	30	14	3	1	0.45
M16	1.12	2.0	M16x35	36	16.5	52	42	55	30	14	3	1	0.46
M16x40	1.12	2.0	M16x40	36	16.5	52	42	55	30	14	3	1	0.48
M16x100	1.12	2.0	M16x100	36	16.5	52	42	55	30	14	3	1	0.54
M16x120	1.12	2.0	M16x120	36	16.5	52	42	55	30	14	3.5	1	0.6
M20	2	4	M20x30	4.95	19	68	56	70	35	16	3.5	1	0.96
M20x120	2	4	M20x120	4.95	19	68	56	70	35	16	3.5	1	1.17
M24	3.15	6.3	M24x40	57	22	78	65.5	85	40	18	3.5	1.5	1.45
M24x40	3.15	6.3	M24x40	57	22	78	65.5	85	40	18	3.5	1.5	1.42
M24x90	3.15	6.3	M24x90	57	22	78	65.5	85	40	18	3.5	1.5	1.66
M24x120	3.15	6.3	M24x120	57	22	78	65.5	85	40	18	3.5	1.5	1.74
M27	3.15	6.3	M27x35	57	22	78	65.5	85	40	20	3.5	1.5	1.47
M30(5T)	5.3	10.6	M30x35	66	23.5	96.5	80.5	85	40	20	4	1.5	2.17
M30x38	5.3	10.6	M30x38	66	23.5	96.5	80.5	85	40	20	4	1.5	2.18
M30x120	5.3	10.6	M30x120	66	23.5	96.5	80.5	85	40	22	4	1.5	2.65
M30(8T)	8	11.8	M30x35	80	28	112	92	115	50	22	6	2	3.57
M30x38	8	11.8	M30x38	80	28	112	92	115	50	22	6	2	3.58
M30x120	8	11.8	M30x120	80	28	112	92	115	50	22	6	2	4.01
M36x90	8	11.8	M36x90	80	27	109	89.5	115	50	22	6	2	4.17
M36x400	8	11.8	M36x400	80	27	109	89.5	115	50	22	6	2	6.41
M39	8	11.8	M39x50	80	27	109	89.5	115	50	22	6	2	3.65
M39x90	8	11.8	M39x90	80	27	109	89.5	115	50	22	6	2	3.71
M42	10	15	M42x50	80	27	109	89.5	115	50	25	6	2.5	3.62
M42x60	10	15	M42x60	80	27	109	89.5	115	50	25	6	2.5	6.72
M42x130	10	15	M42x130	80	27	109	89.5	115	50	25	6	2.5	4.46
M42x180	10	15	M42x180	80	27	109	89.5	115	50	25	6	2.5	5.0
M45x60	10	15	M45x60	80	27	109	89.5	115	50	25	6	2.5	4.17
M48	10	15	M48x50	80	27	109	89.5	115	50	25	6	2.5	4.02
M48x110	10	15	M48x110	80	27	109	89.5	115	50	25	6	2.5	4.8
M56x84	15	25	M56x84	117	42	310	280	152	70	32	7	2.5	11.6
M64x95	15	25	M6x95	117	42	310	280	152	70	32	7	2.5	12.4

TURNBUCKLES, EYEBOLTS & WIRE ROPE CLAMPS

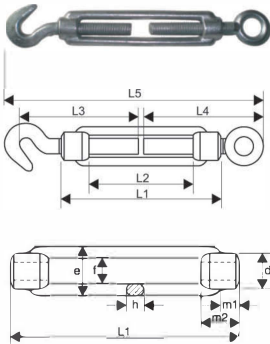


Drop-forged U.S. Type Wire Rope Clips (G450)

- Hot-dipped galvanized or zinc plated as requirement.
- FF-C-405 TYPE 1 CLASS I.

Size (in)	Dimension (in)			Weight (kg/pc)
	A	B	C	
1/8	0.47	0.72	0.22	0.03
3/16	0.59	0.97	0.25	0.05
1/4	0.75	1.03	0.31	0.09
5/16	0.88	1.38	0.38	0.14
3/8	1	1.5	0.44	0.21
7/16	1.19	1.88	0.5	0.34
1/2	1.19	1.88	0.5	0.36
9/16	1.31	2.25	0.56	0.47
5/8	1.31	2.38	0.56	0.48
3/4	1.5	2.75	0.62	0.68
7/8	1.75	3.12	0.75	0.96
1	1.88	3.5	0.75	1.18
1-1/8	2	3.88	0.75	1.32
1-1/4	2.31	4.25	0.88	1.95
1-3/8	2.38	4.63	0.88	2.09
1-1/2	2.59	4.94	0.88	2.45
1-5/8	2.75	5.31	1	3.18
1-3/4	3.06	5.75	1.13	4.20
2	3.38	6.44	1.25	5.90
2-1/4	3.88	7.13	1.25	7.26
2-1/2	4.13	7.69	1.25	8.62
2-3/4	4.38	8.31	1.25	10.43
3	4.75	9.19	1.50	14.06
3-1/2	5.50	10.75	1.50	18.15

