

# WIRE ROPE

## TYPICAL CROSS SECTIONS OF WIRE ROPE & STRAND



6 x 7



6 x 12



6 x 15



6 x 19



6 x 24



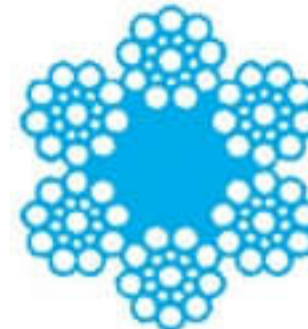
6 x 30



6 x 37



6 x 61



6 x S(19)



6 x W(19)



6 x Fi(25)



6 x Fi(29)



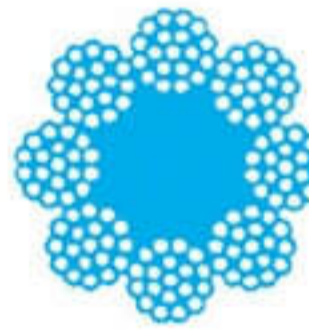
6 x Fi(25)IWRC



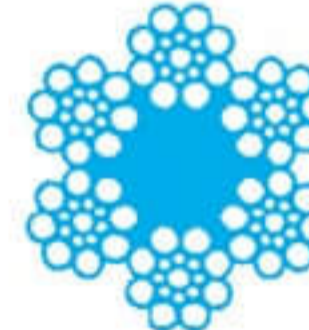
8 x S(19)



8 x W(19)



8 x Fi(25)



6 x S(17)



6 x Sew(43)



6 x WS(31)



6 x WS(36)



6 x S(19)IWRC



6 x Fi(21)IWRC



6 x Fi(25)IWRC



6 x SFi(41)IWRC



6 x WS(26)IWRC



6 x Fi(21)



6 x SeS(25)IWRC



6 x SeS(37)



6 x WS(41)IWRC



6 x Fi(36)



6 x (6 x 7)



18 x 7



19 x 7



7 x 7



7 x 19



7 x 37



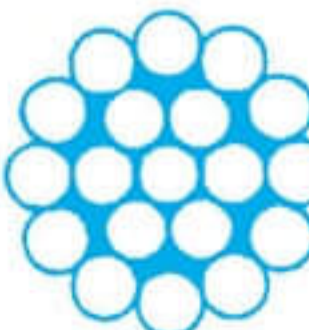
4 x 7



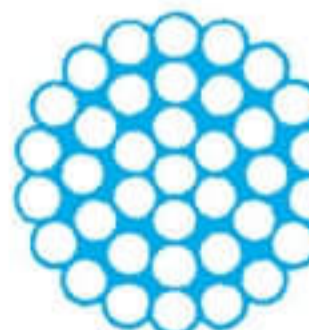
4 x S(19)



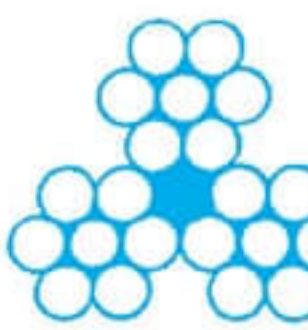
1 x 7



1 x 19



1 x 37

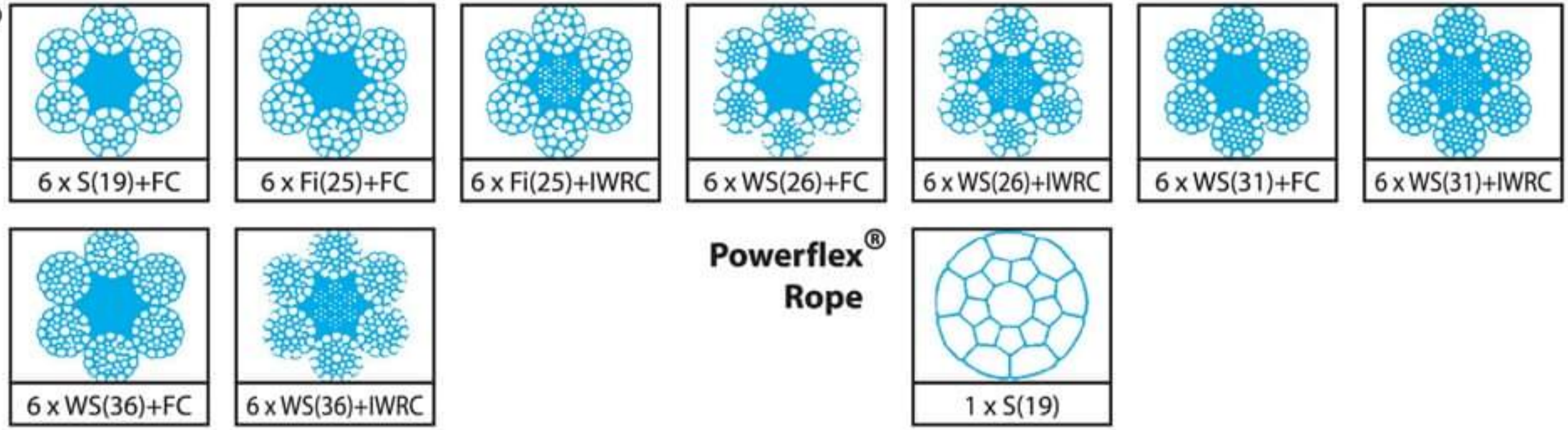


3 x 7

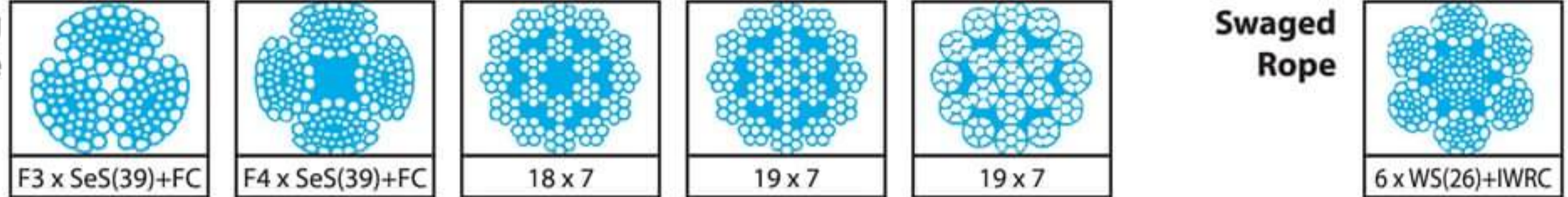


## Special Wire Rope

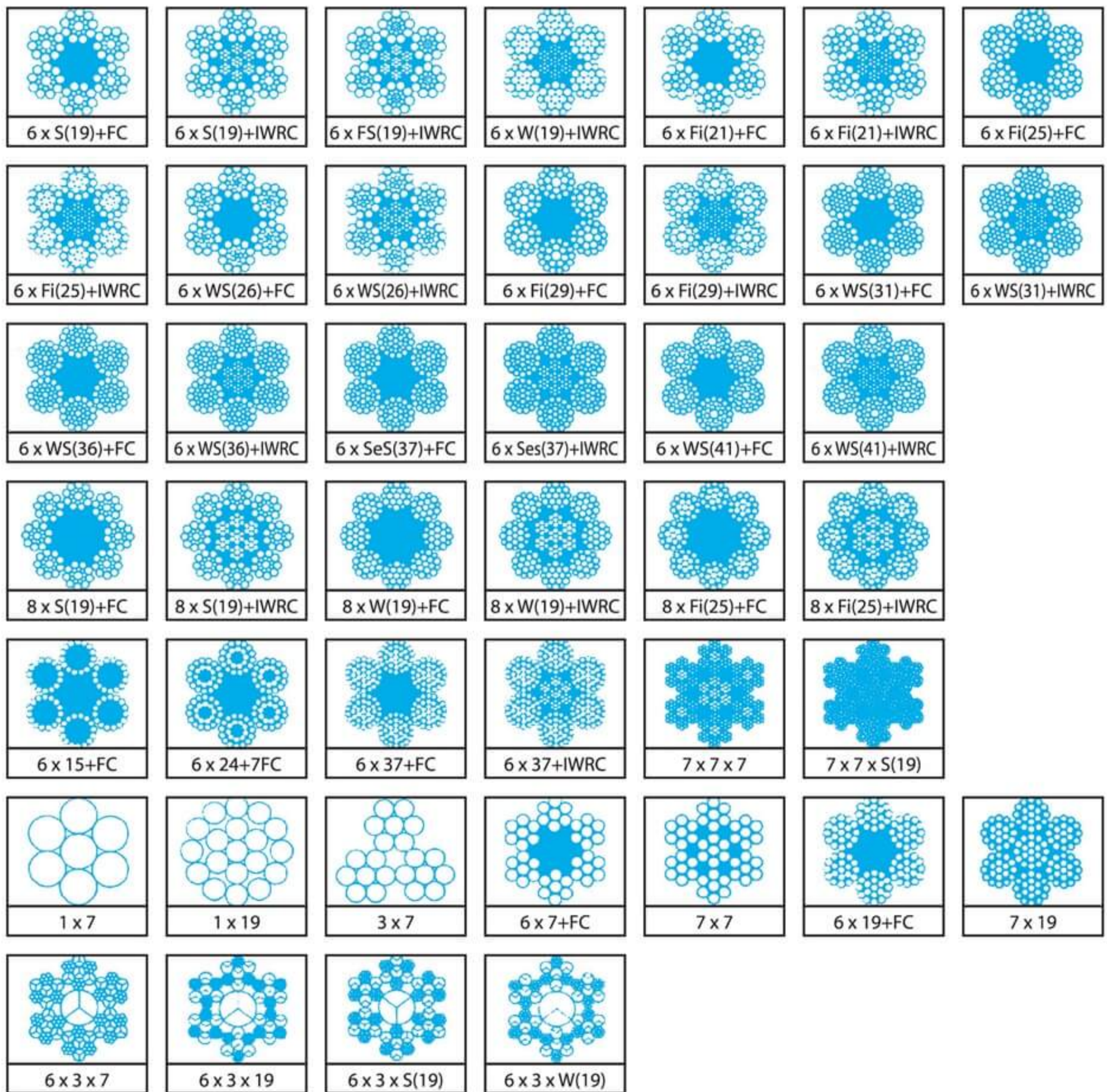
Powerflex®  
Rope



Non-Rotating  
Rope

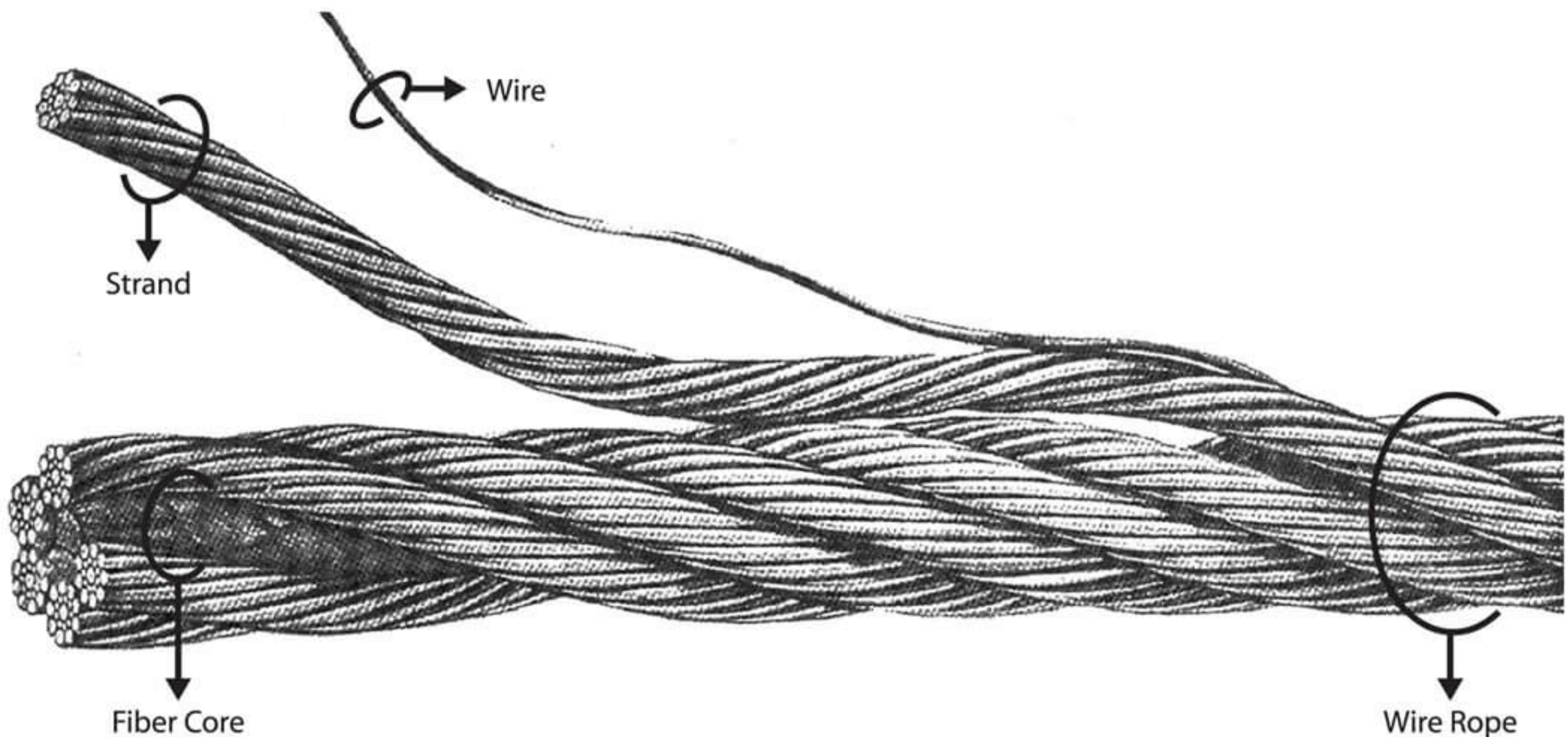


## General Wire Rope (Steel & Stainless)



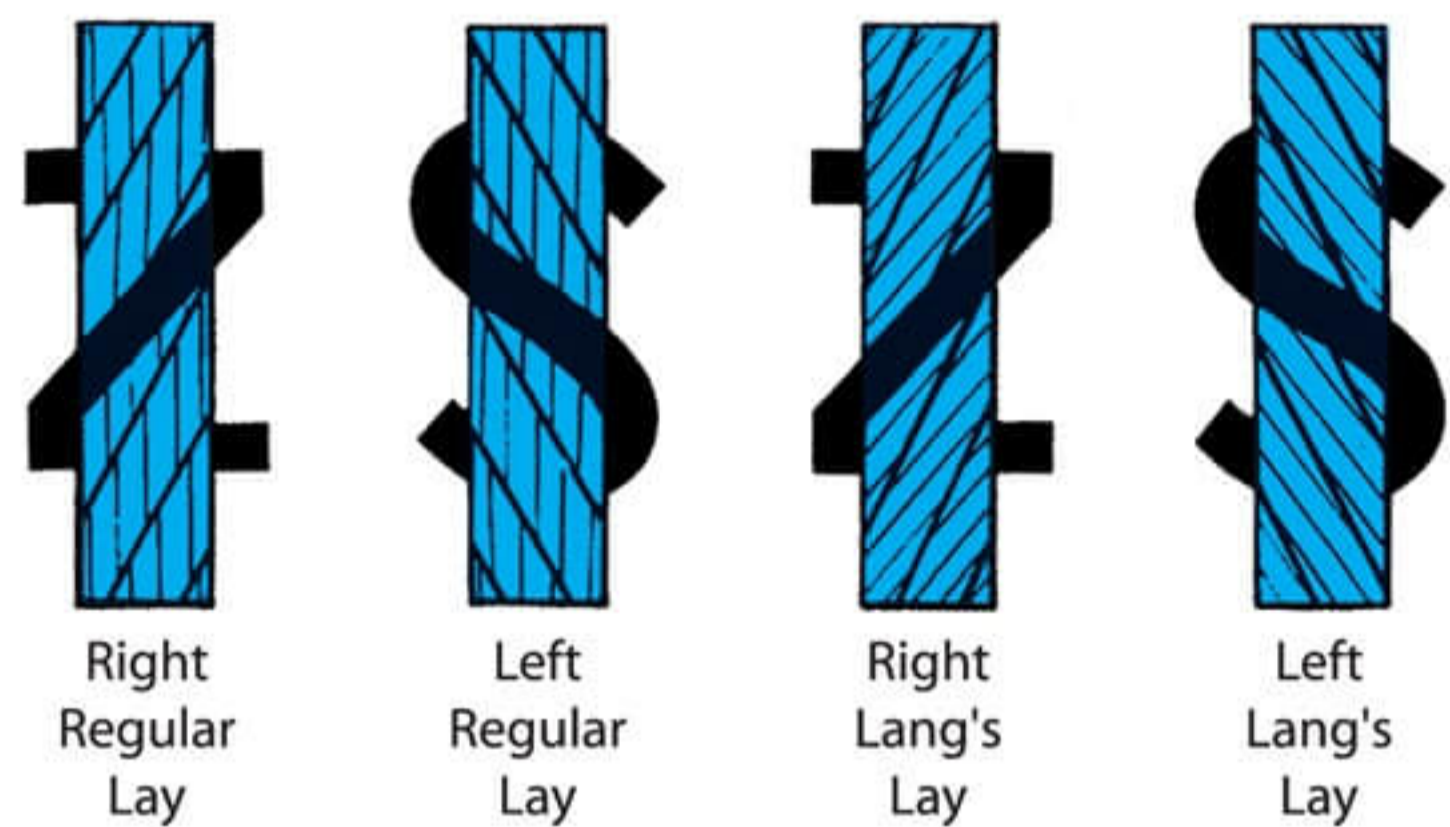
# General Information on Wire Rope

## Name of The Parts Composing Wire Rope



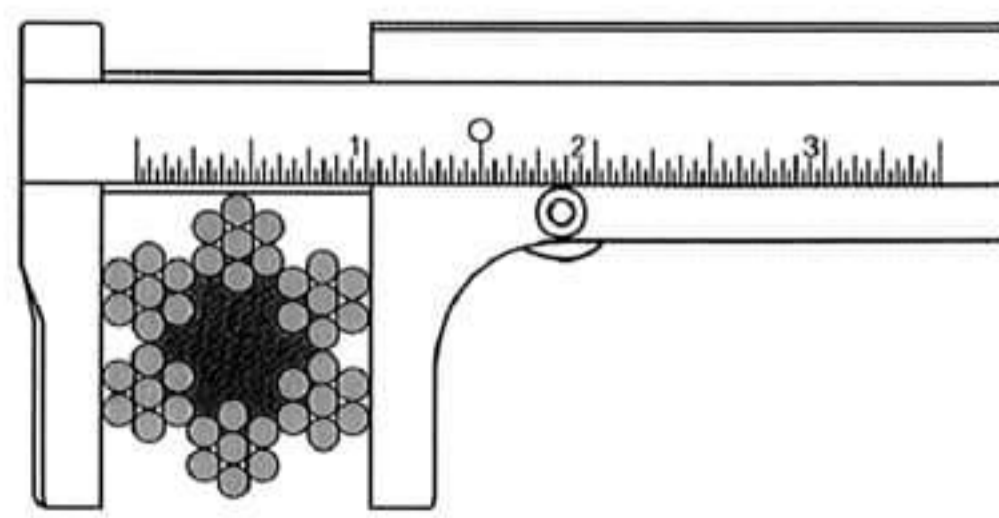
## Lays of Wire Rope

The lays of wire ropes, with few exceptions, are roughly divided into two kinds - Lang's Lay and Regular Lay. The Lang's Lay rope offers a better wearing surface when in use and can be expected to serve for a longer period than the Regular rope, which, meanwhile, is more flexible than Lang's Lay rope and easily spliced.

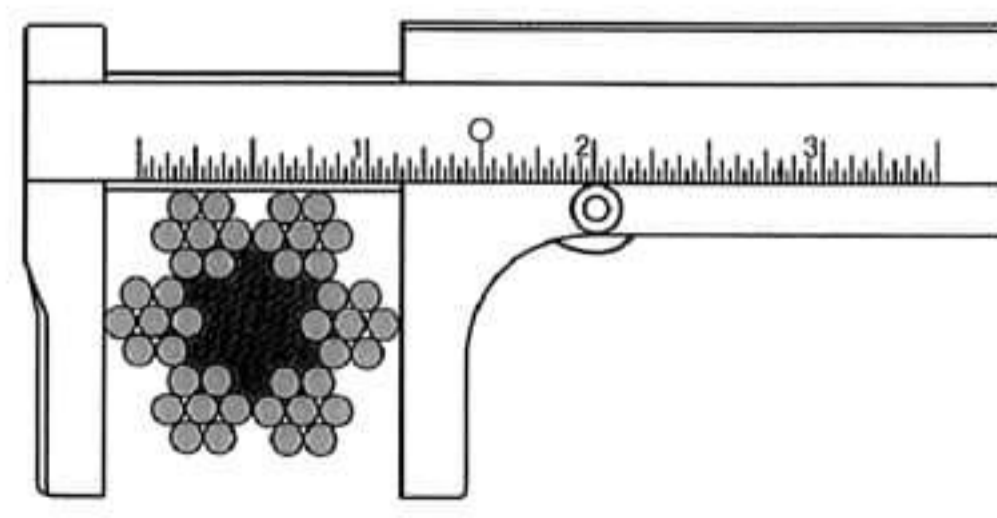


## How to Measure Rope Size

The size of wire rope is the diameter of the circle which will just enclose all the strands. The correct method is to measure over any pair of opposite strands. (see drawings)



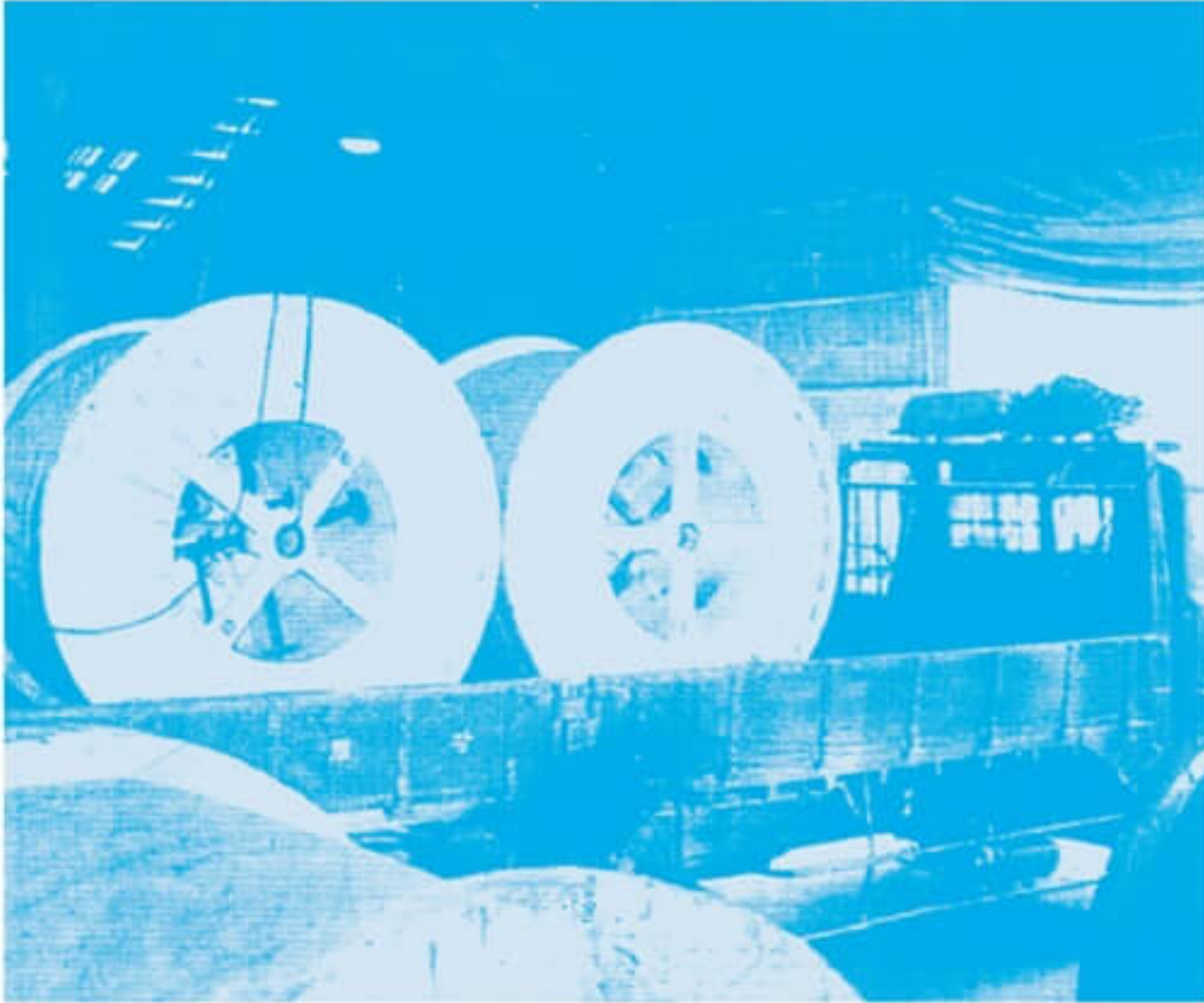
Wrong Measurement



Correct Measurement



# How to Handle Steel Wire Rope



## 1. Unloading and Storage

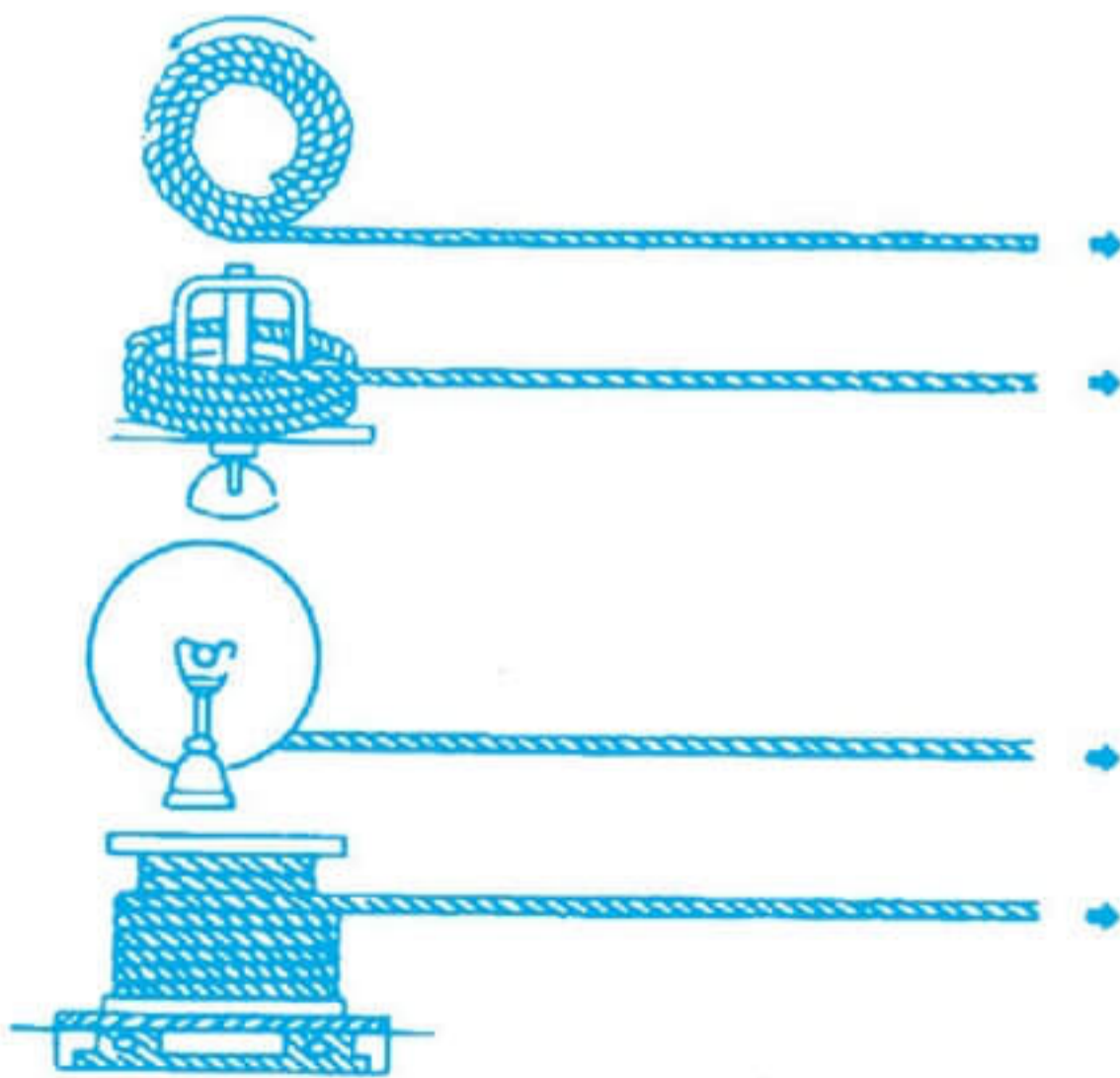
### Unloading

Ropes should be unloaded from trucks, trailers, railway, cars, etc., with care. Never drop the reel. Such action can fracture or separate the reel drum from the reel flanges. The best way for lifting a reel of rope is to place a bar or heavy pipe through the central hole of the reel and connect by slings to a suitable hoist. If the hoist is not available improvise a ramp of heavy planks and trestles and roll the reel down keeping same under control throughout this procedure.

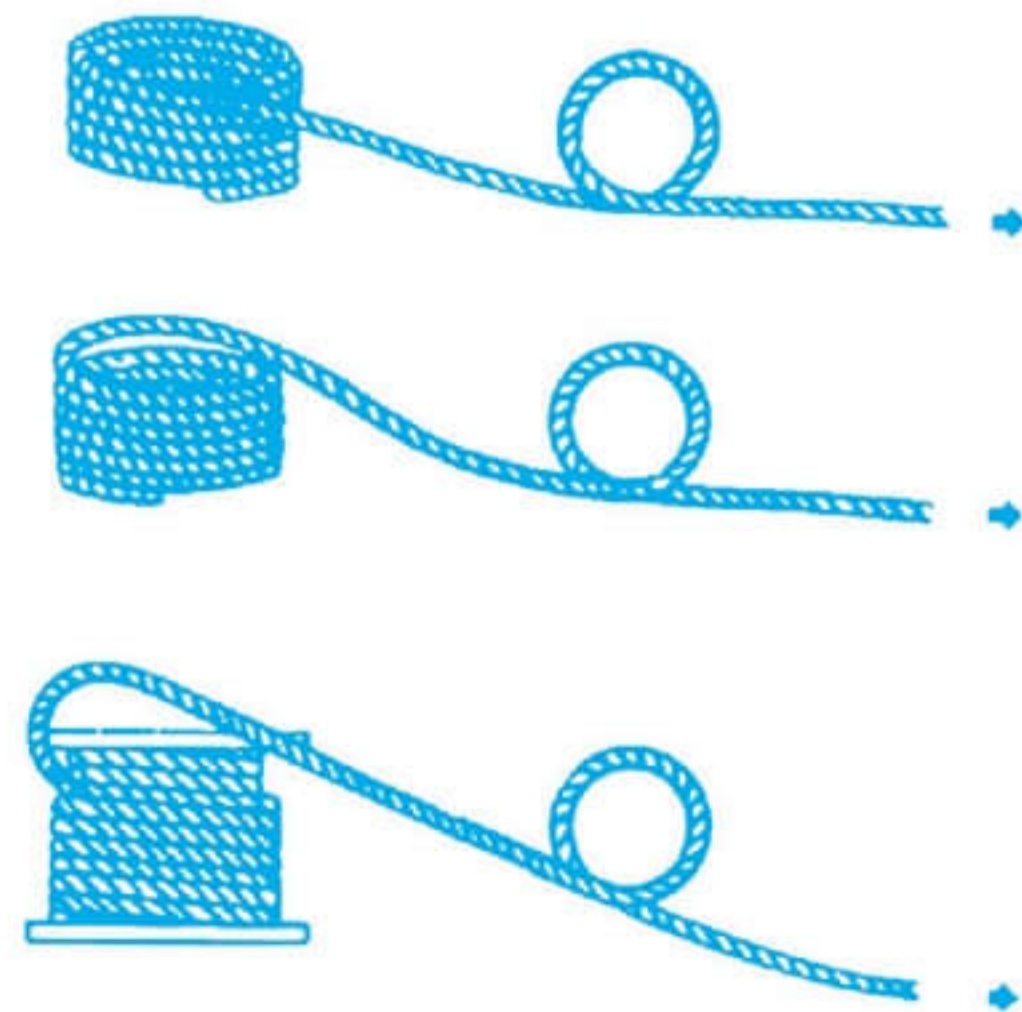
### Storage

Unwrap and examine the rope immediately after delivery. Apply a fresh coating of rope dressing if necessary. Rewrap rope and store under cover in a clean dry area. Keep the reel off the ground by steel or timber cribbing. Avoid storage on cinder fill. Examine the rope periodically and renew dressing as required.

## 2. Unreeling and Uncoiling



Correct Way

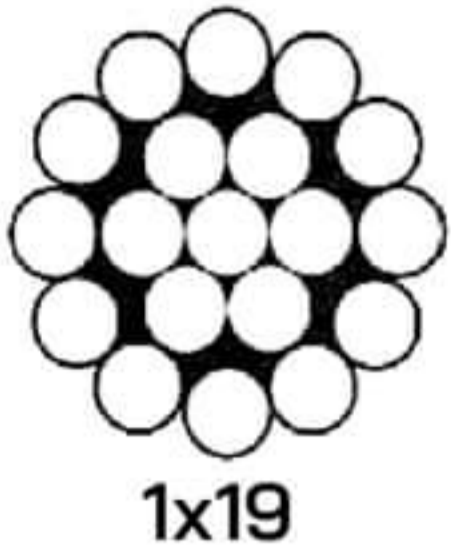


Incorrect Way



# WIRE ROPE

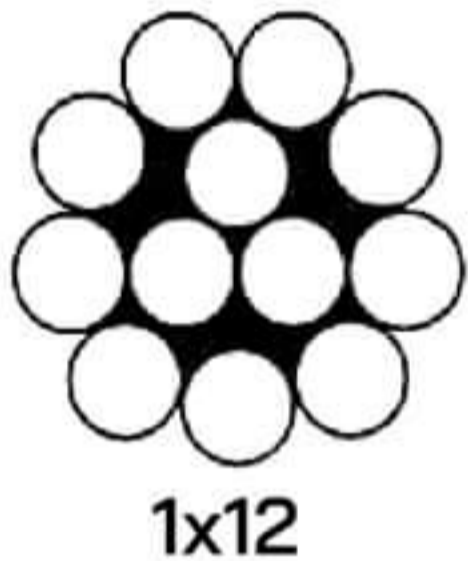
## 1x19 (12/6/1)



Strand Dia. (mm.)	Weight (Kgs./100Mtrs.)	Min, Breaking Load (KN)			JASO F 903-75	
		1570 N/mm2	1770 N/mm2	1960 N/mm2	Grade (N/mm2)	Min. B/L (KN)
1.20	0.71	1.19	1.34	1.48	-	-
1.25	0.77	1.29	1.45	2.32	-	-
1.50	1.11	1.86	2.09	4.12	1865	2.35
2.00	1.98	3.30	3.72	6.43	1865	4.12
2.50	3.10	5.15	5.81	9.27	1770	6.18
3.00	4.46	7.42	8.37	12.61	1770	8.34
3.50	6.07	10.10	11.39	16.47	1770	10.79
4.00	7.93	13.19	14.88	1.61	1770	14.70

Comply to DIN 3053 : 1972, JASO F 903-75 Specification.

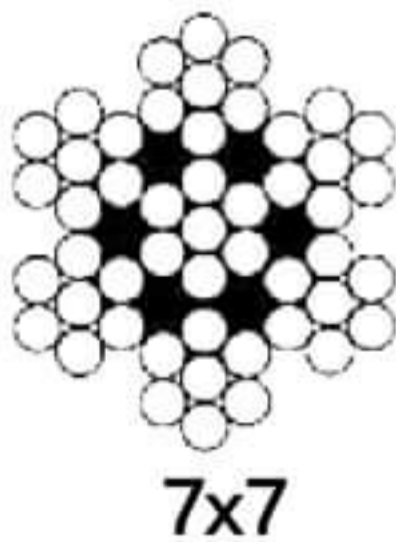
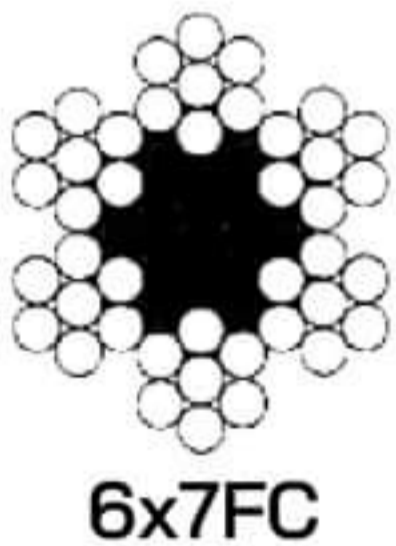
## 1x12 (9/3)



Strand Dia. (mm.)	Weight (Kgs./100Mtrs.)	Min, Breaking Load (KN)			JASO F 903-75	
		1570 N/mm2	1770 N/mm2	1960 N/mm2	Grade (N/mm2)	Min. B/L (KN)
1.20	0.71	1.19	1.34	1.48	1960	1.47
1.25	0.77	1.29	1.45	1.61	-	-
1.50	1.11	1.86	2.09	2.32	1960	2.35
2.00	1.98	3.30	3.72	4.12	-	-
2.50	3.10	5.15	5.81	6.43	-	-

Comply to JASO F 903-75 Specification.

## Fine Cord 6x7 (6/1), 7x7 (6/1)



Rope Diameter		Weight		Min, Breaking Load (KN)					
mm.	Inch			1570 N/mm2		1770 N/mm2		1960 N/mm2	
		FC	IWRC	FC	IWRC	FC	IWRC	FC	IWRC
1.50		0.77	0.86	1.17	1.27	1.32	1.43	1.46	1.58
2.00		1.36	1.52	2.08	2.25	2.35	2.54	2.60	2.81
2.38	(3/32")	1.93	2.16	2.96	3.20	3.33	3.60	3.69	3.99
3.18	(1/8")	3.43	3.84	5.25	5.68	5.92	6.41	6.56	7.09
4.00		5.44	6.10	8.34	9.02	9.40	10.17	10.41	11.26
4.76	(3/16")	7.71	8.64	11.82	12.78	13.33	14.41	14.76	15.96
5.53	(5/32")	10.40	11.66	15.95	17.24	17.98	19.44	19.91	21.53
6.00		12.24	13.72	18.76	20.29	21.16	22.88	23.43	25.33
6.35	(1/4")	13.71	15.36	21.02	22.73	23.70	25.62	26.24	28.37
7.94	(5/16")	21.42	24.00	32.84	35.51	37.02	40.03	41.00	44.33
8.00		21.76	24.38	33.36	36.07	37.61	40.67	41.65	45.03
9.53	(3/8")	30.85	34.57	47.29	51.14	53.31	57.65	59.04	63.84

Comply to BS 302 : 1987 Part 2 and ISO 2408 : 1985 Specification DIN 3055 : 1972, AS 3569 : 1989



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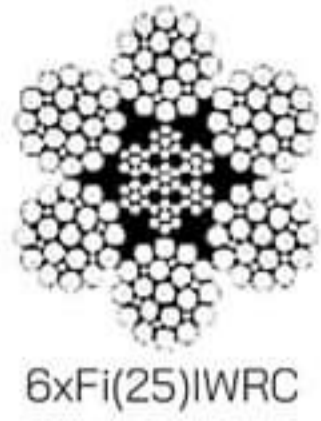


39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

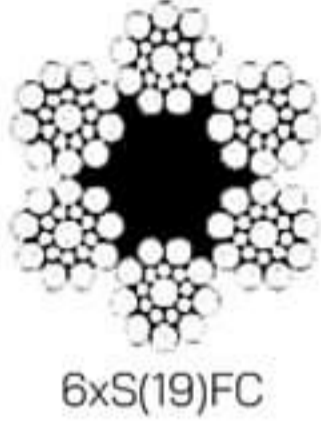
# 6X19, 6X25, 6X36, 6X31

CRANE, HOIST, OIL-WELL AND GENERAL ENGINEERING PURPOSES)

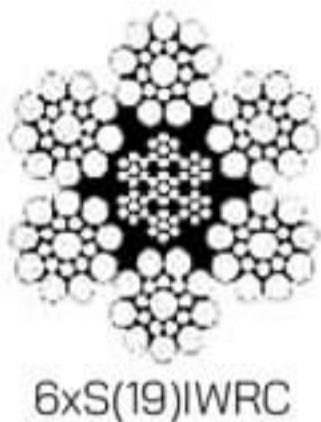
Rope 6x19S (9/9/1), 6x19F (12/6F/6/1), 6x26WS(10/5+5/5/1), 6x31 (12/6+ 6/6/1)



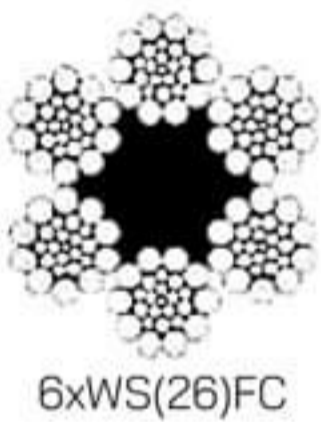
6x19S IWRC



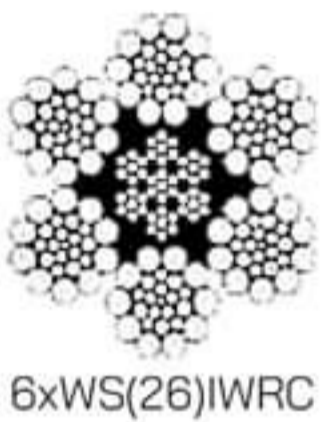
6x19F FC



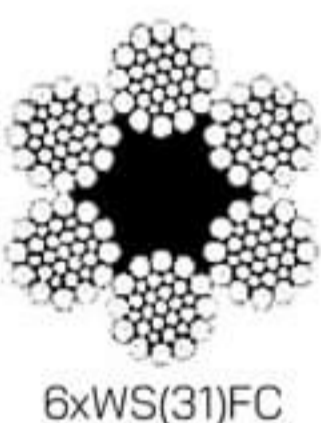
6x26WS IWRC



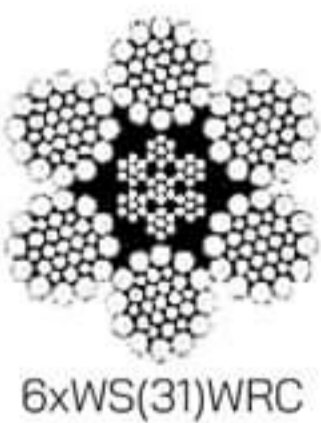
6x31 FC



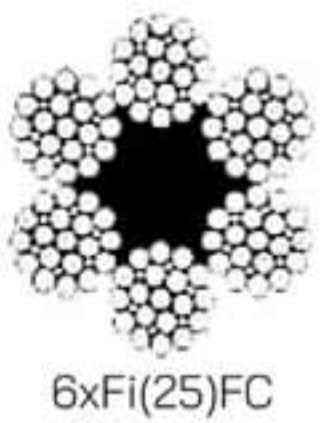
6x19S IWRC



6x26WS FC



6x31 WRC



6x19S FC

Rope Diameter		Weight		Min. Breaking Load (KN)					
mm.	Inch	FC	IWRC	1570 N/mm2		1770 N/mm2		1960 N/mm2	
				FC	IWRC	FC	IWRC	FC	IWRC
6.00		12.13	13.72	17.35	18.76	19.56	21.16	21.66	23.43
6.35	(1/4")	13.59	15.36	19.44	21.02	21.91	23.70	24.26	26.24
6.50		14.24	16.10	20.36	22.02	22.96	24.83	25.42	27.49
7.00		16.51	18.67	23.62	25.54	26.63	28.79	29.48	31.89
7.94	(5/16")	21.23	24.00	30.37	32.84	34.24	37.02	37.91	41.00
8.00		21.57	24.38	30.85	33.36	34.78	37.61	38.51	41.65
9.53	(3/8")	30.57	34.57	43.73	47.29	49.30	53.31	54.59	59.04
10.00		35.20	39.80	51.81	55.89	58.41	63.01	64.68	69.78
11.11	(7/16")	43.47	49.15	63.98	69.02	72.13	77.81	79.87	86.16
12.00		50.69	57.31	74.61	80.48	84.11	90.74	93.14	100.48
12.70	(1/2")	56.77	64.19	83.56	90.15	94.21	101.63	104.32	112.54
14.00		68.99	78.01	101.55	109.55	114.48	123.50	126.77	136.76
14.29	(9/16")	71.85	81.24	105.76	114.09	119.23	128.63	132.03	142.44
15.88	(5/8")	88.71	100.30	130.57	140.86	147.20	158.80	163.00	175.85
16.00		90.11	101.89	132.63	143.08	149.53	161.31	165.58	178.63
18.00		114.05	128.95	167.86	181.09	189.25	204.16	209.56	226.07
19.05	(3/4")	127.74	144.44	188.02	202.83	211.97	228.67	234.73	253.22
20.00		140.80	159.20	207.24	223.57	233.64	252.05	258.72	279.10
22.00		170.37	192.63	250.76	270.52	282.70	304.98	313.05	337.72
22.23	(7/8")	173.87	196.59	255.92	276.08	288.52	311.25	319.49	344.66
24.00		202.75	229.25	298.43	321.94	336.44	362.95	372.56	401.91
25.40	(1")	227.10	256.77	334.26	360.59	376.84	406.53	417.29	450.17
26.00		237.95	269.05	350.24	377.83	394.85	425.96	437.24	471.69
28.00		275.97	312.03	406.19	438.19	457.93	494.01	507.09	547.04
28.58	(1 1/8")	287.42	324.98	423.04	456.38	476.94	514.51	528.13	569.74
30.00		316.80	358.20	466.29	503.03	525.69	567.11	582.12	627.98
31.75	(1 1/4")	354.84	401.21	522.28	563.43	588.81	635.20	652.01	703.39
32.00		360.45	407.55	530.53	572.33	598.12	645.24	662.32	714.51
34.00		406.91	460.09	598.92	646.11	675.22	728.42	747.70	806.61
34.93	(1 3/8")	429.35	485.46	631.96	681.75	712.46	768.59	788.94	851.10
36.00		456.19	515.81	671.46	724.36	756.99	816.64	838.25	904.30
38.00		508.29	574.71	748.14	807.08	843.44	909.89	933.98	1007.57
38.10	(1 1/2")	510.97	577.74	752.08	811.33	847.89	914.69	938.90	1012.88
40.00		563.20	636.80	828.96	894.27	934.56	1008.19	1034.88	1116.42
42.00		620.93	702.07	913.93	985.93	1030.35	1111.53	1140.96	1230.85
44.00		681.47	770.53	1003.04	1082.07	1130.82	1219.91	1252.20	1350.86
44.45	(1 3/4")	695.48	786.37	1023.66	1104.32	1154.07	1244.99	1277.95	1378.64
46.00		744.83	842.17	1096.30	1182.67	1235.96	1333.33	1368.63	1476.46
48.00		811.01	916.99	1193.70	1287.75	1345.77	1451.80	1490.23	1607.64
50.00		880.00	995.00	1295.25	1397.30	1460.25	1575.30	1617.00	1744.40
50.80	(2")	908.39	1027.09	1337.03	1442.37	1507.35	1626.11	1669.16	1800.67
52.00		951.81	1076.19	1400.94	1511.32	1579.41	1703.84	1748.95	1886.74

Comply to BS 302: 1987 Part 2 and ISO 2408 : 1985 Specification.



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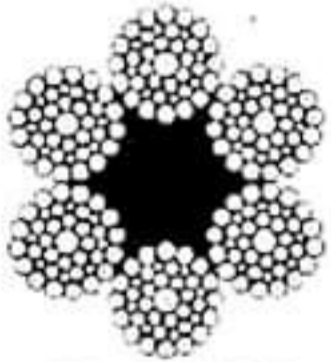
# 6x36, 6x41

CRANE AND ENGINEERING PURPOSES

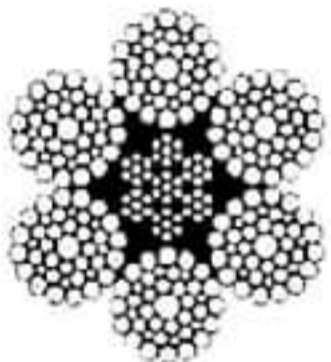
Rope 6x36WS (14/7+7/7/1), 6x41 (16/8+8/8/1)

Rope Diameter		Weight		Min. Breaking Load (KN)					
mm.	Inch			1570 N/mm2		1770 N/mm2		1960 N/mm2	
		FC	IWRC	FC	IWRC	FC	IWRC	FC	IWRC
10.00		35.20	39.80	51.81	55.89	58.41	63.01	64.68	69.78
11.11	(7/16")	43.47	49.15	63.98	69.02	72.13	77.81	79.87	86.16
12.00		50.69	57.31	74.61	80.48	84.11	90.74	93.14	100.48
12.70	(1/2")	56.77	64.19	83.56	90.15	94.21	101.63	104.32	112.54
14.00		68.99	78.01	101.55	109.55	114.48	123.50	126.77	136.76
14.29	(9/16")	71.85	81.24	105.76	114.09	119.23	128.63	132.03	142.44
15.88	(5/8")	88.71	100.30	130.57	140.86	147.20	158.80	163.00	175.85
16.00		90.11	101.89	132.63	143.08	149.53	161.31	165.58	178.63
18.00		114.05	128.95	167.86	181.09	189.25	204.16	209.56	226.07
19.05	(3/4")	127.74	144.44	188.02	202.83	211.97	228.67	234.73	253.22
20.00		140.80	159.20	207.24	223.57	233.64	252.05	258.72	279.10
22.00		170.37	192.63	250.76	270.52	282.70	304.98	313.05	337.72
22.23	(7/8")	173.87	196.59	255.92	276.08	288.52	311.25	319.49	344.66
24.00		202.75	229.25	298.43	321.94	336.44	362.95	372.56	401.91
25.40	(1")	227.10	256.77	334.26	360.59	376.84	406.53	417.29	450.17
26.00		237.95	269.05	350.24	377.83	394.85	425.96	437.24	471.69
28.00		275.97	312.03	406.19	438.19	457.93	494.01	507.09	547.04
28.58	(1 1/8")	287.42	324.98	423.04	456.38	476.94	514.51	528.13	569.74
30.00		316.80	358.20	466.29	503.03	525.69	567.11	582.12	627.98
31.75	(1 1/4")	354.84	401.21	522.28	563.43	588.81	635.20	652.01	703.39
32.00		360.45	407.55	530.53	572.33	598.12	645.24	662.32	714.51
34.00		406.91	460.09	598.92	646.11	675.22	728.42	747.70	806.61
34.93	(1 3/8")	429.35	485.46	631.96	681.75	712.46	768.59	788.94	851.10
36.00		456.19	515.81	671.46	724.36	756.99	816.64	838.25	904.30
38.00		508.29	574.71	748.14	807.08	843.44	909.89	933.98	1007.57
38.10	(1 1/2")	510.97	577.74	752.08	811.33	847.89	914.69	938.90	1012.88
40.00		563.20	636.80	828.96	894.27	934.56	1008.19	1034.88	1116.42
42.00		620.93	702.07	913.93	985.93	1030.35	1111.53	1140.96	1230.85
44.00		681.47	770.53	1003.04	1082.07	1130.82	1219.91	1252.20	1350.86
44.45	(1 3/4")	695.48	786.37	1023.66	1104.32	1154.07	1244.99	1277.95	1378.64
46.00		744.83	842.17	1096.30	1182.67	1235.96	1333.33	1368.63	1476.46
48.00		811.01	916.99	1193.70	1287.75	1345.77	1451.80	1490.23	1607.64
50.00		880.00	995.00	1295.25	1397.30	1460.25	1575.30	1617.00	1744.40
50.80	(2")	908.39	1027.09	1337.03	1442.37	1507.35	1626.11	1669.16	1800.67
52.00		951.81	1076.19	1400.94	1511.32	1579.41	1703.84	1748.95	1886.74

Comply to BS 302: 1987 Part 2 and ISO 2408 : 1985 Specification.



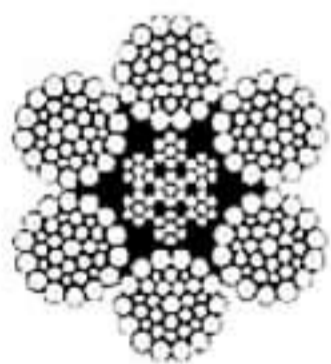
6xWS(41)FC



6xWS(41)IWRC



6xWS(36)FC



6xWS(36)IWRC



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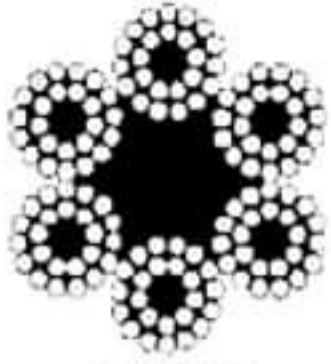


39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# 6X24+7FC

MARINE AND ENGINEERING PURPOSES

Rope 6x24 (12/12/POLY)



6x24FC

Rope Diameter		Weight		Min, Breaking Load (KN)					
mm.	Inch	FC	IWRC	1570 N/mm2		1770 N/mm2		1960 N/mm2	
				FC	IWRC	FC	IWRC	FC	IWRC
8.00		18.88	28.13	31.72	8.00		18.88	28.13	31.72
9.53	(3/8")	26.76	39.88	44.96	9.53	(3/8")	26.76	39.88	44.96
10.00		29.50	43.96	49.56	10.00		29.50	43.96	49.56
11.11	(7/16")	36.43	54.29	61.20	11.11	(7/16")	36.43	54.29	61.20
12.00		42.48	63.30	71.37	12.00		42.48	63.30	71.37
12.70	(1/2")	47.58	70.90	79.94	12.70	(1/2")	47.58	70.90	79.94
14.00		57.82	86.16	97.14	14.00		57.82	86.16	97.14
14.29	(9/16")	60.22	89.74	101.17	14.29	(9/16")	60.22	89.74	101.17
15.88	(5/8")	74.34	110.79	124.90	15.88	(5/8")	74.34	110.79	124.90
16.00		75.52	112.54	126.87	16.00		75.52	112.54	126.87
18.00		95.58	142.43	160.57	18.00		95.58	142.43	160.57
19.05	(3/4")	107.06	159.53	179.85	19.05	(3/4")	107.06	159.53	179.85
20.00		118.00	175.84	198.24	20.00		118.00	175.84	198.24
22.00		142.78	212.77	239.87	22.00		142.78	212.77	239.87
22.23	(7/8")	145.72	217.14	244.80	22.23	(7/8")	145.72	217.14	244.80
24.00		169.92	253.21	285.47	24.00		169.92	253.21	285.47
25.40	(1")	190.32	283.61	319.74	25.40	(1")	190.32	283.61	319.74
26.00		199.42	297.17	335.03	26.00		199.42	297.17	335.03
28.00		231.28	344.65	388.55	28.00		231.28	344.65	388.55
28.58	(1 1/8")	240.88	358.95	404.67	28.58	(1 1/8")	240.88	358.95	404.67
30.00		265.50	395.64	446.04	30.00		265.50	395.64	446.04
31.75	(1 1/4")	297.38	443.14	499.60	31.75	(1 1/4")	297.38	443.14	499.60
32.00		302.08	450.15	507.49	32.00		302.08	450.15	507.49
34.00		341.02	508.18	572.91	34.00		341.02	508.18	572.91
34.93	(1 3/8")	359.83	536.20	604.51	34.93	(1 3/8")	359.83	536.20	604.51
36.00		382.32	569.72	642.30	36.00		382.32	569.72	642.30
38.00		425.98	634.78	715.65	38.00		425.98	634.78	715.65
38.10	(1 1/2")	428.22	638.13	719.42	38.10	(1 1/2")	428.22	638.13	719.42
40.00		472.00	703.36	792.96	40.00		472.00	703.36	792.96

Comply to BS 302: 1987 Part 2 and ISO 2408 : 1985 Specification.