Turnbuckles, DIN1480





Turnbuckles U.S. Federal Specification (FF-T-791B, TYPE 1, FORM 1)

- Turnbuckle assembly combinations include: Eye and Eye, Hook and Hook, Hook and Eye, Jaw and Jaw & Jaw and Eye.
- End fittings are Quenched and Tempered or Normalized, bodies heat treated by normalizing.
- Hot Dip galvanized.
- Lock Nuts available for all sizes.



Size (dia. x take-up)	Average overall length with ends in closed position	Approx. unit weight (lbs)					W.L.L. (lbs)	
		eyes and/or hooks	jaw&eye	jaw&jaw	stud end	body only	hook&hook/hook&eye	E/E, J/E, J/J, stud end
1/4" X 4"	8-1/4"	0.30	0.30	0.40	0.29	0.17	400	500
5/16" X 4-1/2"	9-9/16"	0.50	0.35	0.58	0.46	0.25	700	800
3/8" X 6"	11-7/8"	0.75	0.82	0.93	0.75	0.3	1000	1200
1/2" X 6"	13-5/16"	1.50	1.62	1.68	1.36	0.55	1500	2200
1/2" X 9"	16-5/16"	1.75	1.82	1.85	1.69	0.74	1500	2200
1/2" X 12"	19-5/16"	2.18	2.19	2.20	2	0.93	1500	2200
5/8" X 6"	15-1/2"	2.63	2.59	2.82	2.15	0.91	2250	3500
5/8" X 9"	18-1/2"	3	3.01	3.25	2.7	1.2	2250	3500
5/8" X 12"	21-1/2"	3.25	3.50	3.75	3.22	1.5	2250	3500
3/4" X 6"	17"	3.75	4.25	4.68	3.25	1.3	3000	5200
3/4" X 9"	20"	4.5	5	5.38	4	1.7	3000	5200
3/4" X 12"	23"	5.75	5.75	6.12	4.65	2.12	3000	5200
3/4" X 18"	29"	7	7.25	7.25	6.12	2.93	3000	5200
7/8" X 6"	18"	--	--	--	4.75	2	4000	7200
7/8" X 12"	24-5/8"	8.38	8.88	9.38	6.67	3	4000	7200
7/8" X 18"	30-5/8"	10.25	10.6	11.44	8.75	4.12	4000	7200
1" X 6"	20-5/8"	--	--	--	6.41	2.5	5000	10000
1" X 12"	26-5/8"	11.25	12	12.88	8.9	3.86	5000	10000
1" X 18"	32-5/8"	14	14.75	16.1	11.7	5.5	5000	10000
1" X 24"	38-5/8"	17	17.75	18.6	14.3	7	5000	10000
1-1/4" X 6"	20"	--	--	--	10.4	4	6500	15200
1-1/4" X 12"	29-7/8"	19	21.2	23.6	14.2	5.93	6500	15200
1-1/4" X 18"	35-7/8"	24.1	26	26.6	18	8	6500	15200
1-1/4" X 24"	41-7/8"	25	28.7	31.2	21.8	10	6500	21400
1-1/2" X 6"	22-1/2"	--	--	--	15.4	5.8	7500	21400
1-1/2" X 12"	32-3/8"	27	31.1	35.5	20.5	8.4	7500	21400
1-1/2" X 18"	38-3/8"	31.2	36.4	40.7	26.2	11.5	7500	21400
1-1/2" X 24"	44-3/8"	38.2	44.2	47.6	31.4	14.1	7500	21400
1-3/4" X 6"	--	--	--	--	22.7	8.75	--	28000
1-3/4" X 18"	41-3/4"	45	48.8	52.4	--	--	--	28000
1-3/4" X 24"	47-3/4"	58	60	64	43.9	19.5	--	28000
2" X 6"	--	--	--	--	31.5	12.5	--	37000
2" X 24"	51-3/4"	90	102	115	60.3	27.5	--	37000
2-1/2" X 6"	--	--	--	--	60.8	27	--	60000
2-1/2" X 24"	58-1/2"	183	180	200	110	54	--	60000
2-3/4" X 24"	61-1/2"	180	214	248	--	54	--	75000

EYE SCREW

DIN580 Eye Screw



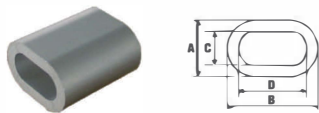
Size (mm)	W.L.L (t)	Dimension (mm)		N.W. (kg/pc)
		A	B	
M6	0.07	16	13	0.05
M8	0.14	20	15	0.06
M10	0.23	25	18	0.11
M12	0.34	30	22	0.18
M14	0.49	30	22	0.19
M16	0.7	35	28	0.28
M20	1.2	40	30	0.45
M22	1.5	45	35	0.67
M24	1.8	50	38	0.87
M27	2.5	50	38	0.88
M30	3.6	60	45	0.66
M33	4.3	60	45	1.72
M36	5.1	70	55	2.65
M39	5.1	70	55	2.8
M42	7	80	65	4.03
M45	8	80	65	4.25
M48	8.6	90	70	6.38
M52	9.9	90	70	6.6
M56	11.5	100	80	8.8
M64	16	110	90	12.4

DIN582 Ring Nut



Size (mm)	W.L.L (t)	Dimension (mm)		N.W. (kg/pc)
		A	B	
M6	0.07	20	8.5	0.05
M8	0.14	20	8.5	0.05
M10	0.23	25	10	0.09
M12	0.34	30	11	0.16
M14	0.49	35	13	0.24
M16	0.7	35	13	0.24
M20	1.2	40	16	0.36
M22	1.5	45	18	0.58
M24	1.8	50	20	0.72
M27	2.5	50	20	0.7
M30	3.6	60	25	1.32
M33	4.3	60	25	1.3
M36	5.1	70	30	2.08
M39	5.1	70	30	2.02
M42	7	80	35	3.11
M45	8	80	35	3.04
M48	8.6	90	40	5.02
M52	9.9	90	40	4.95
M56	11.5	100	45	6.69
M64	16	110	50	6.69

Aluminum Sleeve (EN 13411-3 Standard)



Rope Dia. (mm)	Dimension (mm)				Length (mm)	N.W. (g/pc)
	A	B	C	D		
1	3	4.3	1.3	2.6	5	0.11
1.5	3.5	5.3	1.8	3.6	6	0.21
2	4.5	6.9	2.4	4.8	7	0.24
2.5	5.1	8.1	3.0	6.0	9	0.50
3	6.1	9.6	3.5	7.0	11	0.84
3.5	7.0	11.0	4.0	8.0	13	1.32
4	7.9	12.4	4.5	9.0	14	1.81
4.5	8.9	14.0	5.1	10.2	16	2.61
5	9.8	15.4	5.6	11.2	18	3.57
6	11.6	18.2	6.6	13.2	21	5.86
6.5	12.6	19.8	7.2	14.4	23	7.85
7	13.6	21.4	7.8	15.6	25	9.53
8	15.4	24.2	8.8	17.6	28	13.7
9	17.3	27.2	9.9	19.8	32	19.8
10	19.1	30.0	10.9	21.8	35	26.4
11	21.1	33.2	12.1	24.2	39	35.6
12	23.0	36.2	13.2	26.4	42	45.8
13	25.0	39.2	14.2	28.4	46	59.7
14	26.0	42.2	15.3	30.5	49	73.5

Aluminum Sleeve (EN 13411-3 Standard)



Rope Dia. (mm)	Dimension (mm)				Length (mm)	N.W. (g/pc)
	A	B	C	D		
16	30.9	48.4	17.5	35.0	56	111
18	34.8	54.4	19.6	39.2	63	159
20	38.5	60.2	21.7	43.4	70	217
22	42.7	67.0	24.3	48.6	77	292
24	46.4	72.8	26.4	52.8	84	376
26	50.3	78.8	28.5	57.0	91	481
28	54.5	85.4	31.0	62.0	98	603
30	58.1	91.2	33.0	66.2	105	735
32	62.0	97.5	35.2	70.4	112	897
34	66.2	104	37.8	75.6	119	1082
36	69.8	109.6	39.8	79.6	126	1275
38	73.5	115.4	41.9	83.8	133	1503
40	77.2	121.2	44.0	88.0	140	1734
42	81.2	127.4	46.2	92.4	147	2024
44	85	133.4	48.4	96.8	154	2600
46	89	139.6	50.6	101.2	161	2662
48	92.8	145.6	52.8	105.6	168	3010
52	100.4	157.6	57.2	114.4	182	3960
54	104.4	163.8	59.4	118.8	189	4293
56	108.2	169.8	61.6	132.2	196	6120