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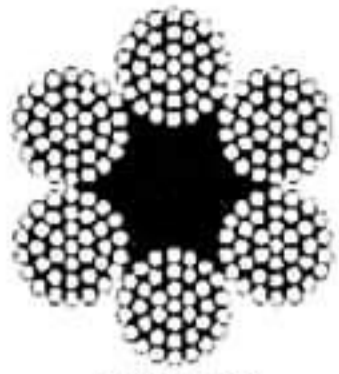


39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

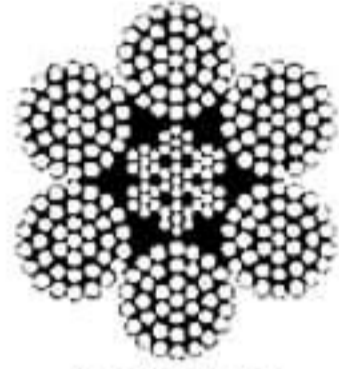
# 6x37

GENERAL ENGINEERING PURPOSES

Rope 6x37(18/12/6/1)



6x37FC



6x37IWRC

Rope Diameter		Weight		Min. Breaking Load (KN)			
mm.	Inch	FC	IWRC	1570 N/mm2		1770 N/mm2	
				FC	IWRC	FC	IWRC
10.00		33.70	38.04	46.32	49.96	52.22	56.33
11.11	(7/16")	41.62	46.97	57.19	61.70	64.48	69.56
12.00		48.53	54.78	66.69	71.95	75.19	81.11
12.70	(1/2")	54.35	61.35	74.70	80.59	84.22	90.85
14.00		66.05	74.56	90.78	97.93	102.34	110.40
14.29	(9/16")	68.79	77.65	94.54	101.99	106.59	114.99
15.88	(5/8")	84.93	95.86	116.72	125.92	131.59	141.96
16.00		86.27	97.38	118.57	127.91	133.67	144.20
18.00		109.19	123.25	150.06	161.88	169.18	182.51
19.05	(3/4")	122.30	138.04	168.08	181.32	189.49	204.42
20.00		134.80	152.16	185.26	199.86	208.86	225.31
22.00		163.11	184.11	224.16	241.83	252.72	272.63
22.23	(7/8")	166.46	187.89	228.77	246.80	257.92	278.24
24.00		194.11	219.10	266.77	287.79	300.76	324.45
25.40	(1")	217.42	245.41	298.81	322.35	336.87	363.41
26.00		227.81	257.14	313.09	337.76	352.97	380.78
28.00		264.21	298.23	363.11	391.72	409.37	441.62
28.58	(1 1/8")	275.17	310.60	378.18	407.97	426.35	459.94
30.00		303.30	342.35	416.84	449.68	469.94	506.96
31.75	(1 1/4")	339.72	387.46	466.88	503.67	526.36	567.83
32.00		345.09	389.52	474.27	511.63	534.68	576.81
34.00		389.57	439.73	535.40	577.58	603.61	651.16
34.93	(1 3/8")	411.06	463.98	564.93	609.44	636.90	687.07
36.00		436.75	492.99	600.24	647.53	676.71	730.02
38.00		486.63	549.28	668.79	721.48	753.98	813.39
38.10	(1 1/2")	489.19	552.18	672.31	725.28	757.96	817.57
40.00		539.20	608.62	741.04	799.42	835.44	901.26
42.00		594.47	671.01	817.00	881.36	921.07	993.64
44.00		652.43	736.43	896.66	967.30	1010.88	1090.52
44.45	(1 3/4")	665.85	751.58	915.09	987.19	1031.67	1112.94
46.00		713.09	804.91	980.03	1057.24	1104.87	1191.92
48.00		776.45	876.42	1067.10	1151.17	1203.03	1297.81
50.00		842.50	950.97	1157.88	1249.10	1305.38	1408.22
50.80	(2")	869.68	981.65	1195.22	1289.39	1347.48	1453.64
52.00		911.25	1028.57	1252.36	1351.02	1411.89	1523.13

Comply to BS 302: 1987 Part 2 and ISO 2408 : 1985 Specification.

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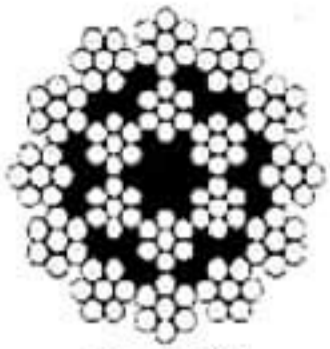
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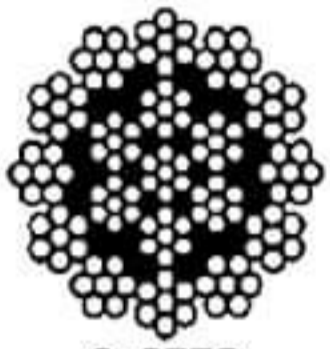
39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# ROTATION RESISTANT

Rope 18x7 (6/1), 19x7(6/1)



18 x 7FC



6x37FC

Rope Diameter		Weight		Min, Breaking Load (KN)					
mm.	Inch			1570 N/mm2		1770 N/mm2		1960 N/mm2	
		FC	IWRC	FC	IWRC	FC	IWRC	FC	IWRC
8.00		24.96	25.73	32.96	32.96	37.16	37.16	41.14	41.14
9.53	(3/8")	35.38	36.47	46.72	46.72	52.67	52.67	58.33	58.33
10.00		39.00	40.20	51.50	51.50	58.06	58.06	64.29	64.29
11.11	(7/16")	48.16	49.64	63.59	63.59	71.69	71.69	79.39	79.39
12.00		56.16	57.88	74.15	74.15	83.60	83.60	92.57	92.57
12.70	(1/2")	62.90	64.83	83.06	83.06	93.64	93.64	103.69	103.69
14.00		76.44	78.78	100.93	100.93	113.79	113.79	126.00	126.00
14.29	(9/16")	79.61	82.05	105.12	105.12	118.51	118.51	131.23	131.23
15.88	(5/8")	98.29	101.30	129.78	129.78	146.31	146.31	162.02	162.02
16.00		99.84	102.90	131.83	131.83	148.62	148.62	164.58	164.58
18.00		126.36	130.23	166.85	166.85	188.10	188.10	208.29	208.29
19.05	(3/4")	141.53	145.87	186.88	186.88	210.69	210.69	233.30	233.30
20.00		156.00	160.78	205.98	205.98	232.22	232.22	257.15	257.15
22.00		188.76	194.55	249.24	249.24	280.99	280.99	311.15	311.15
22.23	(7/8")	192.64	198.55	254.36	254.36	286.77	286.77	317.55	317.55
24.00		224.64	231.53	296.62	296.62	334.40	334.40	370.30	370.30
25.40	(1")	251.61	259.33	332.23	332.23	374.55	374.55	414.76	414.76
26.00		263.64	271.72	348.11	348.11	392.46	392.46	434.59	434.59

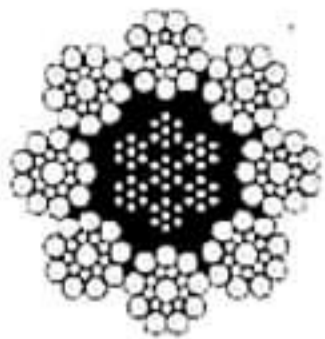
Comply to BS 302: 1987 Part 2 and ISO 2408 : 1985 Specification.



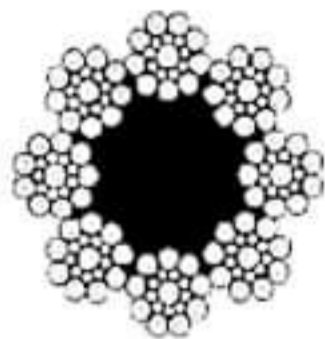
# 8x19, 8x25

CRANE, HOIST AND GENERAL ENGINEERING PURPOSES

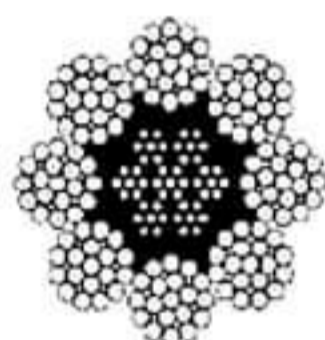
Rope 8x19S (9/9/1), 8x25 (12/6/1), 8x19W (6+6/6/1)



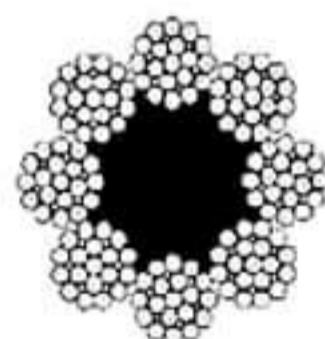
8xS(19)WRC



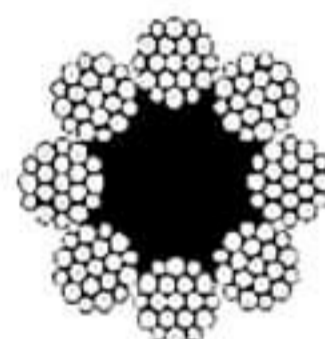
8xS(19)FC



8xFi(25)IWRC



8xFi(25)FC



8xW(19)FC

Rope Diameter		Weight		Min, Breaking Load (KN)					
mm.	Inch			1570 N/mm2		1770 N/mm2		1960 N/mm2	
		FC	IWRC	FC	IWRC	FC	IWRC	FC	IWRC
10.00		33.90	41.70	46.00	54.32	51.86	61.24	57.43	67.82
11.11	(7/16")	41.86	51.49	56.81	67.08	64.04	75.63	70.92	83.74
12.00		48.82	60.05	66.24	78.22	74.68	88.19	82.70	97.66
12.70	(1/2")	54.68	67.26	74.20	87.62	83.65	98.78	92.63	109.38
14.00		66.44	81.73	90.16	106.47	101.65	120.03	112.56	132.92
14.29	(9/16")	69.20	85.12	93.90	110.89	105.87	125.01	117.23	138.43
15.88	(5/8")	85.43	105.09	115.93	136.90	130.70	154.34	144.73	170.91
16.00		86.78	106.75	117.76	139.06	132.76	156.78	147.02	173.61
18.00		109.84	135.11	149.04	176.00	168.03	198.42	186.07	219.72
19.05	(3/4")	123.02	151.33	166.94	197.14	188.20	222.25	208.41	246.11
20.00		135.60	166.80	184.00	217.29	207.44	244.97	229.71	271.26
22.00		164.08	201.83	222.64	262.92	251.01	296.41	277.95	328.23
22.23	(7/8")	167.45	205.98	227.22	268.32	256.17	302.51	283.67	334.98
24.00		195.26	240.19	264.97	312.89	298.72	352.75	330.79	390.62
25.40	(1")	218.71	269.03	296.78	350.46	334.59	395.11	370.50	437.52
26.00		229.16	281.89	310.97	367.22	350.58	414.00	388.21	458.44
28.00		265.78	326.93	360.65	425.88	406.59	480.14	450.24	531.68
28.58	(1 1/8")	276.80	340.49	375.61	443.56	423.46	500.06	468.92	553.74
30.00		305.10	375.30	414.01	488.90	466.75	551.18	516.85	610.34
31.75	(1 1/4")	341.73	420.36	463.72	547.60	522.79	617.36	578.91	683.63
32.00		347.14	427.01	471.05	556.26	531.06	627.12	588.06	694.44
34.00		391.88	482.05	531.77	627.96	599.51	707.96	663.87	783.95
34.93	(1 3/8")	413.50	508.64	561.10	662.60	632.58	747.00	700.48	827.19
36.00		439.34	540.43	596.17	704.01	672.12	793.70	744.27	878.90
38.00		489.52	602.15	664.25	784.41	748.87	884.33	829.26	979.26
38.10	(1 1/2")	492.10	605.32	667.76	788.54	752.82	888.99	833.63	984.42
40.00		542.40	667.20	736.02	869.15	829.78	979.87	918.85	1085.06
42.00		598.00	735.59	811.46	958.24	914.83	1080.31	1013.03	1196.27
44.00		656.30	807.31	890.58	1051.67	1004.03	1185.65	1111.81	1312.92
44.45	(1 3/4")	669.80	823.91	908.89	1073.30	1024.67	1210.02	1134.66	1339.91
46.00		717.32	882.37	973.38	1149.45	1097.38	1295.88	1215.18	1434.99
48.00		781.06	960.77	1059.86	1251.58	1194.88	1411.02	1323.14	1562.48
50.00		847.50	1042.50	1150.03	1358.05	1296.53	1531.05	1435.70	1695.40
50.80	(2")	874.84	1076.13	1187.12	1401.86	1338.35	1580.44	1482.01	1750.09
52.00		916.66	1127.57	1243.87	1468.87	1402.32	1655.98	1552.85	1833.74

Comply to ISO 2408 : 1985 Specification.



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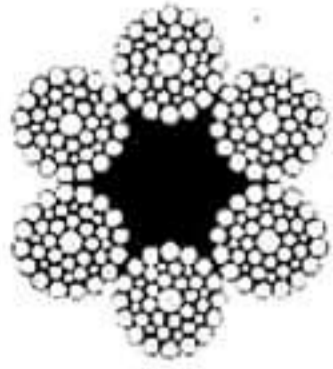


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NONTABURI III20, THAILAND

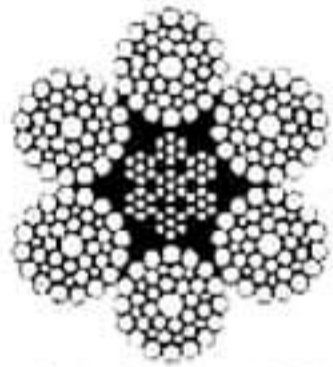
# 6x36, 6x41

CRANE AND ENGINEERING PURPOSES

Rope 6x36WS (14/7+7/7/1), 6x41 (16/8+8/8/1)



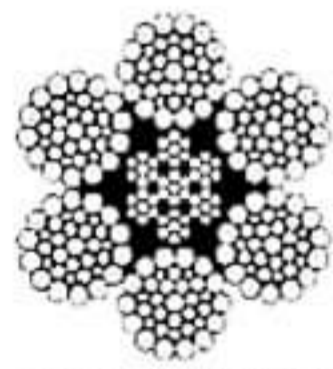
6xWS(41)FC



6xWS(41)IWRC



6xWS(36)FC



6xWS(36)IWRC

Rope Diameter		Weight		Min. Breaking Load (KN)					
mm.	Inch	FC	IWRC	1570 N/mm <sup>2</sup>		1770 N/mm <sup>2</sup>		1960 N/mm <sup>2</sup>	
				FC	IWRC	FC	IWRC	FC	IWRC
10.00		35.20	39.80	51.81	55.89	58.41	63.01	64.68	69.78
11.11	(7/16")	43.47	49.15	63.98	69.02	72.13	77.81	79.87	86.16
12.00		50.69	57.31	74.61	80.48	84.11	90.74	93.14	100.48
12.70	(1/2")	56.77	64.19	83.56	90.15	94.21	101.63	104.32	112.54
14.00		68.99	78.01	101.55	109.55	114.48	123.50	126.77	136.76
14.29	(9/16")	71.85	81.24	105.76	114.09	119.23	128.63	132.03	142.44
15.88	(5/8")	88.71	100.30	130.57	140.86	147.20	158.80	163.00	175.85
16.00		90.11	101.89	132.63	143.08	149.53	161.31	165.58	178.63
18.00		114.05	128.95	167.86	181.09	189.25	204.16	209.56	226.07
19.05	(3/4")	127.74	144.44	188.02	202.83	211.97	228.67	234.73	253.22
20.00		140.80	159.20	207.24	223.57	233.64	252.05	258.72	279.10
22.00		170.37	192.63	250.76	270.52	282.70	304.98	313.05	337.72
22.23	(7/8")	173.87	196.59	255.92	276.08	288.52	311.25	319.49	344.66
24.00		202.75	229.25	298.43	321.94	336.44	362.95	372.56	401.91
25.40	(1")	227.10	256.77	334.26	360.59	376.84	406.53	417.29	450.17
26.00		237.95	269.05	350.24	377.83	394.85	425.96	437.24	471.69
28.00		275.97	312.03	406.19	438.19	457.93	494.01	507.09	547.04
28.58	(11/8")	287.42	324.98	423.04	456.38	476.94	514.51	528.13	569.74
30.00		316.80	358.20	466.29	503.03	525.69	567.11	582.12	627.98
31.75	(11/4")	354.84	401.21	522.28	563.43	588.81	635.20	652.01	703.39
32.00		360.45	407.55	530.53	572.33	598.12	645.24	662.32	714.51
34.00		406.91	460.09	598.92	646.11	675.22	728.42	747.70	806.61
34.93	(13/8")	429.35	485.46	631.96	681.75	712.46	768.59	788.94	851.10
36.00		456.19	515.81	671.46	724.36	756.99	816.64	838.25	904.30
38.00		508.29	574.71	748.14	807.08	843.44	909.89	933.98	1007.57
38.10	(11/2")	510.97	577.74	752.08	811.33	847.89	914.69	938.90	1012.88
40.00		563.20	636.80	828.96	894.27	934.56	1008.19	1034.88	1116.42
42.00		620.93	702.07	913.93	985.93	1030.35	1111.53	1140.96	1230.85
44.00		681.47	770.53	1003.04	1082.07	1130.82	1219.91	1252.20	1350.86
44.45	(13/4")	695.48	786.37	1023.66	1104.32	1154.07	1244.99	1277.95	1378.64
46.00		744.83	842.17	1096.30	1182.67	1235.96	1333.33	1368.63	1476.46
48.00		811.01	916.99	1193.70	1287.75	1345.77	1451.80	1490.23	1607.64
50.00		880.00	995.00	1295.25	1397.30	1460.25	1575.30	1617.00	1744.40
50.80	(2")	908.39	1027.09	1337.03	1442.37	1507.35	1626.11	1669.16	1800.67
52.00		951.81	1076.19	1400.94	1511.32	1579.41	1703.84	1748.95	1886.74

Comply to BS 302: 1987 Part 2 and ISO 2408 : 1985 Specification.



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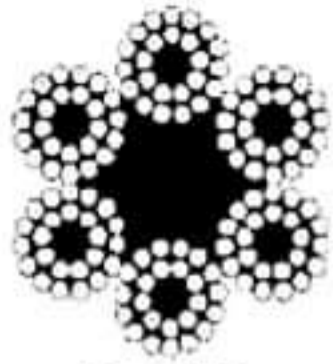


39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# 6X24+7FC

MARINE AND ENGINEERING PURPOSES

## Rope 6x24 (12/12/POLY)



6x24FC

Rope Diameter		Weight		Min, Breaking Load (KN)					
mm.	Inch			1570 N/mm2		1770 N/mm2		1960 N/mm2	
		FC	IWRC	FC	IWRC	FC	IWRC	FC	IWRC
8.00		18.88	28.13	31.72	8.00		18.88	28.13	31.72
9.53	(3/8")	26.76	39.88	44.96	9.53	(3/8")	26.76	39.88	44.96
10.00		29.50	43.96	49.56	10.00		29.50	43.96	49.56
11.11	(7/16")	36.43	54.29	61.20	11.11	(7/16")	36.43	54.29	61.20
12.00		42.48	63.30	71.37	12.00		42.48	63.30	71.37
12.70	(1/2")	47.58	70.90	79.94	12.70	(1/2")	47.58	70.90	79.94
14.00		57.82	86.16	97.14	14.00		57.82	86.16	97.14
14.29	(9/16")	60.22	89.74	101.17	14.29	(9/16")	60.22	89.74	101.17
15.88	(5/8")	74.34	110.79	124.90	15.88	(5/8")	74.34	110.79	124.90
16.00		75.52	112.54	126.87	16.00		75.52	112.54	126.87
18.00		95.58	142.43	160.57	18.00		95.58	142.43	160.57
19.05	(3/4")	107.06	159.53	179.85	19.05	(3/4")	107.06	159.53	179.85
20.00		118.00	175.84	198.24	20.00		118.00	175.84	198.24
22.00		142.78	212.77	239.87	22.00		142.78	212.77	239.87
22.23	(7/8")	145.72	217.14	244.80	22.23	(7/8")	145.72	217.14	244.80
24.00		169.92	253.21	285.47	24.00		169.92	253.21	285.47
25.40	(1")	190.32	283.61	319.74	25.40	(1")	190.32	283.61	319.74
26.00		199.42	297.17	335.03	26.00		199.42	297.17	335.03
28.00		231.28	344.65	388.55	28.00		231.28	344.65	388.55
28.58	(1 1/8")	240.88	358.95	404.67	28.58	(1 1/8")	240.88	358.95	404.67
30.00		265.50	395.64	446.04	30.00		265.50	395.64	446.04
31.75	(1 1/4")	297.38	443.14	499.60	31.75	(1 1/4")	297.38	443.14	499.60
32.00		302.08	450.15	507.49	32.00		302.08	450.15	507.49
34.00		341.02	508.18	572.91	34.00		341.02	508.18	572.91
34.93	(1 3/8")	359.83	536.20	604.51	34.93	(1 3/8")	359.83	536.20	604.51
36.00		382.32	569.72	642.30	36.00		382.32	569.72	642.30
38.00		425.98	634.78	715.65	38.00		425.98	634.78	715.65
38.10	(1 1/2")	428.22	638.13	719.42	38.10	(1 1/2")	428.22	638.13	719.42
40.00		472.00	703.36	792.96	40.00		472.00	703.36	792.96

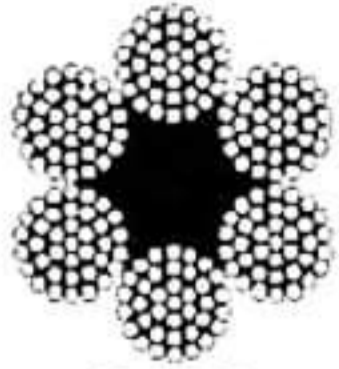
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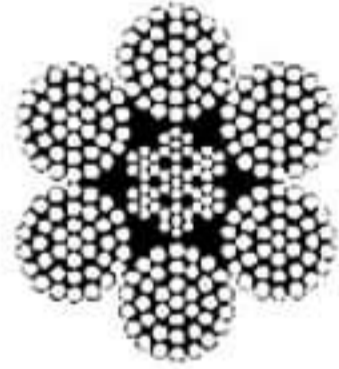
# 6x37

GENERAL ENGINEERING PURPOSES

Rope 6x37(18/12/6/1)



6x37FC



6x37IWRC

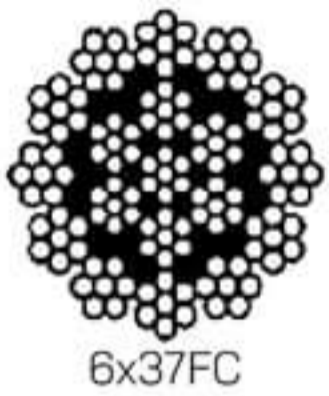
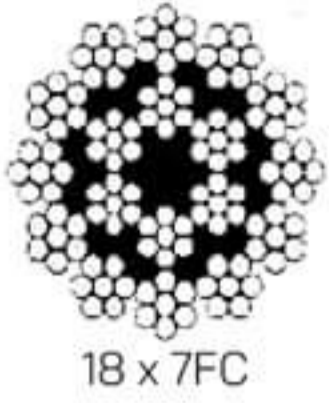
Rope Diameter		Weight		Min. Breaking Load (KN)			
mm.	Inch			1570 N/mm <sup>2</sup>		1770 N/mm <sup>2</sup>	
		FC	IWRC	FC	IWRC	FC	IWRC
10.00		33.70	38.04	46.32	49.96	52.22	56.33
11.11	(7/16")	41.62	46.97	57.19	61.70	64.48	69.56
12.00		48.53	54.78	66.69	71.95	75.19	81.11
12.70	(1/2")	54.35	61.35	74.70	80.59	84.22	90.85
14.00		66.05	74.56	90.78	97.93	102.34	110.40
14.29	(9/16")	68.79	77.65	94.54	101.99	106.59	114.99
15.88	(5/8")	84.93	95.86	116.72	125.92	131.59	141.96
16.00		86.27	97.38	118.57	127.91	133.67	144.20
18.00		109.19	123.25	150.06	161.88	169.18	182.51
19.05	(3/4")	122.30	138.04	168.08	181.32	189.49	204.42
20.00		134.80	152.16	185.26	199.86	208.86	225.31
22.00		163.11	184.11	224.16	241.83	252.72	272.63
22.23	(7/8")	166.46	187.89	228.77	246.80	257.92	278.24
24.00		194.11	219.10	266.77	287.79	300.76	324.45
25.40	(1")	217.42	245.41	298.81	322.35	336.87	363.41
26.00		227.81	257.14	313.09	337.76	352.97	380.78
28.00		264.21	298.23	363.11	391.72	409.37	441.62
28.58	(1 1/8")	275.17	310.60	378.18	407.97	426.35	459.94
30.00		303.30	342.35	416.84	449.68	469.94	506.96
31.75	(1 1/4")	339.72	387.46	466.88	503.67	526.36	567.83
32.00		345.09	389.52	474.27	511.63	534.68	576.81
34.00		389.57	439.73	535.40	577.58	603.61	651.16
34.93	(1 3/8")	411.06	463.98	564.93	609.44	636.90	687.07
36.00		436.75	492.99	600.24	647.53	676.71	730.02
38.00		486.63	549.28	668.79	721.48	753.98	813.39
38.10	(1 1/2")	489.19	552.18	672.31	725.28	757.96	817.57
40.00		539.20	608.62	741.04	799.42	835.44	901.26
42.00		594.47	671.01	817.00	881.36	921.07	993.64
44.00		652.43	736.43	896.66	967.30	1010.88	1090.52
44.45	(1 3/4")	665.85	751.58	915.09	987.19	1031.67	1112.94
46.00		713.09	804.91	980.03	1057.24	1104.87	1191.92
48.00		776.45	876.42	1067.10	1151.17	1203.03	1297.81
50.00		842.50	950.97	1157.88	1249.10	1305.38	1408.22
50.80	(2")	869.68	981.65	1195.22	1289.39	1347.48	1453.64
52.00		911.25	1028.57	1252.36	1351.02	1411.89	1523.13

Comply to BS 302 : 1987 Part 3, DIN 3066 : 1972 Specification.



# ROTATION RESISTANT

Rope 18x7 (6/1), 19x7(6/1)



Rope Diameter		Weight		Min, Breaking Load (KN)					
mm.	Inch	FC	IWRC	1570 N/mm2		1770 N/mm2		1960 N/mm2	
				FC	IWRC	FC	IWRC	FC	IWRC
8.00		24.96	25.73	32.96	32.96	37.16	37.16	41.14	41.14
9.53	(3/8")	35.38	36.47	46.72	46.72	52.67	52.67	58.33	58.33
10.00		39.00	40.20	51.50	51.50	58.06	58.06	64.29	64.29
11.11	(7/16")	48.16	49.64	63.59	63.59	71.69	71.69	79.39	79.39
12.00		56.16	57.88	74.15	74.15	83.60	83.60	92.57	92.57
12.70	(1/2")	62.90	64.83	83.06	83.06	93.64	93.64	103.69	103.69
14.00		76.44	78.78	100.93	100.93	113.79	113.79	126.00	126.00
14.29	(9/16")	79.61	82.05	105.12	105.12	118.51	118.51	131.23	131.23
15.88	(5/8")	98.29	101.30	129.78	129.78	146.31	146.31	162.02	162.02
16.00		99.84	102.90	131.83	131.83	148.62	148.62	164.58	164.58
18.00		126.36	130.23	166.85	166.85	188.10	188.10	208.29	208.29
19.05	(3/4")	141.53	145.87	186.88	186.88	210.69	210.69	233.30	233.30
20.00		156.00	160.78	205.98	205.98	232.22	232.22	257.15	257.15
22.00		188.76	194.55	249.24	249.24	280.99	280.99	311.15	311.15
22.23	(7/8")	192.64	198.55	254.36	254.36	286.77	286.77	317.55	317.55
24.00		224.64	231.53	296.62	296.62	334.40	334.40	370.30	370.30
25.40	(1")	251.61	259.33	332.23	332.23	374.55	374.55	414.76	414.76
26.00		263.64	271.72	348.11	348.11	392.46	392.46	434.59	434.59

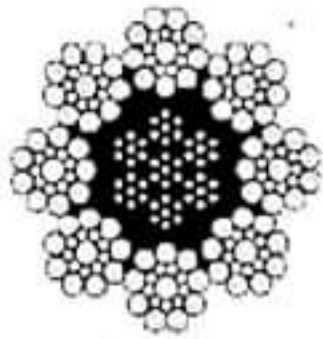
Comply to BS 302: 1987 Part 2 and ISO 2408 : 1985 Specification.



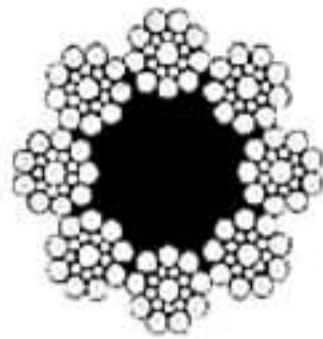
# 8x19, 8x25

CRANE, HOIST AND GENERAL ENGINEERING PURPOSES

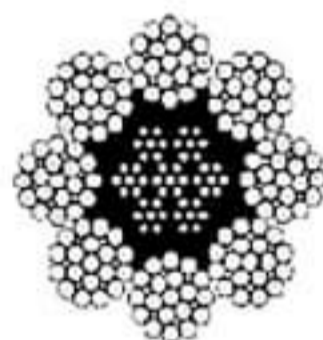
Rope 8x19S (9/9/1), 8x25 (12/6/1), 8x19W (6+6/6/1)



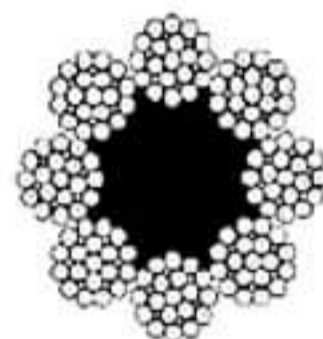
8xS(19)WRC



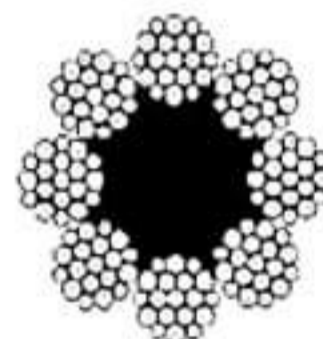
8xS(19)FC



8xFi(25)IWRC



8xFi(25)FC



8xW(19)FC

Rope Diameter		Weight		Min. Breaking Load (KN)					
mm.	Inch	FC	IWRC	1570 N/mm2		1770 N/mm2		1960 N/mm2	
				FC	IWRC	FC	IWRC	FC	IWRC
10.00		33.90	41.70	46.00	54.32	51.86	61.24	57.43	67.82
11.11	(7/16")	41.86	51.49	56.81	67.08	64.04	75.63	70.92	83.74
12.00		48.82	60.05	66.24	78.22	74.68	88.19	82.70	97.66
12.70	(1/2")	54.68	67.26	74.20	87.62	83.65	98.78	92.63	109.38
14.00		66.44	81.73	90.16	106.47	101.65	120.03	112.56	132.92
14.29	(9/16")	69.20	85.12	93.90	110.89	105.87	125.01	117.23	138.43
15.88	(5/8")	85.43	105.09	115.93	136.90	130.70	154.34	144.73	170.91
16.00		86.78	106.75	117.76	139.06	132.76	156.78	147.02	173.61
18.00		109.84	135.11	149.04	176.00	168.03	198.42	186.07	219.72
19.05	(3/4")	123.02	151.33	166.94	197.14	188.20	222.25	208.41	246.11
20.00		135.60	166.80	184.00	217.29	207.44	244.97	229.71	271.26
22.00		164.08	201.83	222.64	262.92	251.01	296.41	277.95	328.23
22.23	(7/8")	167.45	205.98	227.22	268.32	256.17	302.51	283.67	334.98
24.00		195.26	240.19	264.97	312.89	298.72	352.75	330.79	390.62
25.40	(1")	218.71	269.03	296.78	350.46	334.59	395.11	370.50	437.52
26.00		229.16	281.89	310.97	367.22	350.58	414.00	388.21	458.44
28.00		265.78	326.93	360.65	425.88	406.59	480.14	450.24	531.68
28.58	(11/8")	276.80	340.49	375.61	443.56	423.46	500.06	468.92	553.74
30.00		305.10	375.30	414.01	488.90	466.75	551.18	516.85	610.34
31.75	(11/4")	341.73	420.36	463.72	547.60	522.79	617.36	578.91	683.63
32.00		347.14	427.01	471.05	556.26	531.06	627.12	588.06	694.44
34.00		391.88	482.05	531.77	627.96	599.51	707.96	663.87	783.95
34.93	(13/8")	413.50	508.64	561.10	662.60	632.58	747.00	700.48	827.19
36.00		439.34	540.43	596.17	704.01	672.12	793.70	744.27	878.90
38.00		489.52	602.15	664.25	784.41	748.87	884.33	829.26	979.26
38.10	(11/2")	492.10	605.32	667.76	788.54	752.82	888.99	833.63	984.42
40.00		542.40	667.20	736.02	869.15	829.78	979.87	918.85	1085.06
42.00		598.00	735.59	811.46	958.24	914.83	1080.31	1013.03	1196.27
44.00		656.30	807.31	890.58	1051.67	1004.03	1185.65	1111.81	1312.92
44.45	(13/4")	669.80	823.91	908.89	1073.30	1024.67	1210.02	1134.66	1339.91
46.00		717.32	882.37	973.38	1149.45	1097.38	1295.88	1215.18	1434.99
48.00		781.06	960.77	1059.86	1251.58	1194.88	1411.02	1323.14	1562.48
50.00		847.50	1042.50	1150.03	1358.05	1296.53	1531.05	1435.70	1695.40
50.80	(2")	874.84	1076.13	1187.12	1401.86	1338.35	1580.44	1482.01	1750.09
52.00		916.66	1127.57	1243.87	1468.87	1402.32	1655.98	1552.85	1833.74

Comply to ISO 2408 : 1985 Specification.



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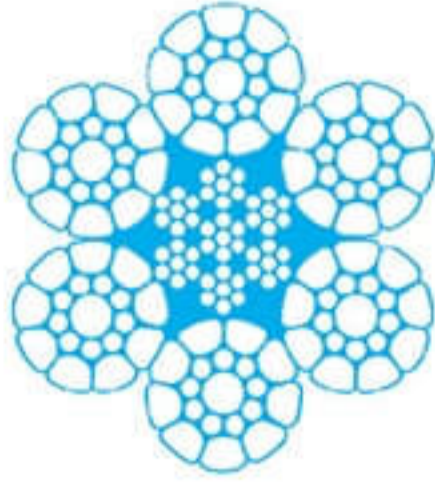
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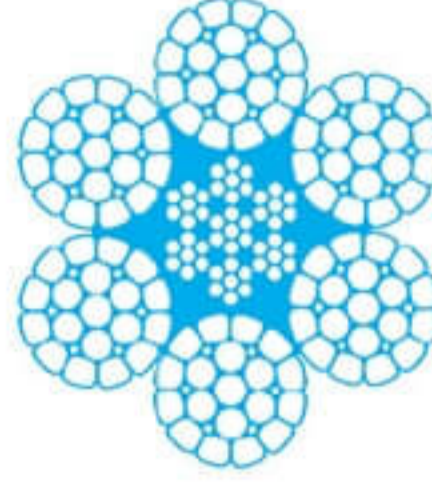
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NONTABURI III20, THAILAND

# COMPACTED / SWAGED ROPE

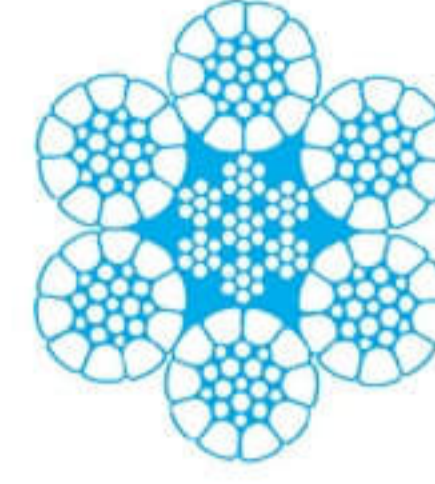
COMPACTED ROPE - 6 STRAND IWRC (STEEL CORE)



6 x P.S{19:1+9+9} + IWRC



6 x P.Fi{25:1+6+(6)+12} + IWRC



6 x P.WS{26:1+5+(5+5)+10} + IWRC

Nominal Diameter		Min. Breaking Strength						Approx. Weight		Max. Length
		KISWIRE - HIGH (200G)			KISWIRE - SUPER (220G)					
Inch	mm	Tonnef	kN	lb	Tonnef	kN	lb	kg/m	Lbs/ft	m
	10	8.5	84	18,800	9.9	89	20,000	0.461	0.310	3,050
7/16	11.1	10.2	100	22,500	11.4	112	25,100	0.568	0.382	3,050
	12	11.9	117	26,200	12.7	125	28,000	0.664	0.446	3,050
1/2	12.7	13.4	131	29,500	14.2	139	31,300	0.720	0.484	3,050
	13	14.0	137	30,900	14.9	146	32,800	0.769	0.517	3,050
9/16	14.3	17.0	167	37,500	18.2	178	40,100	0.930	0.625	2,000
5/8	16	21.2	208	46,700	22.6	222	49,800	1.150	0.773	3,050
	18	26.9	264	59,300	28.7	281	63,300	1.450	0.974	3,050
3/4	19.1	30.3	297	66,800	32.3	317	71,200	1.630	1.100	3,050
	20	33.3	326	73,200	35.4	347	78,000	1.790	1.200	3,050
	22	40.2	394	88,600	42.9	421	94,600	2.170	1.460	3,050
7/8	22.2	41.7	409	91,900	44.5	436	98,100	2.210	1.490	3,050
	24	47.9	470	105,600				2.580	1.730	2,440
	25	52.0	510	114,600				2.800	1.880	2,440
1	25.4	53.7	527	118,400				2.890	1.940	2,440
	26	56.2	551	123,900				3.030	2.040	2,000
	28	65.2	639	143,700				3.510	2.360	2,000
1-1/8	28.6	68.0	667	149,900				3.660	2.460	2,100
	30	74.8	734	164,900				4.030	2.710	3,800
1-1/4	31.8	84.1	825	185,400				4.530	3.040	3,300
	32	85.2	836	187,800				4.590	3.080	3,300
	34	96.1	942	211,900				5.180	3.480	2,950
1-3/8	35	102.0	1,000	224,900				5.460	3.670	2,600
	36	108.0	1,059	238,100				5.810	3.900	2,600
	38	120.0	1,177	264,600				6.510	4.370	2,600
	40	133.0	1,304	293,200				7.160	4.810	2,600

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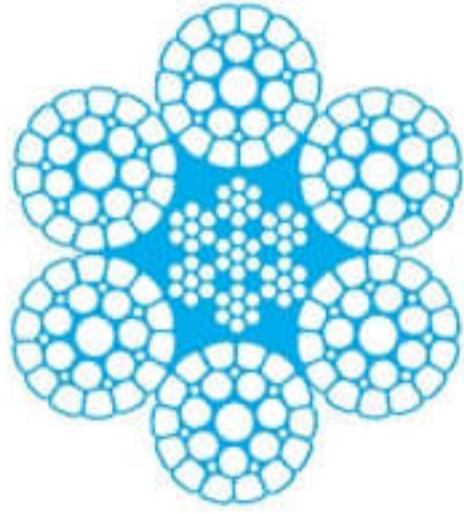
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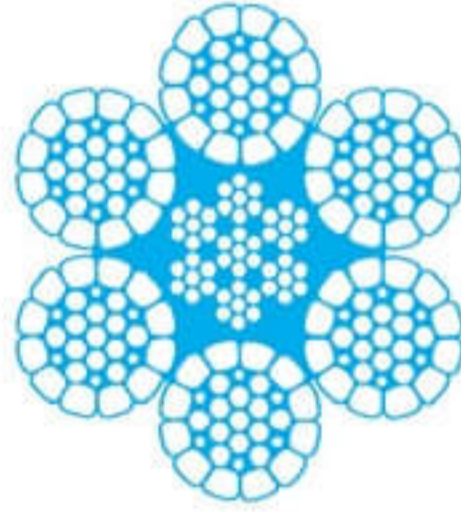
39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# COMPACTED / SWAGED ROPE

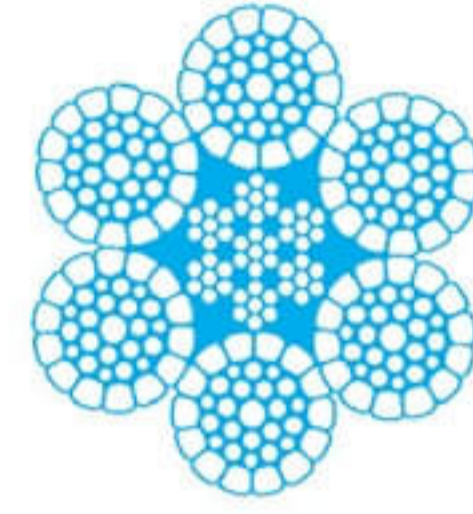
COMPACTED ROPE - 6 STRAND IWRC (STEEL CORE)



6 x P.Fi{29:1+7+(7)+14} + IWRC



6 x P.WS{31:1+6+(6+6)+12} + IWRC



6 x P.WS{36:1+7+(7+7)+14} + IWRC

Nominal Diameter		Min. Breaking Strength						Approx. Weight		Max. Length
		KISWIRE - HIGH (200G)			KISWIRE - SUPER (220G)					
Inch	mm	Tonnef	kN	lb	Tonnef	kN	lb	kg/m	Lbs/ft	m
	10	8.6	84	18,900	9.1	90	20,100	0.474	0.318	2,000
7/16	11.1	10.3	101	22,700	10.9	107	24,000	0.570	0.383	3,050
	12	12.0	118	26,500	12.7	126	28,200	0.682	0.458	3,050
1/2	12.7	13.5	132	29,800	14.3	140	31,500	0.749	0.503	3,050
	13	14.1	138	31,100	15.0	147	33,100	0.785	0.527	3,050
9/16	14.3	17.2	169	37,900	18.3	179	40,300	0.950	0.638	2,000
5/8	16	21.4	210	47,200	22.8	224	50,300	1.180	0.793	3,050
	18	27.1	266	59,700	28.9	283	63,700	1.490	1.000	3,050
3/4	19.1	30.5	299	67,200	32.5	319	71,600	1.680	1.130	3,050
	20	33.4	328	73,600	35.6	349	78,500	1.840	1.240	3,050
	22	40.5	397	89,300	43.2	42	95,200	2.230	1.500	3,050
7/8	22.2	42.0	412	92,600	44.5	436	98,100	2.270	1.530	3,050
	24	48.2	473	106,300	51.4	504	113,300	2.650	1.780	2,440
	25	52.3	513	115,300	55.8	547	123,000	2.890	1.940	2,440
1	25.4	54.0	530	119,000	57.6	565	127,000	2.980	2.000	2,440
	26	56.6	555	124,800	60.4	592	133,200	3.120	2.100	2,000
	28	65.6	643	144,600	70.0	686	154,300	3.610	2.430	2,000
1-1/8	28.6	68.5	672	151,000	73.1	717	161,200	3.770	2.530	2,000
	30	75.4	739	166,200	80.4	788	177,200	4.150	2.790	3,450
1-1/4	31.8	84.7	831	186,700	90.4	887	199,300	4.660	3.130	3,000
	32	85.7	840	188,900	91.5	897	201,700	4.720	3.170	3,000
	34	96.8	949	213,400				5.330	3.580	2,700
1-3/8	35	103.0	1,010	227,100				5.610	3.770	2,400
	36	109.0	1,069	240,300				5.970	4.010	2,400
	38	121.0	1,187	266,800				6.690	4.500	2,400
	40	134.0	1,314	295,400				7.380	4.890	2,400

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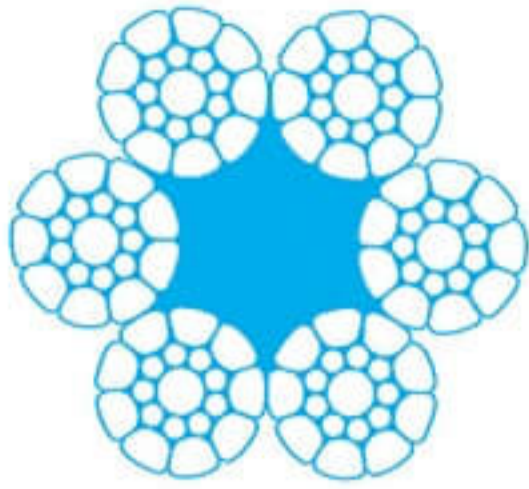
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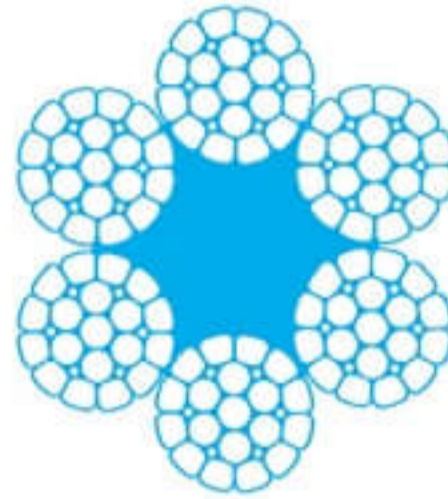
39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# COMPACTED / SWAGED ROPE

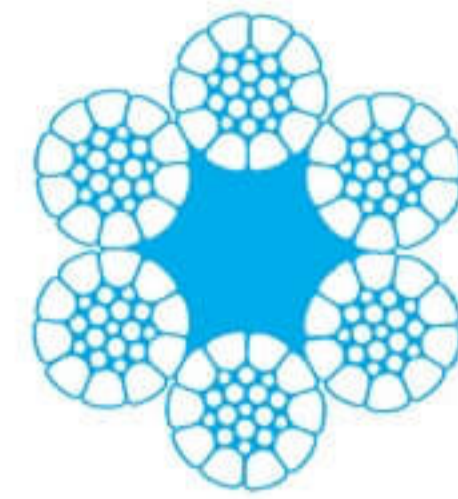
COMPACTED ROPE - 6 STRAND FIBER CORE



6 x P.S{19:1+9+9} + FC



6 x P.Fi{25:1+6+(6)+12} + FC



6 x P.WS{26:1+5+(5+5)+10} + FC

Nominal Diameter		Min. Breaking Strength						Approx. Weight		Max. Length
		KISWIRE - HIGH (200G)			KISWIRE - SUPER (220G)					
Inch	mm	Tonnef	kN	lb	Tonnef	kN	lb	kg/m	Lbs/ft	m
	10	7.4	72	16,200	7.9	77	17,300	0.433	0.291	3,050
7/16	11.1	8.9	87	19,400	9.5	92	20,700	0.533	0.358	3,050
	12	10.3	101	22,700	11.0	108	24,300	0.623	0.419	3,050
1/2	12.7	11.5	113	25,400	12.3	121	27,100	0.676	0.454	3,050
	13	12.1	119	26,700	12.9	127	28,400	0.713	0.479	3,050
9/16	14.3	14.7	144	32,400	15.7	154	34,600	0.873	0.587	2,000
5/8	16	18.3	179	40,300	19.5	191	43,000	1.080	0.726	3,050
	18	23.2	256	51,100	24.7	242	54,500	1.360	0.914	3,050
3/4	19.1	26.1	228	57,500	27.8	273	61,300	1.530	1.030	3,050
	20	28.6	280	63,100	30.5	299	67,200	1.680	1.130	3,050
	22	34.6	339	76,300	36.9	362	81,300	2.080	1.400	3,050
7/8	22.2	35.9	352	79,100	38.3	376	84,400	2.110	1.420	3,050
	24	41.2	404	90,800				2.420	1.630	2,440
	25	44.7	438	98,500				2.630	1.770	2,440
1	25.4	46.1	452	101,600				2.710	1.820	2,440
	26	48.4	475	106,700				2.850	1.920	2,000
	28	56.1	550	123,700				3.290	2.210	2,000
1-1/8	28.6	58.5	574	129,000				3.440	2.310	2,100
	30	64.4	632	142,000				3.780	2.540	3,800
1-1/4	31.8	72.3	709	159,400				4.260	2.860	3,300
	32	73.2	718	161,400				4.310	2.900	3,300
	34	82.7	811	182,300				4.860	3.270	2,950
1-3/8	35	87.6	859	193,100				5.130	3.450	2,600
	36	92.7	909	204,400				5.460	3.670	2,600
	38	103.0	1,010	227,100				6.110	4.110	2,600
	40	114.0	1,118	251,300				6.730	4.520	2,600

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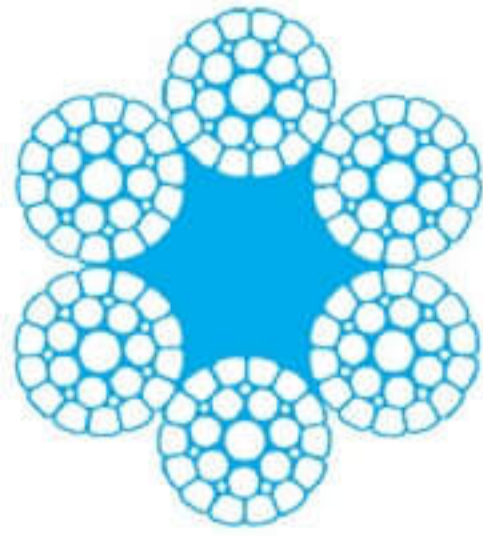
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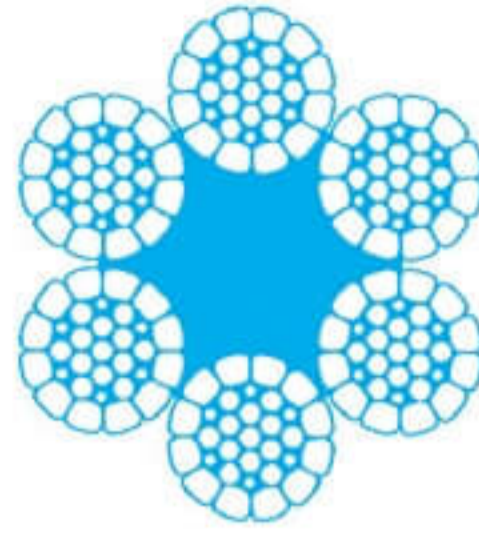
39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# COMPACTED / SWAGED ROPE

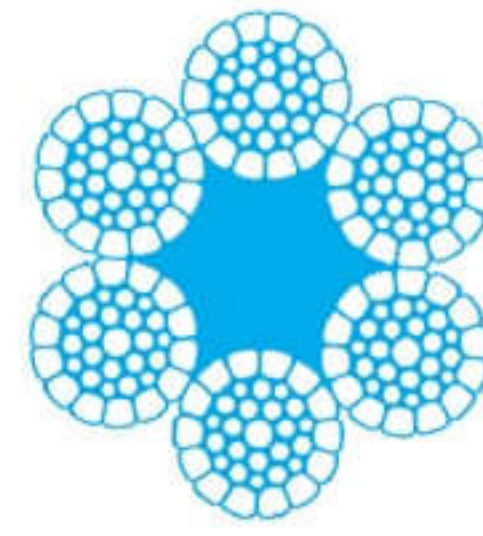
COMPACTED ROPE - 6 STRAND FIBER CORE



6 x P.Fi{29:1+7+(7)+14} + FC



6 x P.WS{31:1+6+(6+6)+12} + FC



6 x P.WS{36:1+7+(7+7)+14} + FC

Nominal Diameter		Min. Breaking Strength						Approx. Weight		Max. Length
		KISWIRE - HIGH (200G)			KISWIRE - SUPER (220G)					
Inch	mm	Tonnef	kN	lb	Tonnef	kN	lb	kg/m	Lbs/ft	m
	10	7.4	72	16,200	7.9	77	17,300	0.445	0.299	2,000
7/16	11.1	8.9	87	19,500	9.4	92	20,700	0.548	0.368	3,050
	12	10.3	101	22,700	11.0	108	24,300	0.640	0.430	3,050
1/2	12.7	11.5	113	25,400	12.3	121	27,100	0.704	0.473	3,050
	13	12.1	119	26,700	12.9	127	28,400	0.737	0.495	3,050
9/16	14.3	14.8	145	32,600	15.8	155	34,800	0.892	0.599	2,000
5/8	16	18.4	180	40,600	19.6	192	43,200	1.110	0.745	3,050
	18	23.3	228	51,400	24.8	243	54,700	1.400	0.940	3,050
3/4	19.1	26.2	257	57,800	27.9	274	61,500	1.580	1.060	3,050
	20	28.8	282	63,500	30.7	301	67,700	1.730	1.160	3,050
	22	34.8	341	76,700	37.1	364	81,800	2.090	1.400	3,050
7/8	22.2	36.1	354	79,600	38.5	378	84,900	2.130	1.430	3,050
	24	41.5	407	91,500	44.3	434	97,700	2.490	1.670	2,440
	25	45.0	441	99,200	48.0	471	105,800	2.700	1.810	2,440
	25.4	46.4	455	102,300	49.5	485	109,100	2.800	1.880	2,440
1	26	48.7	478	107,400	52.0	510	114,600	2.930	1.970	2,000
	28	56.5	554	124,600	60.3	591	132,900	3.390	2.280	2,000
	28.6	58.9	578	129,900	62.9	617	138,700	3.540	2.380	2,000
1-1/8	30	64.8	635	142,900	69.2	679	152,600	3.900	2.620	3,450
	31.8	72.9	715	160,700	77.8	763	171,500	4.370	2.940	3,000
1-1/4	32	73.8	724	162,700	78.8	773	173,700	4.430	2.980	3,000
	34	83.3	817	183,600				5,000	3.360	2,700
	35	88.3	866	194,700				5.270	3.540	2,400
1-3/8	36	93.4	916	205,900				5.610	3.770	2,400
	38	104.0	1,020	229,300				6.280	4.220	2,400
	40	105.0	1,128	253,500				6.930	4.660	2,400

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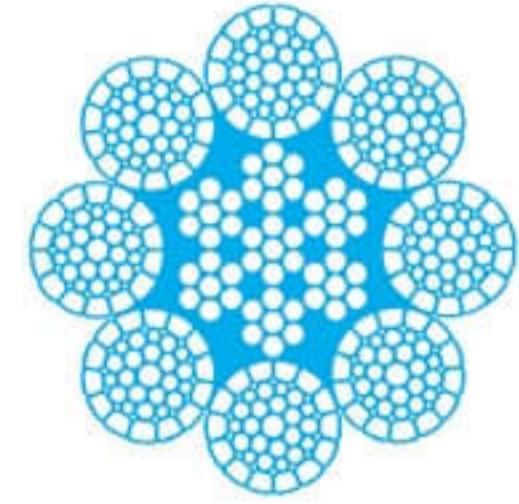
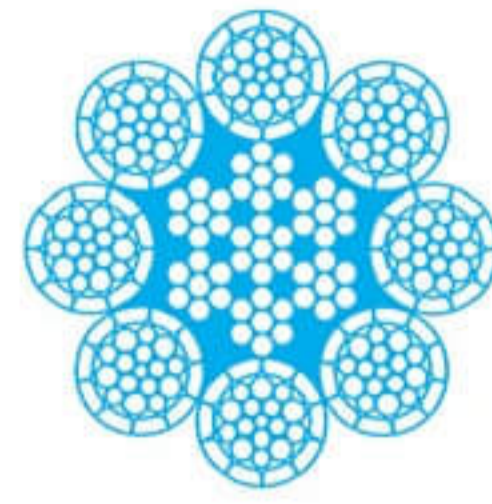
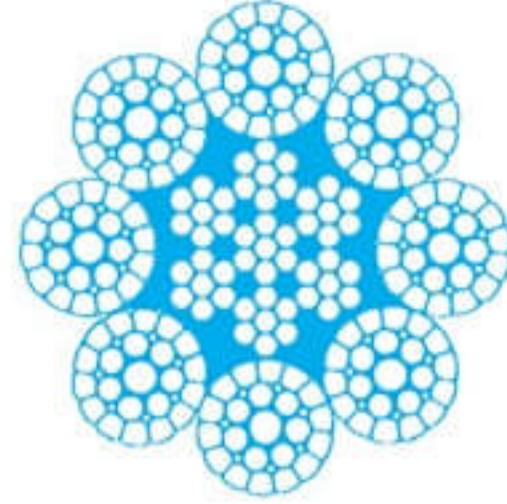
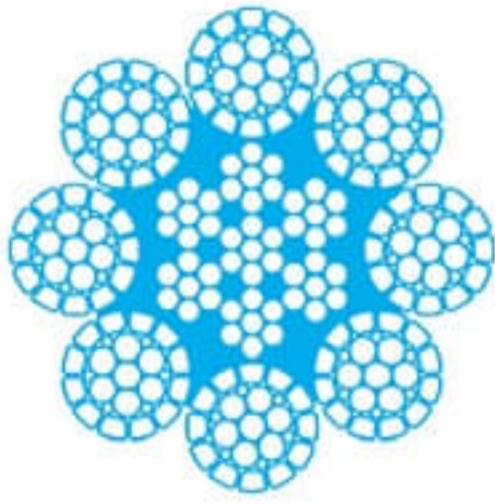
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39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# COMPACTED / SWAGED ROPE

COMPACTED ROPE - 8 STRAND IWRC (STEEL CORE)



8 x P.Fi(25:1+6+(6)+12) + IWRC

8 x P.Fi(29:1+7+(7)+14) + IWRC

8 x P.WS(26:1+5+(5+5)+10) + IWRC

8 x P.WS(36:1+7+(7+7)+14) + IWRC

Nominal Diameter		Min. Breaking Strength						Approx. Weight		Max. Length
		KISWIRE - HIGH (200G)			KISWIRE - SUPER (220G)					
Inch	mm	Tonnef	kN	lb	Tonnef	kN	lb	kg/m	Lbs/ft	m
	10	8.5	83	18,700				0.445	0.299	2,000
7/16	11.1	10.4	102	22,900				0.549	0.369	3,000
	12	12.2	120	26,900				0.642	0.431	2,800
1/2	12.7	13.6	133	30,000				0.719	0.483	2,500
	13	14.3	140	31,500				0.753	0.506	2,300
9/16	14.3	17.3	170	38,100				0.911	0.612	1,800
5/8	16	21.7	213	47,800	24.1	236	53,100	1.140	0.766	1,600
	18	27.4	269	60,400	30.5	299	67,200	1.440	0.968	1,200
3/4	19.1	30.9	303	68,100	33.9	332	74,700	1.610	1.080	2,000
	20	34.2	335	75,400	37.6	369	82,900	1.780	1.200	1,800
	22	41.0	402	90,400	45.5	446	100,300	2.160	1.450	1,600
7/8	22.2	41.7	409	91,900	46.4	455	102,300	2.200	1.480	1,600
	24	48.8	479	107,600	54.2	532	119,500	2.570	1.730	1,500
	25	52.9	519	116,600	58.8	577	129,600	2.790	1.870	1,200
1	25.4	54.6	535	120,400	60.7	595	133,800	2.870	1.930	1,200
	26	57.3	562	126,300	63.6	624	140,200	3.010	2.020	1,100
	28	66.4	651	146,400	73.8	724	162,700	3.490	2.350	1,000
1-1/8	28.6	69.3	680	152,800	77.0	755	169,800	3.650	2.450	1,000
	30	76.2	747	168,000	84.7	831	186,700	4.010	2.690	2,500
1-1/4	31.8	85.7	840	188,900	95.2	934	209,900	4.500	3.020	2,400
	32	86.7	850	191,100	96.4	945	212,500	4.560	3.060	2,400
	34	97.9	960	215,800	109.0	1,069	240,300	5.150	3.460	2,000
1-3/8	35	104.0	1,020	229,300	115.0	1,128	253,500	5.460	3.670	1,950
	36	110.0	1,079	242,500				5.770	3.880	1,900
	38	122.0	1,196	269,000				6.400	4.300	1,700

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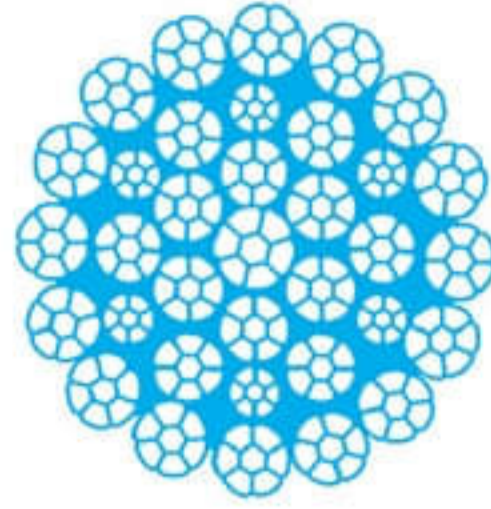
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39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# COMPACTED / SWAGED ROPE

"COMPACTED" LOW ROTATION ROPE



35 x P.7(WA){1+6+(6+6)+16}

Nominal Diameter		Min. Breaking Strength						Approx. Weight		Max. Length
		KISWIRE - HIGH (200G)			KISWIRE - SUPER (220G)					
Inch	mm	Tonnef	kN	lb	Tonnef	kN	lb	kg/m	Lbs/ft	m
	10	9.5	93	20,900	10.0	97	21,900	0.515	0.346	4,000
7/16	11.1	11.6	114	25,600	12.2	120	26,900	0.623	0.419	4,000
	12	13.6	133	30,000	14.3	140	31,500	0.742	0.499	4,000
1/2	12.7	15.2	149	33,500	16.0	157	35,300	0.830	0.558	4,000
	13	16.0	157	35,300	16.8	165	37,000	0.870	0.585	3,000
9/16	14.3	19.4	190	42,800	20.2	198	44,500	1.050	0.706	3,000
5/8	16	24.2	237	53,400	25.4	249	56,000	1.320	0.887	2,000
	18	30.7	301	67,700	32.2	316	71,000	1.670	1.120	2,000
3/4	19.1	34.2	335	75,400	35.9	352	79,100	1.860	1.250	2,500
	20	38.0	373	83,800	39.7	389	87,500	2.060	1.380	2,500
	22	45.9	450	101,200	48.1	472	106,000	2.470	1.660	2,500
7/8	22.2	46.7	458	103,000	49.0	481	108,000	2.520	1.690	1,500
	24	54.6	535	120,400	57.2	561	126,100	2.940	1.980	1,500
	25	59.2	581	130,500	62.1	609	136,900	3.210	2.160	1,500
1	25.4	61.2	600	134,900	64.1	629	141,300	3.310	2.220	1,500
	26	63.9	627	140,900	67.1	658	147,900	3.430	2.300	1,500
	28	70.8	694	156,100	77.9	764	171,700	3.980	2.670	1,500
1-1/8	28.6	73.8	724	163,700	81.2	796	179,000	4.150	2.790	1,500
	30	81.3	797	179,200	89.4	877	197,100	4.630	3.110	1,300
1-1/4	31.8	91.3	895	201,300				5.200	3.490	1,100
	32	92.6	908	204,100				5.270	3.540	1,100
	34	104.0	1,020	229,300				5.940	3.990	1,000
1-3/8	35	110.0	1,079	242,500				6.310	4.240	900
	36	117.0	1,147	257,900				6.660	4.480	900

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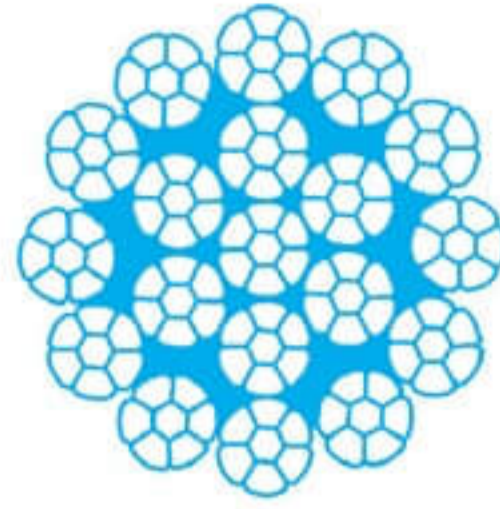
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39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# COMPACTED / SWAGED ROPE

"COMPACTED" ROTATION RESISTANT ROPE



19 x P.7{1+6+12}

Nominal Diameter		Min. Breaking Strength						Approx. Weight		Max. Length
		KISWIRE - HIGH (200G)			KISWIRE - SUPER (220G)			kg/m	Lbs/ft	
Inch	mm	Tonnes	kN	lb	Tonnes	kN	lb			
	7	4.3	42	9,500				0.226	0.152	2,500
	8	5.6	55	12,400				0.295	0.198	2,000
	9	7.1	70	15,700				0.373	0.251	4,000
	10	8.8	86	19,400				0.460	0.309	2,800
	11.1	10.8	106	23,800				0.579	0.389	2,500
	12	12.7	125	28,000				0.663	0.446	3,000
1/2	12.7	14.2	139	31,300				0.743	0.499	3,000
	13	14.9	146	32,800				0.778	0.523	3,000
9/16	14.3	18.0	177	39,700				0.902	0.606	3,000
5/8	16	22.5	221	49,600				0.942	0.633	2,500
	18	28.5	279	62,800	31.3	307	69,000	1.490	1.000	3,000
3/4	19.1	31.7	311	69,900	34.9	342	76,900	1.670	1.120	3,000
	20	35.2	345	77,600	38.6	379	86,100	1.840	1.240	3,000
	22	42.5	417	93,700	46.7	458	103,000	2.230	1.500	2,400
7/8	22.2	43.3	425	95,500	47.6	467	104,900	2.270	1.530	2,400
	24	50.6	496	111,600	55.6	545	122,600	2.650	1.780	2,000
	25	54.9	538	121,000				2.880	1.940	2,000
1	25.4	56.7	556	125,000				2.970	2.000	1,800
	26	59.4	583	131,000				3.110	2.090	1,800
	28	68.9	676	151,900				3.620	2.430	1,500

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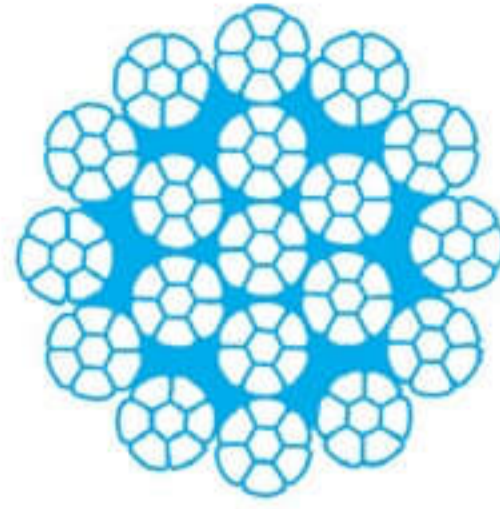
39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

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# COMPACTED / SWAGED ROPE

"COMPACTED" ROTATION RESISTANT ROPE



19 x P.7{1+6+12}

Nominal Diameter		Min. Breaking Strength						Approx. Weight		Max. Length
		KISWIRE - HIGH (200G)			KISWIRE - SUPER (220G)					
Inch	mm	Tonnes	kN	lb	Tonnes	kN	lb	kg/m	Lbs/ft	m
	7	4.3	42	9,500				0.226	0.152	2,500
	8	5.6	55	12,400				0.295	0.198	2,000
	9	7.1	70	15,700				0.373	0.251	4,000
	10	8.8	86	19,400				0.460	0.309	2,800
	11.1	10.8	106	23,800				0.579	0.389	2,500
	12	12.7	125	28,000				0.663	0.446	3,000
1/2	12.7	14.2	139	31,300				0.743	0.499	3,000
	13	14.9	146	32,800				0.778	0.523	3,000
9/16	14.3	18.0	177	39,700				0.902	0.606	3,000
5/8	16	22.5	221	49,600				0.942	0.633	2,500
	18	28.5	279	62,800	31.3	307	69,000	1.490	1.000	3,000
3/4	19.1	31.7	311	69,900	34.9	342	76,900	1.670	1.120	3,000
	20	35.2	345	77,600	38.6	379	86,100	1.840	1.240	3,000
	22	42.5	417	93,700	46.7	458	103,000	2.230	1.500	2,400
7/8	22.2	43.3	425	95,500	47.6	467	104,900	2.270	1.530	2,400
	24	50.6	496	111,600	55.6	545	122,600	2.650	1.780	2,000
	25	54.9	538	121,000				2.880	1.940	2,000
1	25.4	56.7	556	125,000				2.970	2.000	1,800
	26	59.4	583	131,000				3.110	2.090	1,800
	28	68.9	676	151,900				3.620	2.430	1,500

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### Galvanized Aircraft Cable



(7 x 7)



(7 x 19)



(1 x 19)

Const		7 x 7		7 x 19		1 x 19	
Dia		Nominal Breaking Load Kg	Approx. Weight Kg/100m	Nominal Breaking Load Kg	Approx. Weight Kg/100m	Nominal Breaking Load Kg	Approx. Weight Kg/100m
mm	inch						
1.59	1/16	-	-	-	-	227	1.26
1.98	5/64	-	-	-	-	363	2.08
2.38	3/32	417	2.38	-	-	544	2.98
2.78	7/64	572	3.27	-	-	726	4.02
3.18	1/8	771	4.17	907	4.32	953	5.21
3.97	5/32	1,179	6.40	1,270	6.70	1,497	8.19
4.76	3/16	1,678	9.23	1,905	9.67	2,132	11.50
5.56	7/32	2,177	12.35	2,540	12.80	2,858	15.20
6.35	1/4	2,767	15.77	3,175	16.40	3,719	20.10
7.14	9/32	3,357	19.94	3,629	20.70	4,672	25.30
7.94	5/16	4,173	24.85	4,445	25.75	5,670	31.30
8.73	11/32	5,080	29.90	5,670	30.80	-	-
9.52	3/8	6,033	35.10	6,535	36.20	-	-

Other Sizes Available Upon Request.



### Galvanized Vinylcoated Cable

Const			7 x 7		7 x 19	
Dia			Cable Weight Kg/100m	Vinyl Weight Kg/100m	Cable Weight Kg/100m	Vinyl Weight Kg/100m
Bare Cable	Vinyl Thickness	Cable Coated				
3/32	1/32	5/32	2.38	0.95	-	-
3/32	3/64	3/16	2.38	1.60	-	-
1/8	1/32	3/16	4.17	1.19	4.32	1.19
1/8	3/64	7/32	4.17	1.96	4.32	1.96
5/32	1/32	7/32	6.40	1.43	6.70	1.43
3/16	1/32	1/4	9.23	1.66	9.67	1.66
3/16	1/16	5/16	9.23	3.80	9.67	3.80
1/4	1/32	5/16	15.80	2.14	16.40	2.14
5/16	1/32	3/8	24.85	2.61	25.75	2.61
5/16	3/64	13/32	24.85	4.97	25.75	4.94
5/16	1/16	7/16	24.85	5.70	25.75	5.70
3/8	1/32	7/16	35.10	3.09	36.20	3.09

Other Sizes Available Upon Request.

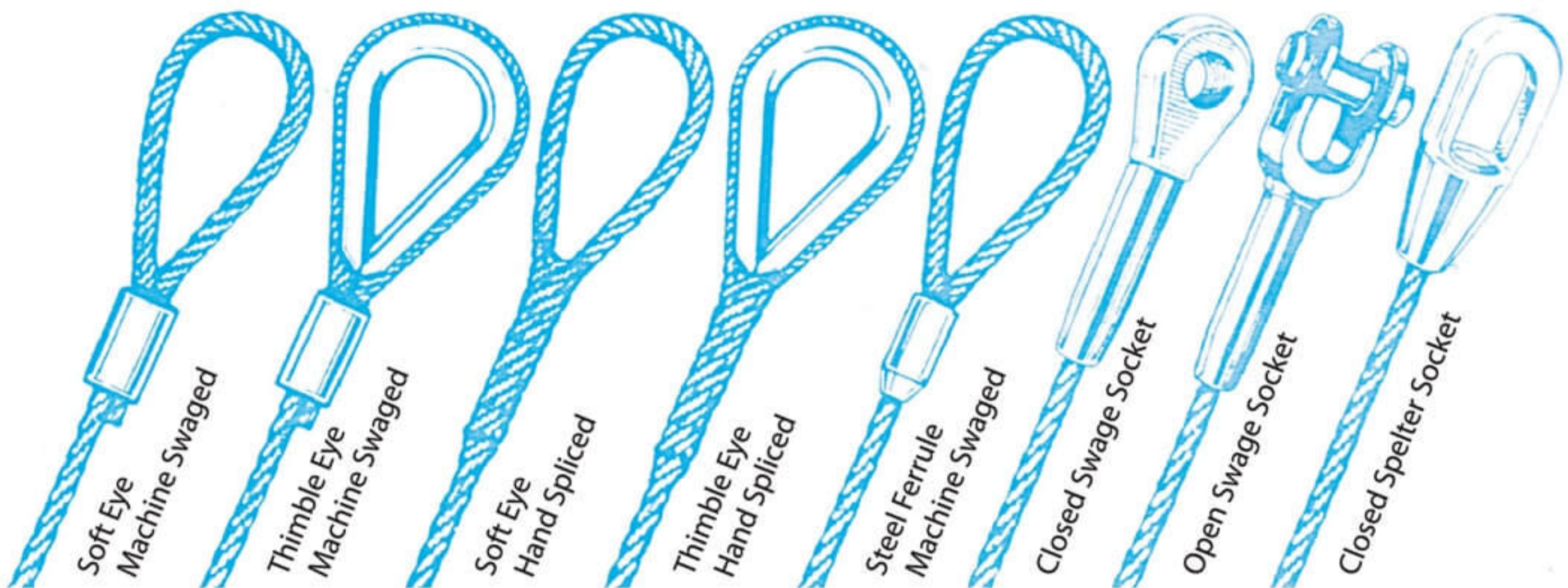


# WIRE ROPE SLING

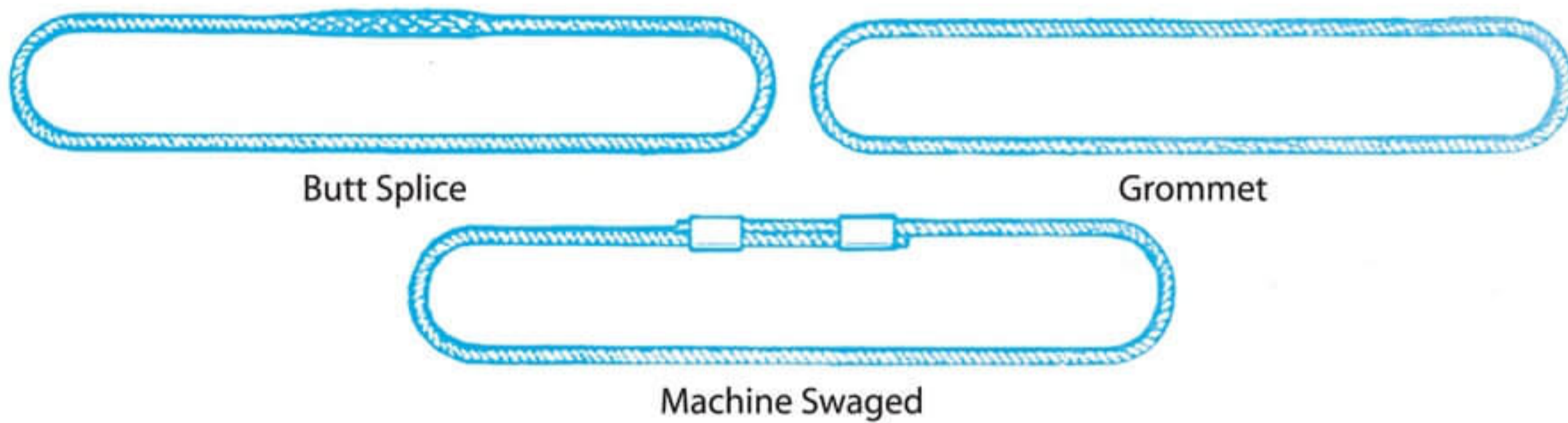
Hand spliced or machine swaged slings, with your choice of terminations, can be manufactured and tested (if required) on our premises at short notice. All slings and assemblies permanently marked with safe working loads, based on 5:1 factor of safety.

**Machine Swaging :** Aluminium Ferrules Sizes 2mm - 52 mm. Copper Ferrules Sizes 2mm - 10mm. Steel Ferrules Sizes 9mm - 75mm. Swage Sockets Sizes 3mm - 52mm. **Hand Splicing** from 2mm - 75mm dia.

## Terminations



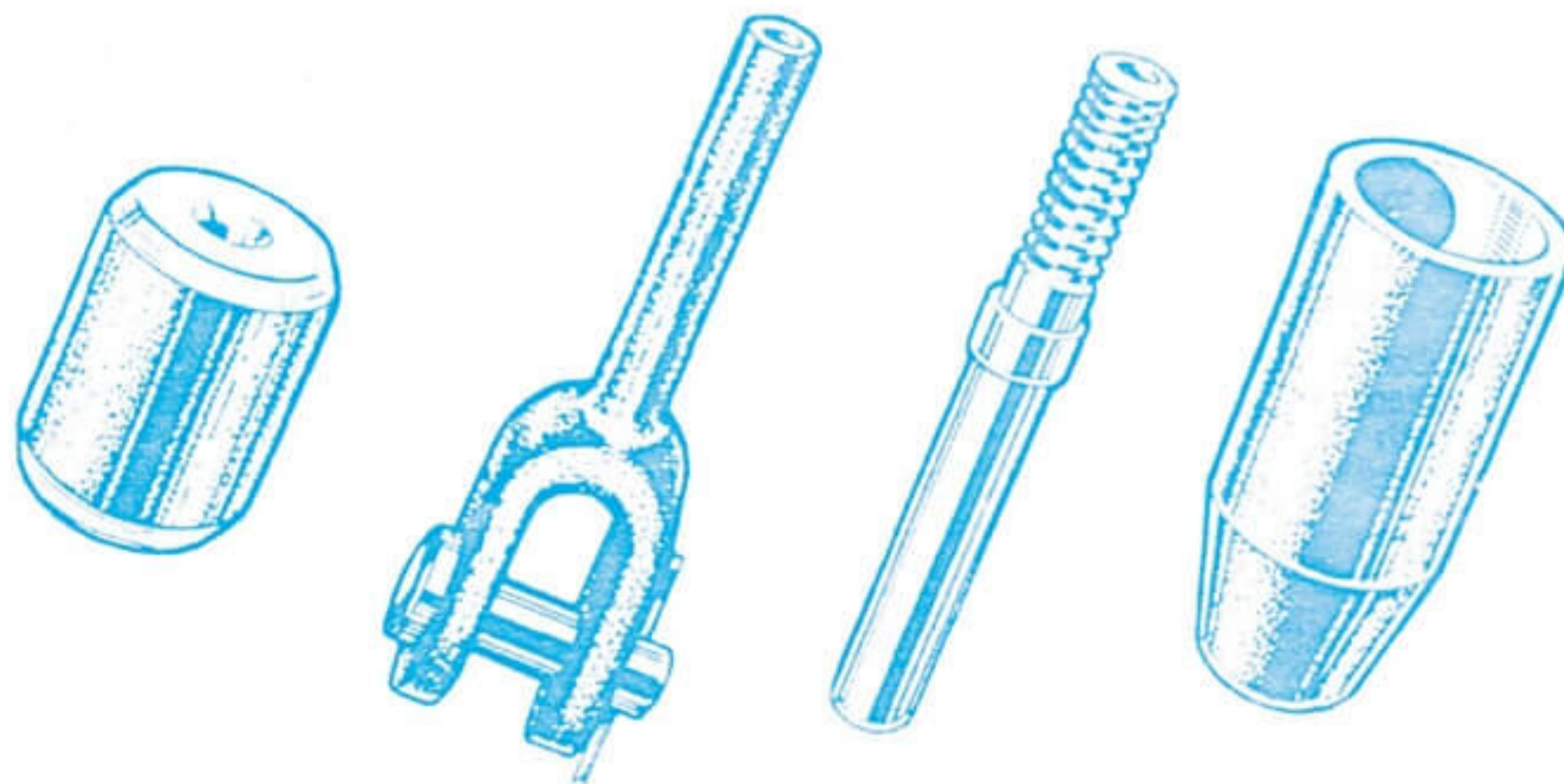
## Endless Slings



## Steel Swage Fitting

Our machine shop can manufacture a wide range of Ferrules, Threaded Studs, Stoppers and special connections to stilt

*your requirements. Swaged to any size and construction of wire rope.*



# WIRE ROPE SLING

## TYPE OF WIRE ROPE STANDARD COMBINATION



"ESE" Endless Sling



"SSE" Eye & Eye



"TTE" Thimble & Thimble



"STE" Eye & Thimble



"SHE" Eye & Hook



"THE" Thimble & Hook



"MME" Master link & Materal link



"HHE" Hook & Hook



Single Leg Sling



2-Leg Endless



2-Leg Slings



4-Leg Endless



3-Leg Slings



Choke Lift



4-Leg Slings



2-Leg Choke Lift



# HOW TO ORDER WIRE ROPE SLINGS

## Specify :

1. Rope Diameter - inches
2. Sling Length - Feet (bearing point to bearing point)
3. Description of rope construction class 6x19 etc.
4. Attachment - Master link, Hook, etc.

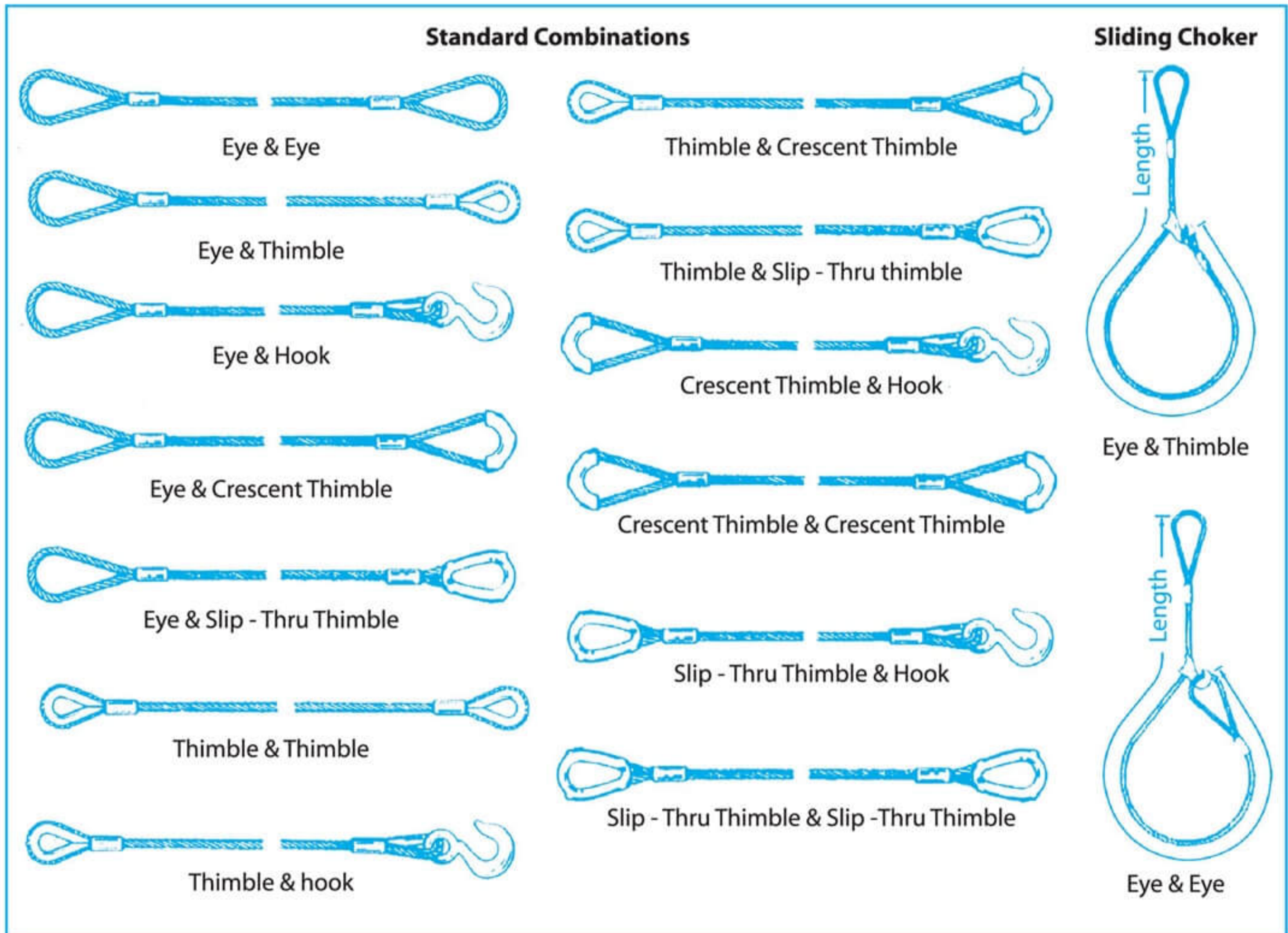
## Tolerances and Minimum Lengths

Refer to tables for tolerances and minimum lengths.

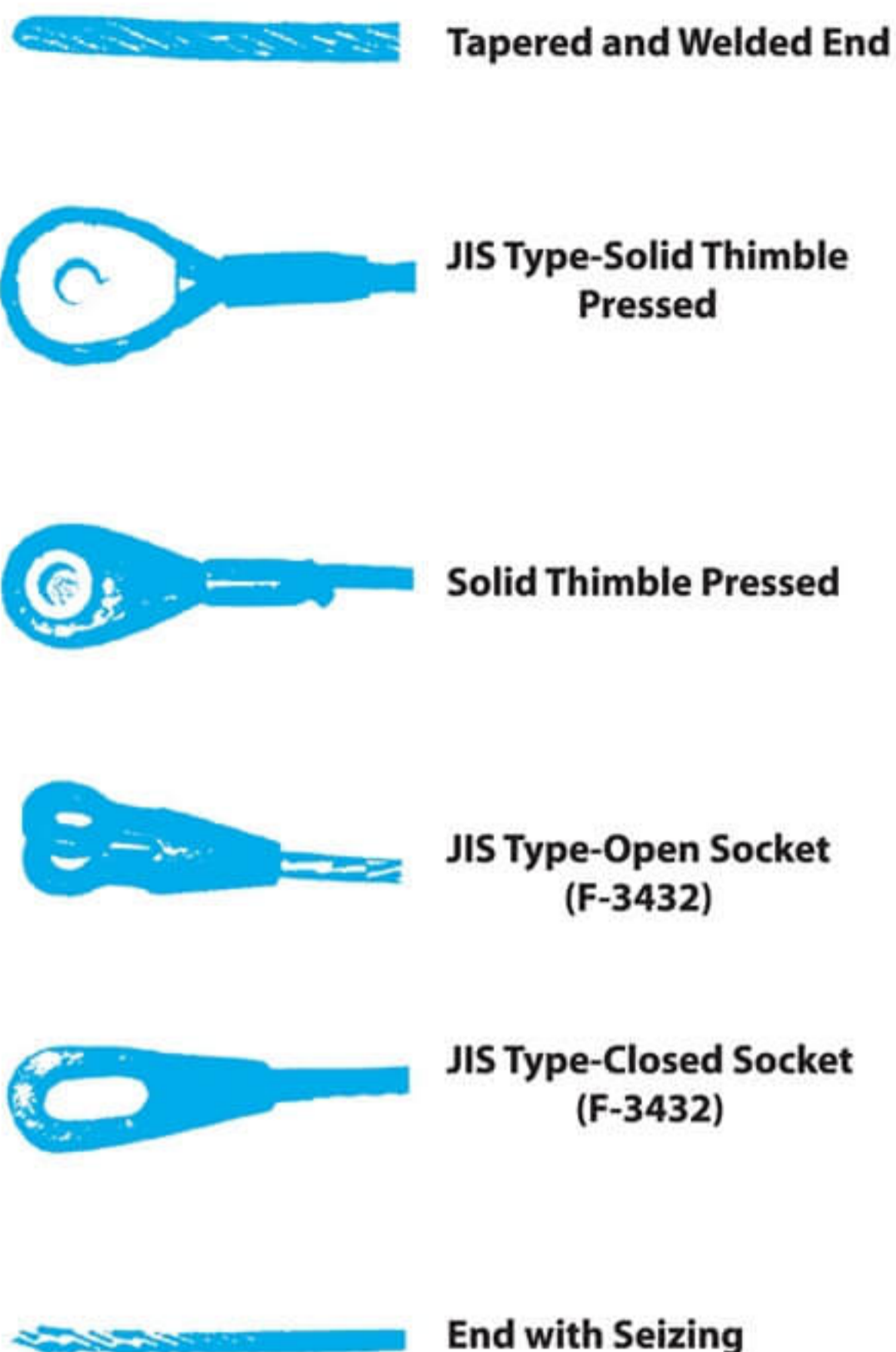
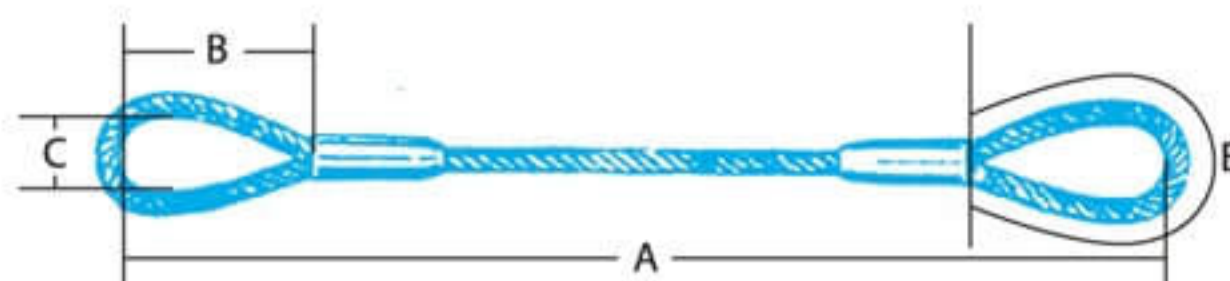
## Wire Rope Class

Standard rope classes are shown for each type and size of sling in the charts. Specific rope constructions are available upon request.

Note : Proof testing with certification available for all slings at an additional charged.



## Standard Size of Eye Splicing



Wire Rope Diam.	Standard Size of Eye Splice		
	B	C	B'
6	100	50	250
8	160	80	400
9	160	80	400
10	200	100	500
12	200	100	500
14	260	130	650
16	260	130	650
18	300	150	750
20	300	150	750
22	300	150	750
24	360	180	900
26	360	180	900
28	400	200	1,000
30	400	200	1,000
32	460	230	1,150
34	460	230	1,150
36	500	250	1,250
38	500	250	1,250
40	600	300	1,500
42	600	300	1,500
45	700	350	1,750
48	800	400	2,000
50	900	450	2,250
53	1,000	500	2,500
56	1,100	550	2,750
60	1,200	600	3,000
65	1,300	650	3,250
70	1,400	700	3,500

## Wire Rope Slings



Loop-Loop



Thimble-Loop



Thimble-Thimble

Generally is made from galvanized wire rope of 6 x 24 construction. Made to order. When ordering, please specify as to the following.

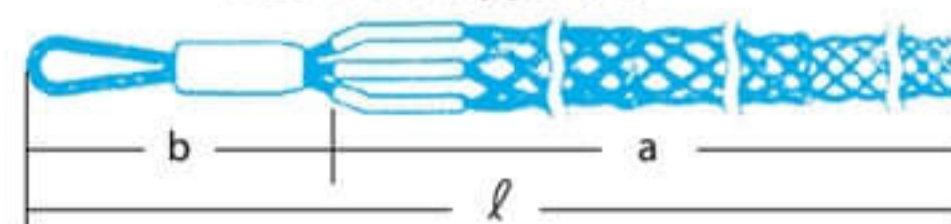
1. Type
2. Wire Rope Construction
3. Wire Rope Diameter
4. Overall Length

## Cable Grips (Cable Stockings)

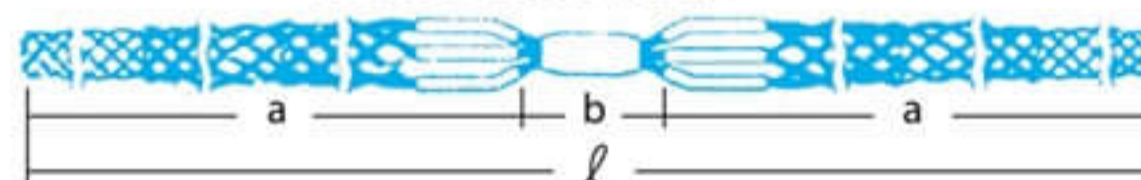
Cable grips are invariably made from woven mesh wire in the shape of an open ended stocking or sleeve. The same diameter as the wire rope on which it is to be used to facilitate reaving on to crane blocks, or a new wire rope replacing a condemned rope, the sock is placed over the ends of the new and old wire ropes and, due to the woven texture, it tightens as it is pulled. This grip is easily fitted and removed, operates safely, holds the wire rope securely, and saves labour cost.

3 types available. They are Standard, Joint A and Joint B.

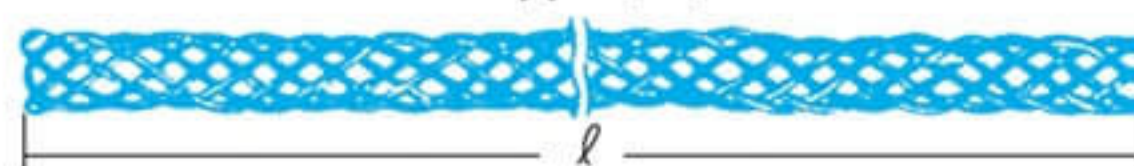
### Standard Type (R)



### Joint A Type (RA)

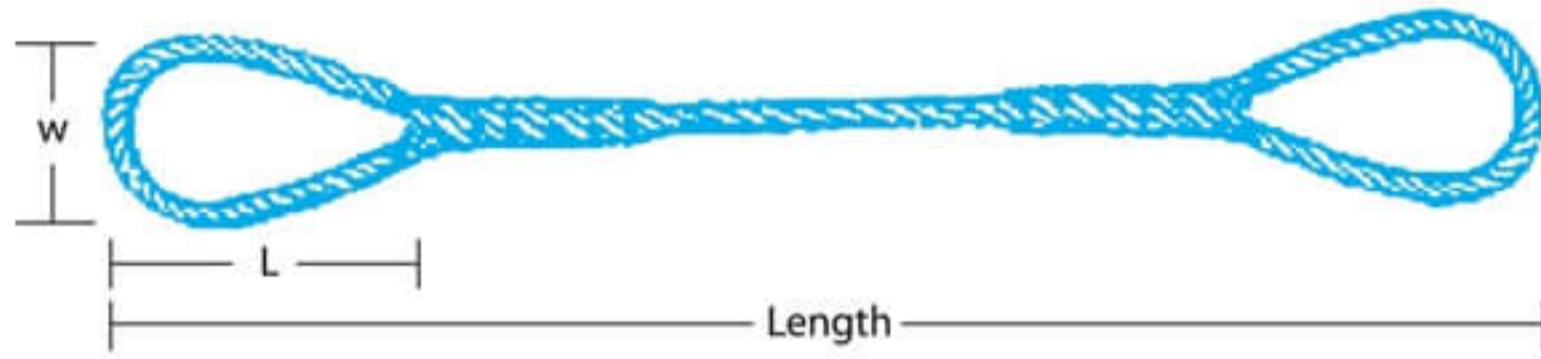


### Joint B Type (RB)



# Hand-Spliced Slings

Where the situation calls for a hand-spliced sling, HC Wire Rope will furnish this type with the splice of your choice. Note the splice efficiency table.



Rope Dia. (Inches)	Nominal Splice Efficiency
1/4	0.90
5/16	0.89
3/8	0.88
7/16	0.87
1/2	0.86
9/16	0.85
5/8	0.84
3/4	0.82
7/8 and larger	0.80

## Rated Capacities for Hand-Spliced Slings

Rope Dia. Inches	Standard Eye Size Inches	Vertical	Choker Hitch	Vertical Basket Hitch	Recommended Minimum Length

### 6 x 19 Improved Plow Steel

	W	L	Rated Loads (in tons of 2,000 lbs.)			
1/4	3	6	0.49	0.37	0.99	2'6"
3/8	3	6	1.1	0.80	2.1	3'
1/2	4	8	1.8	1.4	3.7	4'
5/8	5	10	2.8	2.1	5.6	5'
3/4	6	12	3.9	2.9	7.8	5'6"
7/8	7	14	5.1	3.9	10	6'
1	8	16	6.7	5.0	13	7'
1-1/8	9	18	8.4	6.3	17	8'

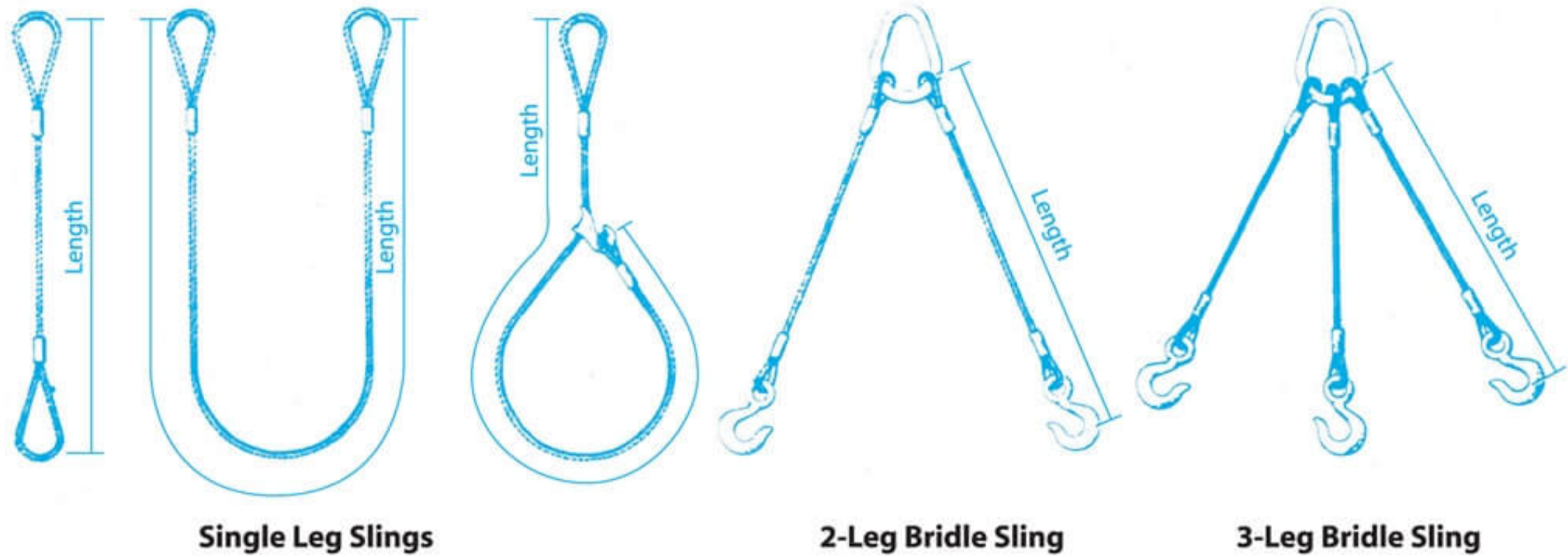
### 6 x 37 Improved Plow Steel

	W	L	Rated Loads (in tons of 2,000 lbs.)			
1-1/4	10	20	9.8	7.4	20	9'
1-3/8	11	22	12	8.9	24	9'
1-1/2	12	24	14	10	28	10'
1-5/8	13	26	16	12	33	12'
1-3/4	14	28	19	14	38	13'6"
2	16	32	25	18	49	15'6"
2-1/8	18	34	31	23	62	18'
2-1/2	20	36	38	28	75	18'



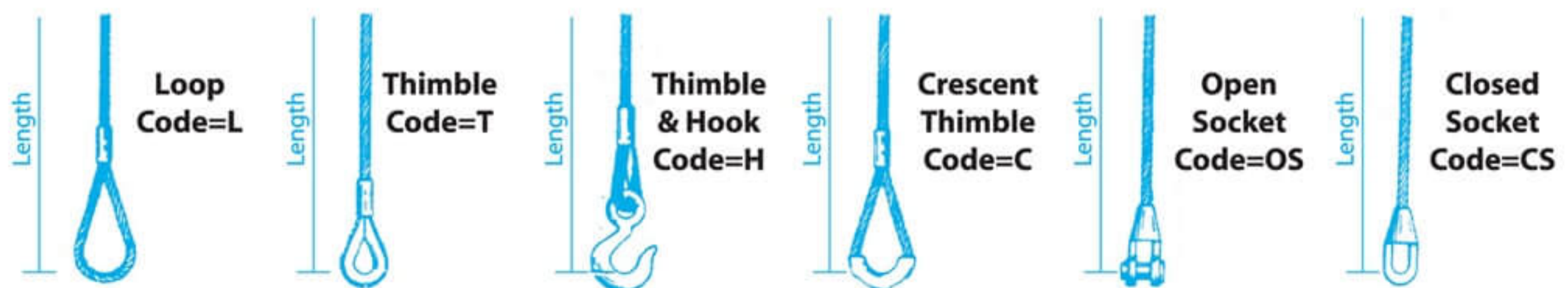
**Improved Plow Steel Wire Rope  
Fiber Core or  
Independent Wire Rope Centre.**

**Single Leg, 2-Leg Bridle  
3-Leg Bridle**





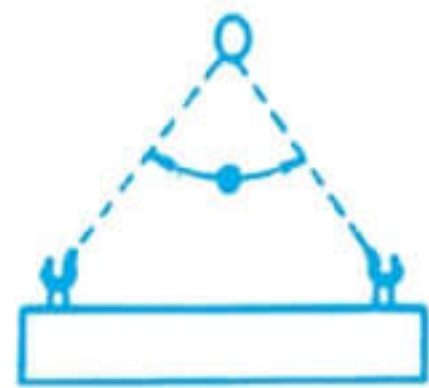
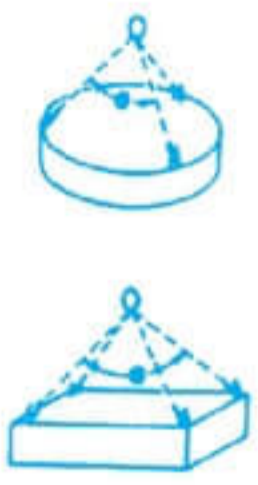

Classification	Rope Dia. (in)	Single-Part Slings Capacity-Tons			Approx. Loop Size (in)	Multiple-Leg Slings Capacity-Tons									Carbon Pear Link (in)		Alloy Oblong Link (in)		Choker Hook Size
		Vert.	Choker	Vert Basket		2 Legs			3 Legs			2 Legs - Choker			2 Leg	3 Leg	2 Leg	3 Leg	
						15°	30°	45°	15°	30°	45°	15°	30°	45°					
6 x 19	1/4	0.56	0.42	1.1	2 x 4	1.1	0.97	0.79	1.6	1.4	1.2	0.81	0.72	0.59	5/8	3/4	1/2	5/8	1/4
	5/16	0.87	0.85	1.7	2-1/2 x 5	1.7	1.5	1.2	2.5	2.3	1.8	1.3	1.1	0.92	3/4	7/8	3/8	5/8	5/16
	3/8	1.2	0.93	2.5	3 x 6	2.4	2.1	1.8	3.6	3.2	2.6	1.8	1.6	1.3	7/8	1-1/4	3/8	3/4	3/8
	7/16	1.7	1.3	3.4	3-1/2 x 7	3.3	2.9	2.4	4.9	4.4	3.6	2.4	2.2	1.8	1	1-1/4	3/4	1	1/2
	1/2	2.2	1.6	4.4	4 x 8	4.2	3.8	3.1	6.3	5.7	4.6	3.2	2.8	2.3	1-1/4	1-3/8	7/8	1	1/2
	9/16	2.7	2.1	5.5	4-1/2 x 9	5.3	4.8	3.9	8.0	7.1	5.8	4.0	3.6	2.9	1-1/4	1-3/4	7/8	1-1/8	5/8
	5/8	3.4	2.5	6.8	5 x 10	6.6	5.9	4.8	9.8	8.8	7.2	4.9	4.4	3.6	1-3/8	1-3/4	1	1-1/2	5/8
	3/4	4.9	3.6	9.7	6 x 12	9.4	8.4	6.9	14	13	10	7.0	6.3	5.1	1-3/4	2-1/4	1-1/2	1-1/2	3/4
	7/8	6.6	4.9	13	7 x 14	13	11	9.3	19	17	14	9.5	8.5	7.0	2	2-1/2	1-1/4	1-3/4	7/8
	1	8.5	6.4	17	8 x 16	16	15	12	25	22	18	12	11	9.0	2-1/4	2-3/4	1-1/4	2	1
	1-1/8	10	7.8	21	9 x 18	20	18	15	30	27	22	15	13	11	2-1/2	3	1-3/4	2-1/4	1-1/8
	6 x 37	1-1/4	12	9.2	24	10 x 20	24	21	17	35	32	26	18	16	13	2-3/4	3-1/4	2	2-1/2
1-3/8		15	11	29	11 x 22	28	25	21	43	38	31	21	19	16	3	3-1/2	2	3	1-3/8
1-1/2		17	13	35	12 x 24	34	30	25	51	45	37	25	23	18	3-1/4	4	2-1/2	3-1/4	1-1/2
1-5/8		20	15	41	13 x 26	40	35	29	59	53	43	30	27	22	3-1/2	4-1/4	2-1/2	3-1/2	-
1-3/4		24	18	47	14 x 28	46	41	33	69	61	50	34	31	25	3-3/4	4-1/2	2-3/4	3-3/4	-
2		30	23	61	16 x 32	59	53	43	88	79	65	44	40	32	4-1/4	5-1/2	3	4-1/4	-

\* These values apply when D/d ratio is 20 or greater. In most instances, both ends of a sling will be on one hook when used in a Basket Hitch. In these cases, the basket hitch capacity is equal to the vertical basket hitch figure shown, times the cosine of the vertical angle.







# Angle of Loading and Working Load Limit

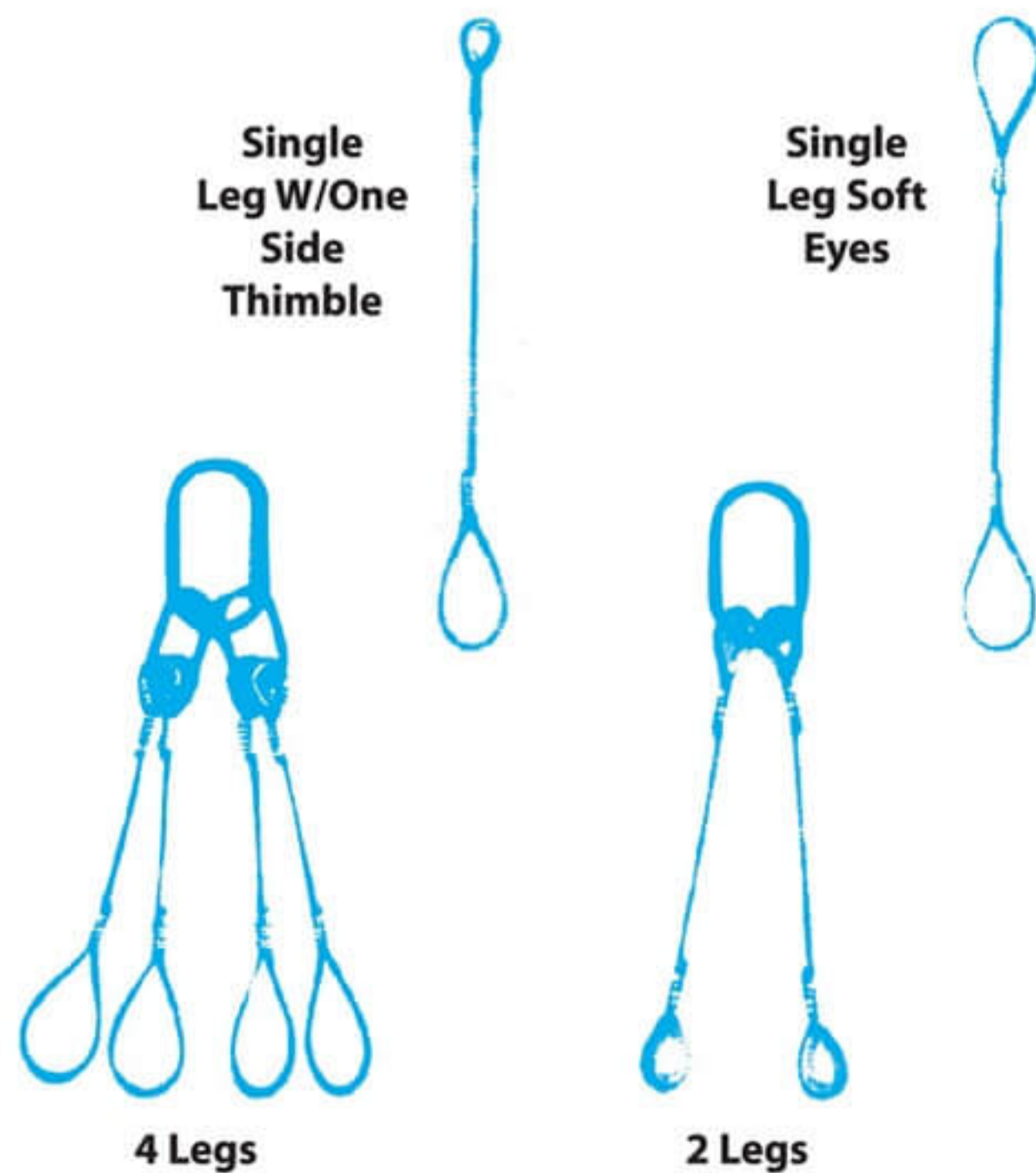
Units in Metric Tons

Wire Rope $\varnothing$ In.	Single Leg		Double Legs			3 and 4 Legs			Endless Slings			
												
			$\varnothing = 60^\circ$	$\varnothing = 90^\circ$	$\varnothing = 120^\circ$	$\varnothing = 60^\circ$	$\varnothing = 90^\circ$	$\varnothing = 120^\circ$	$\varnothing = 60^\circ$	$\varnothing = 90^\circ$	$\varnothing = 120^\circ$	
3/16	0.3	0.2	0.5	0.4	0.3	0.8	0.6	0.4	0.4	0.3	0.2	0.3
1/4	0.4	0.3	0.6	0.5	0.4	1.0	0.8	0.5	0.5	0.4	0.3	0.4
5-16	0.6	0.4	1.0	0.8	0.6	1.5	1.2	0.8	0.7	0.6	0.4	0.6
3/8	0.8	0.6	1.3	1.1	0.8	2.0	1.6	1.1	1.0	0.8	0.6	0.8
7/16	1.2	0.9	2.0	1.7	1.2	3.0	2.4	1.7	1.5	1.2	0.9	1.2
1/2	1.5	1.2	2.5	2.0	1.5	3.8	3.0	2.0	1.8	1.5	1.2	1.5
9/16	2.0	1.5	3.3	2.8	2.0	5.0	4.0	2.8	2.5	2.0	1.5	2.0
5/8	2.5	1.9	4.0	3.5	2.5	6.3	5.0	3.5	3.0	2.5	1.9	2.5
3/4	3.5	2.6	5.5	5.0	3.5	8.8	7.0	5.0	4.2	3.5	2.6	3.5
7/8	4.5	3.4	7.2	6.3	4.5	11	9.0	6.3	5.5	4.5	3.4	4.5
1	6.5	4.5	10	9.0	6.5	16	13	9.0	7.8	6.5	4.5	6.5
1-1/8	7.5	5.5	12	10	7.5	19	15	10	9.0	7.5	5.5	7.5
1-1/4	10	7.5	16	14	10	25	20	14	12	10	7.5	10
1-3/8	12	9.0	20	17	12	30	24	17	14	12	9	12
1-1/2	14	10	23	20	14	35	28	20	17	14	10	14

## Safety Comparison

Splicing Type	Socket Type	Clamp Swaging Type	U-Bolt Clip Type
			
% of Normal Safe Working Load			
1/2" 90%	100%	100%	75-80%
2-1/2" 60%			

Specifications may change without notice



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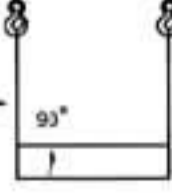
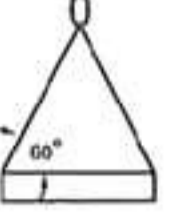
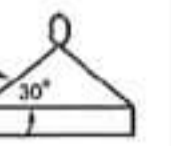
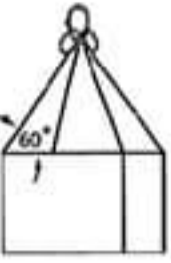
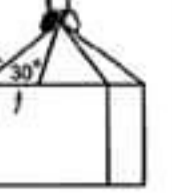
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### Wire Rope Sling Capacity (Tonnes) Safety Factor 6:1

Bridon Blue Strand Steel Wire Rope 6x36 (Warrington Seale) IWRC Grade 1960 N/mm<sup>2</sup> (EIPS or 200 kgf / mm<sup>2</sup>)



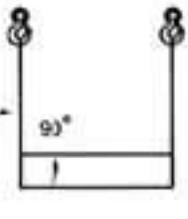
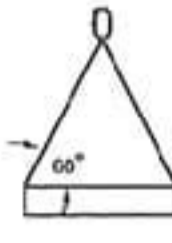
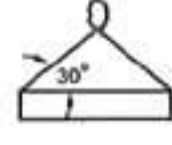
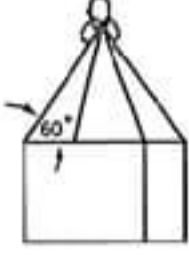
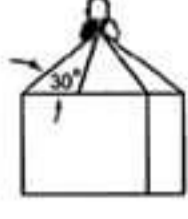
Nominal Diameter of Rope		Approximate Mass kgs. / 100 M.	Minimum Breaking Load Tonnes							
Inch	mm			Single Leg	Choker 120-180 Degree	2 Leg Basket Hitch	2 Leg 45-60 Degree	2 Leg 30 Degree	3&4 Leg 45-60 Degree	3&4 Leg 30 Degree
5/16"	8.00	26.20	4.56	0.68	0.48	1.37	0.96	0.68	1.45	1.03
3/8"	9.00	33.10	5.76	0.86	0.60	1.73	1.22	0.86	1.84	1.30
13/32"	10.00	40.90	7.12	1.07	0.75	2.13	1.51	1.07	2.27	1.60
7/16"	11.00	49.50	8.61	1.30	0.90	2.58	1.83	1.30	2.74	1.94
15/32"	12.00	58.90	10.30	1.55	1.08	3.09	2.19	1.55	2.28	2.32
1/2"	13.00	69.10	12.00	1.80	1.26	3.60	2.55	1.80	3.82	2.70
9/16"	14.00	80.20	14.00	2.10	1.47	4.20	2.97	2.10	4.46	3.15
5/8"	16.00	105.00	18.30	2.75	1.93	5.49	3.88	2.75	5.82	4.12
11/16"	18.00	133.00	23.00	3.45	2.41	6.90	4.88	3.45	7.32	5.18
3/4"	19.00	148.00	25.70	3.85	2.70	7.71	5.45	3.85	8.17	5.79
13/16"	20.00	164.00	28.40	4.26	2.98	8.52	6.02	4.26	9.04	6.36
7/8"	22.00	198.00	34.50	5.18	3.63	10.35	7.32	5.18	10.98	7.77
15/16"	24.00	236.00	41.00	6.15	4.30	12.30	8.69	6.15	13.04	9.23
1"	26.00	277.00	48.10	7.22	5.05	14.43	10.21	7.22	15.30	10.83
1.1/8"	28.00	321.00	55.80	8.37	5.86	16.74	11.84	8.37	17.76	12.56
1.1/4"	32.00	419.00	72.90	10.94	7.66	21.87	15.46	10.94	23.19	16.41
1.3/8"	35.00	501.00	87.20	13.08	9.15	26.16	18.50	13.08	27.75	19.62
1.3/8"	36.00	530.00	92.20	13.83	9.68	27.66	19.56	13.83	29.33	20.75
1.1/2"	38.00	591.00	103.00	15.45	10.81	30.90	21.84	15.45	32.77	23.18
1.9/16"	40.00	654.00	114.00	17.10	11.97	34.20	24.18	17.10	36.27	25.65
1.3/4"	44.00	792.00	138.00	20.70	14.49	41.40	29.27	20.70	43.90	31.05
1.7/8"	48.00	942.00	164.00	24.60	17.22	49.20	34.79	24.60	52.17	36.90
2"	52.00	1,110.00	193.00	28.95	20.27	57.90	40.93	28.95	61.41	43.43

Remarks : The figure in the above table is calculated according to ANSI B30.9-1990 (some value might not be the same as indicated in the standard which caused by minimum breaking load of rope.) Rated capacities based on pin diameter or hook no longer than the natural eye width (1/2 Eye Length) or less than the nominal sling diameter.  
Horizontal sling angles of less than 30 are not recommended (refer to ANSI B30.9 for full details.)