WINCHES

HAND WINCH

HAND WINCH PD



Hand winch without steel wire rope or colour belt

Model	Capacity Rating (lbs/kg)	Gear Ratio	Handle Length (mm)	Hub Size (mm)	Size of wire rope (mm)	Size of color belt (mm)	Qty./ctn (pcs)	G.W/N.W (kg)	Dimension (cm)
PD06	600/250	3.1:1	165	Φ16	Φ4.2	1.0x50	6	13/11	59x26x16
PD08	800/350	3.1:1	175	Φ16	Φ4.2	1.0x50	6	14.5/12.5	59x26x16
PD10	1000/450	4.1:1	200	Φ18	Φ4.5	1.2x50	6	18/16	66x27x18
PD12	1200/540	4.1:1	225	Φ18	Φ4.5	1.4x50	6	18.5/16.5	66x27x18
PD14	1400/620	4.57:1	225	Φ18	Φ4.5	1.6x50	6	19/17	67x27x19
PD16	1600/720	5.1:1	225	Φ20	Φ4.8	1.6x50	4	15/13	46x31x20
PD18	1800/800	4.1:1&9.8:1	250	Φ20	Φ4.8	1.8x50	4	18/16	59x27x18
PD20	2000/900	4.1:1&9.8:1	250	Φ20	Φ5	1.8x50	4	19/17	52x31x20
PD20B	2000/900	4.1:1&9.8:1	250	Φ42	Φ5	1.8x50	4	21/18	52x31x20
PD25	2500/1100	4.1:1&9.8:1	275	Φ42	Φ5	2.0x50	4	22/20	54x31x22

Hand winch with steel wire rope

Model	Capacity Rating (lbs/kg)	Gear Ratio	Handle Length (mm)	Hub Size (mm)	Size of wire rope (mm)	Qty./ctn (pcs)	G.W/N.W (kg)	Dimension (cm)
PD06 A	600/270	3.1:1	165	Φ16	Φ4.2x8	6	15/13	59x26x16
PD08 A	800/360	3.1:1	175	Φ16	Φ4.2x8	6	17/15	59x26x16
PD10 A	1000/450	4.1:1	200	Φ18	Φ4.5x10	6	20.5/18.5	66x27x18
PD12 A	1200/540	4.1:1	225	Φ18	Φ4.5x10	6	21/20	66x27x19
PD14 A	1400/630	4.57:1	225	Φ18	Φ4.5x10	6	21.5/19.5	67x27x19
PD16 A	1600/720	5.1:1	225	Φ20	Φ4.8x10	4	18.5/16.5	46x31x20
PD18 A	1800/810	4.1:1&9.8:1	250	Φ20	Φ4.8x10	4	21.5/19.5	52x31x20
PD20 A	2000/900	4.1:1&9.8:1	250	Φ20	Φ5x10	4	22.5/20.5	52x31x20
PD20 BA	2000/900	4.1:1&9.8:1	250	Φ42	Φ5x10	4	23.5/21.5	52x31x20
PD25 A	2500/1100	4.1:1&9.8:1	275	Φ42	Φ5x10	4	25/23	54x31x22

Hand winch with colour belt

Model	Capacity Rating (lbs/kg)	Gear Ratio	Handle Length (mm)	Hub Size (mm)	Size of color belt (mm)	Qty./ctn (pcs)	G.W/N.W (kg)	Dimension (cm)
PD06B	600/250	3.1:1	165	Φ16	1.0x50x8m	6	13.5/11.5	59x26x16
PD08B	800/350	3.1:1	175	Φ16	1.0x50x8m	6	15/13	59x26x16
PD10B	1000/450	4.1:1	200	Φ18	1.2x50x8m	6	18.5/16.5	66x27x18
PD12B	1200/540	4.1:1	225	Φ18	1.4x50x8m	6	19/17	66x27x19
PD14B	1400/620	4.57:1	225	Φ18	1.6x50x8m	6	19.5/17.5	67x27x19
PD16B	1600/720	5.1:1	225	Φ20	1.6x50x8m	4	16/14	46x31x20
PD18B	1800/800	4.1:1&9.8:1	250	Φ20	1.8x50x8m	4	19/17	52x31x20
PD20B	2000/900	4.1:1&9.8:1	250	Φ20	1.8x50x8m	4	20/18	52x31x20
PD20B1	2000/900	4.1:1&9.8:1	250	Φ42	1.8x50x8m	4	22.5/20.5	52x31x20
PD25B	2500/1100	4.1:1&9.8:1	275	Φ42	2.0x50x8m	4	22.5/20.5	54x31x22

All specifications herein are subject to change without notice.