## Wire Rope Sling Capacity (Tonnes) Safety Factor 6:1

Bridon Blue Strand Steel Wire Rope 6x36 (Warrington Seale) IWRC Grade 1770 N/mm<sup>2</sup> (IPS or 180 kgf / mm<sup>2</sup>)

Nominal Diameter of Rope		Approximate Mass kgs. / 100 M.	Minimum Breaking Load Tonnes							
Inch	mm			Single Leg	Choker 120-180 Degree	2 Leg Basket Hitch	2 Leg 45-60 Degree	2 Leg 30 Degree	3&4 Leg 45-60 Degree	3&4 Leg 30 Degree
5/16"	8.00	26.20	4.11	0.62	0.43	1.23	0.87	0.62	1.31	0.93
3/8"	9.00	33.10	5.20	0.78	0.55	1.56	1.11	0.78	1.66	1.17
13/32"	10.00	40.90	6.42	0.96	0.68	1.93	1.36	0.96	2.04	1.45
7/16"	11.00	49.50	7.77	1.17	0.82	2.33	1.65	1.17	2.48	1.75
15/32"	12.00	58.90	9.20	1.38	0.96	2.76	1.95	1.38	2.93	2.07
1/2"	13.00	69.10	10.90	1.64	1.14	3.27	2.31	1.64	3.47	2.46
9/16"	14.00	80.20	12.60	1.89	1.32	3.78	2.67	1.89	4.01	2.84
5/8"	16.00	105.00	16.40	2.46	1.72	4.92	3.47	2.46	5.00	3.69
11/16"	18.00	133.00	20.80	3.12	2.19	6.24	4.41	3.12	6.62	4.68
3/4"	19.00	148.00	23.10	3.47	2.43	6.93	4.90	3.47	7.35	5.20
13/16"	20.00	164.00	25.70	3.85	2.70	7.71	5.45	3.85	8.17	5.79
7/8"	22.00	198.00	31.10	4.66	3.27	9.33	6.60	4.66	9.89	7.00
15/16"	24.00	236.00	37.00	5.55	3.89	11.10	7.85	5.55	11.77	8.33
1"	26.00	277.00	43.40	6.51	4.55	13.02	9.21	6.51	13.81	9.77
1.1/8"	28.00	321.00	50.40	7.56	5.29	15.12	10.69	7.56	16.04	11.94
1.1/4"	32.00	419.00	65.80	9.87	6.91	19.74	13.96	9.87	20.93	14.81
1.3/8"	35.00	501.00	78.70	11.81	8.26	23.61	16.70	11.81	25.04	17.71
1.3/8"	36.00	530.00	83.30	12.49	8.75	24.99	17.67	12.49	26.51	18.75
1.1/2"	38.00	591.00	92.80	13.92	9.75	27.84	19.68	13.92	29.52	20.88
1.9/16"	40.00	654.00	103.00	15.45	10.82	30.90	21.84	15.45	32.77	23.18
1.3/4"	44.00	792.00	124.00	18.60	13.02	37.20	26.30	18.60	39.45	27.90
1.7/8"	48.00	942.00	148.00	22.20	15.54	44.40	31.39	22.20	47.09	33.30
2"	52.00	1,110.00	173.00	25.95	18.16	51.90	36.39	25.95	55.04	38.93

Remarks : The figure in the above table is calculated according to ANSI B30.9-1990

(some value might not be the same as indicated in the standard which caused by minimum breaking load of rope.) Rated capacities based on pin diameter or hook no longer than the natural eye width (1/2 Eye Length) or less than the nominal sling diameter.

Horizontal sling angles of less than 30 are not recommended (refer to ANSI B30.9 for full details.)



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# FERRULE



T ferrule (T)  
(aluminium)



T Konit with inspection hole (TKH)  
(aluminium)

Please note that these instructions are only applicable to products produced and supplied by Talurit AB, Sweden and Gerro GmbH, Germany!

f = Fill factor, is the ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter.

C = Nominal metallic cross-sectional area factor of the rope  $C = \frac{f \cdot \pi}{4}$

## Matching wire rope to ferrule

Selection of the correct ferrule is to take account of:

- the measured rope diameter
- the rope type (and core)
- the nominal fill factor, f (or metallic cross-sectional area factor, C) of the rope

### Case 1

For **single layer** round strand ropes with **fibre core and cable-laid** ropes having a fill factor of at least 0,36, a ferrule having a size / Code number equivalent to the measured rope diameter is to be selected from the table on page 1.

### Case 2

For **single layer** round strand ropes with **metallic core and for rotation-resistant** round strand ropes having a fill factor up to 0,62, a ferrule having the next larger size / Code number than the measured rope diameter is to be selected from table on page 1.

### Case 3

For **single layer** round strand ropes with **metallic core and for rotation-resistant** round strand ropes and parallel-closed round strand ropes having a fill factor greater than 0,62 and up to 0,78 the ferrule is to be selected from table on page 1.

### Case 4

For **spiral strand** rope having a fill factor not greater than 0,78, ferrules are to be selected having two size / Code numbers larger than the actual rope diameter from table on page 1. Two ferrules spaced two rope diameters apart are to be used per termination. After pressing a space is to be maintained between the ferrules.

## Applicable rope types and grade

Single layer, rotation resistant and parallel-closed stranded ropes confirming to EN 12385-4, stranded ropes conforming to EN 12385-5, spiral strand ropes conforming to EN 12385-10 and cable-laid ropes as specified in EN 13414-3.

The maximum rope grade is to be 1960. The types of rope lay shall be Ordinary or Lang lay.



Ferrule size / Code No.		Measured Wire Rope Diameter Range (mm)								Die Identification		Length after pressing approx. mm	Required pressure approx. kN	
		Case 1 Fill factor $f \geq 0,36$		Case 2 Fill factor $f \leq 0,62$		Case 3 Fill factor $0,62 < f \leq 0,78$		Case 4 Fill factor $f \leq 0,78$		Dies marked	Diameter after pressing			
T	TKH	Min	Max	Min	Max	Min	Max	Min	Max	T/TKH	mm	Tol		
2,5		2,5	2,7							2,5	5	+0,2	12	30
3		2,8	3,2	2,5	2,7					3	6	0	14	45
3,5		3,3	3,7	2,8	3,2					3,5	7		16	60
4		3,8	4,3	3,3	3,7					4	8		18	80
4,5		4,4	4,8	3,8	4,3					4,5	9		20	100
5		4,9	5,4	4,4	4,8			3,8	4,3	5	10		23	125
6		5,5	6,4	4,9	5,4			4,4	4,8	6	12	+0,4	27	180
6,5		6,5	6,9	5,5	6,4			4,9	5,4	6,5	13	0	29	210
7		7,0	7,4	6,5	6,9	6,0	6,4	5,5	6,4	7	14		32	250
8	8	7,5	8,4	7,0	7,4	6,5	6,9	6,5	6,9	8	16		36	320
9	9	8,5	9,5	7,5	8,4	7,0	7,9	7,0	7,4	9	18		40	410
10	10	9,6	10,5	8,5	9,5	8,0	8,9	7,5	8,4	10	20	+0,5	45	500
11	11	10,6	11,6	9,6	10,5	9,0	9,9	8,5	9,5	11	22	0	50	600
12	12	11,7	12,6	10,6	11,6	10,0	10,9	9,6	10,5	12	24		54	720
13	13	12,7	13,7	11,7	12,6	11,0	11,9	10,6	11,6	13	26		59	850
14	14	13,8	14,7	12,7	13,7	12,0	12,9	11,7	12,6	14	28	+0,7	63	1 000
16	16	14,8	16,8	13,8	14,7	13,0	13,9	12,7	13,7	16	32	0	72	1 300
18	18	16,9	18,9	14,8	16,8	14,0	15,9	13,8	14,7	18	36	+0,9	81	1 600
20	20	19,0	21,0	16,9	18,9	16,0	17,9	14,8	16,8	20	40	0	90	2 000
22	22	21,1	23,1	19,0	21,0	18,0	19,9	16,9	18,9	22	44		99	2 400
24	24	23,2	25,2	21,1	23,1	20,0	21,9	19,0	21,0	24	48	+1,1	108	2 900
26	26	25,3	27,3	23,2	25,2	22,0	23,9	21,1	23,1	26	52	0	117	3 400
28	28	27,4	29,4	25,3	27,3	24,0	25,9	23,2	25,2	28	56		126	3 900
30	30	29,5	31,5	27,4	29,4	26,0	27,9	25,3	27,3	30	60	+1,4	135	4 500
32	32	31,6	33,6	29,5	31,5	28,0	29,9	27,4	29,4	32	64	0	144	5 100
34	34	33,7	35,7	31,6	33,6	30,0	31,9	29,5	31,5	34	68		153	5 800
36	36	35,8	37,8	33,7	35,7	32,0	33,9	31,6	33,6	36	72	+1,6	162	6 500
38	38	37,9	39,9	35,8	37,8	34,0	35,9	33,7	35,7	38	76	0	171	7 200
40	40	40,0	42,0	37,9	39,9	36,0	37,9	35,8	37,8	40	80		180	8 000
44	44	42,1	46,2	40,0	42,0	38,0	39,9	37,9	39,9	44	88	+1,9	198	9 700
48	48	46,3	50,4	42,1	46,2	40,0	43,9	40,0	43,9	48	96	0	216	11 500
52	52	50,5	54,6	46,3	50,4	44,0	47,9	44,0	47,9	52	104	+2,1 0	234	13 500
56	56	54,7	58,8	50,5	54,6	48,0	51,9	48,0	50,4	56	112	+2,3 0	252	15 700
60	60	58,9	63,0	54,7	58,8	52,0	54,6	50,5	54,6	60	120	+2,4 0	270	18 000

Table corresponds to EN 13411-3: 2004 + A1: 2008



# ELEVATOR ROPE



## STANDARD SPECIFICATIONS OF ELEVATOR ROPES

### 8 strands ropes 8ストランドロープ

8 x S (19)



Construction 構成 | 8 x S (1+9+9)

### JIS

Rope diameter ロープ径 (mm)	Outer wire diameter 上層索線径 (mm)	Sectional area 断面積 (mm <sup>2</sup> )	Breaking load   破断荷重 (kN)			(Reference) Approximate mass (参考) 概算単位質量 (kg/m)
			Bright・Galvanized 裸・めっき		Bright 裸	
			Grade E   E種	Grade A   A種		
8	0.53	23.1	26.0	30.8	32.8	0.220
10	0.66	36.5	40.6	48.1	51.3	0.343
11.2	0.74	45.8	51.0	60.3	64.3	0.430
12	0.80	52.6	58.5	69.2	73.8	0.494
12.5	0.83	58.0	63.5	75.1	80.1	0.536
14	0.93	72.6	79.6	94.3	100	0.672
16	1.06	93.5	104	123	131	0.878
18	1.19	118	132	156	166	1.11
20	1.32	146	162	192	205	1.37
22.4	1.47	183	204	241	257	1.72
25	1.65	230	254	301	320	2.14

8 x W (19)



Construction 構成 | 8 x W [1+6+(6+6)]

### JIS

Rope diameter ロープ径 (mm)	Outer wire diameter 上層索線径 (mm)	Sectional area 断面積 (mm <sup>2</sup> )	Breaking load   破断荷重 (kN)			(Reference) Approximate mass (参考) 概算単位質量 (kg/m)
			Bright・Galvanized 裸・めっき		Bright 裸	
			Grade E   E種	Grade A   A種		
8	0.48	23.1	26.0	30.8	32.8	0.220
10	0.61	36.5	40.6	48.1	51.3	0.343
11.2	0.68	45.8	51.0	60.3	64.3	0.430
12	0.73	52.6	58.5	69.2	73.8	0.494
12.5	0.76	58.0	63.5	75.1	80.1	0.536
14	0.86	72.6	79.6	94.3	100	0.672
16	0.97	93.5	104	123	131	0.878
18	1.09	118	132	156	166	1.11
20	1.20	146	162	192	205	1.37
22.4	1.35	183	204	241	257	1.72
25	1.52	230	254	301	320	2.14

8 x Fi (25)



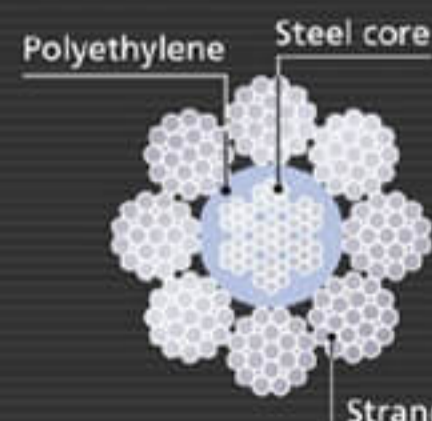
Construction 構成 | 8 x Fi [1+6+(6)+12]

### JIS

Rope diameter ロープ径 (mm)	Outer wire diameter 上層索線径 (mm)	Sectional area 断面積 (mm <sup>2</sup> )	Breaking load   破断荷重 (kN)			(Reference) Approximate mass (参考) 概算単位質量 (kg/m)
			Bright・Galvanized 裸・めっき		Bright 裸	
			Grade E   E種	Grade A   A種		
8	0.42	23.1	26.0	30.8	32.8	0.220
10	0.53	36.5	40.6	48.1	51.3	0.343
11.2	0.60	45.8	51.0	60.3	64.3	0.430
12	0.64	52.6	58.5	69.2	73.8	0.494
12.5	0.67	58.0	63.5	75.1	80.1	0.536
14	0.75	72.6	79.6	94.3	100	0.672
16	0.86	93.5	104	123	131	0.878
18	0.96	118	132	156	166	1.11
20	1.06	146	162	192	205	1.37
22.4	1.19	183	204	241	257	1.72
25	1.33	230	254	301	320	2.14

### Super Coat Elevator Rope スーパーコート エレベーターロープ

IWRC 8 x Fi (25)



Construction 構成 | 7 x 7 + Resin + 8 x Fi [1+6+(6)+12]

Rope diameter ロープ径 (mm)	Outer wire diameter 上層索線径 (mm)	Sectional area 断面積 (mm <sup>2</sup> )	Breaking load   破断荷重 (kN)			(Reference) Approximate mass (参考) 概算単位質量 (kg/m)
			Grade E   E種		Grade B   B種	
			Grade A   A種	Grade B   B種		
8	0.53	29.0	33.6	39.6	42.2	0.272
10	0.66	45.3	52.5	61.8	66.0	0.426
12	0.80	65.2	75.6	89.0	95.0	0.613
16	1.06	116	134	158	169	1.09
20	1.32	181	210	247	264	1.70
22.4	1.47	227	263	310	331	2.14

The Super Coat Elevator Rope with a clad steel core has the merits of both the steel-core rope and fiber-core rope. It is characterized by a high breaking load and modulus of elasticity, as well as stretching resistance, with a superior fatigue life.



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### 6 strands ropes 6ストランドロープ

6 x S (19)



Construction | 6 x S (1+9+9)  
構成

#### JIS

Rope diameter ロープ径 (mm)	Outer wire diameter 上層索線径 (mm)	Sectional area 断面積 (mm <sup>2</sup> )	Breaking load   破断荷重(kN)			(Reference) Approximate mass (参考) 概算単位質量 (kg/m)
			Bright・Galvanized   裸・めっき			
			Grade E   E種	Grade A   A種	Grade B   B種	
6	0.48	14.2	16.1	19.6	20.9	0.139
6.3	0.50	15.7	17.7	21.6	23.0	0.153
8	0.63	25.2	28.6	34.9	37.2	0.247
10	0.80	39.4	44.7	54.5	58.1	0.386
11.2	0.89	49.5	56.1	68.3	72.8	0.484
12	0.96	56.8	64.4	78.5	83.7	0.556
12.5	1.00	61.6	69.9	85.1	90.7	0.603
14	1.12	77.3	87.7	107	114	0.756
16	1.28	101	115	139	149	0.988
18	1.43	128	145	176	188	1.25
20	1.58	158	179	218	232	1.54

6 x W (19)



Construction | 6 x W [1+6+(6+6)]  
構成

#### JIS

Rope diameter ロープ径 (mm)	Outer wire diameter 上層索線径 (mm)	Sectional area 断面積 (mm <sup>2</sup> )	Breaking load   破断荷重(kN)			(Reference) Approximate mass (参考) 概算単位質量 (kg/m)
			Bright・Galvanized   裸・めっき			
			Grade E   E種	Grade A   A種	Grade B   B種	
6	0.45	14.2	16.1	19.6	20.9	0.139
6.3	0.47	15.7	17.7	21.6	23.0	0.153
8	0.59	25.2	28.6	34.9	37.2	0.247
10	0.74	39.4	44.7	54.5	58.1	0.386
11.2	0.83	49.5	56.1	68.3	72.8	0.484
12	0.89	56.8	64.4	78.5	83.7	0.556
12.5	0.93	61.6	69.9	85.1	90.7	0.603
14	1.05	77.3	87.7	107	114	0.756
16	1.19	101	115	139	149	0.988
18	1.33	128	145	176	188	1.25
20	1.47	158	179	218	232	1.54

6 x Fi (25)



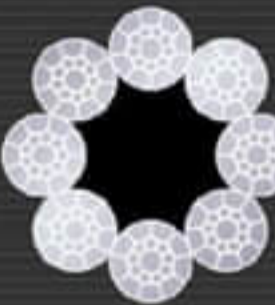
Construction | 6 x Fi [1+6+(6)+12]  
構成

#### JIS

Rope diameter ロープ径 (mm)	Outer wire diameter 上層索線径 (mm)	Sectional area 断面積 (mm <sup>2</sup> )	Breaking load   破断荷重(kN)			(Reference) Approximate mass (参考) 概算単位質量 (kg/m)
			Bright・Galvanized   裸・めっき			
			Grade E   E種	Grade A   A種	Grade B   B種	
6	0.39	14.2	16.1	19.6	20.9	0.139
6.3	0.41	15.7	17.7	21.6	23.0	0.153
8	0.51	25.2	28.6	34.9	37.2	0.247
10	0.64	39.4	44.7	54.5	58.1	0.386
11.2	0.72	49.5	56.1	68.3	72.8	0.484
12	0.77	56.8	64.4	78.5	83.7	0.556
12.5	0.81	61.6	69.9	85.1	90.7	0.603
14	0.90	77.3	87.7	107	114	0.756
16	1.03	101	115	139	149	0.988
18	1.15	128	145	176	188	1.25
20	1.28	158	179	218	232	1.54

### Compacted Elevator Rope 異形線エレベーターロープ

8 x P・S (19)

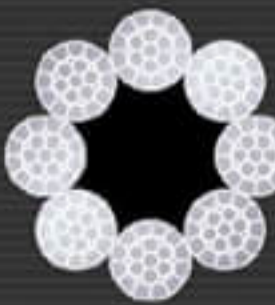


Construction | 8 x P・S [1+9+9]  
構成

#### JIS

Rope diameter ロープ径 (mm)	Breaking load   破断荷重(kN)			(Reference) Approximate mass (参考) 概算単位質量 (kg/m)
	Bright・Galvanized   裸・めっき		Galvanized   めっき	
	Grade E   E種	Grade A   A種	Grade B   B種	
8	28.6	33.8	36.1	0.240
10	44.7	52.9	56.4	0.374
11.2	56.0	66.3	70.7	0.470
12	64.3	76.1	81.2	0.539
12.5	69.8	82.6	88.1	0.585
14	87.5	104	110	0.734
16	114	135	144	0.958
18	145	171	183	1.21
20	179	211	225	1.50
22.4	224	265	283	1.88
25	279	330	352	2.34

8 x P・Fi (25)



Construction | 8 x P・Fi [1+6+(6)+12]  
構成



# STAINLESS STEEL CABLE AND WIRE ROPE

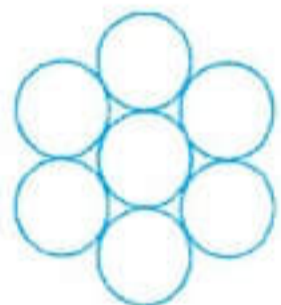


Stainless Steel Cable & Wire Rope is used for a wide usage with its minimized grade-decrease despite temperature change and its high resistance to corrosion.

Dae Sung comes up with Stainless Steel Cable & Wire Rope on the basis of up-to-date facilities & technology, and as a result, it is producing high quality products equipped with excellent surface by special treatment, flexibility, endurance, and a variety of rope construction.

The general grade used for Stainless Steel Cable & Wire Rope are AISI 302, 304, 305, 316 etc., and Dae Sung is not only ongoing to improve resistance to fatigue, but also on R&D activities about adaptation to AISI 329J1, including good feature of resistance to salt corrosion.

## Construction & Product Size

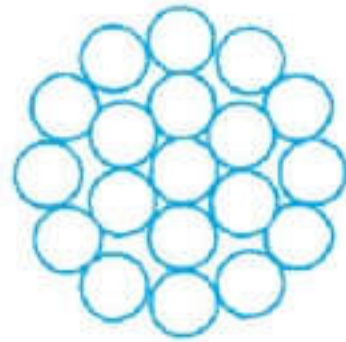


1x7  
0.5mm up to 10.0mm

Dia (inch)	App w.t (lbs/100ft)	Nominal B.S (lbs)		Dia (mm)	App w.t (Kg/100m)	Nominal B.S (Kgf)	
		AISI 302,304	AISI 316			AISI 302,304	AISI 316
1/32	0.25	150	132	0.8	0.321	68	60
3/64	0.55	375	320	1.0	0.502	105	93
1/16	0.85	570	520	1.5	1.13	230	210
5/64	1.40	850	770	2.0	2.01	410	370
3/32	2.00	1,200	1,090	2.5	3.14	625	545
7/64	2.70	1,600	1,450	3.0	4.52	900	785
1/8	3.50	2,100	1,910	3.5	6.15	1,180	1,070
5/32	5.50	3,300	3,000	4.0	8.03	1,540	1,390
3/16	7.70	4,700	4,270	5.0	12.6	2,330	2,180
7/32	10.2	6,300	5,730	6.0	18.1	3,360	3,140
1/4	13.5	8,500	7,730	7.0	24.6	4,580	4,270
9/32	17.0	10,500	9,450	8.0	32.1	5,990	5,570
5/16	21.0	13,200	12,280	9.0	40.7	7,620	7,050
3/8	30.0	18,000	16,300	10.0	50.2	8,780	8,100



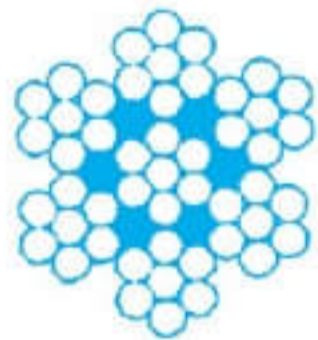
## CONSTRUCTION & PRODUCT SIZE



**1 x 9**  
**0.8mm up to 16.0mm**

DIA (Inch)	App w.t (lbs/100ft)	Nominal B.S (lbs)	
		AISI 302, 304	AISI 316
1/32	0.25	150	130
3/64	0.55	375	320
1/16	0.85	550	480
5/64	1.40	850	740
3/32	2.00	1,200	1,070
7/64	2.70	1,600	1,440
1/8	3.50	2,100	1,890
5/32	5.50	3,300	3,000
3/16	7.70	4,700	4,270
7/32	10.2	6,300	5,730
1/4	13.5	8,200	7,460
9/32	17.0	10,300	9,360
5/16	21.0	12,500	11,800
3/8	30.0	17,500	16,500
7/16	42.0	24,000	22,800
1/2	54.0	31,000	29,500
9/16	69.0	38,000	36,100
5/8	85.0	47,400	44,970

DIA (mm)	App w.t (kg/100m)	Nominal B.S (kgf)	
		AISI 302, 304	AISI 316
1	0.495	96	84
1.5	1.11	215	189
2	1.98	380	336
2.5	3.10	600	525
3	4.46	830	756
3.5	6.07	1,140	1,030
4	7.93	1,490	1,340
5	12.4	2,330	2,100
6	17.8	3,320	3,030
7	24.3	4,490	4,120
8	31.7	5,700	5,380
9	40.1	7,200	6,810
10	49.5	8,830	8,400
11	59.9	10,500	10,200
12	71.3	12,400	12,100
13	83.7	14,500	14,000
14	97.1	16,700	16,200
16	127.0	21,500	20,400



**7 x 7**  
**1.20mm up to 22.0mm**

DIA (Inch)	App w.t (lbs/100ft)	Nominal B.S (lbs)	
		AISI 302, 304	AISI 316
3/64	0.42	270	240
1/16	0.75	480	420
5/64	1.10	650	570
3/32	1.60	920	810
1/8	2.80	1,700	1,510
5/32	4.30	2,500	2,270
3/16	6.20	3,700	3,350
7/32	8.30	4,800	4,360
1/4	10.6	6,100	5,600
9/32	13.4	7,600	7,000
5/16	16.7	9,000	8,100
3/8	23.6	12,500	11,400
7/16	34.4	16,900	15,400
1/2	45	22,800	20,900
9/16	58	28,000	25,800
5/8	70	35,000	32,400
3/4	102	49,600	45,700
7/8	140	66,500	61,300

DIA (mm)	App w.t (kg/100m)	Nominal B.S (kgf)	
		AISI 302, 304	AISI 316
1.2	0.63	122	100
1.5	0.96	170	150
2.0	1.57	290	260
2.5	2.70	460	400
3	3.54	660	585
4	6.29	1,140	1,030
5	9.83	1,790	1,620
6	14.2	2,570	2,330
7	19.3	3,400	3,160
8	25.2	4,080	3,670
9	31.8	5,200	4,650
10	39.3	6,300	5,750
12	56.7	8,950	8,270
14	77.1	12,200	11,200
16	101	15,900	14,700
18	128	20,100	18,600
20	157	24,800	23,000
22	190	29,600	27,800



**7 x 19**  
**2.0mm up to 32.0mm**

DIA (Inch)	App w.t (lbs/100ft)	Nominal B.S (lbs)	
		AISI 302, 304	AISI 316
5/64	1.14	650	560
3/32	1.74	920	810
1/8	2.9	1,760	1,530
5/32	4.5	2,400	2,110
3/16	6.5	3,700	3,210
7/32	8.6	5,000	4,350
1/4	11.0	6,400	5,600
9/32	13.9	7,800	6,800
5/16	17.3	9,000	8,200
3/8	24.3	12,000	11,000
7/16	35.0	16,500	15,000
1/2	46.0	22,800	20,700
9/16	59.0	28,500	26,000
5/8	72.0	35,000	31,900
3/4	104	49,600	45,100
7/8	142	66,500	60,500
1	185	85,400	77,600
1 1/8	234	106,400	96,400
1 1/4	289	129,400	118,000

DIA (mm)	App w.t (kg/100m)	Nominal B.S (kgf)	
		AISI 302, 304	AISI 316
2	1.70	280	230
2.5	2.70	440	390
3	3.42	625	540
4	6.09	1,090	960
5	9.52	1,700	1,490
6	13.8	2,460	2,150
8	24.3	4,100	3,820
9	30.8	5,450	4,840
10	38.1	6,580	5,970
12	54.8	9,480	8,610
13	64.3	10,900	10,100
14	74.6	12,600	11,700
16	97.4	16,100	14,470
18	123	20,400	18,100
20	152	24,900	22,000
22	184	30,100	26,500
24	219	34,500	30,600
26	257	40,600	35,900
32	390	58,700	54,400



# Domestic Standard



6xS(24) + 7FC



6xS(19) IWRC



6xW(19) IWRC



6xFi(25) IWRC



6xWS(26) IWRC



6xFi(29) IWRC



6xW(31) IWRC



6xWS(36) IWRC

DIA (mm)	6 x S(24) + 7FC + 7FC			6 x S(19), 6 x W(19), 6 x Fi(25), 6 x WS(26), 6 x R(29), 6 x WS(31), 6 x WS(36)		
	App w.t (kg/m)	Min B.S (kgf)		App w.t (kg/m)	Min B.S (kgf)	
		AISI 302, 304	AISI 316		AISI 302, 304	AISI 316
8	0.212	3,220	2,890	0.280	4,060	3,660
9	0.269	4,070	3,660	0.350	5,140	4,630
10	0.332	5,030	4,530	0.430	6,340	5,710
11	0.416	6,300	5,670	0.539	7,960	7,160
12	0.478	7,240	6,500	0.619	9,140	8,220
14	0.651	9,850	8,670	0.843	12,400	10,900
16	0.850	12,900	11,200	1.10	16,200	14,100
18	1.08	16,300	14,000	1.39	20,500	17,600
20	1.33	20,100	17,100	1.72	25,400	21,600
22	1.67	25,200	21,400	2.16	31,800	27,000
24	1.91	28,900	24,600	2.48	36,500	31,000
25	2.08	31,400	26,700	2.69	39,700	33,700
28	2.60	39,500	33,600	3.37	49,700	42,200
30	2.99	45,300	38,500	3.87	57,100	48,500
32	3.40	49,900	42,400	4.41	62,900	53,500

# Rotating Resistance Construction



18 x 7



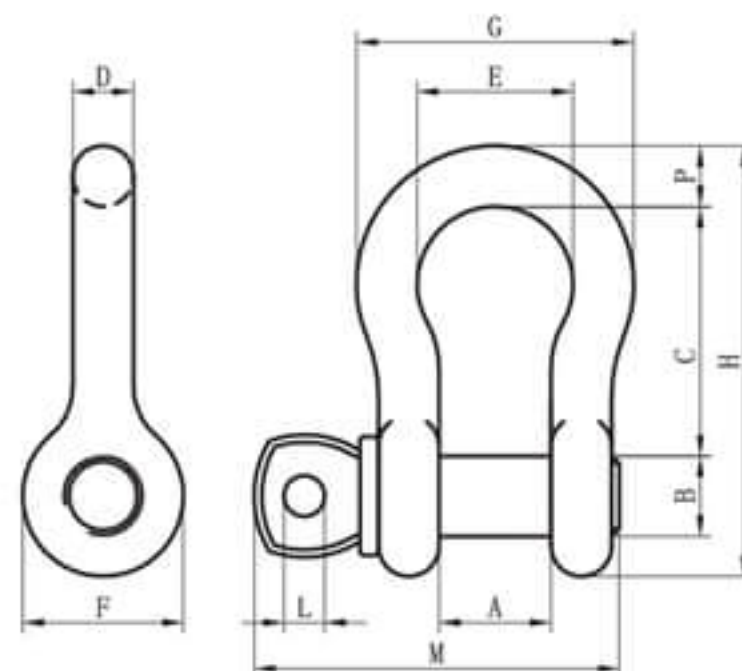
19 x 7

DIA (mm)	18 x 7			19 x 7		
	App w.t (kg/m)	Min B.S (kgf)		App w.t (kg/m)	Min B.S (kgf)	
		AISI 302, 304	AISI 316		AISI 302, 304	AISI 316
6	0.144	2,000	1,840	0.153	2,150	1,890
8	0.256	3,580	3,260	0.272	3,840	3,360
9	0.324	4,520	4,130	0.344	4,860	4,250
12	0.576	8,040	7,340	0.612	8,640	7,560
13	0.676	9,450	8,610	0.718	10,100	8,870
14	0.796	10,900	9,990	0.833	11,700	10,300
16	1.04	14,200	13,000	1.09	15,400	13,400
18	1.32	18,100	16,600	1.38	19,400	17,000
19	1.44	20,200	18,400	1.53	21,600	18,900
20	1.62	22,300	20,400	1.70	23,900	21,000
22	2.04	28,100	24,700	2.13	30,000	25,400



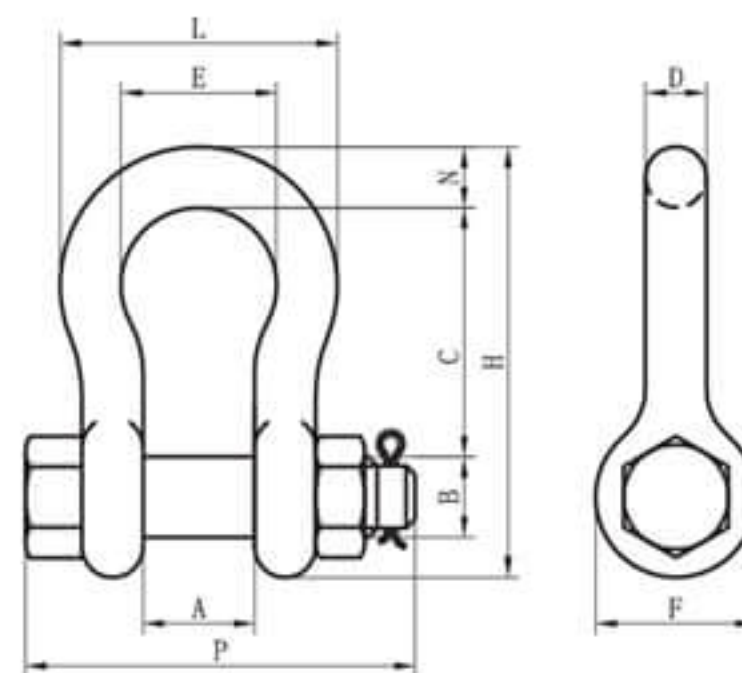
# SHACKLE

## KG-109 U.S. TYPE SCREW PIN ANCHOR SHACKLE



Size (in.)	WLL (t)	Weight (kg)	Dimensions (in.)										
			A	B	C	D	E	F	G	H	L	M	P
1/2	2	0.29	0.81	0.64	1.87	0.50	1.31	1.19	2.31	3.28	0.31	2.87	0.50
5/8	3-1/4	0.63	1.06	0.75	2.38	0.63	1.69	1.56	2.93	4.16	0.45	3.54	0.63
3/4	4-3/4	1.02	1.26	0.87	2.81	0.75	2.00	1.81	3.50	4.97	0.51	4.17	0.81
7/8	6-1/2	1.53	1.44	0.99	3.32	0.87	2.28	2.09	4.03	5.83	0.51	4.65	0.97
1	8-1/2	2.41	1.69	1.10	3.76	1.00	2.69	2.38	4.69	6.56	0.57	5.29	1.06
1-1/8	9-1/2	3.08	1.81	1.25	4.25	1.16	2.91	2.69	5.16	7.47	0.64	6.00	1.25
1-1/4	12	4.30	2.04	1.37	4.69	1.29	3.25	3.00	5.75	8.25	0.70	6.69	1.38
1-3/8	13-1/2	6.00	2.25	1.50	5.26	1.42	3.63	3.31	6.38	9.16	0.76	7.41	1.50
1-1/2	17	7.79	2.38	1.65	5.74	1.54	3.88	3.63	6.88	10.00	0.82	7.97	1.62
1-3/4	25	13.00	2.88	2.01	7.00	1.75	5.00	4.17	8.86	12.35	0.87	9.29	2.25
2	35	19.50	3.25	2.24	7.78	2.01	5.75	4.76	9.97	13.69	0.94	10.57	2.40
2-1/2	55	38.00	4.13	2.76	10.51	2.48	7.24	5.98	12.20	17.36	1.39	13.43	2.48

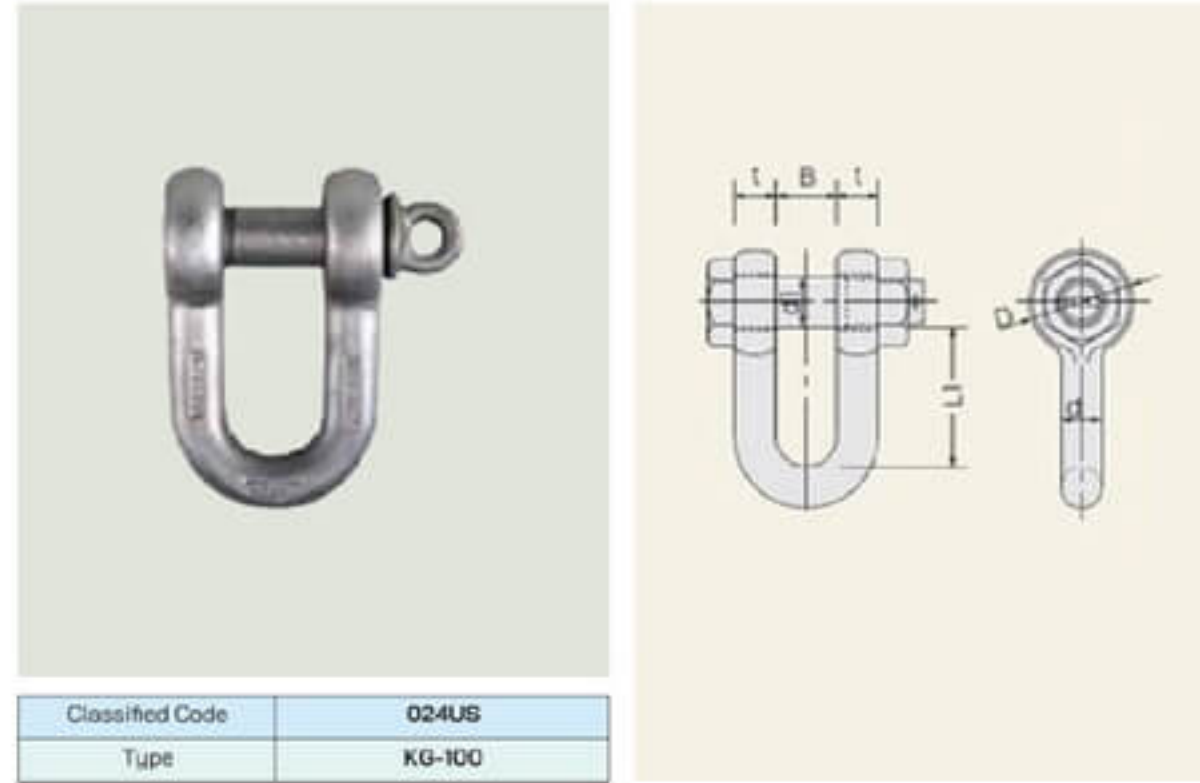
## KG-1130 U.S. TYPE SCREW PIN ANCHOR SHACKLE



Size (in.)	WLL (t)	Weight (kg)	Dimensions (in.)										
			A	B	C	D	E	F	H	L	N	P	
1/2	2	0.36	0.81	0.63	1.87	0.50	1.31	1.19	3.28	2.31	0.50	3.07	
5/8	3-1/4	0.76	1.06	0.79	2.36	0.63	1.69	1.56	4.16	2.93	0.63	3.74	
3/4	4-3/4	1.23	1.26	0.87	2.82	0.75	2.00	1.81	4.97	3.50	0.81	4.25	
7/8	6-1/2	1.79	1.44	0.98	3.32	0.87	2.28	2.09	5.83	4.03	0.97	4.96	
1	8-1/2	2.56	1.69	1.10	3.76	1.00	2.69	2.38	6.56	4.69	1.06	5.55	
1-1/8	9-1/2	3.75	1.81	1.26	4.25	1.16	2.91	2.69	7.47	5.16	1.25	5.98	
1-1/4	12	5.30	2.04	1.38	4.69	1.29	3.25	3.00	8.25	5.75	1.38	6.61	
1-3/8	13-1/2	7.17	2.25	1.50	5.26	1.42	3.63	3.31	9.16	6.38	1.50	7.22	
1-1/2	17	9.42	2.38	1.65	5.74	1.54	3.88	3.63	10.00	6.88	1.62	7.76	
1-3/4	25	14.00	2.88	2.00	7.01	1.75	5.00	4.17	12.35	8.86	2.25	9.09	
2	35	22.00	3.25	2.24	7.78	2.01	5.75	4.76	13.69	9.97	2.40	10.35	
2-1/2	55	44.50	4.13	2.76	10.51	2.48	7.24	5.98	17.36	12.20	2.48	14.33	



# KG-100 U.S. TYPE STRONG SHACKLE

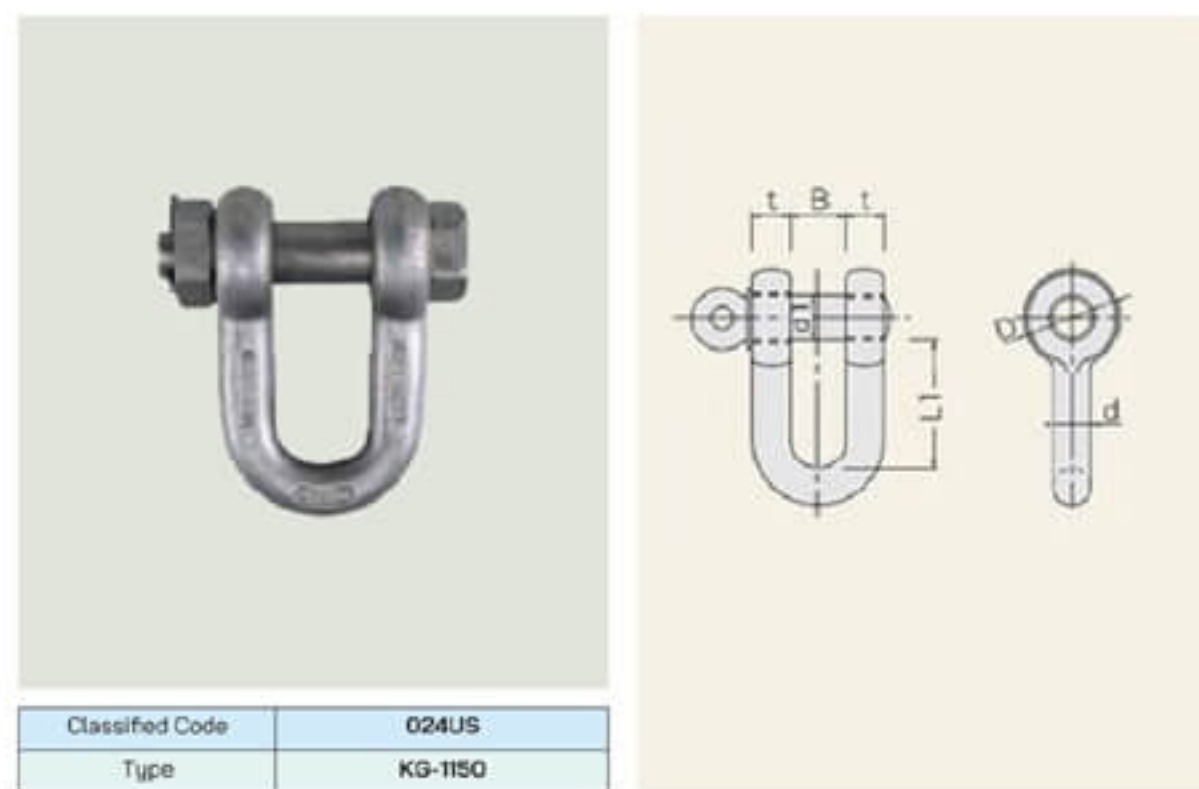


Classified Code	024US
Type	KG-100

## ■ Screw Type (KG-100)

Product Code		Size	W.L.L.		d (t)	d1	B	B1	L1	L2	D	Weight (kg)		Price	
109	100		t	kN								109	100	109	100
		1/2	2	( 19.6 )	13	16	21	33.5	42	48	30	0.34	0.3		
		5/8	3 1/4	( 31.85 )	16	19	27	43	51	61	40	0.65	0.57		
		3/4	4 3/4	( 46.55 )	19	22	32	51	61	72	48	1.1	1		
		7/8	6 1/2	( 63.7 )	22	25	37	58	72	85	54	1.6	1.45		
		1	8 1/2	( 83.3 )	25	28	43	69	81	96	60	2.3	2.1		
		1 1/8	9 1/2	( 93.1 )	28	32	46	74	91	108	67	3.3	2.9		
		1 1/4	12	(117.6 )	32	36	52	83	100	119	76	4.65	4.1		
		1 3/8	13 1/2	(132.3 )	36	38	58	92	113	134	84	6.2	5.3		
		1 1/2	17	(166.6 )	38	42	61	99	124	146	92	7.7	7.01		
		1 3/4	25	(245 )	46	50	73	127	146	178	110	13	12		
		2	35	(343 )	50	57	83	146	172	197	127	19.5	18		
		2 1/2	50	(490 )	65	70	105	184	204	267	153	40	35		

# KG-1150 U.S. TYPE STRONG SHACKLE



Classified Code	024US
Type	KG-1150

## ■ Bolt Nut • Type (KG-1150) + 100Ton, 130Ton, 150Ton are Round Head type with Handle

Product Code		Size	W.L.L.		d (t)	d1	B	B1	L1	L2	D	Weight (kg)		Price	
1130	1150		t	kN								1130	1150	1130	1150
		1/2	2	( 19.6 )	13	16	21	33.5	42	48	30	0.395	0.35		
		5/8	3 1/4	( 31.85 )	16	19	27	43	51	61	40	0.726	0.71		
		3/4	4 3/4	( 46.55 )	19	22	32	51	61	72	48	1.2	1.1		
		7/8	6 1/2	( 63.7 )	22	25	37	58	72	85	54	1.8	1.66		
		1	8 1/2	( 83.3 )	25	28	43	69	81	96	60	2.5	2.35		
		1 1/8	9 1/2	( 93.1 )	28	32	46	74	91	108	67	3.56	3.4		
		1 1/4	12	( 117.6 )	32	36	52	83	100	119	76	5.1	4.8		
		1 3/8	13 1/2	( 132.3 )	36	38	58	92	113	134	84	7	6.65		
		1 1/2	17	( 166.6 )	38	42	61	99	124	146	92	8.6	8.1		
		1 3/4	25	( 245 )	46	50	73	127	146	178	110	14	14		
		2	35	( 343 )	50	57	83	146	172	197	127	22	21		
		2 1/2	50	( 490 )	65	70	105	184	204	267	153	43	38		
		3	75	( 735 )	75	83	127	200	216	330	165	66	56		
		3 1/2	+100	( 980 )	90	96	134	228	266	372	203	115	100		
		4	+130	(1274 )	100	108	140	254	305	418	228	163	121		
		4 3/8	+150	(1470 )	110	120	165	275	351	464	246	238	204		



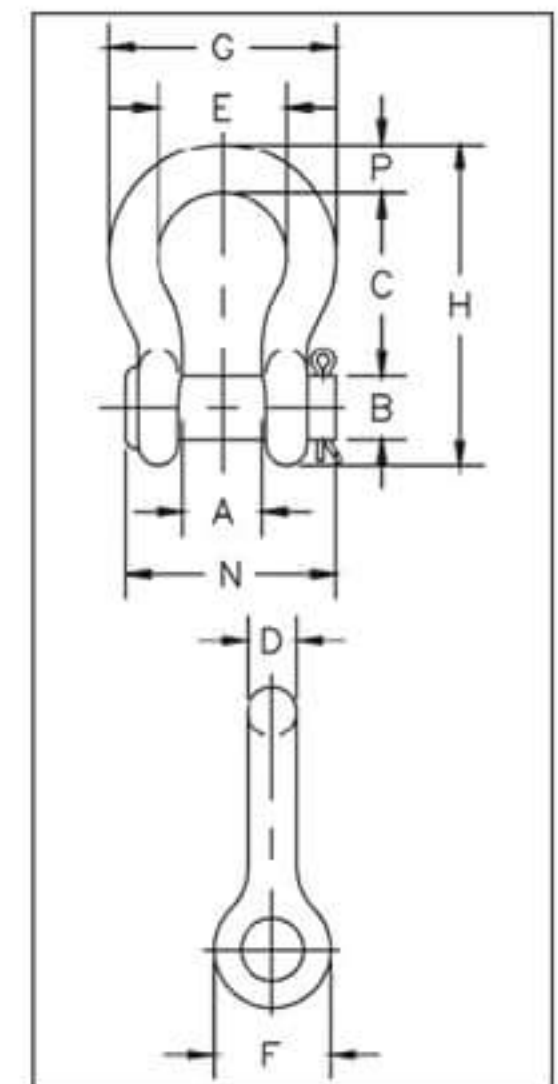
# SHACKLE



G-213/S-213



- Forged, Quenched & Tempered, with alloy pins.
- Working Load Limit permanently shown on every shackle.
- Hot-dip galvanized (G) or self colored (S).
- Sizes 3/8 inch and below are mechanically galvanized.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Shackles 25t and larger are RFID equipped.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Charges for proof testing and certification available when requested at the time of order.
- Shackles are Quenched & Tempered and can meet DNV impact requirements of 42 Joules (31 ft-lb) at -20° C (-4° F).
- G-213 Round pin anchor shackles meet the performance requirements of Federal Specification RR-C-271G, Type IVA, Grade A, Class 1, except for those provisions required of the contractor.
- DO NOT SIDE LOAD ROUND PIN SHACKLES.
- Look for the Red Pin®... the mark of genuine Crosby quality.



## G-213 / S-213 Round Pin Anchor Shackles

Nominal Size (in)	Working Load Limit (t)	Stock No.		Weight Each (lb)	Dimensions (in)										Tolerance (+ / - in)	
		G-213	S-213		A	B	C	D	E	F	G	H	N	P	C	A
1/4	1/2	1018017	1018026	.13	.47	.31	1.13	.25	.78	.61	1.28	1.84	1.34	.25	.06	.06
5/16	3/4	1018035	1018044	.18	.53	.38	1.22	.31	.84	.75	1.47	2.09	1.59	.31	.06	.06
3/8	1	1018053	1018062	.29	.66	.44	1.44	.38	1.03	.91	1.78	2.49	1.86	.38	.13	.06
7/16	1-1/2	1018071	1018080	.38	.75	.50	1.69	.44	1.16	1.06	2.03	2.91	2.13	.44	.13	.06
1/2	2	1018099	1018106	.71	.81	.63	1.88	.50	1.31	1.19	2.31	3.28	2.38	.50	.13	.06
5/8	3-1/4	1018115	1018124	1.50	1.06	.75	2.38	.63	1.69	1.50	2.94	4.19	2.91	.69	.13	.06
3/4	4-3/4	1018133	1018142	2.32	1.25	.88	2.81	.75	2.00	1.81	3.50	4.97	3.44	.81	.25	.06
7/8	6-1/2	1018151	1018160	3.49	1.44	1.00	3.31	.88	2.28	2.09	4.03	5.83	3.81	.97	.25	.06
1	8-1/2	1018179	1018188	5.00	1.69	1.13	3.75	1.00	2.69	2.38	4.69	6.56	4.53	1.06	.25	.06
1-1/8	9-1/2	1018197	1018204	6.97	1.81	1.25	4.25	1.13	2.91	2.69	5.16	7.47	5.13	1.25	.25	.06
1-1/4	12	1018213	1018222	9.75	2.03	1.38	4.69	1.29	3.25	3.00	5.75	8.25	5.50	1.38	.25	.06
1-3/8	13-1/2	1018231	1018240	13.25	2.25	1.50	5.25	1.42	3.63	3.31	6.38	9.16	6.13	1.50	.25	.13
1-1/2	17	1018259	1018268	17.25	2.38	1.63	5.75	1.54	3.88	3.63	6.88	10.00	6.50	1.62	.25	.13
1-3/4	25	1018277	1018286	29.46	2.88	2.00	7.00	1.84	5.00	4.19	8.86	12.34	7.75	2.25	.25	.13
2	35	1018295	1018302	45.75	3.25	2.25	7.75	2.08	5.75	4.81	9.97	13.68	8.75	2.40	.25	.13

6:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit.



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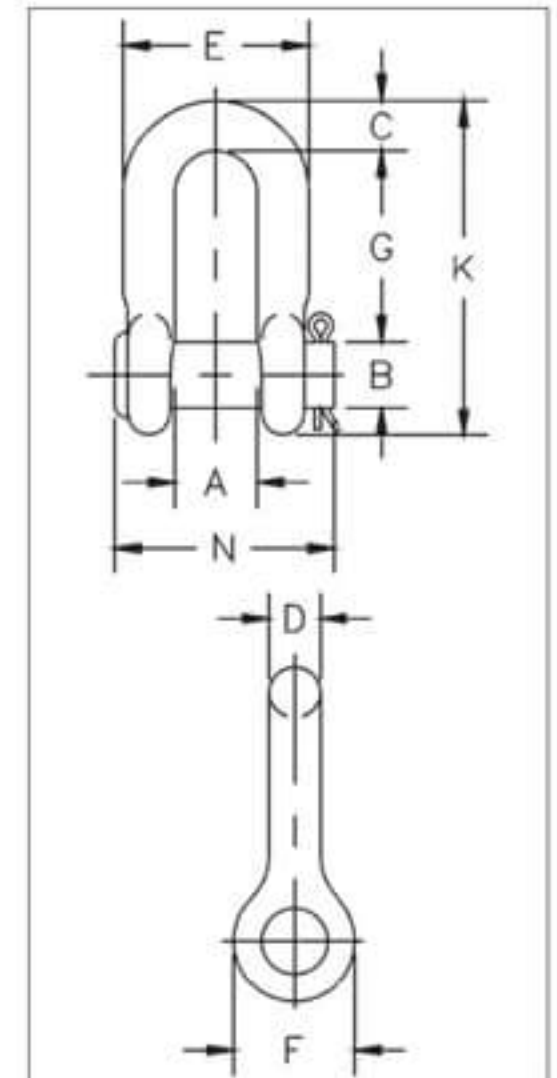


39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

## G-215/S-215



- Forged, Quenched & Tempered, with alloy pins.
- Working Load Limit permanently shown on every shackle.
- Hot-dip galvanized (G) or self colored (S).
- Sizes 3/8 inch and below are mechanically galvanized.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Shackles 25t and larger are RFID equipped.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Charges for proof testing and certification available when requested at the time of order.
- Shackles are Quenched & Tempered and can meet DNV impact requirements of 42 Joules (31 ft-lb) at -20° C (-4° F).
- G-213 Round pin anchor shackles meet the performance requirements of Federal Specification RR-C-271G, Type IVA, Grade A, Class 1, except for those provisions required of the contractor.
- DO NOT SIDE LOAD ROUND PIN SHACKLES.
- Look for the Red Pin®... the mark of genuine Crosby quality.



## G-215 / S-215 Round Pin Chain Shackles

Nominal Size (in)	Working Load Limit (t)	Stock No.		Weight Each (lb)	Dimensions (in)									Tolerance (+/- in)	
		G-215	S-215		A	B	C	D	E	F	G	K	N	G	A
1/4	1/2	1018810	1018829	.10	.47	.31	.25	.25	.97	.62	.91	1.59	1.34	.06	.06
5/16	3/4	1018838	1018847	.18	.53	.38	.31	.31	1.15	.75	1.07	1.91	1.63	.06	.06
3/8	1	1018856	1018865	.25	.66	.44	.38	.38	1.42	.92	1.28	2.31	1.86	.13	.06
7/16	1-1/2	1018874	1018883	.40	.75	.50	.44	.44	1.63	1.06	1.48	2.67	2.13	.13	.06
1/2	2	1018892	1018909	.50	.81	.63	.50	.50	1.81	1.18	1.66	3.03	2.38	.13	.06
5/8	3-1/4	1018918	1018927	1.21	1.06	.75	.63	.63	2.32	1.50	2.04	3.76	2.91	.13	.06
3/4	4-3/4	1018936	1018945	2.00	1.25	.88	.81	.75	2.75	1.81	2.40	4.53	3.44	.25	.06
7/8	6-1/2	1018954	1018963	3.28	1.44	1.00	.97	.88	3.20	2.10	2.86	5.33	3.81	.25	.06
1	8-1/2	1018972	1018981	4.75	1.69	1.13	1.00	1.00	3.69	2.38	3.24	5.94	4.53	.25	.06
1-1/8	9-1/2	1018990	1019007	6.30	1.81	1.25	1.25	1.13	4.07	2.68	3.61	6.78	5.13	.25	.06
1-1/4	12	1019016	1019025	9.00	2.03	1.38	1.38	1.25	4.53	3.00	3.97	7.50	5.50	.25	.13
1-3/8	13-1/2	1019034	1019043	12.00	2.25	1.50	1.50	1.38	5.01	3.31	4.43	8.28	6.13	.25	.13
1-1/2	17	1019052	1019061	16.15	2.38	1.63	1.62	1.50	5.38	3.62	4.87	9.05	6.50	.25	.13
1-3/4	25	1019070	1019089	29.96	2.88	2.00	2.12	1.75	6.38	4.19	5.82	10.97	7.75	.25	.13
2	35	1019098	1019105	43.25	3.25	2.25	2.36	2.10	7.25	5.00	6.82	12.74	8.75	.25	.13

6:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit.



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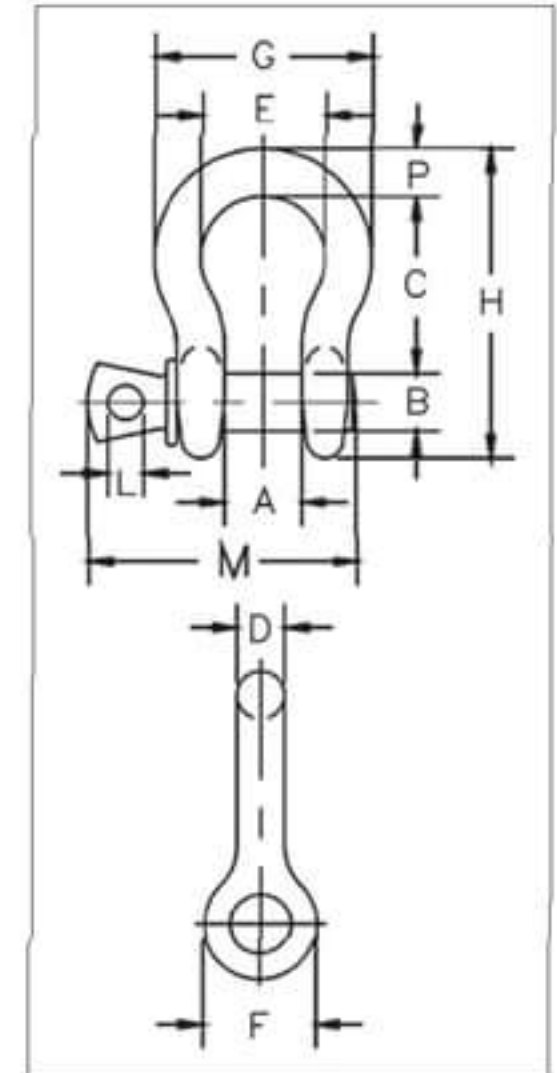


39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

## G-209/S-209



- Meets performance requirements of Grade 6 shackles.
- Forged, Quenched & Tempered, with alloy pins.
- Working Load Limit and Grade 6 permanently shown on every shackle.
- Hot-dip galvanized (G) or self colored (S).
- Sizes 3/8 inch and below are mechanically galvanized.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Shackles 25t and larger are RFID equipped.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Proof testing and certification available when requested at the time of order, charges will apply.
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- All 209 and 210 shackles can meet charpy requirements of 42 Joules (31 ft-lb) avg. at -20° C (-4° F) upon special request.
- Meets or exceeds all requirements of ASME B30.26.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules and ABS Guide for Certification of Lifting Appliances available. Certificates available when requested at time of order and may include additional charges.
- G-209 Screw pin anchor shackles meet the performance requirements of Federal Specification RR-C-271G, Type IVA, Grade A, Class 2, except for those provisions required of the contractor.
- Look for the Red Pin®... the mark of genuine Crosby quality.



## G-209 / S-209 Screw Pin Anchor Shackles

Nominal Size (in)	Working Load Limit (t)	Stock No.		Weight Each (lb)	Dimensions (in)												Tolerance (+ / - in)	
		G-209	S-209		A	B	C	D	E	F	G	H	L	M	P	C	A	
3/16	1/3	1018357	-	.06	.38	.25	.88	.19	.60	.56	.98	1.47	.16	1.14	.19	.06	.06	
1/4	1/2	1018375	1018384	.10	.47	.31	1.13	.25	.78	.62	1.28	1.84	.19	1.43	.25	.06	.06	
5/16	3/4	1018393	1018400	.18	.53	.38	1.21	.31	.84	.75	1.46	2.09	.22	1.71	.31	.06	.06	
3/8	1	1018419	1018428	.31	.66	.44	1.45	.38	1.03	.92	1.79	2.50	.25	2.06	.38	.13	.06	
7/16	1-1/2	1018437	1018446	.38	.75	.50	1.69	.44	1.16	1.06	2.04	2.91	.31	2.37	.44	.13	.06	
1/2	2	1018455	1018464	.72	.81	.62	1.88	.50	1.31	1.18	2.31	3.28	.38	2.69	.50	.13	.06	
5/8	3-1/4	1018473	1018482	1.37	1.06	.75	2.38	.62	1.69	1.50	2.93	4.19	.44	3.34	.69	.13	.06	
3/4	4-3/4	1018491	1018507	2.35	1.25	.88	2.81	.75	2.00	1.81	3.50	4.97	.50	3.97	.81	.25	.06	
7/8	6-1/2	1018516	1018525	3.62	1.44	1.00	3.31	.88	2.28	2.10	4.04	5.83	.50	4.50	.97	.25	.06	
1	8-1/2	1018534	1018543	5.03	1.69	1.12	3.76	1.00	2.69	2.38	4.69	6.56	.56	5.13	1.06	.25	.06	
1-1/8	9-1/2	1018552	1018561	7.41	1.81	1.25	4.27	1.16	2.91	2.68	5.15	7.47	.63	5.97	1.25	.25	.06	
1-1/4	12	1018570	1018589	9.50	2.03	1.38	4.69	1.29	3.26	3.00	5.76	8.26	.69	6.50	1.38	.25	.06	
1-3/8	13-1/2	1018598	1018605	13.53	2.25	1.53	5.22	1.42	3.62	3.31	6.38	9.16	.75	6.93	1.50	.25	.13	
1-1/2	17	1018614	1018623	17.20	2.38	1.63	5.76	1.53	3.88	3.62	6.94	10.00	.81	7.43	1.62	.25	.13	
1-3/4	25	1018632	1018641	27.78	2.88	2.00	7.00	1.84	5.00	4.19	8.80	12.34	1.00	9.19	2.25	.25	.13	
2	35	1018650	1018669	45.00	3.25	2.25	7.75	2.08	5.75	4.81	10.15	13.68	1.13	10.36	2.40	.25	.13	
2-1/2	55	1018676	1018687	85.75	4.12	2.75	10.51	2.72	7.25	5.81	12.75	17.92	1.38	13.17	3.13	.25	.25	

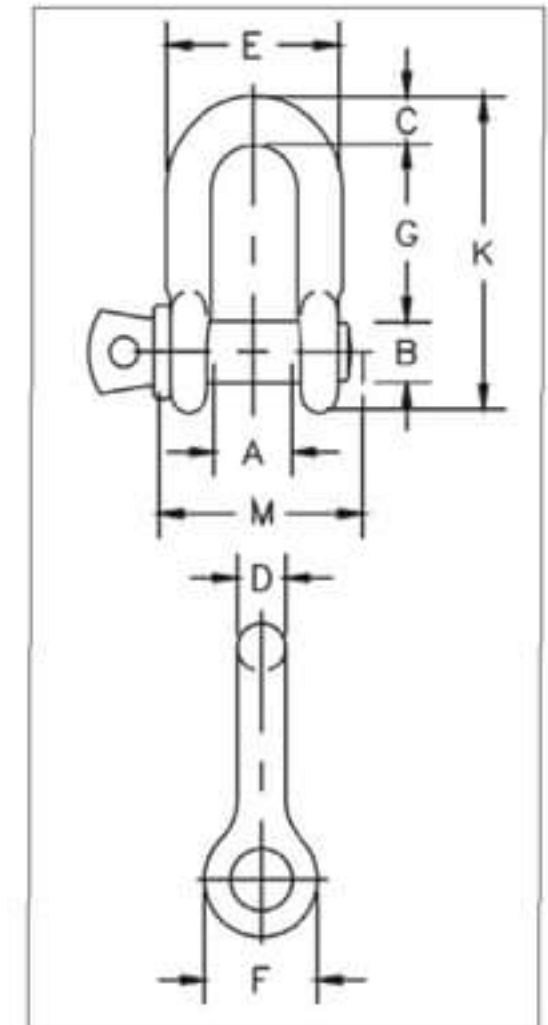
6:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. For Working Load Limit reduction due to side loading applications, see Warnings & Applications.



## G-210 / S-210



- Forged, Quenched & Tempered, with alloy pins.
- Working Load Limit and Grade 6 permanently shown on every shackle.
- Hot-dip galvanized (G) or self colored (S).
- Sizes 3/8 inch and below are mechanically galvanized.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Shackles 25t and larger are RFID equipped.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Proof testing and certification available when requested at the time of order, charges will apply.
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- All 209 and 210 shackles can meet charpy requirements of 42 Joules (31 ft-lb) avg. at -20° C (-4° F) upon special request.
- Meets or exceeds all requirements of ASME B30.26.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules and ABS Guide for Certification of Lifting Appliances available. Certificates available when requested at time of order and may include additional charges.
- G-210 Screw pin anchor shackles meet the performance requirements of Federal Specification RR-C-271G, Type IVB, Grade A, Class 2, except for those provisions required of the contractor.
- Look for the Red Pin®... the mark of genuine Crosby quality.



## G-210 / S-210 Screw Pin Chain Shackles

Nominal Size (in)	Working Load Limit (t)	Stock No.		Weight Each (lb)	Dimensions (in)											Tolerance (+/- in)	
		G-210	S-210		A	B	C	D	E	F	G	K	L	M	G	A	
1/4	1/2	1019150	1019169	.11	.47	.31	.25	.25	.97	.62	.97	1.59	.19	1.43	.06	.06	
5/16	3/4	1019178	1019187	.17	.53	.38	.31	.31	1.15	.75	1.07	1.91	.22	1.71	.06	.06	
3/8	1	1019196	1019203	.28	.66	.44	.38	.38	1.42	.92	1.28	2.31	.25	2.02	.13	.06	
7/16	1-1/2	1019212	1019221	.43	.75	.50	.44	.44	1.63	1.06	1.48	2.67	.31	2.37	.13	.06	
1/2	2	1019230	1019249	.59	.81	.63	.50	.50	1.81	1.18	1.66	3.03	.38	2.69	.13	.06	
5/8	3-1/4	1019258	1019267	1.25	1.06	.75	.63	.63	2.32	1.50	2.04	3.76	.44	3.34	.13	.06	
3/4	4-3/4	1019276	1019285	2.63	1.25	.88	.81	.75	2.75	1.81	2.40	4.53	.50	3.97	.25	.06	
7/8	6-1/2	1019294	1019301	3.16	1.44	1.00	.97	.88	3.20	2.10	2.86	5.33	.50	4.50	.25	.06	
1	8-1/2	1019310	1019329	4.75	1.69	1.13	1.00	1.00	3.69	2.38	3.24	5.94	.56	5.13	.25	.06	
1-1/8	9-1/2	1019338	1019347	6.75	1.81	1.25	1.25	1.13	4.07	2.69	3.61	6.78	.63	5.71	.25	.06	
1-1/4	12	1019356	1019365	9.06	2.03	1.38	1.38	1.25	4.53	3.00	3.97	7.50	.69	6.25	.25	.13	
1-3/8	13-1/2	1019374	1019383	11.63	2.25	1.50	1.50	1.38	5.01	3.31	4.43	8.28	.75	6.53	.25	.13	
1-1/2	17	1019392	1019409	15.95	2.38	1.63	1.62	1.50	5.38	3.62	4.87	9.05	.81	7.33	.25	.13	
1-3/4	25	1019418	1019427	26.75	2.88	2.00	2.12	1.75	6.38	4.19	5.78	10.97	1.00	9.06	.25	.13	
2	35	1019436	1019445	42.31	3.25	2.25	2.36	2.10	7.25	5.00	6.77	12.74	1.13	10.35	.25	.13	
2-1/2	55	1019454	1019463	71.75	4.12	2.75	2.63	2.63	9.38	5.68	8.07	14.85	1.38	13.00	.25	.25	

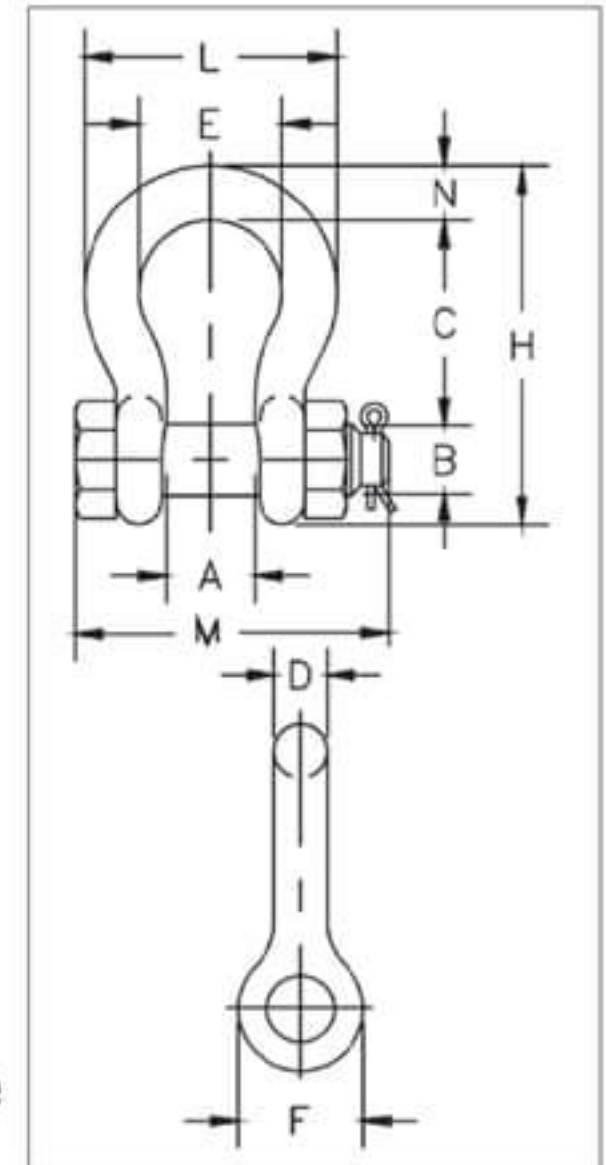
6:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. For Working Load Limit reduction due to side loading applications, see Warnings & Applications.



## G-2130 / S-2130



- Working Load Limit and Grade 6 permanently shown on every shackle.
- Forged, Quenched & Tempered, with alloy bolts.
- Hot-dip galvanized (G) or self colored (S). 85, 120, and 150-metric ton shackles are all hot-dip galvanized bows and the bolts are Dimetcoated® and painted red.
- Sizes 3/8 and below are mechanically galvanized.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit (1/3t - 55t).
- Shackles 25t and larger are RFID equipped.
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- Meets or exceeds all requirements of ASME B30.26.
- Shackles 85 metric tons and larger are individually proof tested to 2.0 times the working load limit.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules ABS Guide for Certification of Lifting Appliances available. Certificates available when requested at time of order and may include additional charges.
- 3.1 Certification as standard available for charpy and statistical proof test from 3.25t up to 25 tons to DNV 2.7-1 and EN13889.
- Crosby 3.25t through 25t G-2130OC anchor shackles are type approved to DNV Certification Notes 2.7-1-Offshore Containers. These Crosby shackles are statistical proof and impact tested to 42 Joules (31 ft-lb) min. avg. at -20° C (-4° F). The tests are conducted by Crosby and 3.1 test certification is available upon request.
- All other 2130 shackles can meet charpy requirements of 42 Joules (31 ft-lb) avg at -20° C (-4° F) when requested at time of order.
- Meets the performance requirements of Federal Specification RR-C-271G, Type IVA, Grade A, Class 3, except for those provisions required of the contractor.
- Look for the Red Pin®... the mark of genuine Crosby quality.



## G-2130 / S-2130 Bolt Type Anchor Shackles

Nominal Size (in)	Working Load Limit (t)	Stock No.			Weight Each (lb)	Dimensions (in)											Tolerance (+/- in)	
		G-2130	S-2130	G-2130OC		A	B	C	D	E	F	H	L	M	N	C	A	
3/16	1/3 ‡	1019464	-	-	.06	.38	.25	.88	.19	.60	.56	1.47	.98	1.29	.19	.06	.06	
1/4	1/2	1019466	-	-	.11	.47	.31	1.13	.25	.78	.61	1.84	1.28	1.56	.25	.06	.06	
5/16	3/4	1019468	-	-	.22	.53	.38	1.22	.31	.84	.75	2.09	1.47	1.82	.31	.06	.06	
3/8	1	1019470	-	-	.33	.66	.44	1.44	.38	1.03	.91	2.49	1.78	2.17	.38	.13	.06	
7/16	1-1/2	1019471	-	-	.49	.75	.50	1.69	.44	1.16	1.06	2.91	2.03	2.51	.44	.13	.06	
1/2	2	1019472	1019481	-	.79	.81	.64	1.88	.50	1.31	1.19	3.28	2.31	2.80	.50	.13	.06	
5/8	3-1/4	1019490	1019506	1262013	1.68	1.06	.77	2.38	.63	1.69	1.50	4.19	2.94	3.56	.69	.13	.06	
3/4	4-3/4	1019515	1019524	1262022	2.72	1.25	.89	2.81	.75	2.00	1.81	4.97	3.50	4.15	.81	.25	.06	
7/8	6-1/2	1019533	1019542	1262031	3.95	1.44	1.02	3.31	.88	2.28	2.09	5.83	4.03	4.82	.97	.25	.06	
1	8-1/2	1019551	1019560	1262040	5.66	1.69	1.15	3.75	1.00	2.69	2.38	6.56	4.69	5.39	1.06	.25	.06	
1-1/8	9-1/2	1019579	1019588	1262059	8.27	1.81	1.25	4.25	1.13	2.91	2.69	7.47	5.16	5.90	1.25	.25	.06	
1-1/4	12	1019597	1019604	1262068	11.71	2.03	1.40	4.69	1.29	3.25	3.00	8.25	5.75	6.69	1.38	.25	.06	
1-3/8	13-1/2	1019613	1019622	1262077	15.83	2.25	1.53	5.25	1.42	3.63	3.31	9.16	6.38	7.21	1.50	.25	.13	
1-1/2	17	1019631	1019640	1262086	19.00	2.38	1.66	5.75	1.53	3.88	3.63	10.00	6.88	7.73	1.62	.25	.13	
1-3/4	25	1019659	1019668	1262095	33.91	2.88	2.04	7.00	1.84	5.00	4.19	12.34	8.80	9.68	2.25	.25	.13	
2	35	1019677	1019686	-	52.25	3.25	2.30	7.75	2.08	5.75	4.81	13.68	10.15	10.81	2.40	.25	.13	
2-1/2	55	1019695	1019702	-	98.25	4.13	2.80	10.50	2.71	7.25	5.69	17.90	12.75	13.58	3.13	.25	.25	
3	† 85	1019711	-	-	154.00	5.00	3.30	13.00	3.12	7.88	6.50	21.50	14.62	15.13	3.62	.25	.25	
3-1/2	† 120 ‡	1019739	-	-	265.00	5.25	3.76	14.63	3.62	9.00	8.00	24.88	17.02	17.00	4.38	.25	.25	
4	† 150 ‡	1019757	-	-	338.00	5.50	4.26	14.50	4.00	10.00	9.00	25.68	18.00	17.75	4.56	.25	.25	

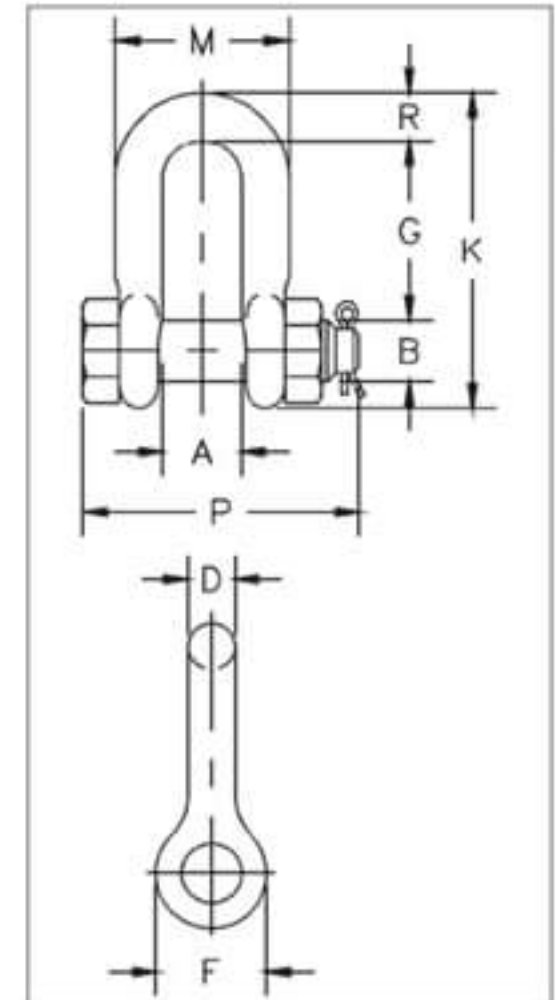
6:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. For Working Load Limit reduction due to side loading applications, see Warnings & Applications.  
 † Individually Proof Tested with certification. ‡ Furnished with eye bolts for handling.



## G-2150 / S-2150



- Working Load Limit and Grade 6 permanently shown on every shackle.
- Forged, Quenched & Tempered, with alloy pins.
- Hot-dip galvanized (G) or self-colored (S). 85 ton shackles have hot-dip galvanized bows and the bolts are Dimetcoated® and painted red.
- Sizes 3/8 inch and below are mechanically galvanized.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit. (1/2t - 55t).
- Shackles 25t and larger are RFID equipped.
- Approved for use at -40° C (-40 degrees F) to 204° C (400° F).
- Meets or exceeds all requirements of ASME B30.26.
- Sizes 1/2 - 25t meet the performance requirements of EN13889:2003.
- Shackles 55 metric tons and smaller can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification when requested at time of order.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules and 2016 ABS Guide for Certification of Lifting Appliance. Certificates available when requested at time of order and may include additional charges.
- Meets the performance requirements of Federal Specification RR-C-271G, Type IVB, Grade A, Class 3, except for those provisions required of the contractor.
- All 2150 shackles can meet charpy requirements of 42 Joules (31 ft-lb) avg at -20° C (-4° F) upon special request.
- Look for the Red Pin®... the mark of genuine Crosby quality.



## G-2150 / S-2150 Bolt Type Chain Shackles

Nominal Size (in)	Working Load Limit (t)†	Stock No.		Weight Each (lb)	Dimensions (in)										Tolerance (+/- in)	
		G-2150	S-2150		A	B	D	F	G	K	M	P	R	G	A	
1/4	1/2	1019768	-	.13	.47	.31	.25	.62	.91	1.59	.97	1.56	.25	.06	.06	
5/16	3/4	1019770	-	.23	.53	.38	.31	.75	1.07	1.91	1.15	1.82	.31	.06	.06	
3/8	1	1019772	-	.33	.66	.44	.38	.92	1.28	2.31	1.42	2.17	.38	.13	.06	
7/16	1-1/2	1019774	-	.49	.75	.50	.44	1.06	1.48	2.67	1.63	2.51	.44	.13	.06	
1/2	2	1019775	1019784	.75	.81	.64	.50	1.18	1.66	3.03	1.81	2.80	.50	.13	.06	
5/8	3-1/4	1019793	1019800	1.47	1.06	.77	.63	1.50	2.04	3.76	2.32	3.56	.63	.13	.06	
3/4	4-3/4	1019819	1019828	2.52	1.25	.89	.75	1.81	2.40	4.53	2.75	4.15	.81	.25	.06	
7/8	6-1/2	1019837	1019846	3.85	1.44	1.02	.88	2.10	2.86	5.33	3.20	4.82	.97	.25	.06	
1	8-1/2	1019855	1019864	5.55	1.69	1.15	1.00	2.38	3.24	5.94	3.69	5.39	1.00	.25	.06	
1-1/8	9-1/2	1019873	1019882	7.60	1.81	1.25	1.13	2.68	3.61	6.78	4.07	5.90	1.25	.25	.06	
1-1/4	12	1019891	1019908	10.81	2.03	1.40	1.25	3.00	3.97	7.50	4.53	6.69	1.38	.25	.06	
1-3/8	13-1/2	1019917	1019926	13.75	2.25	1.53	1.38	3.31	4.43	8.28	5.01	7.21	1.50	.25	.13	
1-1/2	17	1019935	1019944	17.01	2.38	1.66	1.50	3.62	4.87	9.05	5.38	7.73	1.62	.25	.13	
1-3/4	25	1019953	1019962	31.40	2.88	2.04	1.75	4.19	5.82	10.97	6.38	9.33	2.12	.25	.13	
2	35	1019971	1019980	46.75	3.25	2.30	2.10	5.00	6.82	12.74	7.25	10.41	2.36	.25	.13	
2-1/2	55	1019999	1020004	85.00	4.12	2.80	2.63	5.68	8.07	14.85	9.38	13.58	2.63	.25	.25	
3	† 85	1020013	-	124.25	5.00	3.25	3.00	6.50	8.56	16.87	11.00	15.13	3.50	.25	.25	

6:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. For Working Load Limit reduction due to side loading applications, see Warnings & Applications.  
 † Individually Proof Tested with certification.

Load Rated

Fatigue Rated

TA

QUIC-CHECK

Q&T

MAXTOUGH



CE

APPLICATION AND WARNING INFORMATION SECTION 17



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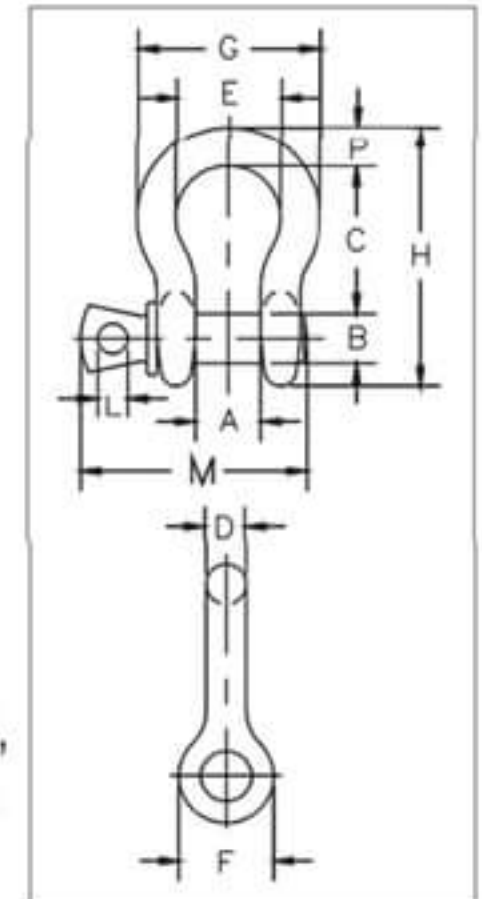


39/1 MOO 2 BANGPOOD, PAKKRED  
NONHABURI III20, THAILAND

**G-209A**  
Grade 8



- Forged alloy steel, Quenched & Tempered, with alloy pins.
- Meets performance requirements of Grade 8 shackles.
- Working Load Limit permanently shown on every shackle.
- Hot-dip galvanized.
- Sizes 3/8 inch and below are mechanically galvanized.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Charges for proof testing and certification available when requested at the time of order.
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these shackles meet other critical performance requirements including impact properties and material traceability, not addressed by ASME B30.26.
- G-209A Screw pin anchor shackles meet the performance requirements of Federal Specification RR-C-271G, Type IVA, Grade B, Class 2, except for those provisions required of the contractor.



**G-209A Alloy Screw Anchor Pin Shackles**



APPLICATION AND WARNING INFORMATION  
SECTION 17

Nominal Size (in)	Working Load Limit (t)	Stock No.	Weight Each (lb)	Dimensions (in)												Tolerance (+/- in)	
				A	B	C	D	E	F	G	H	L	M	P	C	A	
3/8	2	1017450	.31	.66	.44	1.44	.38	1.03	.91	1.78	2.49	.25	2.03	.38	.13	.06	
7/16	2-2/3	1017472	.38	.75	.50	1.69	.44	1.16	1.06	2.03	2.91	.31	2.38	.44	.13	.06	
1/2	3-1/3	1017494	.63	.81	.63	1.88	.50	1.31	1.19	2.31	3.28	.38	2.69	.50	.13	.06	
5/8	5	1017516	1.38	1.06	.75	2.38	.63	1.69	1.50	2.94	4.19	.44	3.34	.69	.13	.06	
3/4	7	1017538	2.35	1.25	.88	2.81	.75	2.00	1.81	3.50	4.97	.50	3.97	.81	.25	.06	
7/8	9-1/2	1017560	3.61	1.44	1.00	3.31	.88	2.28	2.09	4.03	5.83	.50	4.50	.97	.25	.06	
1	12-1/2	1017582	5.32	1.69	1.13	3.75	1.00	2.69	2.38	4.69	6.56	.56	5.07	1.06	.25	.06	
1-1/8	15	1017604	7.25	1.81	1.25	4.25	1.16	2.91	2.69	5.16	7.47	.63	5.59	1.25	.25	.06	
1-1/4	18	1017626	9.88	2.03	1.38	4.69	1.29	3.25	3.00	5.75	8.25	.69	6.16	1.38	.25	.06	
1-3/8	21	1017648	13.25	2.25	1.50	5.25	1.42	3.63	3.31	6.38	9.16	.75	6.84	1.50	.25	.13	

4.5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit (metric tons) and 2.2 times the Working Load Limit (short tons). For Working Load Limit reduction due to side loading applications, see Warnings & Applications.



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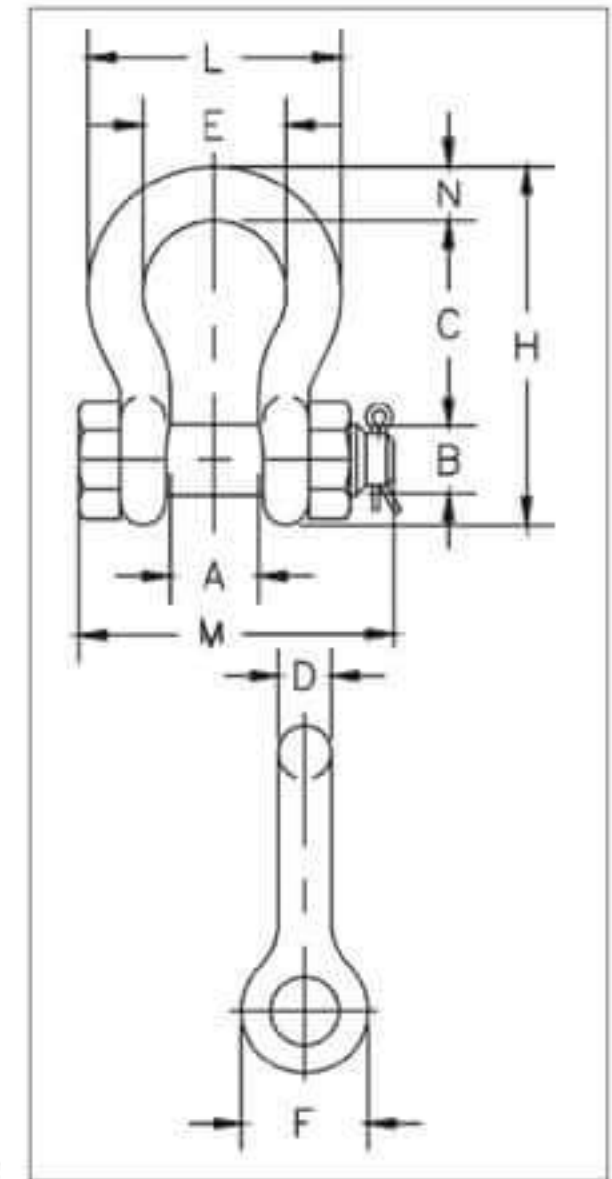


39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

**G-2130A**  
Grade 8



- Forged alloy steel, Quenched & Tempered, with bow and bolt.
- Meets or exceeds all requirements of Grade 8 shackles.
- Working Load Limit permanently shown on every shackle.
- Hot-dip galvanized.
- Shackles can be RFID equipped.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, G-2130A meet other critical performance requirements, including impact properties, and material traceability not addressed by ASME B30.26.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification when requested at time of order.
- Type Approval and certification in accordance with DNV 2.7-1 offshore containers.
- Shackles are Quenched & Tempered and meet DNV impact requirements of 42 Joules (31 ft-lb) at -40° C (-40° F).
- G-2130A Bolt Type Anchor shackles with thin head bolt – nut with cotter pin. Meets the performance requirements of Federal Specification RR-C-271G, Type IVA, Grade B, Class 3, except for those provisions required of the contractor.



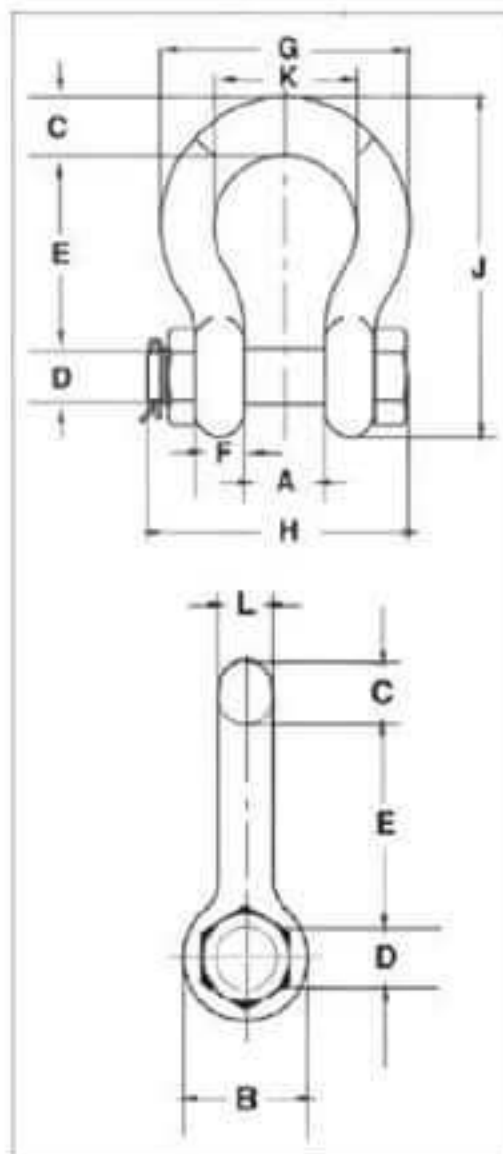
## G-2130A Alloy Bolt Type Anchor Shackles Grade 8

Nominal Size (in)	Working Load Limit (t)*	Stock No.	Weight Each (lb)	Dimensions (in)										Tolerance (+ / - in)	
				A	B	C	D	E	F	H	L	M	N	C	A
1/2	2	1219472	.79	.81	.63	1.88	0.50	1.31	1.19	3.29	2.30	2.80	0.50	0.13	0.06
5/8	3.25	1219491	1.37	1.06	.75	2.38	0.63	1.69	1.50	4.18	2.94	3.56	0.69	0.25	0.06
3/4	4.75	1219516	2.71	1.25	.88	2.82	0.75	2.01	1.81	4.96	3.51	4.15	0.81	0.25	0.06
7/8	6.5	1219534	3.95	1.44	1.00	3.31	0.88	2.29	2.09	5.83	4.02	4.82	0.97	0.25	0.06
1	8.5	1219552	5.03	1.69	1.10	3.76	1.00	2.70	2.38	6.58	4.69	5.39	1.06	0.25	0.06
1-1/8	9.5	1219578	8.27	1.81	1.25	4.26	1.13	2.92	2.70	7.49	5.16	5.90	1.25	0.25	0.06
1-1/4	12	1219598	11.7	2.03	1.38	4.69	1.25	3.25	2.99	8.27	5.75	6.69	1.38	0.25	0.06
1-3/8	13.5	1219614	15.8	2.25	1.50	5.24	1.38	3.62	3.31	9.18	6.38	7.21	1.50	0.25	0.13
1-1/2	17	1219632	19.0	2.38	1.63	5.75	1.50	3.88	3.62	10.0	6.90	7.73	1.62	0.25	0.13

8:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. For Working Load Limit reduction due to side loading applications, see Warnings & Applications..



## G-2140 / S-2140



- Quenched & Tempered.
- Alloy bows, alloy bolts.
- Forged alloy steel 2 through 250 metric tons. Cast alloy steel 400 metric tons.
- Meets performance requirements of Grade 8 shackles.
- Working Load Limit is permanently shown on every shackle.
- 30, 40, 55, and 85 metric ton shackle bows are available galvanized (G) or self colored (S) with bolts that are galvanized and painted red.
- Sizes 3/8 inch and below are mechanically galvanized.
- 120, 150, 175 metric ton shackle bows are hot-dip galvanized; bolts are Dimetcoated and painted red.
- 200, 250, 300, 400 metric ton shackle bows are Dimetcoated; bolts are Dimetcoated and painted red.
- Sizes 1-1/2 and larger are RFID equipped.
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- Shackles are Quenched & Tempered and can meet DNV impact requirements of 42 Joules (31 ft-lb) at -20° C (-4° F).
- Crosby COLD TUFF® shackles that meet the additional requirements of DNV rules for certification of lifting applications - loose gear are available.
- Shackles 200 metric tons and larger are provided as follows:
  - Serialized bolt and bow
  - Material certification (chemical)
  - Magnetic particle inspected.
  - Certification must be requested at time of order.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. 2140 shackles meet other critical performance requirements including impact properties and material traceability, not addressed by ASME B30.26.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules and 2016 ABS Guide for Certification of Lifting Appliances. Certificates are available when requested at time of order and may include additional charges.
- G-2140 meets the performance requirements of Federal Specification RR-C-271G, Type IVA, Grade B, Class 3, except for those provisions required of the contractor. For additional information, see Warnings & Applications.
- Look for the Red Pin®... the mark of genuine Crosby quality.

### G-2140 / S-2140 Alloy Bolt Type Anchor Shackles

Nominal Shackle Size (in)	Working Load Limit (t)	Stock No.			Weight Each (lb)	Dimensions (in)														Tolerance (+/- in)		
		G-2140	S-2140	G-2140 OC		A	B	C	D	E	F	G	H	J	K	L	M	N	A	D	E	
3/8	2	1021015	-	-	0.33	0.66	0.91	0.38	0.44	1.44	0.38	1.78	2.17	2.49	1.03	0.38	-	-	0.06	0.01	0.13	
7/16	2 2/3	1021020	-	-	0.49	0.75	1.06	0.44	0.50	1.69	0.41	2.03	2.51	2.91	1.16	0.44	-	-	0.06	0.01	0.13	
1/2	3 1/3	1021029	-	-	0.79	0.81	1.19	0.50	0.64	1.88	0.46	2.31	2.80	3.28	1.31	0.50	-	-	0.06	0.02	0.13	
5/8	5	1021038	-	-	1.68	1.06	1.50	0.69	0.77	2.38	0.58	2.94	3.56	4.19	1.69	0.63	-	-	0.06	0.02	0.13	
3/4	7	1021047	-	-	2.72	1.25	1.81	0.81	0.89	2.81	0.69	3.50	4.15	4.97	2.00	0.75	-	-	0.06	0.02	0.25	
7/8	9-1/2	1021056	-	-	3.95	1.44	2.09	0.97	1.02	3.31	0.81	4.03	4.82	5.83	2.28	0.88	-	-	0.06	0.02	0.25	
1	12-1/2	1021065	-	-	5.66	1.69	2.38	1.06	1.15	3.75	0.92	4.69	5.39	6.56	2.69	1.00	-	-	0.06	0.02	0.25	
1-1/8	15	1021074	-	-	8.27	1.81	2.69	1.25	1.25	4.25	1.04	5.16	5.90	7.47	2.91	1.13	-	-	0.06	0.02	0.25	
1-1/4	18	1021083	-	-	11.7	2.03	3.00	1.38	1.40	4.69	1.16	5.75	6.69	8.25	3.25	1.29	-	-	0.06	0.03	0.25	
1-3/8	21	1021092	-	-	15.8	2.25	3.31	1.50	1.53	5.25	1.28	6.38	7.21	9.16	3.63	1.42	-	-	0.13	0.03	0.25	
1-1/2	30	1021110	1021129	1262407	18.8	2.38	3.62	1.62	1.63	5.75	1.39	6.88	7.73	10.00	3.88	1.53	-	-	0.13	0.03	0.25	
1-3/4	40	1021138	1021147	1262416	33.8	2.88	4.19	2.25	2.00	7.00	1.75	8.81	9.33	12.34	5.00	1.84	-	-	0.13	0.03	0.25	
2	55	1021156	1021165	1262425	49.9	3.25	4.81	2.40	2.25	7.75	2.00	10.16	10.41	13.68	5.75	2.08	-	-	0.13	0.03	0.25	
2-1/2	85	1021174	1021183	1262434	103	4.12	5.81	3.12	2.75	10.50	2.62	12.75	13.68	17.90	7.25	2.71	-	-	0.25	0.03	0.25	
3	120	1021192	-	1262443	162	5.00	6.50	3.63	3.25	13.00	3.00	14.62	15.13	21.50	7.88	3.12	-	-	0.25	0.04	0.25	
3-1/2	† 150	1021218	-	1262452	265	5.25	8.00	4.38	3.75	14.63	3.75	17.02	20.33	24.88	9.00	3.62	4.00	1.80	0.25	0.01	0.25	
4	† 175	1021236	-	1262461	318	5.50	9.00	4.56	4.25	14.50	4.00	18.00	21.20	25.68	10.00	4.00	4.00	1.80	0.25	0.01	0.25	
4-3/4	† 200	1021234	-	-	461	7.25	10.50	5.00	4.75	15.19	4.58	20.84	24.04	27.81	11.00	4.75	4.00	1.80	0.25	0.01	0.25	
5	† 250	1021243	-	-	608	8.50	12.00	5.62	5.00	18.50	4.85	23.62	24.87	32.61	13.00	5.00	4.00	1.80	0.25	0.01	0.25	
6	† 300	1021252	-	-	797	8.38	13.00	6.06	6.00	18.72	4.89	24.76	26.22	34.28	13.00	5.88	4.00	1.80	0.25	0.01	0.25	
7*	† 400	1021478	-	-	1289	8.25	14.00	7.25	7.00	22.50	6.50	26.00	29.66	40.25	13.00	6.00	4.00	1.80	0.25	0.01	0.25	

4.5:1 Design Factor for sizes 2 through 21 metric tons, 5.4:1 Design Factor for sizes 30 through 175 metric tons, 4:1 Design Factor for 200 through 400 metric tons. Maximum Proof Load is 2 times the Working Load Limit. \*Cast alloy steel. †Furnished with round head bolts with a handle. For Working Load Limit reduction due to side loading applications, see Warnings & Applications.



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# EYE BOLT

JIS B 1168-1994

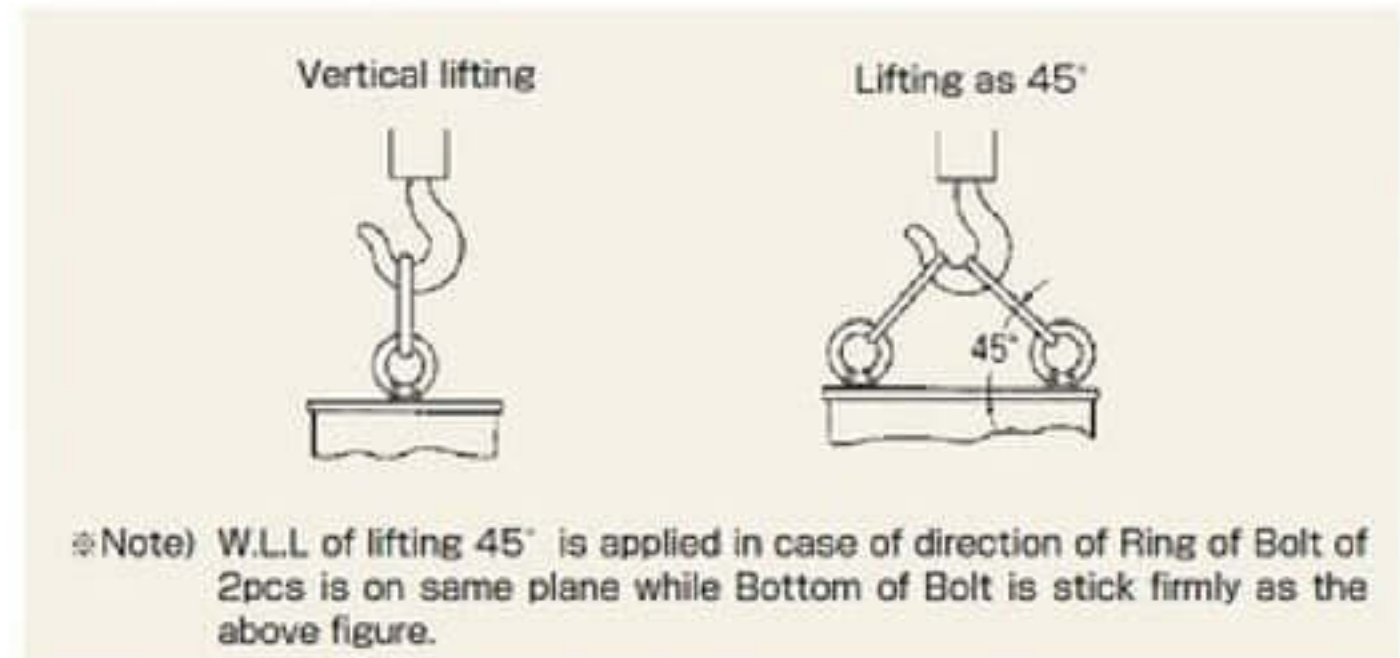
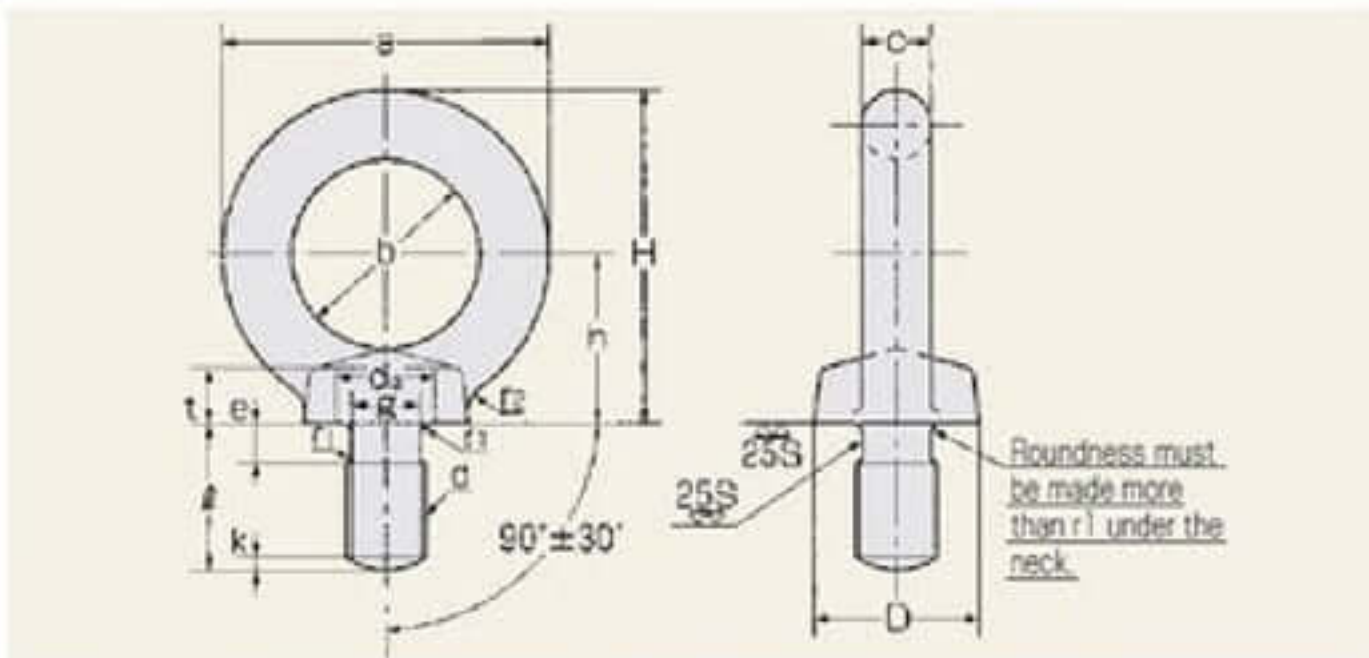


Un-Galvanized

Galvanized

Specification	
Material	Steel (SS400) Stainless Steel (SUS304)
Surface Treatment	Steel (Un-galvanized, Galvanized, Yellow zinc plated, Hot dipped galvanized)

※We can also produce except below # size.  
Please ask us if necessary.



## Size Table of Eye Bolt

Screws Size (d)		a	b	c	D	t	h	H	l	e	g	r <sub>1</sub>	d <sub>1</sub>	r <sub>2</sub>	k	W.L.L		Weight (kg) (about)
M Screw	W Screw	Vertical Lifting or Lifting 45° by 2pcs																
																M Screw	W Screw	
																kN (kgf)	kN (kgf)	
(6)	(1/4)	26	16	5.8	13.5	6	14	27	14	2	4.5	0.8	7.1	2	1	0.588 (60)		0.016
8	5/16	32.6	20	6.3	16	5	17	33.3	15	3	6	1	9.2	4	1.2	0.785 (80)		0.03
10	3/8	41	25	8	20	7	21	41.5	18	4	7.7	1.2	11.2	4	1.5	1.47 (150) 1.37 (140)		0.06
12	1/2	50	30	10	25	9	26	51	22	5	9.4	1.4	14.2	6	2	2.16 (220) 2.16 (220)		0.12
16	5/8	60	35	12.5	30	11	30	60	27	5	13	1.6	18.2	6	2	4.41 (450) 3.92 (400)		0.22
20	3/4	72	40	16	35	13	35	71	30	6	16.4	2	22.4	8	2.5	6.18 (630) 5.88 (600)		0.39
(22)	(7/8)	80	44	19	40	16.5	43	84	35	7	18.5	2.3	24.4	10	2.5	7.74 (790) 7.84 (800)		0.56
24	1"	90	50	20	45	18	45	90	38	8	19.6	2.5	26.4	12	3	9.32 (950) 9.32 (950)		0.80
30	1 1/4	110	60	25	60	22	55	110	45	8	25	3	33.4	15	3.5	14.7 (1500) 14.7 (1500)		1.56
36	1 1/2	133	70	31.5	70	26	65	131.5	55	10	30.3	3	39.4	18	4	22.6 (2300) 22.6 (2300)		2.90
42	1 3/4	151	80	35.5	80	30	75	150.5	65	12	35.6	3.5	45.6	20	4.5	33.3 (3400) 33.3 (3400)		4.40
48	2"	170	90	40	90	35	85	170	70	12	41	4	52.6	22	5	44.1 (4500) 44.1 (4500)		6.10
64	2 1/2	210	110	50	110	42	105	210	90	14	55.7	5	71	25	6	88.3 (9000) 88.3 (9000)		11.50
80	3"	266	130	63	130	50	130	263	105	14	71	5	87	35	6	147 (15000) 127 (13000)		26.25
90		302	150	74	150	55	150	301	120	14	81	5	97	35	6	177 (18000) 167 (17000)		46.00
100	4"	340	170	80	170	60	165	335	130	14	91	5	108	40	6	196 (20000) 196 (20000)		49.00

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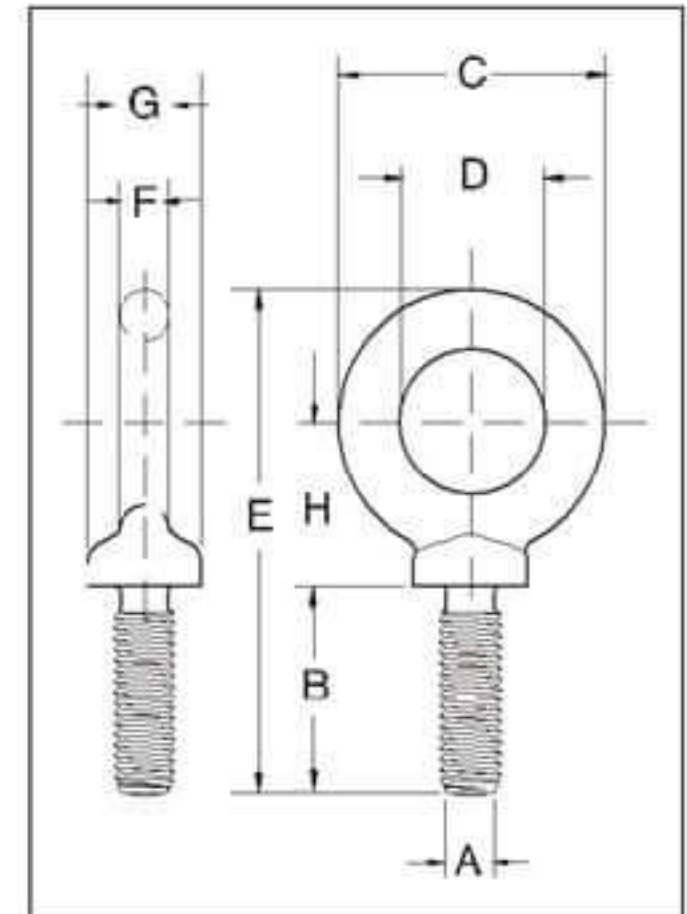
# EYE BOLT



S-279 / M-279



- Forged steel - Quenched & Tempered.
- Working Load Limits shown are for in-line pull. For angle loading, see Warnings & Applications.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Recommended for in-line pull.
- S-279 threaded UNC.
- M-279 metric threaded.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these bolts meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



## S-279 UNC Shoulder Type Machinery Eye Bolts

Size (in)	Stock No.	Working Load Limit (lb)	Weight Per 100 (lb)	Dimensions (in)							
				A* Thread	B	C	D	E	F	G	H
1/4 x 1	9900182	650	5.00	1/4 - 20	1.02	1.13	.75	2.29	.19	.53	.77
5/16 x 1-1/8	9900191	1200	9.00	5/16 - 18	1.15	1.38	.88	2.74	.25	.59	.95
3/8 x 1-1/4	9900208	1550	15.00	3/8 - 16	1.27	1.62	1.00	3.07	.31	.69	1.05
1/2 x 1-1/2	9900217	2600	28.00	1/2 - 13	1.53	1.95	1.19	3.70	.38	.91	1.27
5/8 x 1-3/4	9900226	5200	55.00	5/8 - 11	1.79	2.38	1.38	4.45	.50	1.13	1.53
3/4 x 2	9900235	7200	96.00	3/4 - 10	2.05	2.76	1.50	5.07	.63	1.38	1.71
7/8 x 2-1/4	9900244	10600	154.00	7/8 - 9	2.31	3.25	1.75	5.87	.75	1.56	2.00
1 x 2-1/2	9900253	13300	238.00	1 - 8	2.57	3.76	2.00	6.66	.88	1.81	2.30
1-1/8 x 2-3/4	9900257	15000	320.00	1-1/8 - 7	2.75	4.19	2.25	7.20	.97	2.06	2.35
1-1/4 x 3	9900262	21000	399.00	1-1/4 - 7	3.09	4.50	2.50	7.95	1.00	2.28	2.73
1-1/2 x 3-1/2	9900271	24000	720.00	1-1/2 - 6	3.60	5.50	3.00	9.49	1.25	2.75	3.28
1-3/4 x 3-3/4	9900280	34000	1040.00	1-3/4 - 5	3.75	6.26	3.50	10.48	1.38	3.00	3.60
2 x 4	9900289	42000	1880.00	2 - 4-1/2	4.00	7.62	4.00	12.31	1.81	3.38	4.50
2-1/2 x 5	9900298	65000	3250.00	2-1/2 - 4	5.00	8.76	4.50	14.88	2.12	4.25	5.50

5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. \*All bolts threaded UNC.



APPLICATION AND WARNING INFORMATION SECTION 17

## M-279 Metric Shoulder Type Machinery Eye Bolts

Size (mm)	Stock No.	Working Load Limit (kg)	Weight Each (kg)	Dimensions (mm)							
				A* Thread	B	C	D	E	F	G	H
M6 x 13	1045753	200	.03	M6 x 1.0	13.0	28.7	19.1	47.0	4.9	13.5	19.6
M8 x 13	1045789	400	.05	M8 x 1.25	13.0	35.1	22.4	54.6	6.4	15.0	24.1
M10 x 17	1045833	640	.07	M10 x 1.5	17.0	41.1	25.4	64.3	7.9	17.5	26.5
M12 x 20.5	1045869	1000	.11	M12 x 1.75	20.5	49.5	30.2	77.7	9.7	23.1	32.8
M16 x 27	1045913	1800	.25	M16 x 2.0	27.0	60.5	35.1	96.0	12.7	28.7	38.9
M20 x 30	1045995	2500	.42	M20 x 2.5	30.0	70.0	38.1	108	16.0	35.1	43.4
M24 x 36	1046029	4000	1.05	M24 x 3.0	36.0	95.5	51.0	142	22.4	46.0	58.4
M27 x 69.8	1046038	5000	1.42	M27 x 3.0	69.8	107	57.1	183	24.6	52.3	59.7
M30 x 45	1046075	6000	1.77	M30 x 3.5	45.0	114	63.5	171	25.4	58.0	69.3
M36 x 54	1046109	8500	3.12	M36 x 4.0	54.0	140	76.0	207	31.8	70.0	83.3
M42 x 95.2	1046118	14000	4.58	M42 x 4.5	95.2	159	88.9	266	35.0	76.2	91.4
M48 x 102	1046127	17300	8.71	M48 x 5.0	102	194	101	313	46.0	85.9	114
M64 x 127	1046136	29500	14.74	M64 x 6.0	127	223	114	378	53.8	108	140

5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. \*On Request: Special threading or as forged bolts for customer conversion.



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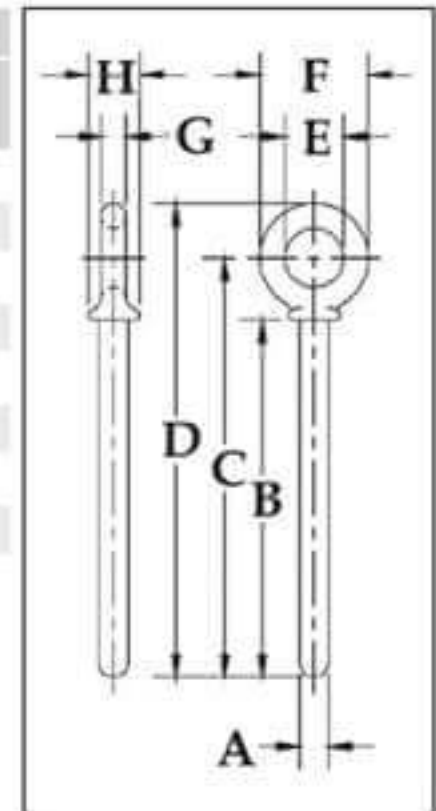
# EYE BOLT



## S-276 Shoulder Rivet Eye Bolts

• Forged steel - Quenched & Tempered.

Shank Dia. & Length (in)	Stock No.	Weight Per 100 (lb)	Dimensions (in)							
			A	B	C	D	E	F	G	H
1/2 x 3-1/4	1045862	33.00	.50	3.25	4.25	5.12	1.00	1.75	.38	.91
3/4 x 4-1/2	1045942	125.00	.75	4.50	6.06	7.44	1.50	2.75	.62	1.38
3/4 x 6	1045960	150.00	.75	6.00	7.56	8.94	1.50	2.75	.62	1.38
7/8 x 5	1045988	200.00	.88	5.00	6.84	8.46	1.75	3.25	.75	1.56
1 x 6	1046022	298.00	1.00	6.00	8.09	9.97	2.00	3.75	.88	1.81
1 x 9	1046040	425.00	1.00	9.00	11.09	12.97	2.00	3.75	.88	1.81
1-1/4 x 8	1046068	654.00	1.25	8.00	10.47	12.72	2.50	4.50	1.00	2.28
1-1/4 x 12	1046086	712.00	1.25	12.00	14.47	16.72	2.50	4.50	1.00	2.28
1-1/2 x 15	1046102	1425.00	1.50	15.00	18.00	20.75	3.00	5.50	1.25	2.75



# EYE NUT

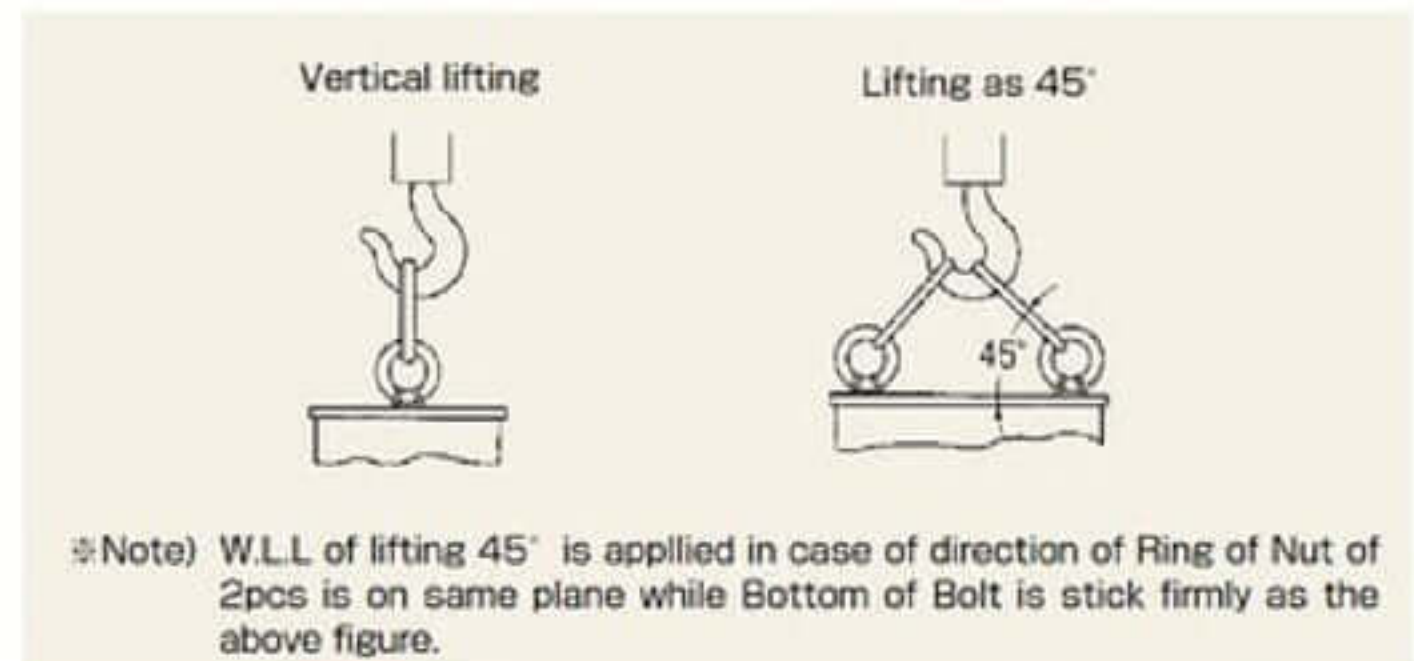
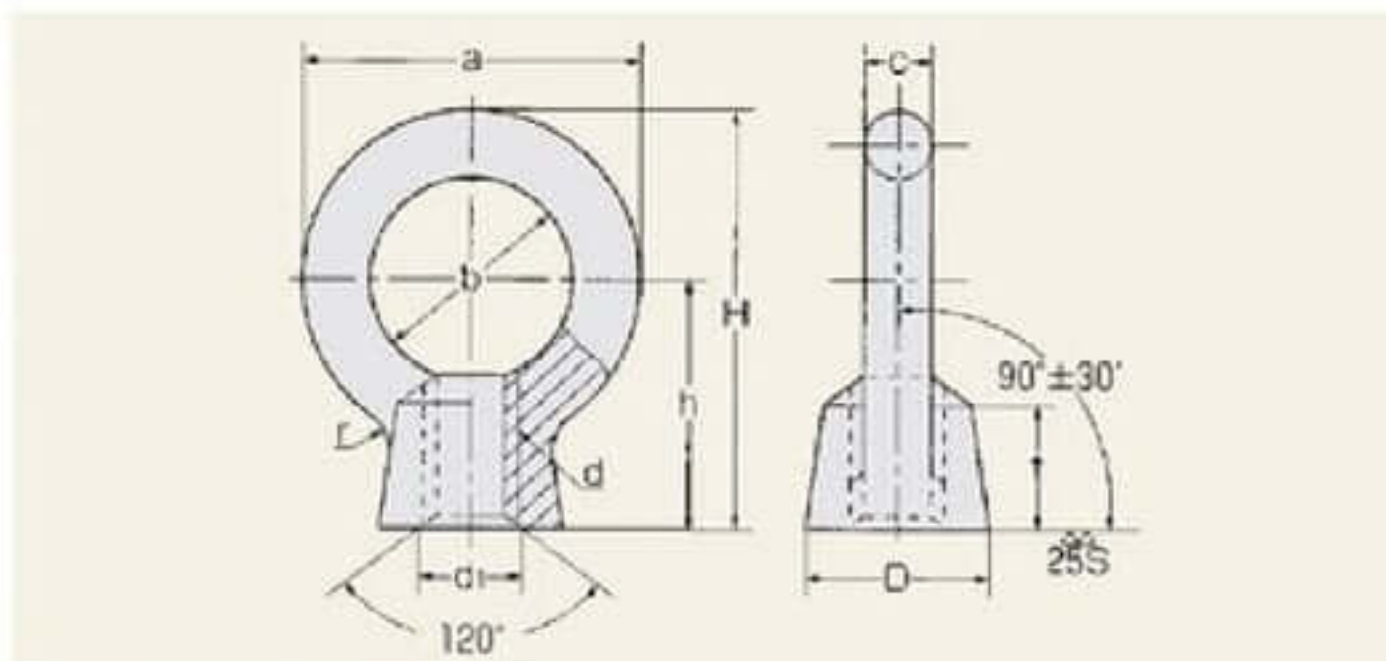
JIS B 1169-1994



Un-Galvanized

Galvanized

Specification	
Material	Steel (SS400) Stainless Steel (SUS304)
Surface Treatment	Steel (Un-galvanized, Galvanized, Yellow zinc plated, Hot dipped galvanized)



## Size Table of Eye Nut

Screws Size (d)		a	b	c	D	t	h	H	r	d <sub>1</sub>	W.L.L		Weight (kg) (about)
M Screw	W Screw										Vertical Lifting or Lifting 45° by 2pcs		
									(about)		M Screw	W Screw	
											kN (kgf)	kN (kgf)	
(6)	(1/4)	25	14	6.3	13	10	20	32.5	6	7.5	0.588 (60)		0.016
8	5/16	32.6	20	6.3	16	12	23	39.3	8	8.5	0.785 (80)		0.026
10	3/8	41	25	8	20	15	28	48.5	10	10.6	1.47 (150)	1.37 (140)	0.064
12	1/2	50	30	10	25	19	36	61	12	12.5	2.16 (220)	2.16 (220)	0.125
16	5/8	60	35	12.5	30	23	42	72	14	17	4.41 (450)	3.92 (400)	0.223
20	3/4	72	40	16	35	28	50	86	16	21.2	6.18 (630)	5.88 (600)	0.390
(22)	(7/8)	81	44	19	41	33	58	99	20	24	7.74 (790)	7.84 (800)	0.570
24	1"	90	50	20	45	38	66	111	25	25	9.32 (950)	9.32 (950)	0.850
30	1 1/4	110	60	25	60	46	80	135	30	31.5	14.7 (1500)	14.7 (1500)	1.75
36	1 1/2	133	70	31.5	70	55	95	161.5	35	37.5	22.6 (2300)	22.6 (2300)	3.00
42	1 3/4	151	80	35.5	80	64	109	184.5	40	45	33.3 (3400)	33.3 (3400)	4.65
48	2"	170	90	40	90	73	123	208	45	50	44.1 (4500)	44.1 (4500)	6.60
64		210	110	50	110	90	151	256	50	67	88.3 (9000)	88.3 (9000)	13.80
80		266	140	63	130	108	184	317	60	85	147 (15000)	127 (13000)	28.50

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# WIRE ROPE CLIP

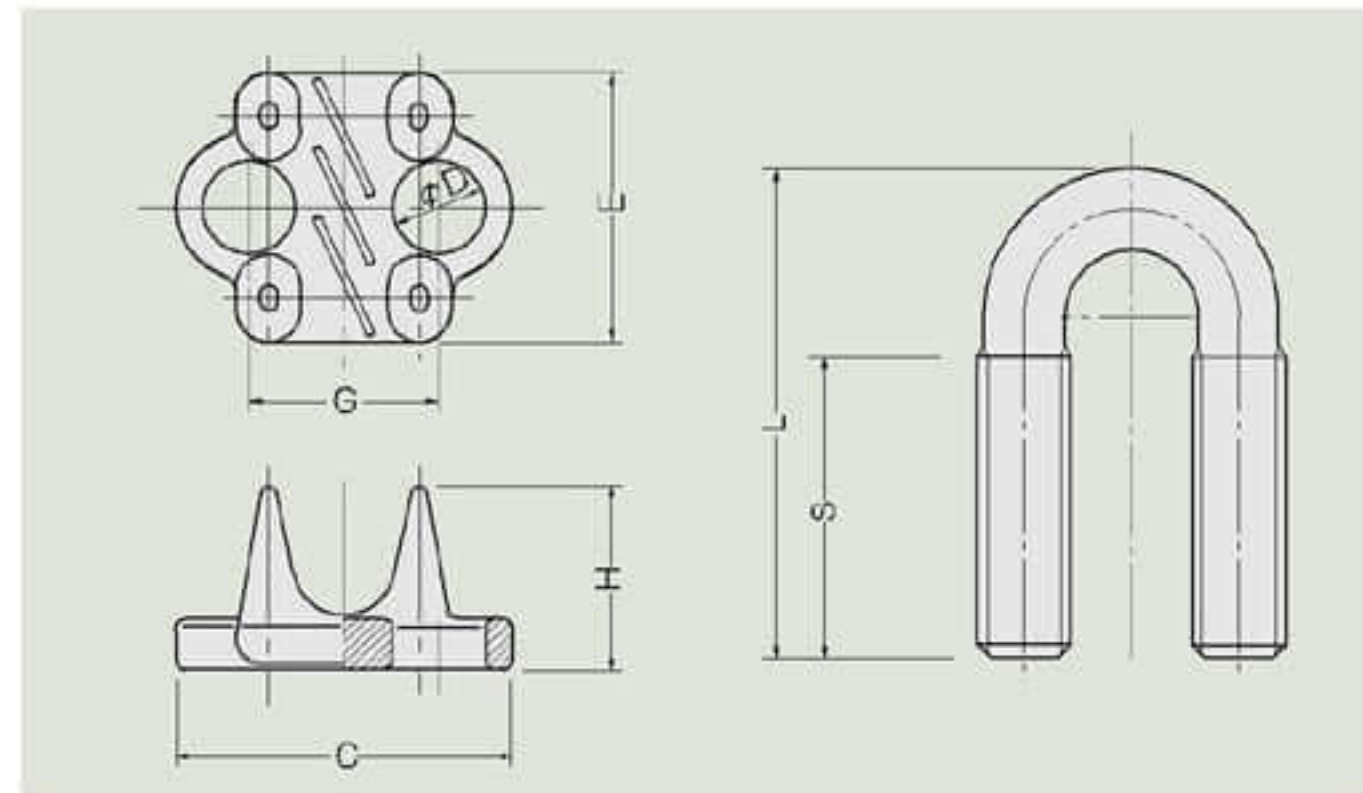
DROP FORGED STEEL WIRE ROPE CLIP  
(JIS STANDARD F TYPE) JIS B2809-1996



Self Color



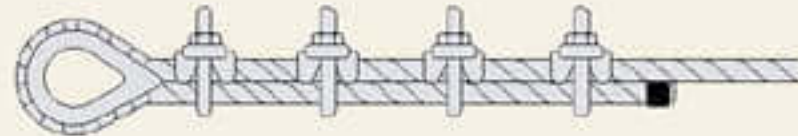
HOT DIPPED GALV.



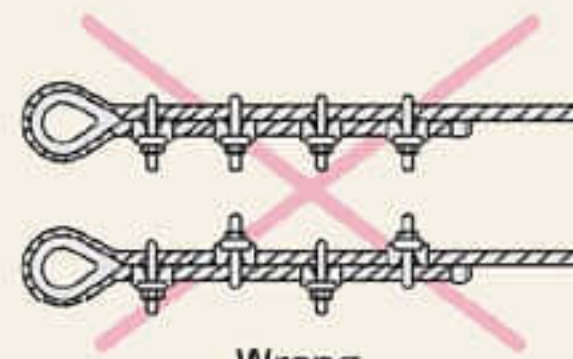
Size	BODY				U-BOLT/NUT			Weight (g)	Price	
	C	E	G	H	Thread	L	S		Self Color	HOT DIPPED GALV.
6	30	24.5	14	16	M6	35	20	47		
8	36	31	18	19	8	40	20	80		
9	41	29	22	19	10	46	24	112		
10	45	35	22	23	10	50	28	150		
12	51	39	26	27	12	60	35	220		
14	53	45	28	31	12	65	40	260		
16	60	48	32	35	14	75	45	380		
18	62	53	34	37	14	80	50	450		
20-22	78	62	44	43	18	100	60	800		
24-25	86	68	48	47	20	110	65	1100		
26-28	94	75	54	53	22	120	70	1500		
30-32	98	79	58	58	22	130	75	1600		
33-38	120	93	70	65	27	150	85	2800		
40-45	136	100	80	72	30	175	95	4400		
47-50	150	115	89	81	33	195	100	6100		
53-60	170	128	101	96	36	240	125	8900		
63-70	191	142	116	105	39	270	130	10900		
73-80	212	156	128	114	42	300	150	14600		

### Method of installing wire rope clip

- Please install the wire rope clip correctly.
- It was tightened by correct torque then the retention efficiency is 80%.



Correct



Wrong

The slipping is caused in the tightening parts if the wrong instruction or tightening torque is not proper and it causes an accident due to the decrease in retentivity.

### Notes

- Please use what suitable for JIS rope diameter (please do not use the rope of different kinds & diameter with the same wire rope clips)
- Please remove if the sand on the clips and please do not use the rusted.
- Please bring a wire rope clip that is the nearest the eye of the thimble close the thimble as much as possible.
- Moreover, please give the length of the wire rope of the part of the terminal end of the wire rope clip as 6 times the diameter.  
Please tighten with the torque wrench by correct torque. Moreover, please tighten one by one dividing from the wire rope clip of the terminal into 3 times or more in the same order.
- Please fasten in the diameter's become thin and slipperiness
- Please mark with the paint or others, and sometimes confirm the presence of slipping after installation ends.
- Please do not use the wire rope clip for the Vinyl core wire rope when the load.

### Fitting Standard (FOR 6X24 / 6X37)

Rope Dia (mm)	Fitting Qty	Space (mm)	Torque (kgf-cm)
6	4	40	100
8	4	50	120
10	4	70	160
12	4	80	240
14	4	90	380
16	4	100	530
18	5	120	680
20	5	130	840
24	5	160	1210
26	5	170	1400
30	6	200	1900
36	7	230	2660
40	7	260	3050
48	8	310	4050



# WIRE ROPE CLIP

MALLEABLE IRON CAST WIRE ROPE CLIP

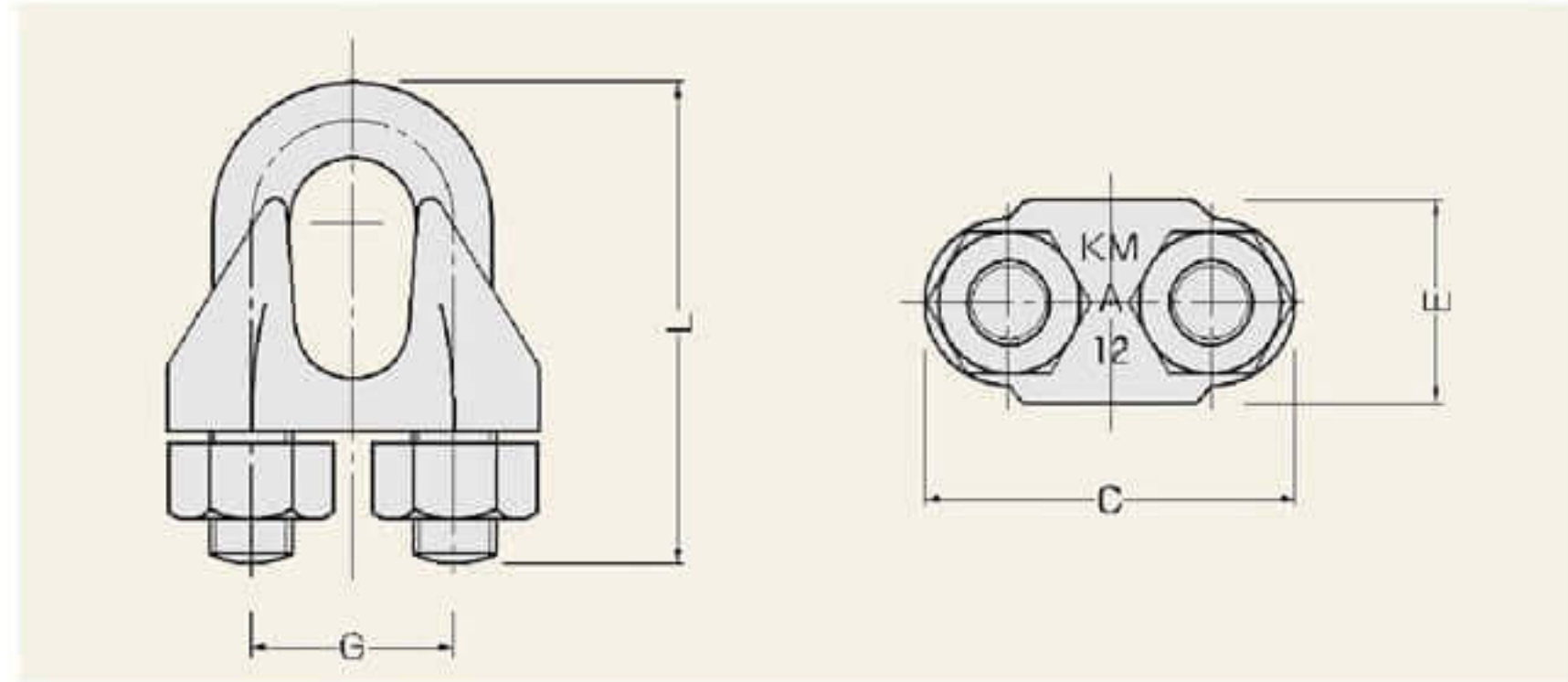


Self Color



Galvanized

Please use the drop forged wire rope clip (JIS type) when the heavy loading



Size (mm)	U-BOLT/NUT (W)	Weight (g)	Price	
			Self Color	Galvanized
3	3/16	15		
4.5	1/4	27		
6	5/16	55		
8	5/16	62		
9	3/8	105		
12	3/8	130		
16	1/2	254		
19	1/2	295		
19KL	1/2	272		
22	5/8	545		
25	5/8	650		

The KL clip is the small size and light for the lashing wire

	C	E	G	L
<b>KM19</b>	61	32	33	74
<b>KL19</b>	56	28	32	73



# WIRE ROPE CLIP

## G-450 CROSBY CLIPS



**G-450**  
Red U-Bolt® clip



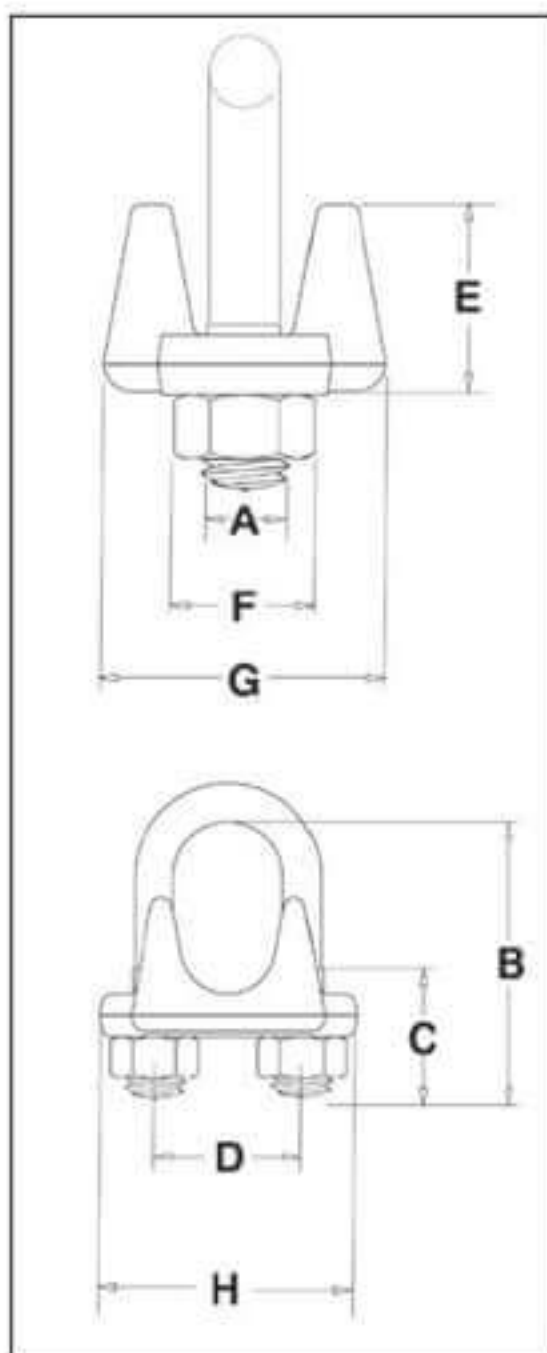
- Each base has a Product Identification Code (PIC) for material traceability, the name Crosby or "CG," and a size forged into it.
- Based on the catalog breaking strength of wire rope, Crosby wire rope clips have an efficiency rating of 80% for 1/8" through 7/8" sizes, and 90% for sizes 1" through 3-1/2".
- Entire clip is galvanized to resist corrosive and rusting action.
- Sizes 1/8" through 2-1/2" and 3" have forged bases.
- All clips are individually bagged or tagged with proper application instructions and warning information.
- Clip sizes up through 1-1/2" have rolled threads.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these wire rope clips meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- Look for the Red U-Bolt®, your assurance of genuine Crosby Clips.

APPLICATION AND WARNING INFORMATION  
SECTION 17

### G-450 Crosby Clips

Rope Size		Stock No.	Std. Package Qty.	Weight Per 100 (lb)	Dimensions (in)							
(in)	(mm)				A	B	C	D	E	F	G	H
1/8	3-4*	1010015	100	6	.22	.72	.44	.47	.37	.38	.81	.99
3/16	5*	1010033	100	10	.25	.97	.56	.59	.50	.44	.94	1.18
1/4	6-7	1010051	100	19	.31	1.03	.50	.75	.66	.56	1.19	1.43
5/16	8	1010079	100	28	.38	1.38	.75	.88	.73	.69	1.31	1.66
3/8	9-10	1010097	100	48	.44	1.50	.75	1.00	.91	.75	1.63	1.94
7/16 - 1/2	11-13	1010131	50	80	.50	1.88	1.00	1.19	1.13	.88	1.91	2.28
9/16 - 5/8	14-16	1010177	50	110	.56	2.25	1.25	1.31	1.34	.94	2.06	2.50
3/4	18-20	1010195	25	142	.62	2.75	1.44	1.50	1.39	1.06	2.25	2.84
7/8	22	1010211	25	212	.75	3.12	1.62	1.75	1.58	1.25	2.44	3.16
1	24-26	1010239	10	252	.75	3.50	1.81	1.88	1.77	1.25	2.63	3.47
1-1/8	28-30	1010257	10	283	.75	3.88	2.00	2.00	1.91	1.25	2.81	3.59
1-1/4	32-34	1010275	10	438	.88	4.44	2.22	2.34	2.17	1.44	3.13	4.13
1-3/8	36	1010293	10	442	.88	4.44	2.22	2.34	2.31	1.44	3.13	4.19
1-1/2	38	1010319	10	544	.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44
1-5/8	41-42	1010337	Bulk	704	1.00	5.31	2.62	2.75	2.66	1.63	3.63	4.75
1-3/4	44-46	1010355	Bulk	934	1.13	5.75	2.75	3.06	2.92	1.81	3.81	5.24
2	48-52	1010373	Bulk	1300	1.25	6.44	3.00	3.38	3.03	2.00	4.44	5.88
2-1/4	56-58	1010391	Bulk	1600	1.25	7.13	3.19	3.88	3.19	2.00	4.56	6.38
2-1/2	62-65	1010417	Bulk	1900	1.25	7.69	3.44	4.13	3.69	2.00	4.69	6.63
** 2-3/4	** 68-72	1010435	Bulk	2300	1.25	8.31	3.56	4.38	4.88	2.00	5.00	6.88
3	75-78	1010453	Bulk	3100	1.50	9.19	3.88	4.75	4.44	2.38	5.31	7.61
** 3-1/2	** 85-90	1010426	Bulk	4000	1.50	10.75	4.50	5.50	6.00	2.38	6.19	8.38

\*Electro-plated U-Bolt and Nuts. \*\* 2-3/4" and 3-1/2" base is made of cast steel.



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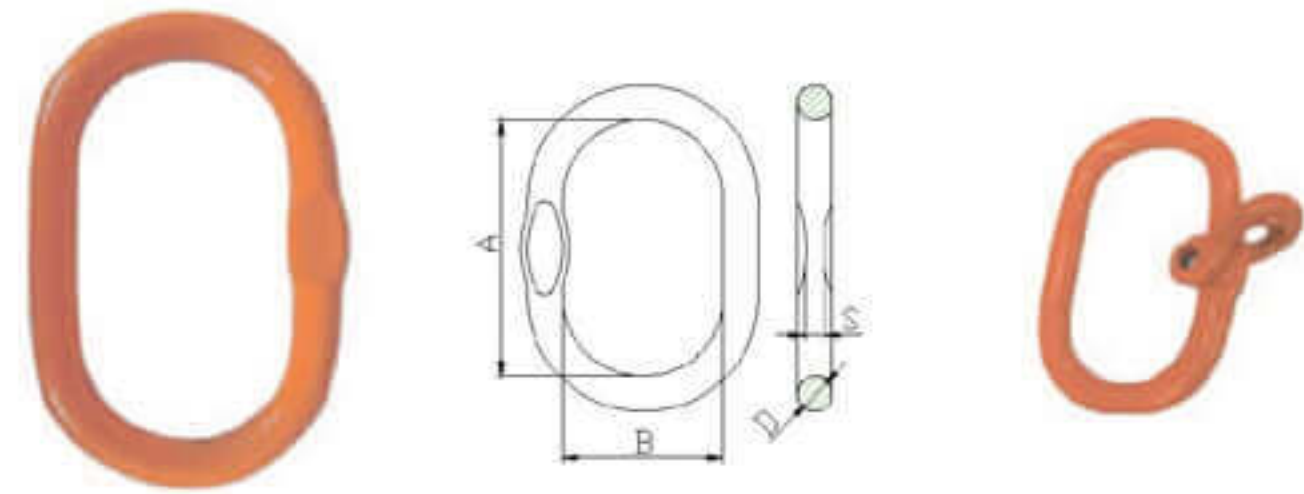
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39/1 MOO 2 BANGPOOD, PAKKRED  
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# MASTER LINK

## G80 PRODUCTS

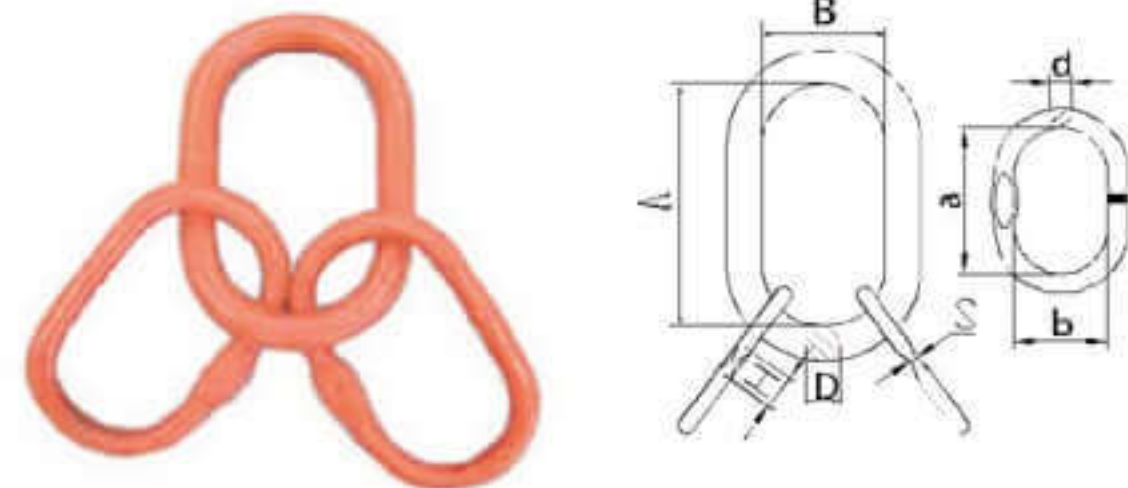


### SLR-093 G80 U.S. TYPE MASTER LINK

Size	Weight (kg)	Chain		Wire rope WLL (t)	Dimensions (mm)				
		Size	WLL 1 leg (t)		WLL 2 leg 0-45° (t)	A	B	D	s
7/16	0.27	1/4	1.12	1.60	1.60	100±5	60±5	12±1	6±0.5
		9/32	1.50	-					
1/2	0.38	9/32	1.50	2.12	2.50	100±5	60±5	14±1	7.6 ±0.5
		5/16	2.00	-					
11/16	0.85	5/16	2.00	2.80	4.00	160±6	90±5	18±1	8.4 ±0.5
		3/8	3.15	-					
3/4	1.20	3/8	3.15	4.25	6.50	160±6	90±5	20±1	10.5 ±0.5
		1/2	5.30	-					
7/8	1.63	1/2	5.30	7.50	8.00	180±6	100±5	22±1	13.5 ±0.5
		5/8	8.00	-					
1	2.13	5/8	8.00	11.20	11.50	180±6	100±5	25±1	16.5 ±0.5
		19mm	11.20	-					
1-1/8	3.81	3/4	12.50	-	11.80	270±7	140±6	28±1/2	19±0.5
1-1/4	5.05	19mm	11.20	16.00	16.00	270±7	140±6	32±1/2	19±0.5
		7/8	15.00	-					
1-3/8	6.83	7/8	15.00	21.20	24.00	285±7	155±6	36±1/2	20±0.5
		1	21.20	-					
1-1/2	8.90	28mm	25.00	-	25.00	300±8	160±6	40±1/2	26±0.5
1-3/4	12.80	1	21.20	30.00	31.50	340±10	180±6	45±1/2	26±0.5
		1 1/4	31.50	-					
2	17.30	1 1/4	31.50	45.00	45.00	390±10	215±7	51±1/2	32±0.5

For chain sling: Minimum Ultimate Load is 4 times the Working Load limit

For steel rope sling: Minimum Ultimate Load is 5 times the Working Load Limit



### SLR-094 G80 U.S. TYPE MASTER LINK ASSEMBLY

Size	Weight (kg)	Chain		Wire rope WLL (t)	Dimensions (mm)						
		Size	WLL 3 or 4 leg 0-45° (t)		A	B	D	a	b	d	s
1/2	0.82	7/32	2.36	2.40	100±5	60±5	14±1	85±5	40±3	12±1	6±0.5
11/16	1.6	1/4	3.15	3.20	160±6	90±5	18±1	100±5	60±5	14±1	7.6±0.5
5/8	1.6	1/4	3.15	3.20	160±6	90±5	18±1	100±5	60±5	14±1	7.6±0.5
3/4	1.95	5/16	4.25	4.20	160±6	90±5	20±1	100±5	60±5	14±1	7.6±0.5
7/8	3.16	3/8	6.70	8.00	180±6	100±5	22±1	150±6	70±5	18±1	8.4±0.5
1-1/8	6.75	1/2	11.20	12.00	270±7	140±6	28±1/2	160±6	90±5	22±1	13.5±0.5
1-1/4	9.31	5/8	17.00	17.00	270±7	140±6	32±1/2	180±6	100±5	25±1	16.5±0.5
1-1/2	18.4	3/4	23.60	25.00	300±7	160±6	40±1/2	270±7	140±6	31±1/2	19±0.5
1-3/4	26.6	7/8	31.50	31.50	340±4	180±6	45±1/2	285±7	155±6	36±1/2	22±0.5
2	42.91	1	45.00	45.00	350±10	190±6	51±1/2	340±10	180±6	45±1/2	25±0.5

For chain sling: Minimum Ultimate Load is 4 times the Working Load limit

For steel rope sling: Minimum Ultimate Load is 5 times the Working Load Limit



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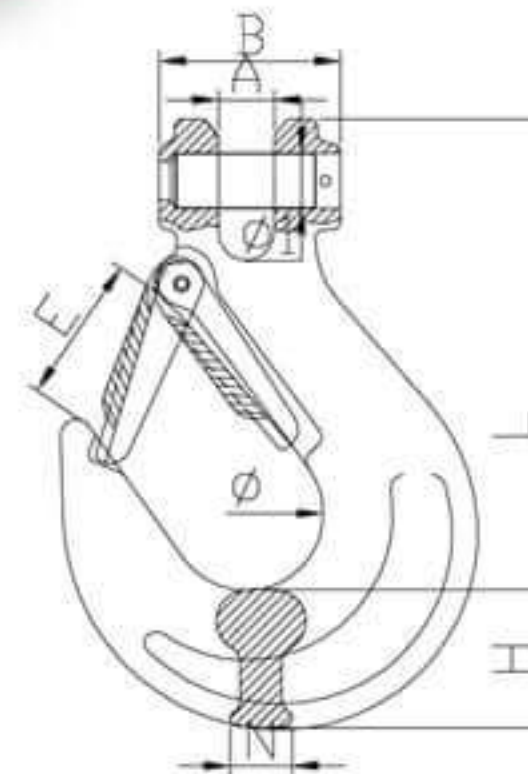
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# HOOK

## G80 PRODUCTS

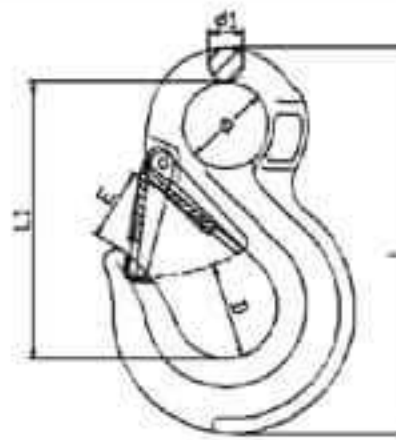


### SLR-012 G80 CLEVIS SLING HOOK WITH LATCH



ITEM NO.	WEIGHT/kg	WLL/T	B.L/T	A±0.5	B±1.5	Ø±1	H±1	L±2	E±2	N±0.5	Ø1 <sup>+0.2</sup> <sub>-0.1</sub>
8-SLR012-06	0.32	1.12	4.48	8	32	35	23	112	26	10	7.6
8-SLR012-7/8	0.52	2.0	8.0	9.5	37	37	32.5	129.5	29	12	9
8-SLR012-10	1.05	3.15	12.6	13	49	46	35	158	39	16	12.7
8-SLR012-13	2	5.3	21.2	16.5	56.5	56	42.5	198	47	27	16
8-SLR012-16	3.7	8	32	21.5	70.5	60	54	237	55	24	21
8-SLR012-20	6	12.5	50	24	77	79	58	277.5	61	32	24
8-SLR012-22	10.4	15	60	27	91	101	62	320	72	36	26
8-SLR012-26											
8-SLR012-32											

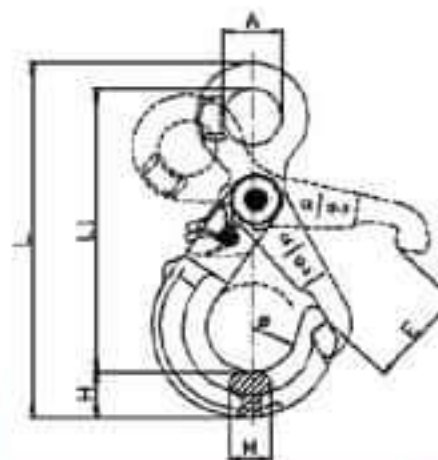
### SLR-013 G80 EUROPEAN TYPE EYE SLING HOOK WITH LATCH



Size	Weight (kg)	WLL (t)	B.L (t)	Ø1	Dimensions (mm)					
					E	D	Ø	L1	L2	
6mm	0.24	1.12	4.48	9	24	21	20	75.0	108	
7-8mm	0.40	2.00	8.00	11	30	26	25	98.5	133	
10mm	0.90	3.15	12.60	15	34	39	38	120.0	167	
13mm	1.83	5.30	21.20	19	39	54	43	152.0	213	
16mm	3.20	8.00	32.00	23	46	64	50	183.5	255	
20mm	5.80	12.50	50.00	24	48	80	62	219.0	305	
22mm	9.20	15.00	60.00	32	71	80	62	241.0	348	
26mm	13.00	21.20	84.80	35	81	82	64	279.0	394	
32mm	17.00	31.50	126.00	37	102	112	88	355.0	480	

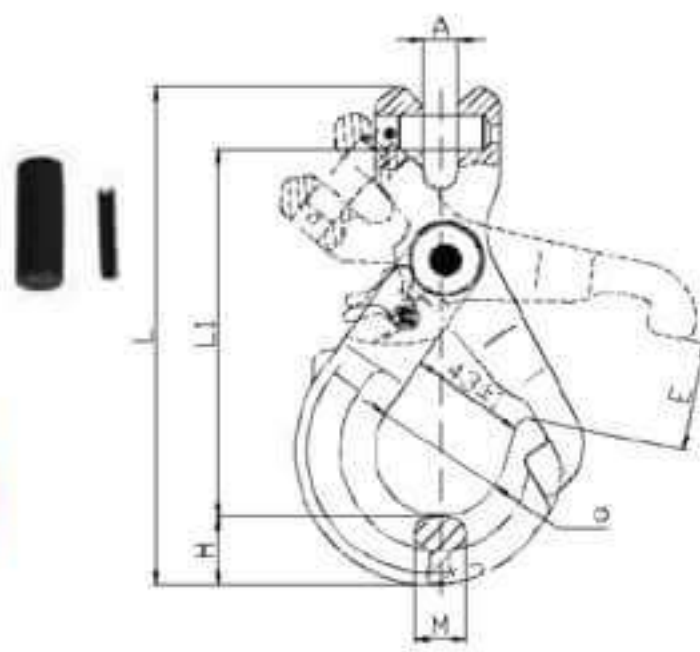
### SLR-077 G80 EUROPEAN TYPE EYE SELF-LOCKING HOOK WITH GRIP

Size	Weight (kg)	WLL (t)	B.L (t)	Dimensions (mm)						
				A	H	E	L	Ø	M	L1
7-8mm	0.75	2.00	8.0	25	22.0	34	164.0	40	18.0	131.0
10mm	1.30	3.15	12.6	32	26.0	42	201.0	50	22.5	161.6
13mm	1.93	5.30	21.2	40	31.0	50	243.5	60	29.0	195.5
16mm	3.40	8.00	32.0	50	39.5	60	298.0	70	35.0	238.0



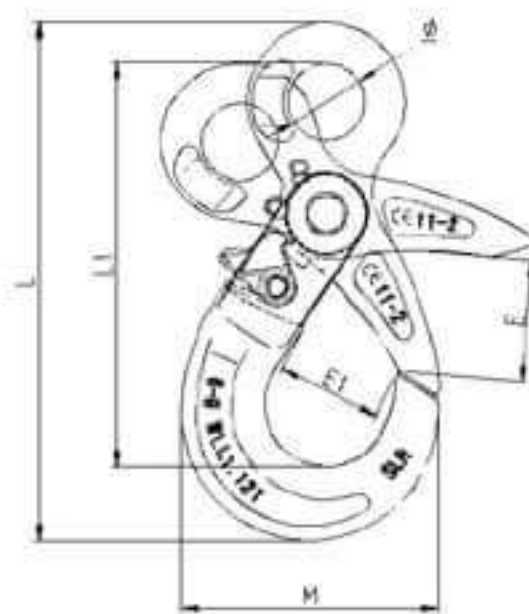
# HOOK

## G80 PRODUCTS



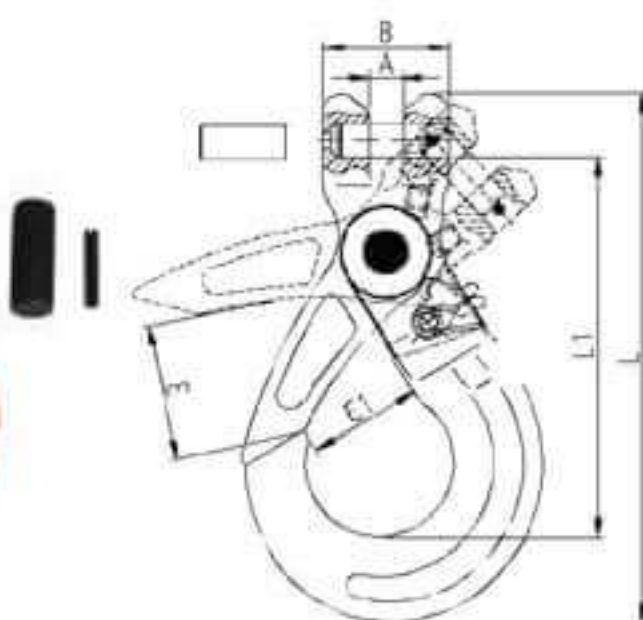
**SLR-078 G80 EUROPEAN TYPE CLEVIS SELF-LOCKING HOOK WITH GRIP**

Size	Weight (kg)	WLL (t)	B.L (t)	Dimensions (mm)						
				A	H	E	L	Φ	M	L1
7-8mm	0.8	2.00	8.0	9.5	21.5	36	150	40	18.0	111
10mm	1.5	3.15	12.6	12.0	26.2	44	189	50	22.5	139
13mm	2.8	5.30	21.2	15.0	31.0	54	229	60	29.0	168
16mm	5.1	8.00	32.0	18.5	39.5	63	299	72	35.0	238



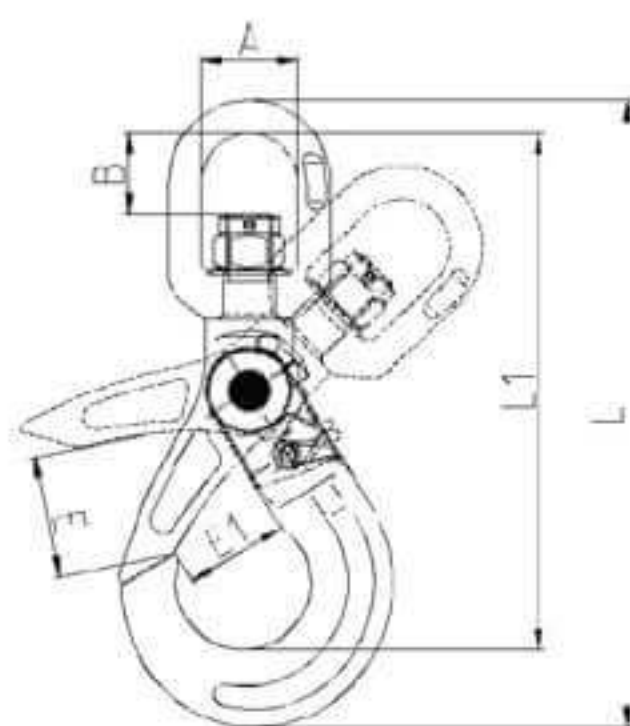
**SLR-737 G80 EUROPEAN TYPE EYE SELF-LOCKING HOOK**

Size	Weight (kg)	WLL (t)	B.L (t)	Dimensions (mm)				
				Φ	E	E1	L1	L
6mm	0.50	1.12	4.48	21.0	35	28.0	110.0	141
7-8mm	0.88	2.00	8.00	25.0	40	35.0	136.0	175
10mm	1.58	3.15	12.60	34.5	50	45.0	168.0	214
13mm	3.00	5.30	21.20	40.0	60	52.5	207.0	268
16mm	5.90	8.00	32.00	50.0	65	63.3	254.0	332
18-20mm	7.00	12.50	50.00	64.5	80	86.0	274.5	332
22mm	12.30	15.00	60.00	70.0	83	76.0	319.0	415
26mm	20.00	21.20	84.80	80.0	106	96.0	362.0	472
32mm	44.00	31.50	126.00	105.0	140	133.0	470.0	614



**SLR-738 G80 EUROPEAN TYPE CLEVIS SELF-LOCKING HOOK**

Size	Weight (kg)	WLL (t)	B.L (t)	Dimensions (mm)						
				A	B	E	E1	L1	L	
6mm	0.44	1.12	4.48	8.0	32.0	35	28.0	96.0	131.0	
7-8mm	0.80	2.00	8.00	9.5	38.5	40	35.8	119.3	161.8	
10mm	1.38	3.15	12.60	12.5	46.0	50	45.0	142.0	195.0	
13mm	2.81	5.30	21.20	15.0	59.0	60	52.5	179.0	249.0	
16mm	6.00	8.00	32.00	18.5	77.0	65	63.3	224.8	310.0	
18-20mm	7.25	12.50	50.00	25.0	77.0	80	86.0	238.3	335.0	
22mm	12.80	15.00	60.00	25.0	97.5	83	76.0	277.0	392.0	
26mm	21.80	21.20	84.80	30.0	118.0	106	96.0	312.0	450.0	
32mm	49.60	31.50	126.00	35.0	150.0	140	135.0	416.0	589.6	



**SLR-755 G80 EUROPEAN TYPE SWIVEL SELF-LOCKING HOOK**

Size	Weight (kg)	WLL (t)	B.L (t)	Dimensions (mm)						
				A	B	E	E1	L1	L	
6mm	0.71	1.12	4.48	32.5	24.0	35	28.0	152.5	184.0	
7-8mm	1.15	2.00	8.00	36.0	29.5	40	35.8	189.0	228.0	
10mm	1.86	3.15	12.60	42.0	35.0	50	48.0	224.0	270.0	
13mm	3.51	5.30	21.20	50.0	41.0	60	52.5	267.0	324.0	
16mm	7.33	8.00	32.00	61.0	56.8	65	63.3	355.6	406.0	
18-20mm	10.3	12.50	50.00	72.0	63.0	80	86.0	378.2	460.5	
22mm	17.5	15.00	60.00	97.0	98.0	83	76.0	466.0	564.0	
26mm	23.0	21.20	84.80	123.0	115.0	106	96.0	544.0	661.0	
32mm	81.0	31.50	126.00	140.0	146.0	140	135.0	679.0	829.0	



# HOOK



## S-319/S-319N



- The most complete line of shank marked hoist hooks. Available 3/4 to 300 metric tons.
- Hook Identification code marked into each hook.
- All carbon and alloy hooks are quenched and tempered.
- Quenched & Tempered.
- Available in carbon steel, alloy steel, and bronze.
- Proper design, careful forging, and precision controlled quench and tempering give maximum strength without excessive weight and bulk.
- Every Crosby Shank Hook has a pre-drilled cam which can be equipped with a latch. Simply purchase the Crosby latch assemblies. Even years after the purchase of the original hook, latch assemblies can be added.
- Type Approval Certification in accordance with ABS 2016 Steel Vessels and ABS Guide for Certification on Cranes available. Certificates available when requested at time of order and may include additional charges.



APPLICATION AND WARNING INFORMATION  
SECTION 17

## S-319 / S-319N Shank Hook

Working Load Limit (t)			Hook ID Code	Shank Hooks Stock No.			Shank Length ‡	Weight Each (lb)	Rep. Latch Kits		
Carbon	Alloy	Bronze		Carbon S-319C S-319CN	Alloy S-319A S-319AN	Bronze S-319BN			S-4320 Stock No.	PL Stock No.	SS-4055 Stock No.
3/4	1	.5	†D	1028505	1028701	1028900	Std.	.50	1096325	-	-
1	1-1/2	.6	†F	1028514	1028710	1028909	Std.	.75	1096374	-	-
1-1/2	2	1	†G	1028523	1028723	1028918	Std.	1.00	1096421	-	-
2	3	1.4	†H	1028532	1028732	1028927	Std.	1.82	1096468	-	-
3	5	2	†I	1028541	1028741	1028936	Std.	3.69	1096515	1092000	-
5	7	3.5	†J	1028550	1028750	1028945	Std.	7.25	1096562	1092001	-
7-1/2	11	5	†K	1028563	1028765	1028954	Std.	13.4	1096609	1092002	-
10	15	6.5	†L	1028590	1028792	1028981	Std.	21.9	1096657	1092003	-
15	22	10	†N	1028599	1028801	1028990	Std.	38.4	1096704	1092004	-
20	30	-	O	1024386	1024803	-	Std.	72	-	1093716	1090161
20	30	-	O	1024402	1024821	-	Long	85	-	1093716	1090161
25	37	-	P	1024420	1024849	-	Std.	134	-	1093717	1090189
25	37	-	P	1024448	1024867	-	Long	172	-	1093717	1090189
30	45	-	S	1024466	1024885	-	Std.	182	-	1093718	1090189
30	45	-	S	1024484	1024901	-	Long	214	-	1093718	1090189
40	60	-	T	1024509	1024929	-	Std.	268	-	1093719	1090205
40	60	-	T	1024545	1024965	-	Long	312	-	1093719	1090205
50	75	-	U	1024563	1024983	-	Std.	390	-	1093720	-
50	75	-	U	1024581	1025009	-	Long	426	-	1093720	-
-	100	-	W	-	1025027	-	Std.	610	-	1093721	-
-	100	-	W	-	1025045	-	Long	675	-	1093721	-
-	150	-	X	-	1025063	-	Std.	735	-	1093721	-
-	200	-	Y	-	1025081	-	Std.	1020	-	1093723	-
-	300	-	Z	-	1025090	-	Std.	1390	-	1093724	-

Maximum allowable Proof Load is 2 Times Working Load Limit. All carbon hooks designed with a 5:1 design factor. All alloy hooks 1 through 22t designed with a 4.5:1 design factor. All alloy hooks 30t and larger designed with a 4:1 design factor. All bronze hooks designed with a 4:1 design factor. †New 319N style hook. ‡See column "Y" on following page for actual length.

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# HOOK

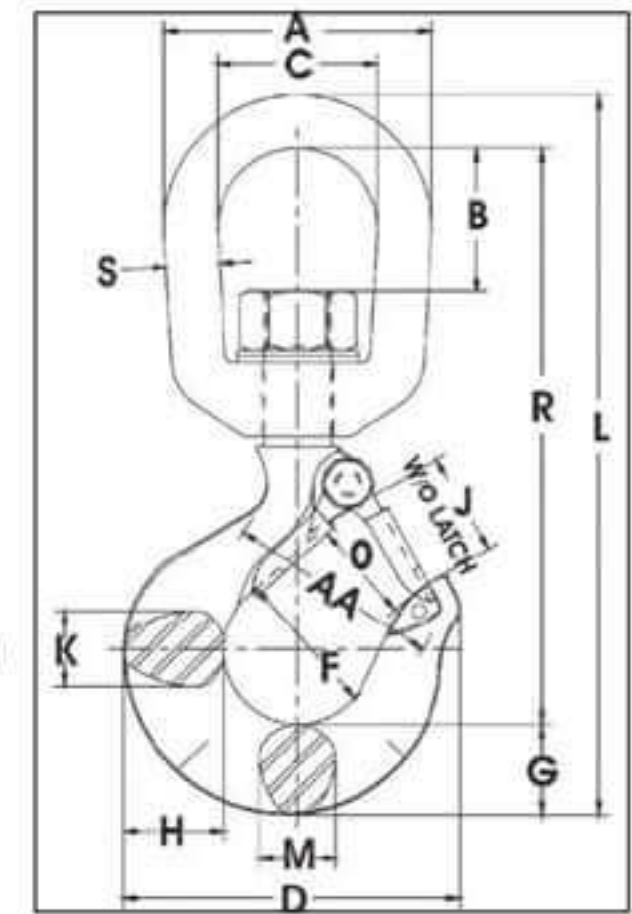


## L-322CN / L-322AN



- Forged, Quenched & Tempered.
- Suitable for positioning of the hook before the load is lifted.
- Swivel hooks are load rated.
- Proper design, careful forging, and precision controlled quench and tempering gives maximum strength without excessive weight and bulk.
- Low profile hook tip designed to utilize Crosby S-4320 or PL-N latch kit.
- Hoist hooks incorporate QUIC-CHECK® deformation and angle indicators. (For detailed information, see the Crosby Value Added page at the beginning of this section.)

Suitable for infrequent, non-continuous rotation under load. Use in corrosive environment requires shank and nut inspection in accordance with ASME B30.10-1.10.4(b)(5)(c).



APPLICATION AND WARNING INFORMATION SECTION 17

### L-322CN / L-322AN Swivel Hooks with Latch

Working Load Limit (t)		Hook ID Code*	L-322CN Stock No.	L-322AN Stock No.	Weight Each (lb)	Dimensions (in)															Rep. Latch Stock No.
Carbon	Alloy					A	B	C	D	F	G	H	J	K	L	M	O†	R	S	AA*	
3/4	1	D	1048603	1048807	.75	2.00	.82	1.25	2.86	1.25	.73	.81	.93	.63	5.66	.63	.89	4.55	.38	1.50	1096325
1	1-1/2	F	1048612	1048816	1.25	2.50	1.31	1.50	3.15	1.38	.84	.94	.97	.71	6.71	.71	.91	5.37	.50	2.00	1096374
1-1/2	2	G	1048621	1048825	2.25	3.00	1.50	1.75	3.59	1.50	1.00	1.16	1.06	.88	7.75	.88	1.00	6.12	.63	2.00	1096421
2	3	H	1048630	1048834	2.30	3.00	1.50	1.75	4.00	1.62	1.13	1.31	1.19	.94	8.25	.94	1.09	6.50	.63	2.00	1096468
3	5	I	1048639	1048840	4.96	3.50	1.64	2.00	4.84	2.00	1.44	1.63	1.50	1.31	9.69	1.13	1.36	7.50	.75	2.50	1096515
5	7	J	1048648	1048859	10.29	4.56	2.29	2.50	6.28	2.50	1.81	2.06	1.78	1.66	12.47	1.44	1.61	9.63	1.00	3.00	1096562
7-1/2	11	K	1048657	1048868	19.40	5.00	2.44	2.75	7.54	3.00	2.25	2.63	2.41	1.88	14.75	1.63	2.08	11.37	1.13	4.00	1096609
10	15	L	1048666	1048880	23.25	5.62	2.48	3.12	8.34	3.25	2.59	2.94	2.62	2.19	16.40	1.94	2.27	12.25	1.25	4.00	1096657
15	22	N	1048675	1048889	47.00	7.10	3.76	4.10	10.34	4.25	3.00	3.50	3.41	2.69	21.34	2.38	3.02	16.71	1.50	5.00	1096704
-	30	O	-	1048898	70.50	7.10	3.76	4.10	13.62	5.00	3.61	4.63	4.00	3.00	23.25	3.00	3.62	18.01	1.50	6.50	1090161

All carbon swivel hooks have a 5:1 Design Factor and Proof Load is 2 times the Working Load Limit. Alloy swivel hooks 1t through 22t have a 4.5:1 Design Factor and Proof Load is 2.5 times the Working Load Limit. Alloy swivel hooks of 30t capacity have a 4:1 Design Factor and Proof Load is 2 times the Working Load Limit. \*Deformation Indicators †Dimensions for hooks 3/4t carbon through 22t alloy are for S-4320 latch kits. Dimensions for hooks 30t alloy are for 4055 latch kit.

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PAGE

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# HOOK



## S-377

- Forged carbon steel, Quenched & Tempered.
- The resultant load on each hook cannot exceed 1,000 lb.
- Meets the performance requirements of Federal Specification RR-C-271G, Type V, Class 6, except for those provisions required of the contractor.



### S - 377 Barrel Hooks

Working Load Limit Per Pair (t)	Stock No. Per Pair	Weight Each Per Pair (lb)	Dimensions (in)			
			I.D. of Eye	O.D. of Eye	Overall Length	Width of Lip
0.9	1028248	3.56	1.56	2.81	5.00	2.88

4:1 Design Factor.



## A-378

- Forged alloy steel, Quenched & Tempered.
- Deep straight throat permits efficient handling of flat plates or large cylindrical shapes.



## A-378 with Handle

### A-378 Sorting Hook



Working Load Limit at tip of Hook (t)	Working Load Limit at bottom of Hook (t)	Stock No	Style	Weight Each (lb)	Dimensions (in)			
					I.D. of Eye	Overall Length	Opening at top of Hook	Radius at bottom of Hook
2	7-1/2	1028024	No Handle	6.42	1.38	9.69	2.81	.625
2	7-1/2	1028033	With Handle	6.42	1.38	9.69	2.81	.625

4:1 Design Factor.



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# TURNBUCKLES

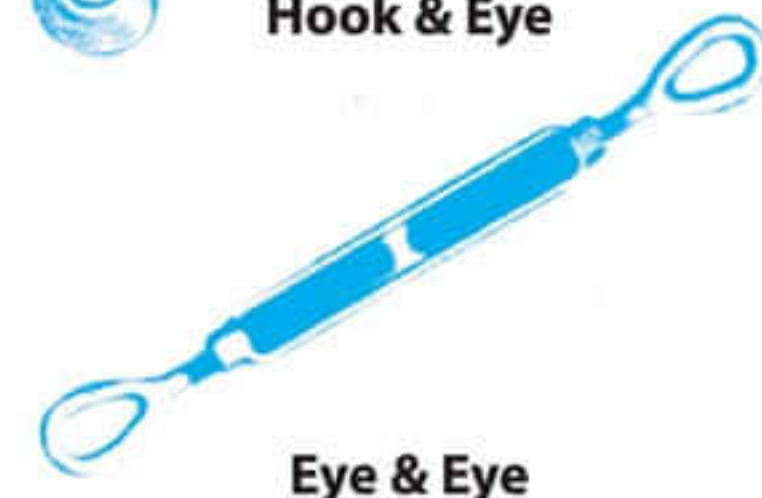
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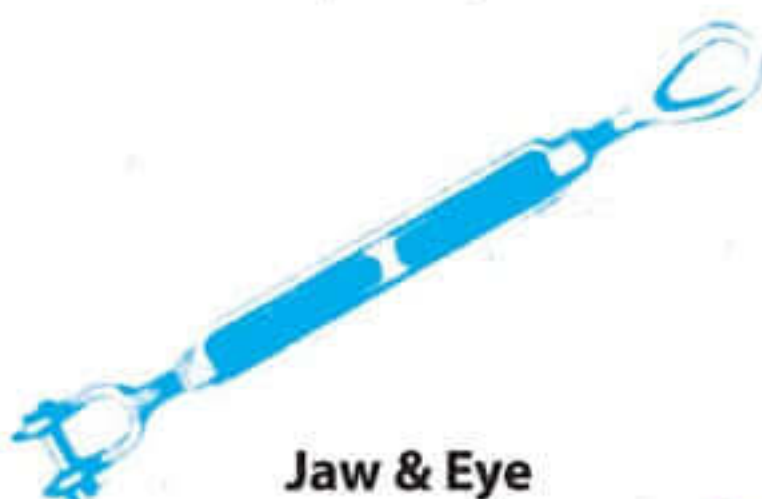
Hook & Hook



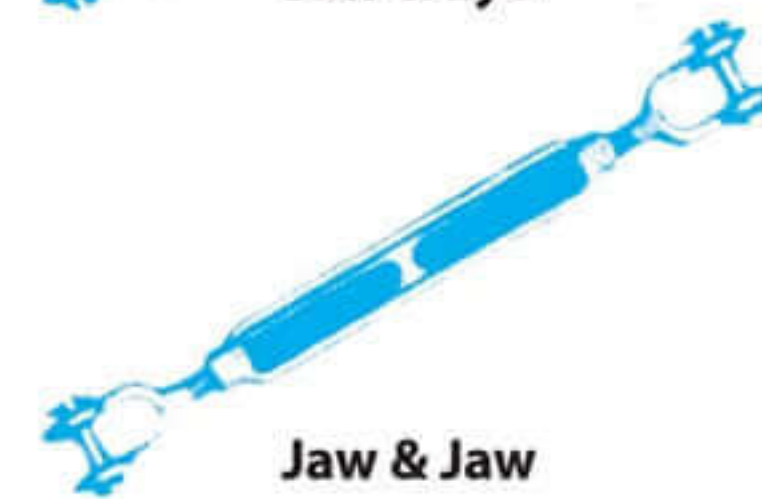
Hook & Eye



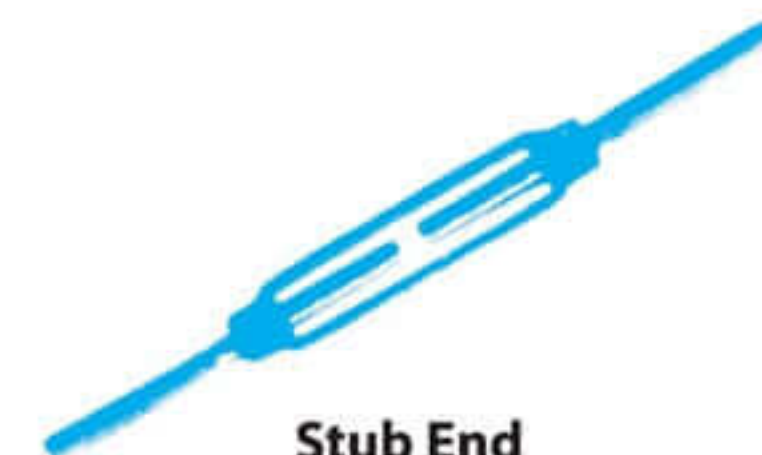
Eye & Eye



Jaw & Eye



Jaw & Jaw



Stub End

Size (Diameter x Take-Up)	Average Overall Length with Ends in Closed Position	Approx. Weight Each (lbs)					Work Load Limit Pounds	
		Eyes and/or Hooks	Jaw & Eye	Jaw & Jaw	Stub End	Bodies Only	Hook & Hook Hook & Eye	Eye & Eye Jaw & Eye Jaw & Jaw Stub 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	0.30	1,000	1,200
1/2" x 6"	13-5/16	1.50	1.62	1.68	1.36	0.55	1,500	2,200
1/2" x 9"	16-5/16	1.75	1.82	1.85	1.69	0.74	1,500	2,200
1/2" x 12"	19-5/16	2.18	2.19	2.20	2.00	0.93	1,500	2,200
5/8" x 6"	15-1/2	2.63	2.59	2.82	2.15	0.91	2,250	3,500
5/8" x 9"	18-1/2	3.00	3.01	3.25	2.70	1.20	2,250	3,500
5/8" x 12"	21-1/2	3.25	3.50	3.75	3.22	1.50	2,250	3,500
3/4" x 6"	17	3.75	4.25	4.68	3.25	1.30	3,000	5,200
3/4" x 9"	20	4.50	5.00	5.38	4.00	1.70	3,000	5,200
3/4" x 12"	23	5.75	5.75	6.12	4.65	2.12	3,000	5,200
3/4" x 18"	29	7.00	7.25	7.25	6.12	2.93	3,000	5,200
7/8" x 6"	18	-	-	-	4.75	2.00	-	7,200
7/8" x 12"	24-5/8	8.38	8.88	9.36	6.67	3.00	4,000	7,200
7/8" x 18"	30-5/8	10.25	10.60	11.44	8.75	4.12	4,000	7,200
1" x 6"	20-5/8	-	-	-	6.41	2.50	-	10,000
1" x 12"	26-5/8	11.25	12.00	12.88	8.90	3.86	5,000	10,000
1" x 18"	32-5/8	14.00	14.75	16.10	11.70	5.50	5,000	10,000
1" x 24"	38-5/8	17.00	17.75	18.60	14.30	7.00	5,000	10,000
1-1/4" x 6"	20	-	-	-	10.40	4.00	-	15,200
1-1/4" x 12"	29-7/8	19.00	21.20	23.60	14.20	5.93	-	15,200
1-1/4" x 18"	35-7/8	24.10	26.00	26.60	18.00	8.00	-	15,200
1-1/4" x 24"	41-7/8	25.00	28.70	31.20	21.80	10.00	-	15,200
1-1/2" x 6"	22-1/2	-	-	-	15.40	5.80	-	21,400
1-1/2" x 12"	32-3/8	27.00	31.10	35.50	20.50	8.40	-	21,400
1-1/2" x 18"	38-3/8	31.20	36.40	40.70	26.20	11.50	-	21,400
1-1/2" x 24"	44-3/8	38.20	44.20	47.60	31.40	14.10	-	21,400
1-3/4" x 6"	-	-	-	-	22.70	8.75	-	28,000
1-3/4" x 18"	41-3/4	45.00	48.80	52.40	-	-	-	28,000
1-3/4" x 24"	47-3/4	58.00	60.00	64.00	43.90	19.50	-	28,000
2" x 6"	-	-	-	-	31.50	12.50	-	37,000
2" x 24"	51-3/4	90.00	102.00	115.00	60.30	27.50	-	37,000
2-1/2" x 6"	-	-	-	-	60.80	27.00	-	60,000
2-1/2" x 24"	58-1/2	183.00	180.00	200.00	110.00	54.00	-	60,000
2-3/4" x 24"	61-1/2	180.00	214.00	248.00	-	54.00	-	75,000

Note: \* Drop Forged, Quenched & Tempered.  
\* Hot Dipped Galvanized.



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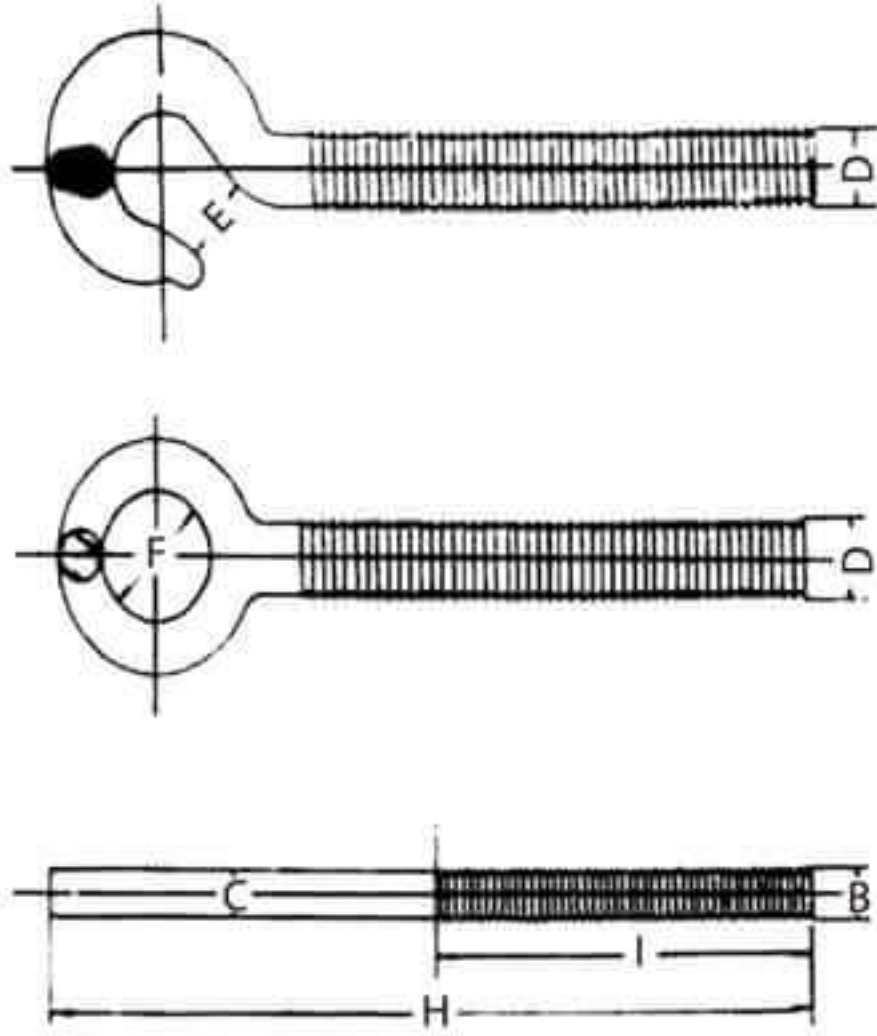
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NONTABURI III20, THAILAND

# TURNBUCKLES

## FRAME TYPE (FORGED STEEL)



(7) Sizes and Weights (Approx.)

Dia. x Outside Length of Frame		Inside Dia. of Eye	W/Pce
m/m		m/m	kg.
19 x 510		37	2.9
22 x 520		31 x 50	3.8
25 x 520		33 x 70	5.2
25 x 900		33 x 70	8.0
32 x 575		36 x 70	9.8
32 x 900		36 x 70	-
38 x 900		40 x 80	-



(2) Eye and Eye (TB-E/E)



(3) Hook and Eye (TB-H/E)



(4) Hook and Hook (TB-H/H)



(5) Oval Eye and Eye (TB-E/E)



(6) With Stubs (TB-S/S)



(7) Long Frame Turnbuckle with Eye and Eye (TB-%)



(1) (6) Sizes and Weights (Approx.)

Nominal Size (D)		(1) Body Only						(2) Eye and Eye			(3) Hook and Eye		(4) Hook and Hook			(6) With Stubs			
		A		B	C	T.L	W/Pce	F	T.L	W/Pce	T.L	W/Pce	E	T.L	W/Pce	H	1(2)	G	W/Pce
m/m	in	m/m	in	m/m	m/m	Ton	kg	m/m	Ton	kg	Ton	kg	m/m	Ton	kg	m/m	m/m	m/m	kg
6	1/4	100	4	78	11	1	0.08	10	0.1	0.116	0.04	0.114	9	0.04	0.112	80	50	5.3	0.112
8	5/16	125	5	100	12.5	1.2	0.15	12	0.2	0.22	0.08	0.218	9	0.08	0.215	100	63	6.9	0.22
9	3/8	150	6	120	12.5	1.5	0.17	16	0.5	0.295	0.15	0.293	1	0.15	0.29	130	75	8.3	0.273
12	1/2	200	8	164	18	2	0.29	20	2	0.6	0.35	0.585	16	0.35	0.57	150	100	11.2	0.51
16	2/3	250	10	202	21.5	3	0.52	22	3	1.07	0.70	1.05	19	0.7	1.03	180	125	14.2	0.95
19	3/4	300	12	250	25	4	0.85	28	4	1.79	1.00	1.78	20	1.0	1.77	220	150	17.2	1.62
22	7/8	325	13	269	28	5	1.17	33	5	2.55	1.50	2.58	21	1.5	2.60	250	165	20.3	2.34
25	1	350	14	285	32.5	6	1.69	35	6	3.8	2.00	3.77	26	2.0	3.73	270	175	23.3	3.27
32	1-1/4	400	16	310	45	8	3.51	36 x 70	10	7.6	3.00	7.52	34	3.0	7.44	300	200	29.0	6.52

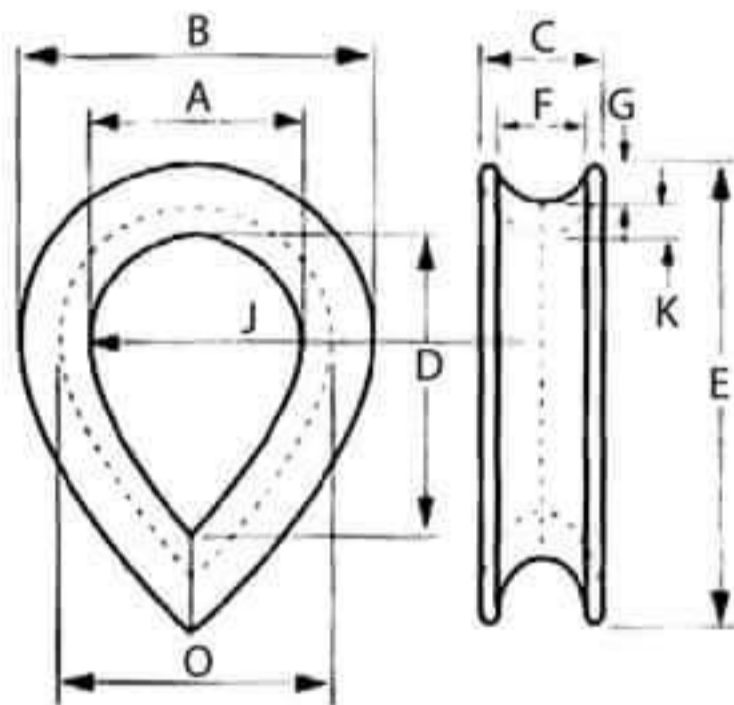


# WIRE ROPE THIMBLES



Ordinary Thimbles

G-464  
Standard



Nominal Size (Dia. of rope)	For Ropes sized by circ.	A	B	C	D	E	F	G	J	K	a
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
8	25	22	38	13	33	54	8	4	64	4	30
10	32	25	48	14	38	64	10	6	76	5	35
11	38	29	54	17	41	73	13	8	76	5	38
13	41	32	59	21	44	77	14	8	89	6	43
14	44	32	59	21	44	79	14	8	89	6	43
16	51	41	75	22	59	98	16	-	114	8	57
17	57	44	79	23	67	108	19	10	127	8	60
19	60	51	92	29	73	124	21	11	152	10	7
21	64	51	92	29	73	124	21	11	152	10	70
22	70	57	102	32	83	133	22	13	165	10	76
24	76	64	110	33	92	146	25	13	178	10	84
25	83	70	119	35	108	162	27	14	203	10	90
29	89	76	133	38	111	178	29	16	229	13	102
32	102	95	152	41	133	197	31	16	254	13	121
35	114	105	175	48	152	229	38	19	305	16	137
38	127	114	197	54	165	254	41	24	330	17	149
41	133	114	197	56	165	254	43	24	330	17	149
44	140	127	229	57	178	286	51	25	356	25	178
48	152	133	248	67	190	318	60	29	381	29	190
51	159	140	257	70	203	330	64	30	406	29	197
54	165	140	257	70	203	330	64	30	406	29	197
57	178	146	270	76	216	356	67	32	432	30	206
64	203	159	311	95	241	413	70	44	457	32	222

Galvanized and  
Stainless Steel

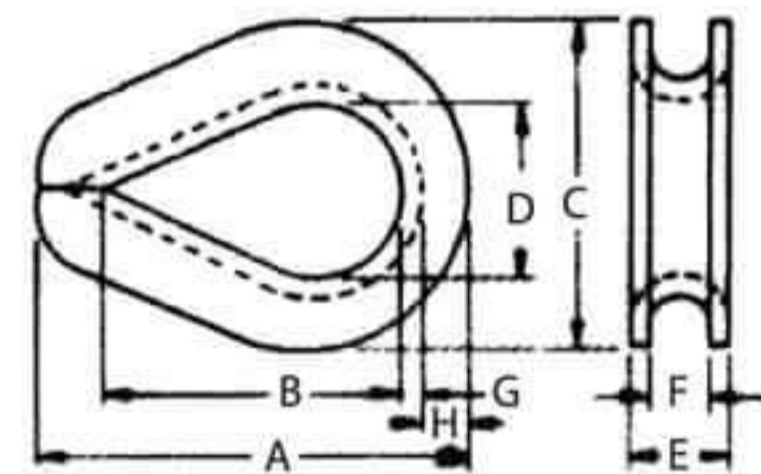
Note : For wire ropes of intermediate sizes the next larger size of thimble shall be used.

## Extra Heavy Wire Rope Thimbles

For Rope Diam. Inches	Dimensions in Inches						Weight Pounds Per 100
	Overall Length	Overall Width	Length Inside	Width Inside	Overall Thickness	Max Pin. Diam.	
* 1/4	2-3/16	1-1/2	1-5/8	7/8	13/32	13/16	7.50
* 5/16	2-1/2	1-3/6	1-7/8	1-1/16	1/2	15/16	14.00
* 3/8	2-7/8	2-1/8	2-1/8	1-1/8	21/32	1-1/16	25.00
7/16	3-1/4	2-3/8	2-3/8	1-1/4	3/4	1-3/16	36.00
* 1/2	3-5/8	2-3/4	2-3/4	1-1/2	27/32	1-7/16	51.00
8/16	3-5/8	2-11/16	2-3/4	1-1/2	29/32	1-7/16	51.00
* 5/8	4-1/4	3-1/8	3-1/4	1-3/4	1	1-5/8	75.00
* 3/4	5	3-3/16	3-3/4	2	1-1/4	1-7/8	147.00
7/8	5-1/2	4-1/4	4-1/4	2-1/4	1-3/8	2-1/8	185.00
* 1	6-1/8	4-15/16	4-1/2	2-1/2	1-9/16	2-3/8	291.66
1-1/8 - 1-1/4	7	5-7/8	5-1/8	2-7/8	1-7/8	2-3/4	383.33
1-1/4 - 1-3/8	9-1/16	6-13/16	6-1/2	3-1/2	2-1/4	3-1/4	816.66
1-3/8 - 1-1/2	9	7-1/8	6-1/4	3-1/2	2-5/8	3-3/8	1,166.66
1-5/8	11-1/4	8-1/8	8	4	2-3/4	3-7/8	1,625.00
1-3/4	12-3/16	8-1/2	9	4-1/2	2-7/8	4-3/8	1,837.50
1-7/8 - 2	15-1/8	10-3/8	12	6	3-1/8	5-7/8	2,575.00
2-1/4	17-1/8	11-7/8	14	7	3-5/8	6-7/8	3,850.00

## SS-414 (Stainless Steel)

\* Sizes Available in  
Stainless (304) Steel.



G-414

## Extra Heavy

A rugged rope thimble recommended for heavy duty service. Thimbles G-414 meet Federal Specification FF-T-276b Type III.



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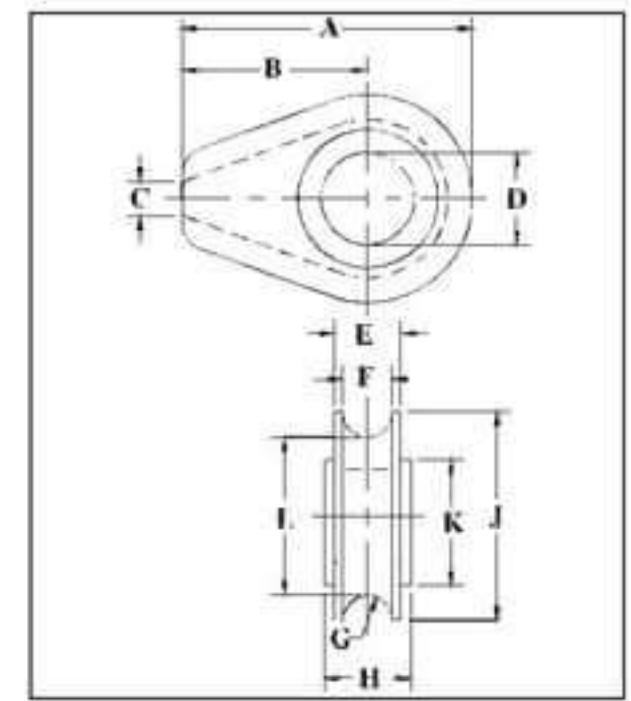
# THIMBLE



S-412



- Cast ductile iron.
- Fits pin for open wire rope socket, boom pendant clevis, and wedge socket.



## Solid Wire Rope Thimbles

Rope Diameter		Stock No	Weight Per 100 (lb)	Dimensions (in)										
(in)	(mm)			A	B	C	D	E	F	G	H	J	K	L
1/2	13	1037121	.61	2.81	1.75	.25	1.06	.75	.56	.28	.88	2.13	1.63	1.56
5/8	16	1037149	2.21	4.69	3.00	.38	1.31	1.06	.81	.41	1.13	3.38	2.25	2.56
3/4	18-20	1037167	2.32	4.69	3.00	.38	1.50	1.06	.81	.41	1.38	3.38	2.25	2.56
7/8	22	1037185	5.45	6.06	3.81	.50	1.75	1.38	1.06	.53	1.63	4.50	3.25	3.44
1	24-26	1037201	5.25	6.06	3.81	.50	2.13	1.38	1.06	.53	1.81	4.50	3.25	3.44
1-1/8	28-30	1037229	9.29	7.25	4.56	.63	2.38	1.75	1.31	.66	2.06	5.38	3.88	4.06
1-1/4 - 1-3/8	32-35	1037247	9.81	7.25	4.56	.63	2.63	1.94	1.53	.78	2.31	5.38	3.88	4.13

SIRIMONGKOL CORPORATION LTD.



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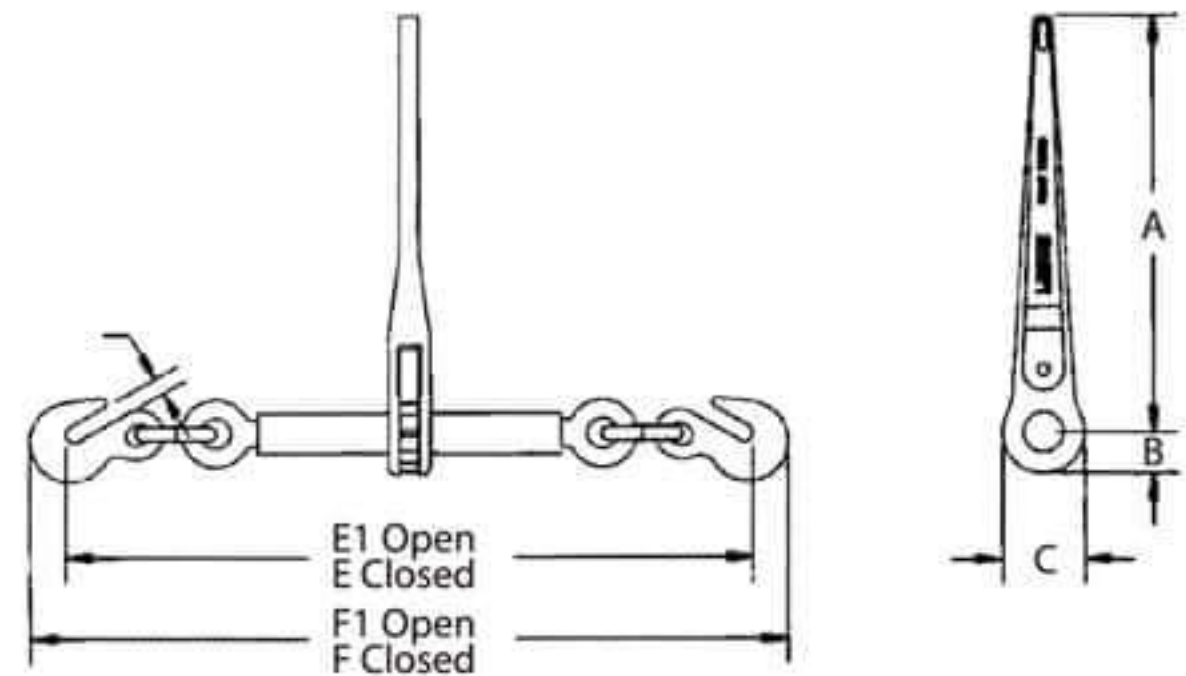
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# LOAD BINDERS

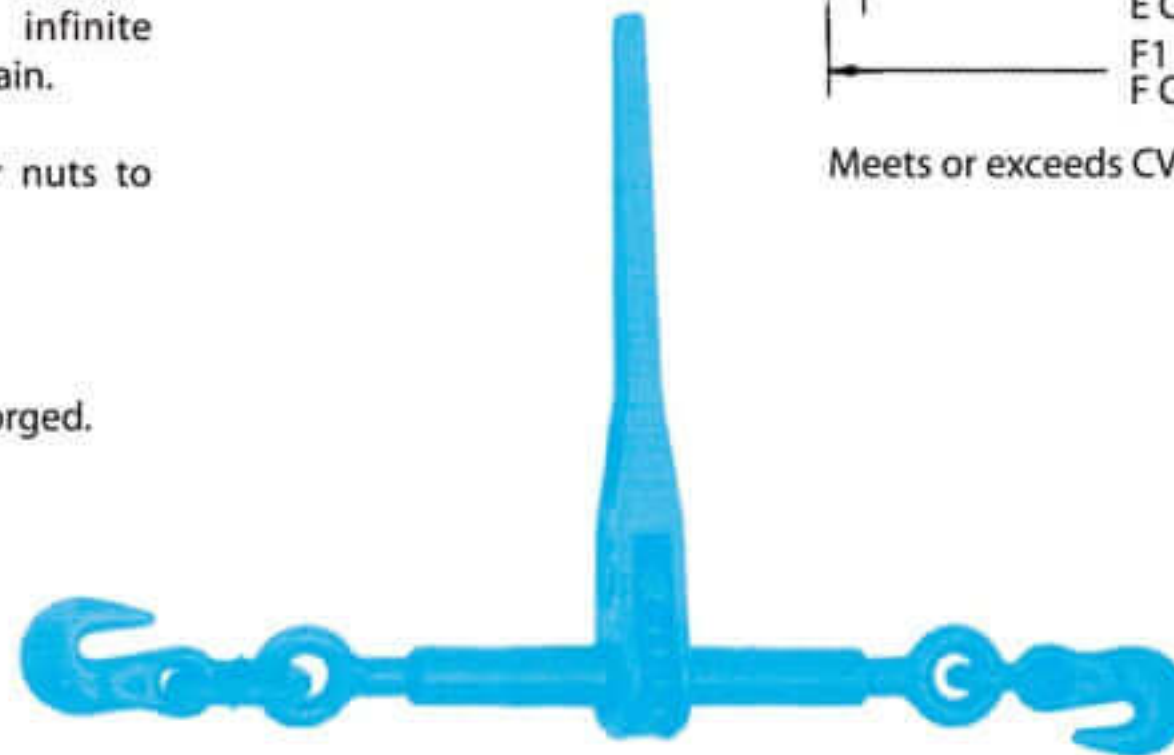
## STANDARD RATCHET TYPE LOAD BINDER



- Continuous take-up feature, infinite adjustment, gets the last half of chain.
- One piece assembly, no bolts or nuts to loosen.
- Ratchet spring rust proofed.
- All load bearing or holding parts forged.
- Easy operating positive ratchet.



Meets or exceeds CVSA Cargo Securement Guidelines, August 1993.

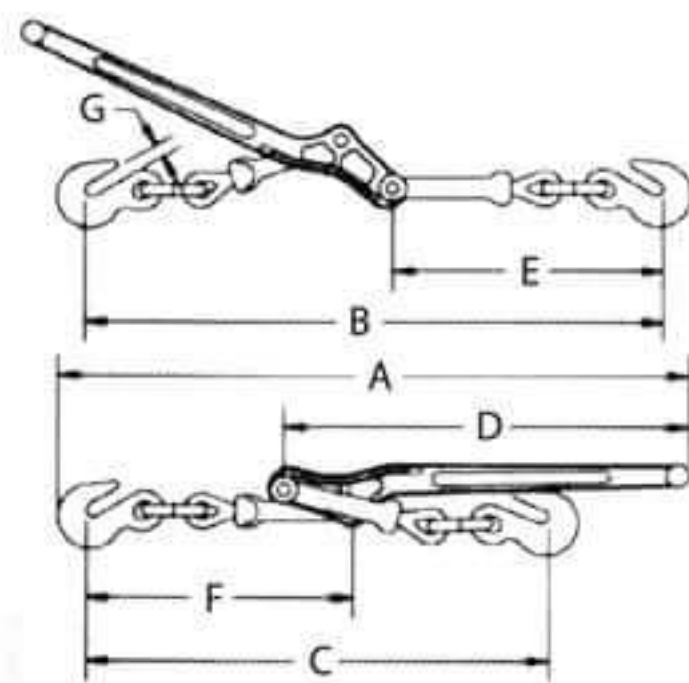


L-140

Model	Stock No.	Min-Max Chain Size (in.)	Working Load Limit (lbs.)	Proof Load (lbs.)	Minimum Ultimate Strength (lbs.)	Weight Each (lbs.)	Handle Length (in.)	Barrel Length (in.)	Take Up (in.)	Dimensions (in.)							
										A	B	C	E	E1	F	F1	G
R-7	1048404	5/16 - 3/8	5,400	10,800	19,000	10.50	14	10	8.0	14.00	1.38	2.75	22.94	30.94	25.13	33.13	0.50
R-A	1048422	3/8 - 1/2	9,200	18,400	33,000	12.90	14	10	8.0	14.00	1.38	2.75	25.25	33.25	27.63	35.63	0.63
R-C	1048440	1/2 - 5/8	13,000	26,000	46,000	14.38	14	10	8.0	14.00	1.38	2.75	26.38	34.38	29.44	37.44	0.72

Note : Blinder shown with Proof Load Pounds have been individually Proof Tested to these values shown, prior to shipment.

## Standard Lever Type Load Binder



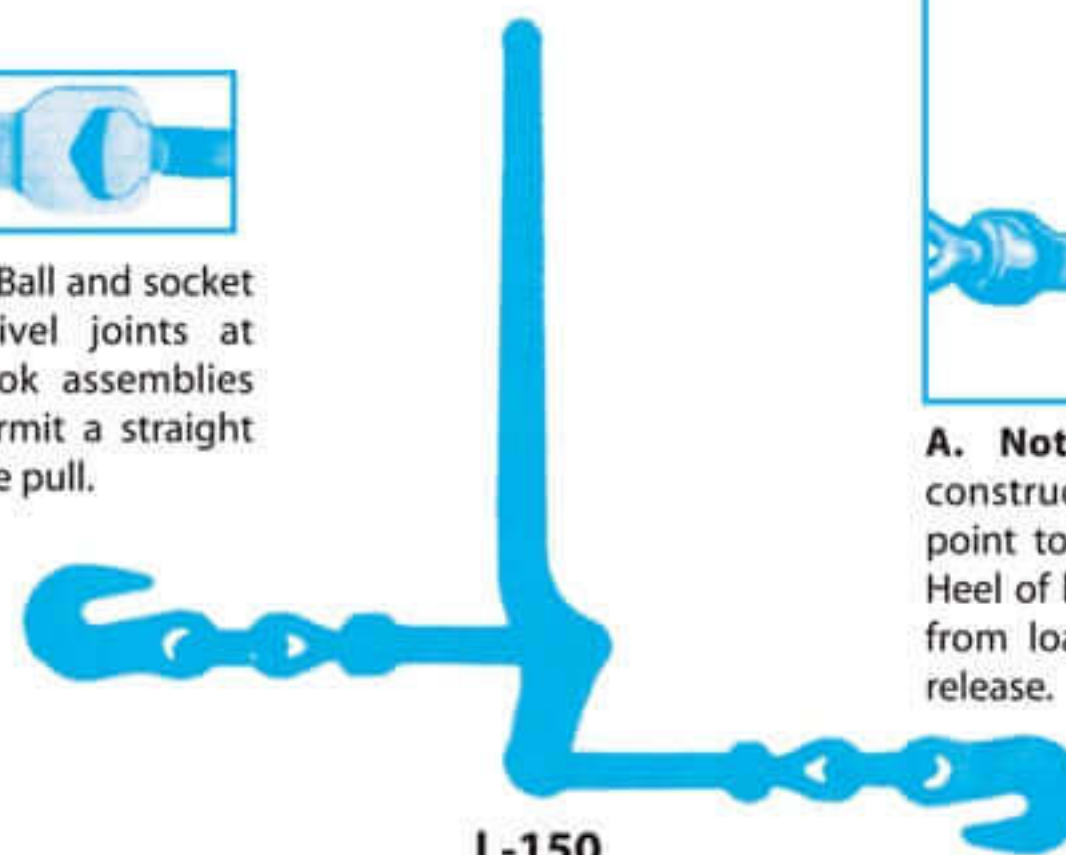
Meets or exceeds CVSA Cargo Securement Guidelines, August 1993.



B. Ball and socket swivel joints at hook assemblies permit a straight line pull.



A. Note : Extra heavy construction at leverage point to prevent spreading. Heel of binder toggles away from load, permitting easy release.



L-150

Model	Stock No.	Std. Pkg.	Min-Max Chain Size (in.)	Working Load Limit (lbs.)	Proof Load (lbs.)	Minimum Ultimate Strength (lbs.)	Weight Each (lbs.)	Handle Length (in.)	Take Up (in.)	Dimensions (in.)							
										A	B	C	D	E	F	G	
7-1	1048128	4	5/16 - 3/8	5,400	10,800	19,000	6.70	16.00	4.50	24.13	22.13	17.88	16.00	10.38	10.38	0.50	
A-1	1048146	4	3/8 - 1/2	9,200	18,400	33,000	11.50	18.50	4.50	27.81	25.75	21.25	18.69	12.00	12.00	0.63	
C-1	1048164	4	1/2 - 5/8	13,000	26,000	46,000	18.70	21.00	4.50	31.25	29.75	25.00	21.00	14.63	13.75	0.72	



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# SPELTER SOCKETS

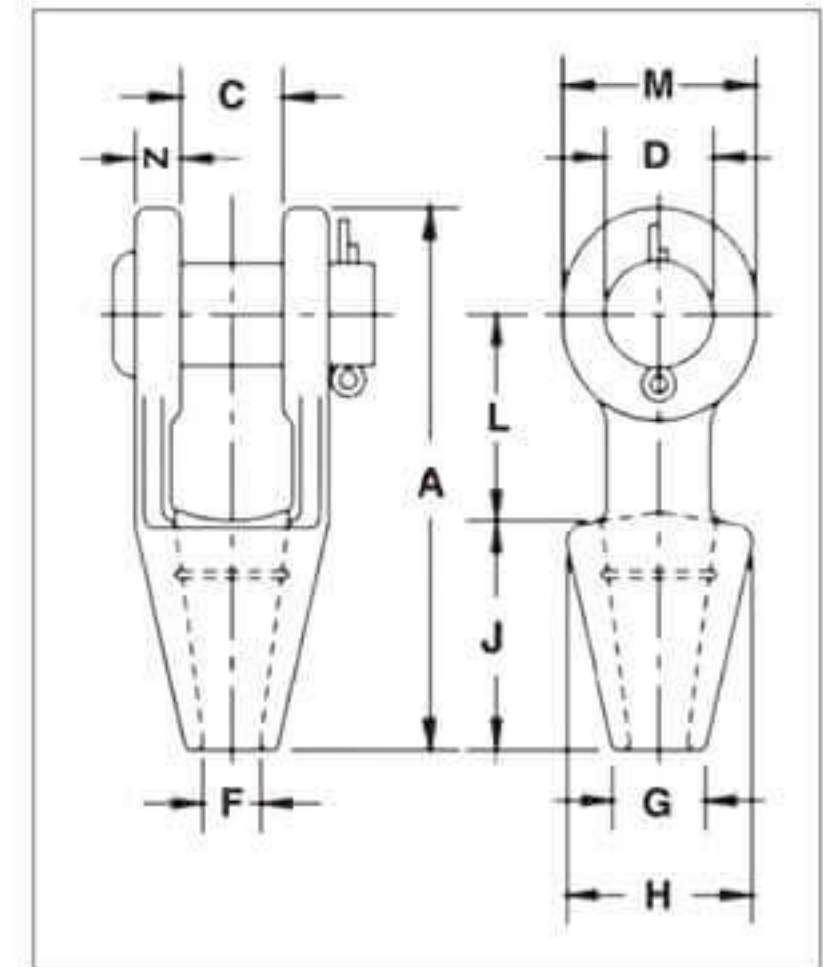
## WIRE ROPE END FITTINGS



G-416 / S-416



- Forged steel sockets through 1-1/2", cast alloy steel 1-5/8" through 4".
- Spelter socket terminations have an efficiency rating of 100%, based on the catalog strength of wire rope.
- Ratings are based on recommended use with 6 x 7, 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.
- Strand constructed with minimal number of wires (e.g. 1 x 7) requires special consideration that socket basket length be five (5) times the strand diameter or fifty (50) times the wire diameter, whichever is the greater.
- All cast steel sockets 1-5/8" and larger are magnetic particle inspected and ultrasonic inspected. Proof testing available on special order.
- Available with bolt nut and cotter: G-416B.
- Open Grooved Sockets meet the performance requirements of Federal Specification RR-S-550F, Type A, except for those provisions required of the contractor.



### G-416 / S-416 Open Spelter Sockets

Rope Dia.		Structural Strand Dia. (in)	Ultimate Load (t)	Stock No.		Weight Each (lb)	Dimensions (in)										Tolerance +/-
(in)	(mm)			G-416 Galv.	S-416 S.C.		A	C	D	F	G	H	J	L	M	N	
5/16-3/8	8-10	—	12	1039637	1039646	1.30	4.84	.81	.81	.50	.81	1.69	2.25	1.75	1.50	.44	.06
7/16-1/2	11-13	—	20	1039655	1039664	2.25	5.56	1.00	1.00	.56	.94	1.88	2.50	2.00	1.88	.50	.06
9/16-5/8	14-16	1/2	27	1039673	1039682	3.60	6.75	1.25	1.19	.69	1.13	2.25	3.00	2.50	2.25	.56	.06
3/4	18	9/16-5/8	43	1039691	1039708	5.83	7.94	1.50	1.38	.81	1.25	2.62	3.50	3.00	2.62	.62	.06
7/8	20-22	11/16-3/4	55	1039717	1039726	9.65	9.25	1.75	1.63	.94	1.50	3.25	4.00	3.50	3.13	.80	.06
1	24-26	13/16-7/8	78	1039735	1039744	15.50	10.56	2.00	2.00	1.13	1.75	3.75	4.50	4.00	3.75	.88	.06
1-1/8	28-30	15/16-1	92	1039753	1039762	21.50	11.81	2.25	2.25	1.25	2.00	4.12	5.00	4.62	4.12	1.00	.12
1-1/4 - 1-3/8	32-35	1-1/16 - 1-1/8	136	1039771	1039780	31.00	13.19	2.50	2.50	1.50	2.25	4.75	5.50	5.00	4.75	1.13	.12
1-1/2	38	1-3/16 - 1-1/4	170	1039799	1039806	47.25	15.12	3.00	2.75	1.63	2.75	5.25	6.00	6.00	5.38	1.19	.12
* 1-5/8	* 40-42	1-5/16 - 1-3/8	188	1039815	1039824	55.00	16.25	3.00	3.00	1.75	3.00	5.50	6.50	6.50	5.75	1.31	.12
* 1-3/4 - 1-7/8	* 44-48	1-7/16 - 1-5/8	268	1039833	1039842	82.00	18.25	3.50	3.50	2.00	3.13	6.38	7.50	7.00	6.50	1.56	.12
* 2 - 2-1/8	* 50-54	1-11/16 - 1-3/4	291	1039851	1039860	129.00	21.50	4.00	3.75	2.25	3.75	7.38	8.50	9.00	7.00	1.81	.12
* 2-1/4 - 2-3/8	* 56-60	1-13/16 - 1-7/8	360	1039879	1039888	167.00	23.50	4.50	4.25	2.50	4.00	8.25	9.00	10.00	7.75	2.13	.12
* 2-1/2 - 2-5/8	* 64-67	1-15/16 - 2-1/8	424	1041633	1041642	252.00	25.50	5.00	4.75	2.88	4.50	9.25	9.75	10.75	8.50	2.38	.12
* 2-3/4 - 2-7/8	* 70-73	2-3/16 - 2-7/16	511	1041651	1041660	315.00	27.25	5.25	5.00	3.12	4.88	10.50	11.00	11.00	9.00	2.88	.25
* 3 - 3-1/8	* 75-80	2-1/2 - 2-5/8	563	1041679	1041688	380.00	29.00	5.75	5.25	3.38	5.25	11.12	12.00	11.25	9.50	3.00	.25
* 3-1/4 - 3-3/8	* 82-86	2-3/4 - 2-7/8	722	1041697	1041704	434.00	30.88	6.25	5.50	3.62	5.75	11.88	13.00	11.75	10.00	3.12	.25
* 3-1/2 - 3-5/8	* 88-92	3 - 3-1/8	779	1041713	1041722	563.00	33.25	6.75	6.00	3.88	6.50	12.38	14.00	12.50	10.75	3.25	.25
* 3-3/4 - 4	* 94-102	—	875	1041731	1041740	783.00	36.25	7.50	7.00	4.25	7.25	13.62	15.00	13.50	12.50	3.50	.25

\* Cast alloy steel.



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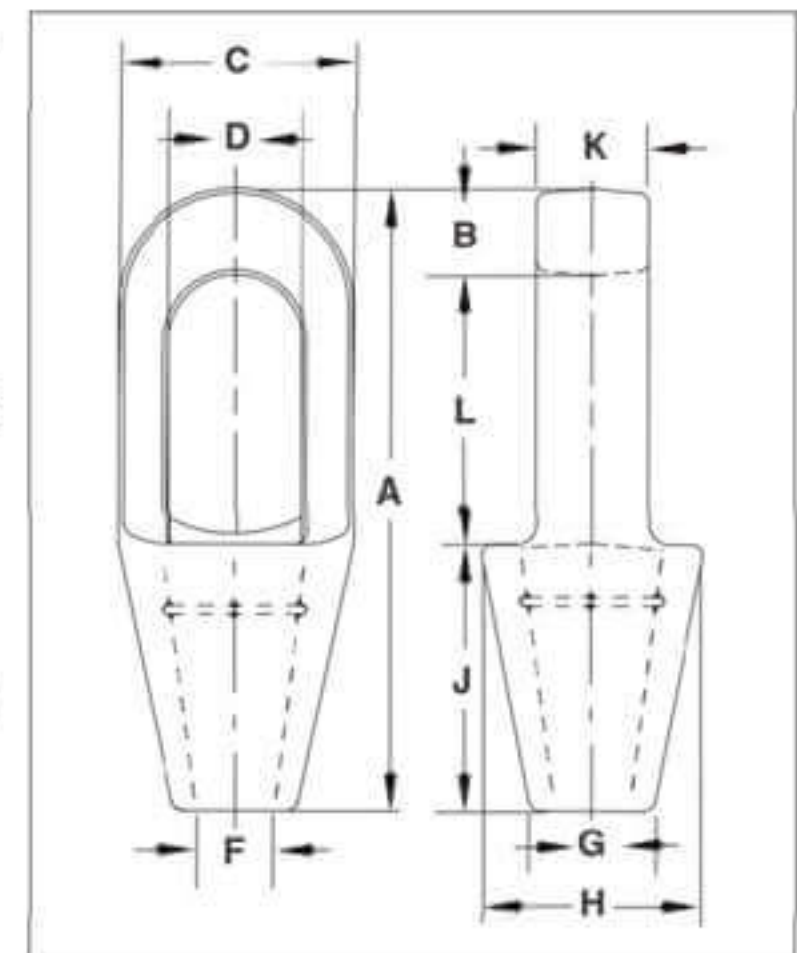
# SPELTER SOCKETS



## G-417 / S-417



- Forged steel sockets through 1-1/2", cast alloy steel 1-5/8" through 4".
- Spelter socket terminations have an efficiency rating of 100%, based on the catalog strength of wire rope.
- Ratings are based on recommended use with 6 x 7, 6 x 19, or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC, or IWRC wire rope.
- Strand constructed with minimal number of wires (e.g. 1 x 7) requires special consideration that socket basket length be five (5) times the strand diameter or fifty (50) times the wire diameter, whichever is the greater.
- All cast steel sockets 1-5/8" and larger are magnetic particle inspected and ultrasonic inspected. Proof testing available on special order.
- Closed Grooved Sockets meet the performance requirements of Federal Specification RR-S-550F, Type B, except for those provisions required of the contractor.



## G-417 / S-417 Closed Spelter Sockets

Rope Dia.		Structural Strand Dia. (in)	Ultimate Load (t)	Stock No.		Weight Each (lb)	Dimensions (in)									
(in)	(mm)			G-417 Galv.	S-417 S.C.		A	B	C	D*	F	G	H	J	K	L
5/16 - 3/8	8-10	—	12.0	1039913	1039922	.75	4.94	.62	1.69	.97	.50	.81	1.69	2.25	.69	2.06
7/16 - 1/2	11-13	—	20.0	1039931	1039940	1.50	5.50	.69	2.00	1.16	.56	.94	2.00	2.50	.88	2.31
9/16 - 5/8	14-16	1/2	30.8	1039959	1039968	2.50	6.31	.81	2.63	1.41	.69	1.12	2.38	3.00	1.00	2.50
3/4	18	9/16 - 5/8	43.5	1039977	1039986	4.25	7.62	1.06	3.00	1.66	.88	1.25	2.75	3.50	1.25	3.06
7/8	20-22	11/16 - 3/4	65.3	1039995	1040000	7.25	8.75	1.25	3.63	1.94	1.00	1.50	3.25	4.00	1.50	3.50
1	24-26	13/16 - 7/8	81.6	1040019	1040028	10.50	9.91	1.41	4.13	2.30	1.13	1.75	3.75	4.50	1.75	4.00
1-1/8	28-30	15/16 - 1	100	1040037	1040046	14.25	11.00	1.50	4.50	2.56	1.25	2.00	4.13	5.00	2.00	4.50
1-1/4 - 1-3/8	32-35	1-1/16 - 1-1/8	136	1040055	1040064	19.75	12.12	1.63	5.00	2.81	1.50	2.25	4.75	5.50	2.25	5.00
1-1/2	38	1-3/16 - 1-1/4	170	1040073	1040082	29.20	13.94	1.94	5.38	3.19	1.63	2.75	5.25	6.00	2.50	6.00
† 1-5/8	† 40-42	1-5/16 - 1-3/8	188	1040091	1040108	36.00	15.13	2.13	5.75	3.25	1.75	3.00	5.50	6.50	2.75	6.50
† 1-3/4 - 1-7/8	† 44-48	1-7/16 - 1-5/8	268	1040117	1040126	57.25	17.25	2.19	6.75	3.75	2.00	3.13	6.38	7.50	3.00	7.56
† 2 - 2-1/8	† 50-54	1-11/16 - 1-3/4	309	1040135	1040144	79.00	19.87	2.44	7.63	4.38	2.25	3.75	7.38	8.50	3.25	8.81
† 2-1/4 - 2-3/8	† 56-60	1-13/16 - 1-7/8	360	1040153	1040162	105.00	21.50	2.75	8.50	5.00	2.63	4.13	8.25	9.00	3.63	9.75
† 2-1/2 - 2-5/8	† 64-67	1-15/16 - 2-1/8	424	1041759	1041768	140.00	23.50	3.12	9.50	5.50	2.88	4.50	9.25	9.75	4.00	10.62
† 2-3/4 - 2-7/8	† 70-73	2-3/16 - 2-7/16	549	1041777	1041786	220.00	25.38	3.12	10.75	6.25	3.12	4.88	10.19	11.00	4.88	11.25
† 3 - 3-1/8	† 75-80	2-1/2 - 2-5/8	656	1041795	1041802	276.00	27.12	3.37	11.50	6.75	3.38	5.25	11.50	12.00	5.25	11.75
† 3-1/4 - 3-3/8	† 82-86	2-3/4 - 2-7/8	750	1041811	1041820	313.00	29.25	4.00	12.25	7.25	3.62	5.75	12.25	13.00	5.75	12.25
† 3-1/2 - 3-5/8	† 88-92	3 - 3-1/8	820	1041839	1041848	400.00	31.00	4.00	13.00	7.75	3.88	6.31	13.00	14.00	6.25	13.00
† 3-3/4 - 4	† 94 - 102	—	1005	1041857	1041866	542.00	33.25	4.25	14.25	8.50	4.25	7.25	14.25	15.00	7.00	14.00

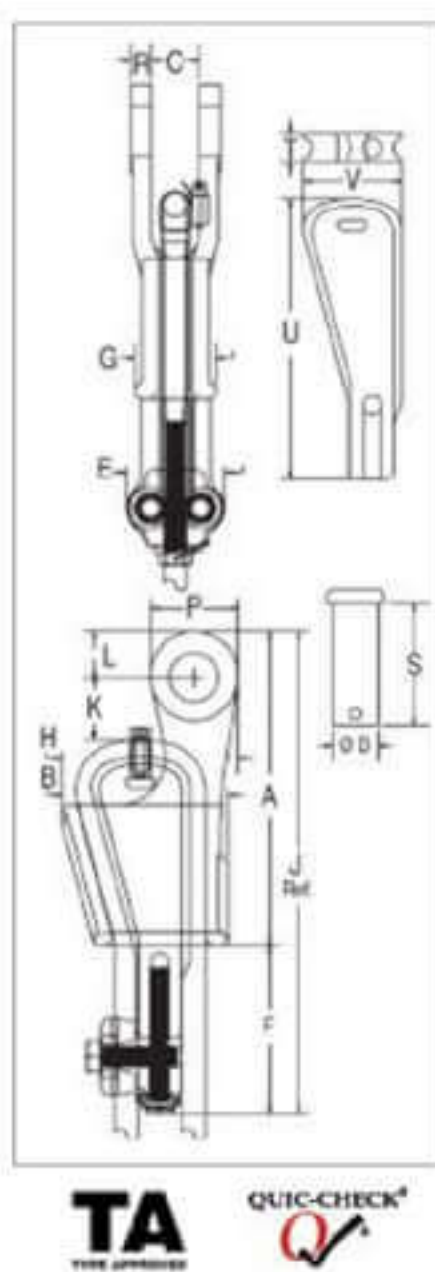
\* Diameter of pin must not exceed pin used on companion 416 socket. Reference adjacent page "D" dimension. † Cast alloy steel.



# WEDGE SOCKET



S-421T



- Wedge socket terminations have an efficiency rating of 80% based on the catalog strength of XXIP wire rope.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these sockets meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Type Approval certification in accordance with ABS rules for conditions of classification, Part 1 2017 Steel Vessels and ABS guide for certification of lifting appliances 2017 available. Certificates available when requested at time of order and may include additional charges.
- Basket is cast steel and individually magnetic particle inspected.
- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.
- Secures the tail or dead end of the wire rope to the wedge, thus eliminates loss or punch out of the wedge.
- Eliminates the need for an extra piece of rope and is easily installed.
- The Terminator wedge eliminates the potential breaking off of the tail due to fatigue.
- The tail, which is secured by the base of the clip and the wedge, is left undeformed.
- Incorporates Crosby's patented QUIC-CHECK® 'Go' and 'No-Go' feature cast into the wedge. The proper size rope is determined when the following criteria are met:
  - 1) The wire rope should pass through the 'Go' hole in the wedge.
  - 2) The wire rope should NOT pass through the 'No-Go' hole in the wedge.
- Utilizes standard Crosby Red U-Bolt® wire rope clip.
- The 3/8 through 1-1/8 standard S-421 wedge socket can be retrofitted with the new style Terminator wedge.
- Available with bolt, nut, and cotter pin: S-421TB.
- US patent 5,553,360, Canada patent 2,217,004, and foreign equivalents.
- Meets the performance requirements of EN 13411-6.
- Available with API-2C certification upon request.
- Wedge sockets meet the performance requirements of Federal specification RR-S-550F, Type C, except those provisions required of the contractor.
- The S-423T Super Terminator wedge is designed to be assembled only into the Crosby S-421T Terminator socket body. Important: The S-423TW for sizes 5/8" through 1-1/8" (14mm through 28mm) will fit respective size standard Crosby S-421T basket. The 1-1/4" (30-32mm) S-423TW will only fit the Crosby S-421T 1-1/4" basket marked with Terminator.

APPLICATION AND WARNING INFORMATION  
SECTION 17

## S-421T WEDGE SOCKETS (Assembly includes socket, wedge, pin and wire rope clip)

Wire Rope Dia.		Stock No.	Weight Each (lb)	Wedge Only	Weight Each (lb)	Standard Bolt, Nut & Cotter Assy	Weight Each (lb)
(in)	(mm)						
3/8	9-10	1035000	3.30	1035555	.50	2038971	.38
1/2	11-13	1035009	6.10	1035564	1.05	2038972	.69
5/8	14-16	1035018	10.5	1035573	1.79	2038974	1.15
3/4	18-19	1035027	16.4	1035582	2.60	2038976	1.91
7/8	20-22	1035036	24.8	1035591	4.00	2038978	3.23
1	24-26	1035045	35.5	1035600	5.37	2038980	5.40
1-1/8	28	1035054	48.8	1035609	7.30	2038982	7.50
1-1/4	30-32	1035063	71.5	1035618	10.60	2038984	10.34

Wire Rope Dia.		S-421T Stock No.	S-421TB Stock No.	Dimensions (in)														
(in)	(mm)			A	B	C +/- .09	D	G	H	J*	K*	L	P	R	S	T	U	V
3/8	9-10	1035000	1035203	5.69	2.72	.81	.81	1.38	3.06	7.80	1.88	.88	1.56	.44	2.13	.44	1.25	1.38
1/2	11-13	1035009	1035212	6.88	3.47	1.00	1.00	1.62	3.76	8.91	1.26	1.06	1.94	.50	2.56	.53	1.75	1.88
5/8	14-16	1035018	1035221	8.25	4.30	1.25	1.19	2.12	4.47	10.75	1.99	1.22	2.25	.56	3.25	.69	2.00	2.19
3/4	18-19	1035027	1035230	9.88	5.12	1.50	1.38	2.44	5.28	12.36	2.41	1.40	2.63	.66	3.63	.78	2.34	2.56
7/8	20-22	1035036	1035249	11.25	5.85	1.75	1.63	2.69	6.16	14.37	2.48	1.67	3.13	.75	4.31	.88	2.69	2.94
1	24-26	1035045	1035258	12.81	6.32	2.00	2.00	2.94	6.96	16.29	3.04	2.00	3.75	.88	4.70	1.03	2.88	3.28
1-1/8	28	1035054	1035267	14.38	6.92	2.25	2.25	3.31	7.62	18.34	2.56	2.25	4.25	1.00	5.44	1.10	3.25	3.56
1-1/4	30-32	1035063	1035276	16.34	8.73	2.62	2.50	3.56	9.39	20.48	2.94	2.34	4.50	1.06	6.13	1.19	4.62	4.94

\* Nominal note: For intermediate wire rope sizes, use next larger size socket.

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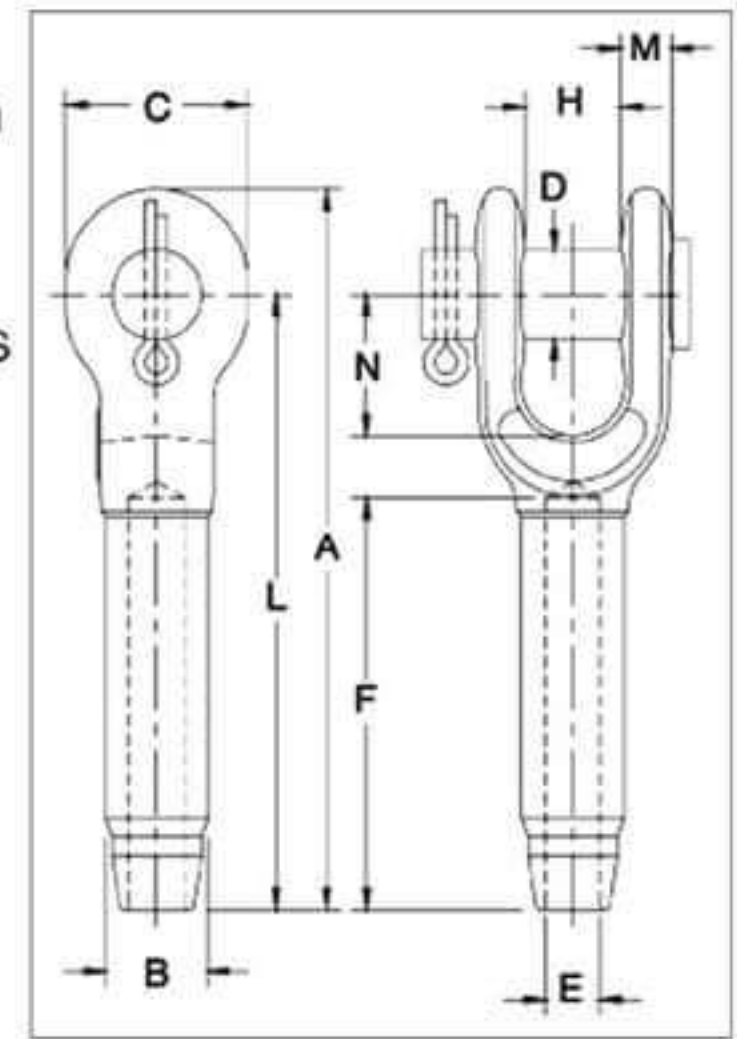
# WEDGE SOCKET



S-501



- Forged from special bar quality carbon steel, suitable for cold forming.
- Swage socket terminations have an efficiency rating of 100% based on the catalog strength of wire rope.
- Hardness controlled by spheroidize annealing.
- Stamp for identification after swaging without concern for fractures (as per directions in Wire Rope End Terminations User's Manual).
- Swage sockets incorporate a reduced machined area of the shank which is equivalent to the proper 'after swage' dimension. Before swaging, this provides for an obvious visual difference in the shank diameter. After swaging, a uniform shank diameter is created allowing for a QUIC-CHECK® and permanent visual inspection opportunity.
- S-501 Swage Sockets are recommended for use with 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.
- In accordance with ASME B30.9, all slings terminated with swage sockets shall be proof loaded.\*



## S-501 Open Swage Sockets

S-501 and S-501B Open Socket Specifications																	Swager / Die Data					
S-501 Stock No.	S-501B Stock No. †	Rope Size		Wt. Each (lb)	Ultimate Load** (t)	Before Swage Dimensions (in)										Tolerance +/-	Max. After Swage Dim. (in)	Die Description	Stock No.		Side Load	
		(in)	(mm)			A	B	C	D	E	F	H	L	M	N				H	500 Ton 5 x 7	1500 Ton 6 x 12	1500 Ton 6 x 12
1039021	1054001	1/4	6	.52	5.4	4.78	.50	1.38	.69	.27	2.19	.69	4.00	.38	1.47	.06	.46	1/4 Socket	1192845	-	-	-
1039049	1054010	5/16	8	1.12	11.8	6.3	.78	1.62	.81	.34	3.25	.80	5.34	.48	1.67	.06	.71	5/16-3/8 Socket	1192863	-	-	-
1039067	1054029	3/8	9-10	1.30	13.6	6.3	.78	1.62	.81	.41	3.25	.80	5.34	.48	1.67	.06	.71	5/16-3/8 Socket	1192863	-	-	-
1039085	1054038	7/16	11-12	2.08	18.1	7.82	1.01	2.00	1.00	.49	4.31	1.00	6.69	.56	1.96	.06	.91	7/16-1/2 Socket	1192881	-	-	-
1039101	1054047	1/2	13	2.08	21.3	7.82	1.01	2.00	1.00	.55	4.31	1.00	6.69	.56	1.96	.06	.91	7/16-1/2 Socket	1192881	-	-	-
1039129	1054056	9/16	14	4.67	31.8	9.54	1.27	2.38	1.19	.61	5.38	1.25	8.13	.68	2.21	.06	1.16	9/16-5/8 Socket	1192907	-	-	-
1039147	1054065	5/8	16	4.51	34.9	9.54	1.27	2.38	1.19	.68	5.38	1.25	8.13	.68	2.21	.06	1.16	9/16-5/8 Socket	1192907	-	-	-
1039165	1054074	3/4	18-20	7.97	43.5	11.61	1.56	2.75	1.38	.80	6.44	1.50	10.00	.80	2.69	.06	1.42	3/4 Socket	1192925	-	-	-
1039183	1054083	7/8	22	11.52	51.5	13.37	1.72	3.13	1.63	.94	7.50	1.75	11.63	.94	3.20	.07	1.55	7/8 Socket	1192943	-	-	-
1039209	1054092	1	24-26	17.80	71.4	15.47	2.00	3.69	2.00	1.07	8.63	2.00	13.38	1.07	3.68	.08	1.80	1 Socket	1192961	-	-	-
1039227	1054104	1-1/8	28	25.25	83.3	17.35	2.25	4.12	2.25	1.19	9.63	2.25	15.00	1.19	4.18	.10	2.05	1-1/8 Socket	1192989	-	-	-
1039245	1054113	1-1/4	32	35.56	109	19.2	2.53	4.59	2.50	1.34	10.69	2.50	16.50	1.27	4.68	.10	2.30	1-1/4 Socket	1193005	-	-	-
1039263	1054122	1-3/8	34-36	43.75	136	21.1	2.81	5.25	2.50	1.46	11.88	2.41	18.13	1.46	5.25	.10	2.56	1-3/8 Socket	1193023	-	-	-
1039281	1054131	1-1/2	38-40	58.50	181	23.17	3.08	5.50	2.75	1.59	12.81	3.00	19.75	1.70	5.70	.10	2.81	1-1/2 Socket	1193041	1191267	1195355	1195192
1039307	1054140	1-3/4	44	88.75	228	26.7	3.40	6.25	3.50	1.87	15.06	3.50	23.00	2.11	6.67	.10	3.06	1-3/4 Socket	1193069	1191276	1195367	1195209
1042767	1054159	2	48-52	146.2	272	31.15	3.94	7.80	3.75	2.12	17.06	4.00	26.75	1.81	8.19	.10	3.56	2 Socket	1193087	1191294	1195379	1195218

\*Maximum Proof Load shall not exceed 50% of XXIP rope catalog breaking strength. \*\* The Ultimate Loads of 3/4" through 1 1/4" sizes have been increased to meet the requirements for 8 strand 2160 Grade pendants. † Assembly with bolt, nut and cotter pin. Note: Fittings designed only to be used on exact sizes listed. NOTE: Before using any Crosby fitting with any other type lay, construction or grade of wire rope, it is recommended that the termination be destructive tested and documented to prove the adequacy of the assembly to be manufactured.

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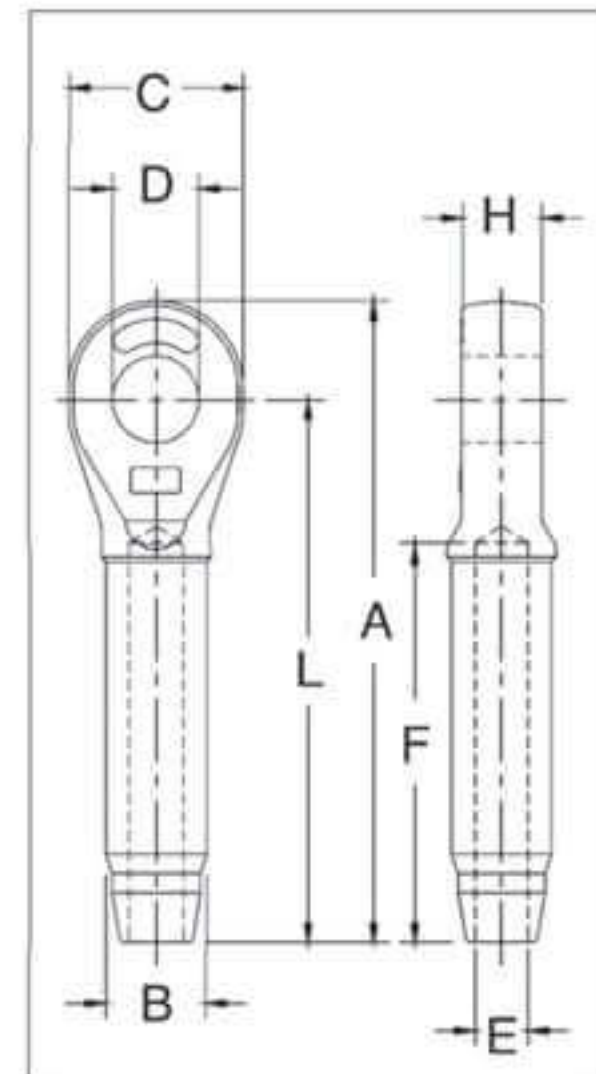
# WEDGE SOCKET



S-502



- Forged from special bar quality carbon steel, suitable for cold forming.
- Swage socket terminations have an efficiency rating of 100% based on the catalog strength of wire rope.
- Hardness controlled by spheroidize annealing.
- Stamp for identification after swaging without concern for fractures (as per directions in Wire Rope End Terminations User's Manual).
- Swage sockets incorporate a reduced machined area of the shank which is equivalent to the proper 'after swage' dimension. Before swaging, this provides for an obvious visual difference in the shank diameter. After swaging, a uniform shank diameter is created allowing for a QUIC-CHECK® and permanent visual inspection opportunity.
- S-502 Swage Sockets are recommended for use with 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.
- In accordance with ASME B30.9, all slings terminated with swage sockets shall be proof loaded.\*



## S-502 Closed Swage Sockets

S-502 Stock No.	Rope Size		Wt. Each (lb)	Ultimate Load** (t)	Before Swage Dimensions (in)								Max. After Swage Dim. (in)	Die Description	Swager / Die Data			
	(in)	(mm)													Stock No.		Side Load	
					A	B	C	D	E	F	H	L			500 Ton 5 x 7	1500 Ton 6 x 12	1500 Ton 6 x 12	3000 Ton 6 x 12
1039325	1/4	6	.33	5.4	4.28	.50	1.38	.76	.27	2.19	.50	3.50	.46	1/4 Socket	1192845	-	-	-
1039343	5/16	8	.75	11.8	5.42	.77	1.62	.88	.34	3.25	.68	4.50	.71	5/16-3/8 Socket	1192863	-	-	-
1039361	3/8	9-10	.72	13.6	5.42	.78	1.62	.88	.41	3.25	.68	4.50	.71	5/16-3/8 Socket	1192863	-	-	-
1039389	7/16	11-12	1.42	18.1	6.88	1.01	2.00	1.07	.49	4.31	.87	5.75	.91	7/16-1/2 Socket	1192881	-	-	-
1039405	1/2	13	1.42	21.3	6.88	1.01	2.00	1.07	.55	4.31	.87	5.75	.91	7/16-1/2 Socket	1192881	-	-	-
1039423	9/16	14	2.92	31.8	8.59	1.27	2.38	1.28	.61	5.38	1.14	7.25	1.16	9/16-5/8 Socket	1192907	-	-	-
1039441	5/8	16	2.85	34.9	8.59	1.27	2.38	1.28	.68	5.38	1.14	7.25	1.16	9/16-5/8 Socket	1192907	-	-	-
1039469	3/4	18-20	5.00	43.5	10.25	1.56	2.88	1.49	.80	6.44	1.33	8.63	1.42	3/4 Socket	1192925	-	-	-
1039487	7/8	22	6.80	51.5	11.87	1.72	3.12	1.73	.94	7.50	1.53	10.09	1.55	7/8 Socket	1192943	-	-	-
1039502	1	24-26	10.40	71.4	13.56	2.00	3.62	2.11	1.07	8.63	1.78	11.50	1.80	1 Socket	1192961	-	-	-
1039520	1-1/8	28	14.82	83.3	15.03	2.25	4.00	2.37	1.19	9.75	2.03	12.75	2.05	1-1/8 Socket	1192989	-	-	-
1039548	1-1/4	32	21.57	109	16.94	2.53	4.50	2.62	1.34	10.81	2.25	14.38	2.30	1-1/4 Socket	1193005	-	-	-
1039566	1-3/8	34-36	28.54	136	18.59	2.81	5.00	2.62	1.46	11.88	2.29	15.75	2.56	1-3/8 Socket	1193023	-	-	-
1039584	1-1/2	38-40	38.06	181	20.13	3.08	5.38	2.87	1.59	12.81	2.56	17.00	2.81	1-1/2 Socket	1193041	1191267	1195355	1195192
1039600	1-3/4	44	51.00	228	23.56	3.40	6.25	3.63	1.87	15.06	3.08	20.00	3.06	1-3/4 Socket	1193069	1191276	1195367	1195209
1042589	2	48-52	89.25	272	27.13	3.94	7.25	3.88	2.12	17.06	3.31	23.00	3.56	2 Socket	1193087	1191294	1195379	1195218

Maximum Proof Load shall not exceed 50% of XXIP rope catalog breaking strength. \*The Ultimate Loads of 3/4" through 1 1/4" sizes have been increased to meet the requirements for 8 strand 2160 Grade pendants. Note: Fittings designed only to be used on exact sizes listed.

NOTE: Before using any Crosby fitting with any other type lay, construction or grade of wire rope, it is recommended that the termination be destructive tested and documented to prove the adequacy of the assembly to be manufactured.



# RESIN FOR SPELTER SOCKETS



NOTE: FOR USE ON 416, 417, 427 AND 517 SPELTER SOCKETS ONLY.



**WIRELOCK®**  
Socketing Compound

- 100% termination efficiency.
- Temperature operating range is -65° F to +240° F (-54°C to +116°C).
- Ideal for on-site applications.
- No hazardous molten metal.
- Improved fatigue life.
- Pouring temperature without booster pack is 48° F to 110° F (6.67°C to 43.3°C).
- One booster pack if pouring temperature is 35° F to 48° F (1.67°C to 8.89°C).
- Two booster packs if pouring temperature is 27° F to 35° F (-2.78°C to +1.67°C).
- Refer to Crosby® Wire Rope End Terminations Manual for more information.
- Storage temperature is 68° F (20°C) max. Store in well ventilated area away from sunlight and sources of ignition.



## APPROVALS:

Lloyds Register of Shipping

Det Norske Veritas (DNV)

United States Coast Guard

Registro Italiano Navale

Germanischer Lloyd

United States Navy

American Bureau of Shipping

ISO 17.558

DNV-OS-E304



U.S. Department of Transportation  
United States Coast Guard



NATO Numbers:

100cc 8030-21-902-1823  
250cc 8030-21-902-1824  
500cc 8030-21-902-1825  
1000cc 8030-21-902-1826

Witnessed and tested by American Bureau of Shipping. (ABS)

Approximate U.S. Measurements:  
250cc's Kit 1 Cup

## WIRELOCK® W416-7 Socket Compound

W416-7 Kits				Booster Pak Stock No.
Kit Size	Kit Per Case	Stock No.	Weight Each (lb)	
100	20	1039602	.62	1039603
250	12	1039604	1.25	1039605
500	12	1039606	2.54	1039607
1000	12	1039608	4.59	1039609
2000	6	1039610	9.00	1039611

## Guide to amount WIRELOCK® Required

Wire Rope Size		WIRELOCK Required (cc)	Wire Rope Size		WIRELOCK Required (cc)
(in)	(mm)		(in)	(mm)	
1/4	6-7	9	1-3/4	44	700
5/16	8	17	1-7/8	48	700
3/8	9-10	17	2	51	1265
7/16	11	35	2-1/8	54	1265
1/2	13	35	2-1/4	56	1410
9/16	14	52	2-3/8	60	1410
5/8	16	52	2-1/2	64	1830
3/4	20	86	2-5/8	67	1830
7/8	22	125	2-3/4	70	2250
1	26	160	3	76	3160
1-1/8	28	210	3-1/4	82	3795
1-1/4	32	350	3-1/2	88	4920
1-3/8	36	350	3-3/4	94	5980
1-1/2	40	420	4	102	7730
1-5/8	42	495	—	—	—

Wirelock is a hazardous material regulated by US DOT, ICAO/IATA and IMO for transportation.

APPLICATION AND WARNING INFORMATION  
SECTION 17

S I R I M O N G K O L C O R P O R A T I O N C O . , L T D .



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# BRILUBE®

ADVANCED  
ROPE  
LUBRICANTS



## BRIDON

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# BRILUBE®



## ทำไมถึงต้องเติมสารหล่อลื่นลวดสลิง

ลวดสลิงส่วนใหญ่มีสารหล่อลื่นที่เติมระหว่างการผลิต ซึ่งช่วยป้องกันการกัดกร่อน ลดการเสียดสีระหว่างเส้นลวดและเกลียวระหว่างการใช้งาน การปกป้องที่ได้รับจากสารหล่อลื่นที่เติมระหว่างการผลิต โดยปกติแล้วจะเพียงพอแก่การป้องกันการเสื่อมสภาพที่เกิดจากการสึกกร่อนในระหว่างการขนย้าย จัดเก็บและช่วงแรกๆ ของการใช้งาน อย่างไรก็ตามลวดสลิงก็เหมือนเครื่องจักรอื่นๆ ที่ต้องเติมสารหล่อลื่นเพื่อยืดอายุการใช้งานของลวดสลิง ซึ่งเราเรียกการบำรุงรักษาที่ว่า **"การเติมสารหล่อลื่น" (Dressing)**

สิ่งสำคัญที่ควรรู้คือ สารประกอบที่ใช้ในการเติมสารหล่อลื่นนั้นควรถูกพัฒนาขึ้นมาเพื่อการบำรุงรักษาลวดสลิง และต้องเข้ากันได้กับสารหล่อลื่นที่เติมในระหว่างการผลิต เราต้องคำนึงถึงสภาพแวดล้อมและการใช้งานเมื่อเลือกใช้สารหล่อลื่น เช่น สลิ่งที่มีการเรียงตัวของเส้นเกลียวหลายชั้นในปัจจุบันต้องใช้สารหล่อลื่นที่ซึมได้ดี ซึ่งจะเติมเต็มช่องว่างระหว่างเส้นเกลียว และซึมเข้าไปในลวดสลิงให้ได้มากที่สุด

ชนิดของสารหล่อลื่นและความถี่ในการเติม ขึ้นอยู่กับลวดแต่ละชนิด สภาพการใช้งาน และการประยุกต์ใช้กับงาน ประสิทธิภาพอันไร้ที่เปรียบของ **BRIDON** ในวงการผู้ผลิตลวดสลิงระดับโลก และหลายปีที่มีการคิดค้นพัฒนาสารหล่อลื่น ที่ช่วยแก้ปัญหาต่างๆ ได้ถูกใช้ในการพัฒนาสูตรสารหล่อลื่น **BRILUBE®**

การพัฒนาสูตรอันก้าวหน้า โดยมีผลงานเป็นที่ยอมรับของ **BRILUBE®** ช่วยให้ลวดสลิงทำงานอย่างมีประสิทธิภาพสูงสุด

## BRILUBE® 30

เหมาะสำหรับ

- Tower Crane
- Mobile Crane
- Dockside Crane
- Fishing Rope

**BRILUBE 30** - สารหล่อลื่นเหลวสีน้ำตาล / น้ำตาลเหลืองน้ำหนักที่อุณหภูมิ 15.6 องศา มีน้ำหนักที่ 0.82 ระยะเวลาที่น้ำยาแห้งประมาณ 1 ชั่วโมง ส่วนประกอบที่เป็นของแข็งประมาณ 30 เปอร์เซ็นต์ และมีคุณสมบัติป้องกันน้ำ ทำให้ไม่เกิดการสึกกร่อน ชีตอุณหภูมิความร้อนที่ทำให้เกิดประกายไฟได้อยู่ที่ 40 องศา อุณหภูมิที่น้ำยาสามารถใช้งานได้คือประมาณ -30 ถึง 60 องศาเซลเซียส ได้ผ่านการทดสอบ Salt spray (ASTM B117) ถึง 200 ชั่วโมง

ใช้สำหรับการหล่อลื่นของลวดสลิงที่ใช้ในสภาวะที่การกัดกร่อน ซึ่งเป็นสาเหตุหลักของการทำให้เสียคุณสมบัติของลวดสลิง เหล่านี้มักใช้กับงานกลางแจ้ง ซึ่งต้องใช้สารหล่อลื่นบ่อยๆ ตัวอย่างเช่น รถเครนและทาวเวอร์เครน เคนท่าเรือและตู้เรือ ระบบการชักลาก งานประมง งานประเภทยานยนต์ที่มีความเป็นไปได้ที่จะเกิดการกัดกร่อนได้ ทั้งภายในและภายนอก การกัดกร่อนภายในเป็นปัญหาใหญ่มากเพราะมองไม่เห็น ซึ่งมีความเป็นไปได้ที่น้ำจะเข้าไปข้างใน

### คุณสมบัติ

- 1 ซึมผ่านเข้าไปในลวดได้ง่าย เข้าไปแทนที่ความชื้นทั้งภายนอกและภายใน
- 2 ป้องกันการกัดกร่อนได้ดีทั้งภายนอกและภายในและทนต่อการล้างออก
- 3 เป็นของเหลวสีน้ำตาล / น้ำตาลเหลืองซึ่งเป็นแผ่นฟิล์มบางเหมือนน้ำมันเพื่อป้องกันการสึกกร่อนจากไอน้ำ

### วิธีการใช้งาน

- 1 ใช้งานได้บ่อยๆ สำหรับสภาวะที่สารหล่อลื่นลดลง และมีสิ่งเจือปนอื่นๆ
- 2 ใช้โดยการจุ่ม ทา หรือฉีดสเปรย์ สูงสุดเดือนละ 1 ครั้ง
- 3 ล้างออกได้ด้วยสารละลายไฮโดรคาร์บอน

## BRILUBE® 40

เหมาะสำหรับ

- Lifts & Elevators
- Friction Hoists

**BRILUBE 40** - สารหล่อลื่นเหลวสีขาว น้ำหนักที่อุณหภูมิ 15.6 องศา มีน้ำหนักที่ 0.82 ระยะเวลาที่น้ำยาแห้งประมาณ 1 ชั่วโมง ส่วนประกอบที่เป็นของแข็งประมาณ 55 เปอร์เซ็นต์ และมีคุณสมบัติป้องกันน้ำ ทำให้ไม่เกิดการสึกกร่อน ชีตอุณหภูมิความร้อนที่ทำให้เกิดประกายไฟได้อยู่ที่ 40 องศา ช่วงที่สามารถใช้งานได้คือประมาณ -80 ถึง 40 องศาเซลเซียส

ใช้สำหรับการหล่อลื่นลวดสลิงที่มีการเสียดสี และอุปกรณ์ที่ทำให้เกิดการเสียดสีระหว่างสลิงกับลูกรอก ส่วนประกอบเฉพาะของ BRILUBE 40 เพิ่มความสามารถในการเสียดสีระหว่างลวดและการขับเคลื่อน และช่วยขจัดปัญหาต่างๆ ชนิดของอุปกรณ์ที่ใช้ BRILUBE 40 เช่น ลิฟท์และบันไดเลื่อน บันจันชุดเจาะเหมืองแร่ เครื่องกว้าน สารหล่อลื่นช่วยในการป้องกันการสึกกร่อนและในขณะเดียวกันก็ไม่เป็นสาเหตุที่ทำให้ลื่นจนเกินไป

### คุณสมบัติ

- 1 ซึมผ่านเข้าไปในลวดได้ง่ายทำให้หล่อลื่นและป้องกันการสึกกร่อนได้ดีทั้งภายในและภายนอก และยากต่อการล้างออก
- 2 เป็นของเหลวในรูปน้ำสีขาว ซึ่งมีส่วนผสมของสารละลายเคมี
- 3 เหมาะสำหรับการใช้งานที่มีการเสียดสีบ่อยๆ เพื่อช่วยให้ความหล่อลื่น และป้องกันการกัดกร่อนขณะใช้งาน

### วิธีการใช้งาน

- 1 สารชนิดนี้จะไม่ทำให้ลื่นเกินไปเมื่อใช้งานซ้ำๆ
- 2 ใช้โดยการจุ่ม ทา หรือฉีด
- 3 อาจล้างออกได้ด้วยสารละลายไฮโดรคาร์บอน



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## การใช้งานทั่วไป General Operational Categories

การใช้งานของลวดสลิงส่วนใหญ่แบ่งได้ดังต่อไปนี้

- 1 สลวดสลิงที่ใช้ในอุตสาหกรรมหรือกลางแจ้ง ที่การสีกกร่อน เป็นสาเหตุสำคัญของการเสื่อมสภาพของลวดสลิง สิ่งที่ต้องกังวล คือการสีกกร่อนภายในที่เป็นเหตุให้เกิดความล้าของลวดสลิง
- 2 สลวดสลิงที่ใช้กับรอกฝืด (Friction Hoist) สารหล่อลื่นที่ช่วยด้านการสีกกร่อนและการสีกกร่อนภายใน โดยไม่ทำให้สูญเสียความผิดในการยึดจับ
- 3 สลวดสลิงที่หมุนผ่านลูกถ้วยรับแรง แต่ไม่ถูกเสียดสีหรือสีกกร่อนบนพื้นผิวอย่างรุนแรง การสีกที่เกิดจากการเสียดสีภายใน และความล้าเป็นสาเหตุที่ทำให้เกิดการเสื่อมสภาพ
- 4 สลวดสลิงที่ใช้ในสภาวะที่ทำให้เกิดการสีกหรืออย่างรุนแรง การสีกหรือเป็นเหตุผลใหญ่ ที่ทำให้ลวดสลิงเสื่อมคุณภาพ
- 5 สลวดสลิงที่ไม่เคลื่อนที่และที่เคลื่อนที่ ที่ถูกใช้กับของที่มีน้ำหนักมาก ในกลางทะเล หรือสภาพแวดล้อมอื่นๆ ที่เอื้อต่อการสีกกร่อน ในกรณีนี้การสีกกร่อนและสีกหรือรวมกันเป็นเหตุให้เกิดการเสื่อม

สภาพแวดล้อมในการทำงานที่ต่างกันของลวดสลิง ทำให้ต้องใช้ สารหล่อลื่นที่แตกต่างกัน คุณสมบัติพิเศษแต่ละแบบถูกนำมาใช้เพื่อยืดอายุ การใช้งานของลวดสลิง ในบางกรณีการเติมสารป้องกันการสีกกร่อนที่มี ตัวทำละลายเป็นส่วนประกอบที่ถูกออกแบบให้ซึมซาบและไล่ความชื้น จากนั้นตามด้วยการเคลือบสารป้องกันที่เข้มข้นกว่า เพื่อช่วยในการป้องกันการ สีกกร่อนรวมทั้งเพิ่มการหล่อลื่นอีกด้วย

## เครื่องพ่นสเปรย์แบบแรงดันขนาดพกพา

**BRILUBE 30, 40 และ 50** สามารถนำมาใช้ฉีดพ่นสเปรย์แบบธรรมดา หรือ เครื่องพ่นสเปรย์แบบแรงดันขนาดพกพา BRILUBE เครื่องพ่นสเปรย์แบบ แรงดันขนาดพกพานี้ สามารถพ่นได้ถึง 80 p.s.i. (5.5 Bar) สำหรับการ แทรกซึมอย่างเต็มที่ของสารหล่อลื่น ทำให้เป็นเครื่องที่เหมาะสม สำหรับการเติมสาร BRILUBE ลงบนแกนหมุนของลวดและเครน

## Masto Power Application Systems

**BRILUBE 60, 70 และ 90** สามารถใช้แรงดันในการเติมระบบ In-line application system ซึ่งเหมาะสมสำหรับสลิงขนาดและโครงสร้างต่างๆ กัน ระบบนี้จะใช้แรงดันสูงสุดอัดสารหล่อลื่นเข้าสู่ตัวลวด ในขณะที่เดียวกัน ก็ช่วยทำความสะอาดและกำจัดความชื้น สารหล่อลื่นเก่าๆ ที่หลงเหลืออยู่ และสิ่งสกปรกต่างๆ

## BRILUBE® 50

เหมาะสำหรับ

- Indoor Cranes
- Piling Application
- Small Excavators

**BRILUBE 50** - สารหล่อลื่นที่มีน้ำมันเป็นส่วนประกอบหลัก พร้อมด้วยสารปรุงแต่งอื่นๆ เพื่อช่วยเพิ่มแรงยึดติดและป้องกันการสีกกร่อน มีคุณสมบัติช่วยในการซึมซาบและหล่อลื่นเป็นอย่างดี เพื่อสลิงที่ใช้ในงานอุตสาหกรรมที่มีสภาพแวดล้อมแบบปกติ **BRILUBE 50** ควรใช้กับเครนยก สลึงรอก และสลิงที่ใช้ในงานในแบบใกล้เคียงกัน โดยแรงล้า (Fatigue) เป็นปัจจัยสำคัญที่ทำให้สลิงเสื่อมคุณภาพ

## BRILUBE® 60

เหมาะสำหรับ

- Excavators
- Guy Ropes
- Winch Rope

**BRILUBE 60** - สารหล่อลื่นที่มีเจล Thixotropic อยู่ในปริมาณกลางๆ โดยสามารถป้องกันการสีกกร่อนได้อย่างดี และทนต่อการเปลี่ยนแปลงอุณหภูมิ พัฒนาขึ้นเพื่อยืดอายุการใช้งานของสลิงไม่เคลื่อนที่ (Standing Rope) และสลิงเคลื่อนที่ (Dynamic Rope) **BRILUBE 60** เหมาะสำหรับใช้งานกลางแจ้ง โดยได้ทั้งสารหล่อลื่น และป้องกันการสีกกร่อน โดยไม่จำเป็นต้องเติมสารเป็นประจำ

## BRILUBE® 70

เหมาะสำหรับ

- Offshore Cranes
- Rigging
- Mooring & Towing
- Cables
- Fishing Ropes

**BRILUBE 70** - สารหล่อลื่นที่มีเจล Thixotropic อยู่ในปริมาณกลางๆ มีคุณสมบัติทนต่อการเปลี่ยนแปลงของอุณหภูมิ และป้องกันการสีกกร่อนในสภาพการทำงานนอกชายฝั่ง พัฒนาขึ้นเพื่อยืดอายุการใช้งานของลวดสลิงที่ไม่เคลื่อนที่ (Static Rope) และสลิงเคลื่อนที่ (Dynamic Rope) ในสภาพแวดล้อมที่รุนแรง **BRILUBE 70** เหมาะสำหรับใช้งานนอกชายฝั่ง (Offshore) และภายใต้สภาพแวดล้อมแบบรุนแรง โดยสารหล่อลื่นที่มีประสิทธิภาพดี และมีประสิทธิภาพในการป้องกันการสีกกร่อนเป็นสิ่งจำเป็นยิ่ง

## BRILUBE® 90

เหมาะสำหรับ

- Offshore Installations
- Lake & River Ferries
- Dock Facilities
- Water Treatment Operation

**BRILUBE 90** - เป็นสารหล่อลื่นที่สามารถย่อยสลายได้เองตามธรรมชาติได้ ใช้กับสลิงที่ใช้ในงานหนักกลางทะเล (Marine Quality) ซึ่งถูกพัฒนาโดย BRIDON เพื่อตอบสนองความต้องการของสลิงที่ใช้กับสภาพแวดล้อมแบบรุนแรง และสารที่ใช้อย่างไม่เป็นภัยต่อสิ่งแวดลอมอีกด้วย พัฒนาขึ้นเพื่อลวดสลิงที่ถูกใช้งานหนักในสภาพแวดล้อมที่เปราะบาง ต่อสิ่งแวดลอม **BRILUBE 90** เหมาะสำหรับใช้ในกรณีที่สารหล่อลื่นลวดสลิงอาจเป็นปัญหาต่อสิ่งแวดลอม



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### BRILUBE Health and Safety Recommendations

#### ข้อควรระวังทั่วไปและสิ่งที่ควรทำ

- นำออกห่างจากความร้อนและเปลวไฟ
- ปิดภาชนะบรรจุให้มิดชิด
- เก็บไว้ในที่ร่ม
- เก็บไว้ในที่ที่มีอุณหภูมิสูงสุดไม่เกิน 25 องศาเซลเซียส
- นำออกห่างจากอาหารและเครื่องดื่ม
- ระวังอย่าให้ถูกผิวหนังเป็นระยะเวลานานๆ และบ่อยๆ และต้องพยายามรักษาสุขอนามัยของตนเอง

#### สิ่งที่ไม่ควรทำ

- เก็บเศษผ้าที่เปื้อนสารหล่อลื่นไว้ในกระเป๋า หรือใส่เสื้อผ้าที่เปื้อนสารหล่อลื่น
- สูดดมก๊าซหรือไอระเหยจากสารหล่อลื่น
- กลืนกินสารเข้าไป

#### สิ่งที่ช่วยในการดับไฟซึ่งเกิดจากสารหล่อลื่น

- คาร์บอนไดออกไซด์ สารเคมีแบบแห้ง โฟม

#### เมื่อถูก

- ชั้ด้วยดินเหนียวหรือน้ำ

#### การกำจัด

- เผาหรือทิ้งในที่ที่ได้รับอนุญาต
- ระวังอย่าให้ปนเปื้อนลงแหล่งน้ำต่างๆ

#### อันตรายที่อาจเกิดขึ้นได้

จะไม่เกิดอันตรายอย่างร้ายแรงหากใช้อย่างถูกวิธี หากสารสัมผัสกับผิวหนังเป็นระยะเวลานาน หรือบ่อยครั้ง อาจทำให้เกิดความระคายเคืองและเกิดการระคายเคือง จึงควรสวมถุงมือทุกครั้งที่ต้องสัมผัสกับสาร

Oral L.D. 15 g / kg น้ำหนักของร่างกาย  
T.L.V. 100 ppm.

#### การปฐมพยาบาลเบื้องต้น

การกลืนกิน อย่าพยายามให้อาเจียนออกมา เนื่องด้วยอาจเกิดการสำลัก ควรให้ผู้ป่วยดื่มน้ำ 1/2 โปน์ จากนั้นจึงปรึกษาแพทย์

สัมผัสถูกผิวหนัง อาจเกิดการระคายเคืองเล็กน้อย ล้างออกโดยการถูด้วยสบู่และน้ำสะอาด

เข้าตา อาจเกิดการระคายเคืองเล็กน้อย ล้างออกด้วยน้ำอุ่นจำนวนมาก หากจำเป็นควรปรึกษาแพทย์

การสำลัก หากสงสัยว่าได้สำลักเข้าไปในปอด (เช่นในระหว่างการอาเจียน) ให้นำผู้ป่วยส่งโรงพยาบาลในทันที

การสูดดม นำผู้ป่วยออกไปสูดอากาศบริสุทธิ์ หากจำเป็นสามารถให้ออกซิเจนแก่ผู้ป่วยได้ จากนั้นควรปรึกษาแพทย์



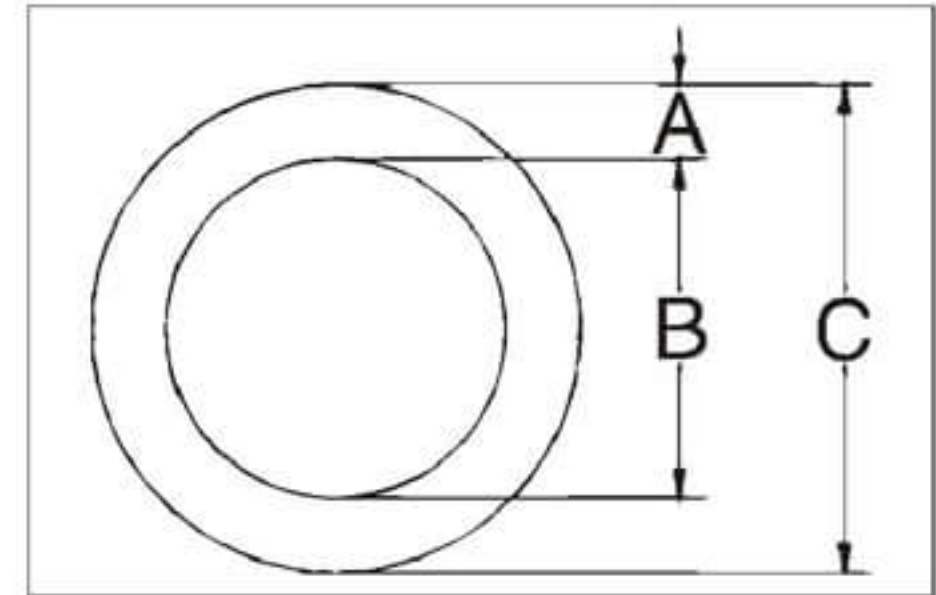
# WELDLESS RINGS



S-643



- Forged carbon steel - Quenched & Tempered.
- Self Colored



## S-643 Weldless Rings

Size (in)	Stock No	Working Load Limit Single Pull (lb)	Weight Each (lb)	Dimensions (in)		
				A	B	C
7/8 x 4	1013780	7200	2.72	.88	4.00	5.75
7/8 x 5-1/2	1013806	5600	3.47	.88	5.50	7.25
1 x 4	1013824	10800	3.69	1.00	4.00	6.00
1-1/8 x 6	1013842	10400	6.60	1.13	6.00	8.25
1-1/4 x 5	1013860	17000	6.82	1.25	5.00	7.50
1-3/8 x 6	1013888	19000	10.12	1.38	6.00	8.75

6:1 Design Factor.



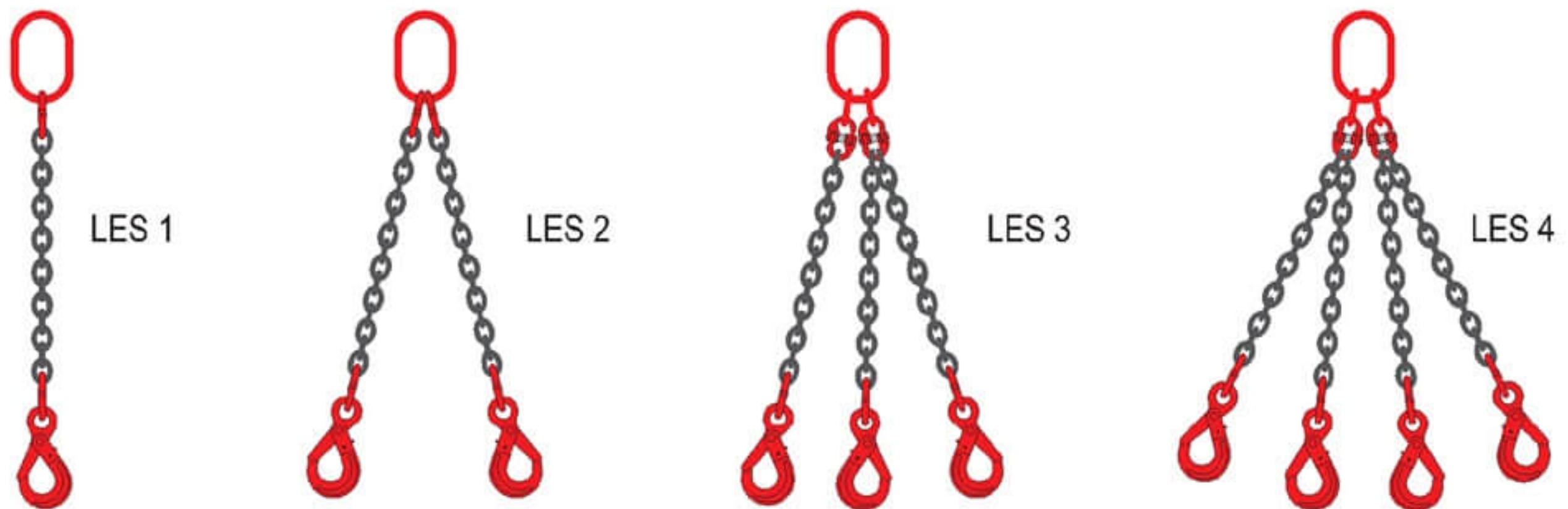
Chain sling 1, 2, 3, 4 legged with Eye sling hook



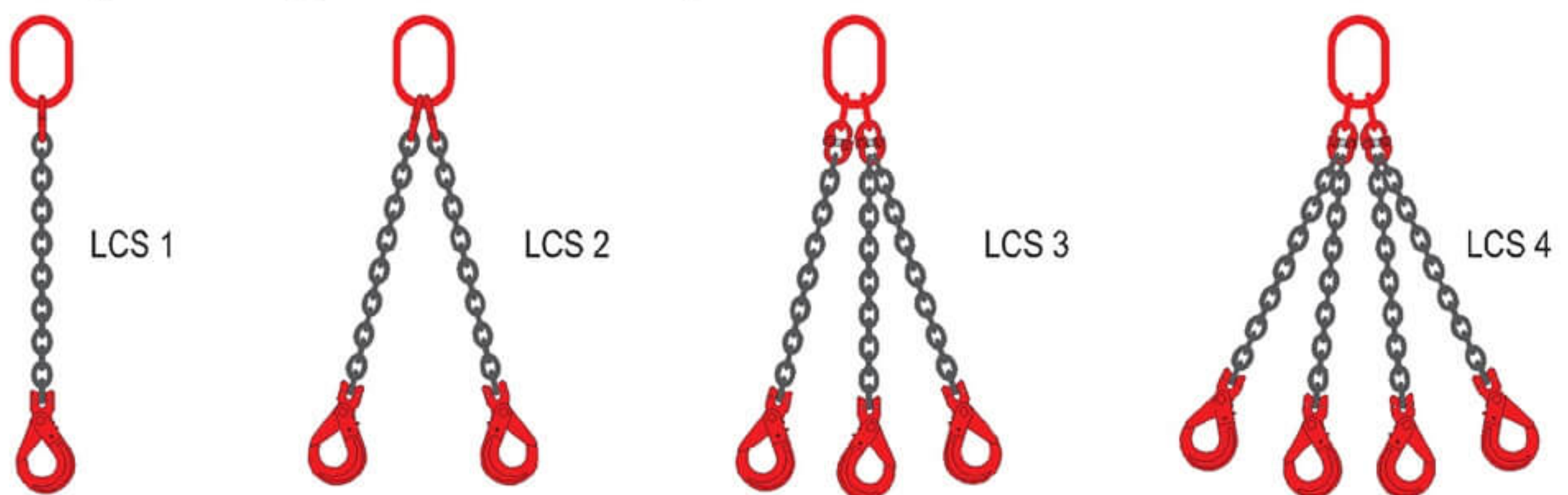
Chain sling 1, 2, 3, 4 legged with Clevis hook



Chain sling 1, 2, 3, 4 legged with Eye self locking hook



Chain sling 1, 2, 3, 4 legged with Clevis self locking hook



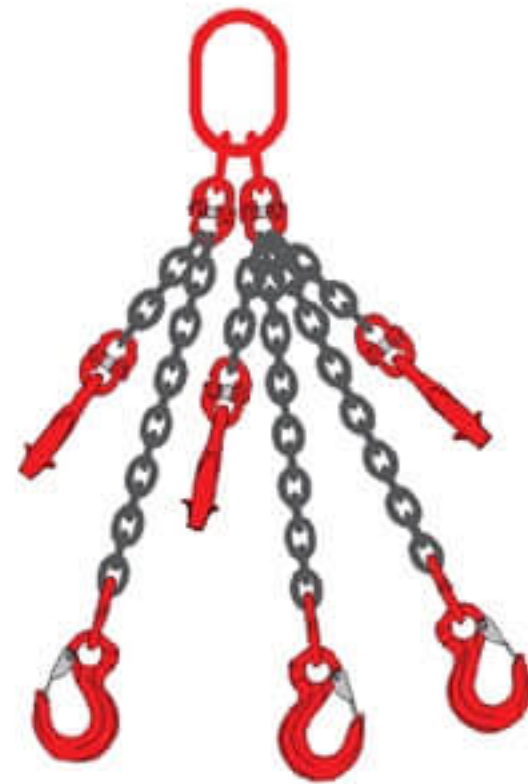
Chain sling 1, 2, 3, 4 legged with Eye sling hook & Eye shortening hook



LE 1S



LE 2S



LE 3S



LE 4S

Chain sling 1, 2, 3, 4 legged with Eye sling hook & Clevis shortening hook



LE 1C



LE 2C



LE 3C



LE 4C

Endless sling



ES 1



ES 2



ESS 2



ES 4



ESS 4





**DANGER :** Overhead lifting presents a very real danger of severe injury or loss of Life if lifting equipment is not used properly. Please read and understand all of these Instructions prior to using any lifting sling or sling assembly. Sling should only be used By qualified persons who are responsible for the sling selection, inspection and use.

## Grade 80 Chain Sling Components

### WORKING LOAD LIMITS IN TONNE acc. to EN818-2

Load Factor	1	1.4		1		2.1	1.5	1.6
		$\beta$ 0 - 45° $\alpha$ 0 - 90°	45° - 60° 90° - 120°	45° - 60° 90° - 120°	$\beta$ 0 - 45° $\alpha$ 0 - 90°			
For chain size mm	Tonnes							
6	1.12	1.6	1.12	2.36	1.7	1.8		
7	1.5	2.12	1.5	3.15	2.24	2.5		
8	2.0	2.8	2.0	4.25	3.0	3.15		
10	3.15	4.25	3.15	6.7	4.75	5.0		
13	5.3	7.5	5.3	11.2	8.0	8.5		
16	8.0	11.2	8.0	17.0	11.5	12.5		
19	11.2	16.0	11.2	23.6	17.0	18.0		
20	12.5	17.0	12.5	26.5	19.0	20.0		
22	15.0	21.2	15.0	31.5	22.4	23.6		
26	21.2	30.0	21.2	45.0	31.5	33.5		
32	31.5	45.0	31.5	67.0	47.5	50.0		

## Grade 80 Chain Sling Components

### WORKING LOAD LIMITS IN TONNE acc. to EN818-2

Load Factor	1	1.6	1.1		0.8		1.7	1.2
			0 - 45°	45° - 60°	0 - 45°	45° - 60°		
For chain size mm	Tonnes							
6	1.12	1.8	1.25	0.9	1.9	1.32		
7	1.5	2.5	1.7	1.25	2.65	1.8		
8	2.0	3.15	2.24	1.6	3.35	2.36		
10	3.15	5	3.35	2.5	5.3	3.75		
13	5.3	8.5	5.83	4.25	9	6.3		
16	8.0	12.5	9	6.3	13.2	9.5		
18	10.0	16	11.2	8	17	11.8		
20	12.5	20	14	10	21.2	15		
22	15.0	23.6	17	11.8	25	18		
26	21.2	33.5	23.6	17	35.5	25		
32	31.5	50	35.5	25	53	37.5		

\*\* Safety factory 4:1 Above limita are valid for standard use and equally loaded slings. Properly used and maintained your ASP chain slings will give long life and will enable you to carry out your lifting operations efficiently and safety.

**Warning: Never exceed a sling angle of 30°**



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SRM-LE1 SINGLE LEG SLING



LE 1



LE 1 S

Art No.	Chain Size mm	W.L.L. in tonne Straight 1	B.S. t
SRM-LE1-06	6	1.12	4.48
SRM-LE1-07	7	1.50	6.00
SRM-LE1-08	8	2.00	8.00
SRM-LE1-10	10	3.15	12.60
SRM-LE1-13	13	5.30	21.20
SRM-LE1-16	16	8.00	32.00
SRM-LE1-18	18	10.00	40.00
SRM-LE1-20	20	12.50	50.00
SRM-LE1-22	22	15.00	60.00
SRM-LE1-26	26	21.20	84.80
SRM-LE1-32	32	31.50	126.00

SRM-LE2 TWO LEG SLING



LE 2



LE 2 S

Art No.	Chain Size mm	S.W.L. in tonne		B.S. / leg at straight t
		0 - 45° 1.4	45° - 60° 1	
SRM-LE2-06	6	1.60	1.12	4.48
SRM-LE2-07	7	2.12	1.50	6.00
SRM-LE2-08	8	2.80	2.00	8.00
SRM-LE2-10	10	4.25	3.15	12.60
SRM-LE2-13	13	7.50	5.30	21.20
SRM-LE2-16	16	11.20	8.00	32.00
SRM-LE2-18	18	16.00	10.00	40.00
SRM-LE2-20	20	17.00	12.50	50.00
SRM-LE2-22	22	21.20	15.00	60.00
SRM-LE2-26	26	30.00	21.20	84.80
SRM-LE2-32	32	45.00	31.50	126.00

SRM-LE4 FOUR LEG SLING, ASP-LE3 THREE LEG SLING



LE 3



LE 4

Art No.	Chain Size mm	S.W.L. in tonne		B.S. / leg at straight t
		0 - 45° 2.1	45° - 60° 1.5	
SRM-LE4-06	6	2.36	1.70	4.48
SRM-LE4-07	7	3.15	2.24	6.00
SRM-LE4-08	8	4.25	3.00	8.00
SRM-LE4-10	10	6.70	4.75	12.60
SRM-LE4-13	13	11.20	8.00	21.20
SRM-LE4-16	16	17.00	11.50	32.00
SRM-LE4-18	18	23.60	17.00	40.00
SRM-LE4-20	20	26.50	19.00	50.00
SRM-LE4-22	22	31.50	22.40	60.00
SRM-LE4-26	26	45.00	31.50	84.80
SRM-LE4-32	32	67.00	47.50	126.00

Lifting applications design for safety factor 4:1

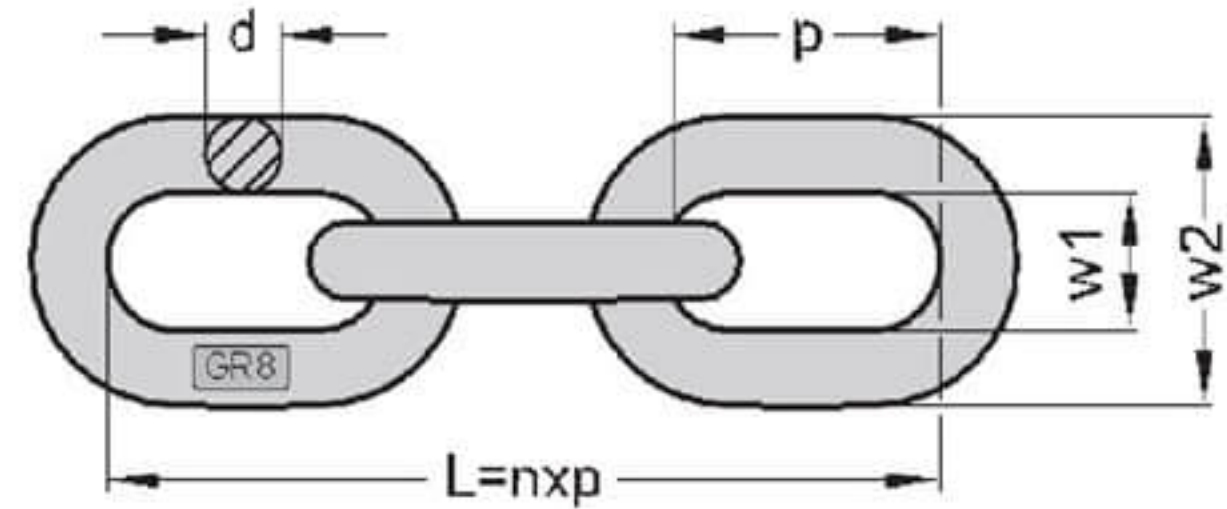
**WARNING**  
DO NOT EXCEED WORKING LOAD LIMIT



# ALLOY CHAIN

## G8 EN818-2 G80 ALLOY CHAIN

Application area : Lifting  
 Material : High quality alloy steel  
 Surface treatment : Self color, Polishing, Blackened, Painted, Plastic coating, Hot-dip galvanized, Electric galvanized, etc.  
 Standard : EN818-2  
 Strength grade : 8  
 Proof loaded : 2 times of the Working Load Limit  
 Safety factor : 4 times of the working load limit



## G80 EN818-2 ALLOY CHAIN

Art No.	Chain Size / mm. d x p	W.L.L. t	B.S. t	Dimension / mm		Weight kg
				w1	w2	
SRM-G8-06	6 x 18	1.10	4.40	7.8	22.2	0.80
SRM-G8-07	7 x 21	1.50	6.00	9.1	25.9	1.10
SRM-G8-08	8 x 24	2.00	8.00	10.4	29.6	1.39
SRM-G8-10	10 x 30	3.20	12.80	13.0	37.0	2.30
SRM-G8-13	13 x 39	5.30	21.20	16.9	48.1	3.90
SRM-G8-16	16 x 48	8.00	32.00	20.8	59.2	5.80
SRM-G8-18	18 x 54	10.00	40.00	23.4	66.6	7.00
SRM-G8-20	20 x 60	12.50	50.00	26.0	74.0	9.00
SRM-G8-22	22 x 66	15.00	60.00	28.6	81.4	10.70
SRM-G8-26	26 x 78	21.20	84.80	33.8	96.2	15.00
SRM-G8-28	28 x 84	25.00	100.00	36.4	104.0	18.00
SRM-G8-32	32 x 96	31.50	126.00	41.6	118.0	21.70
SRM-G8-36	36 x 108	40.00	160.00	46.8	133.0	27.90
SRM-G8-40	40 x 120	50.00	200.00	52.0	148.0	35.80
SRM-G8-45	45 x 135	63.00	252.00	58.5	167.0	45.20

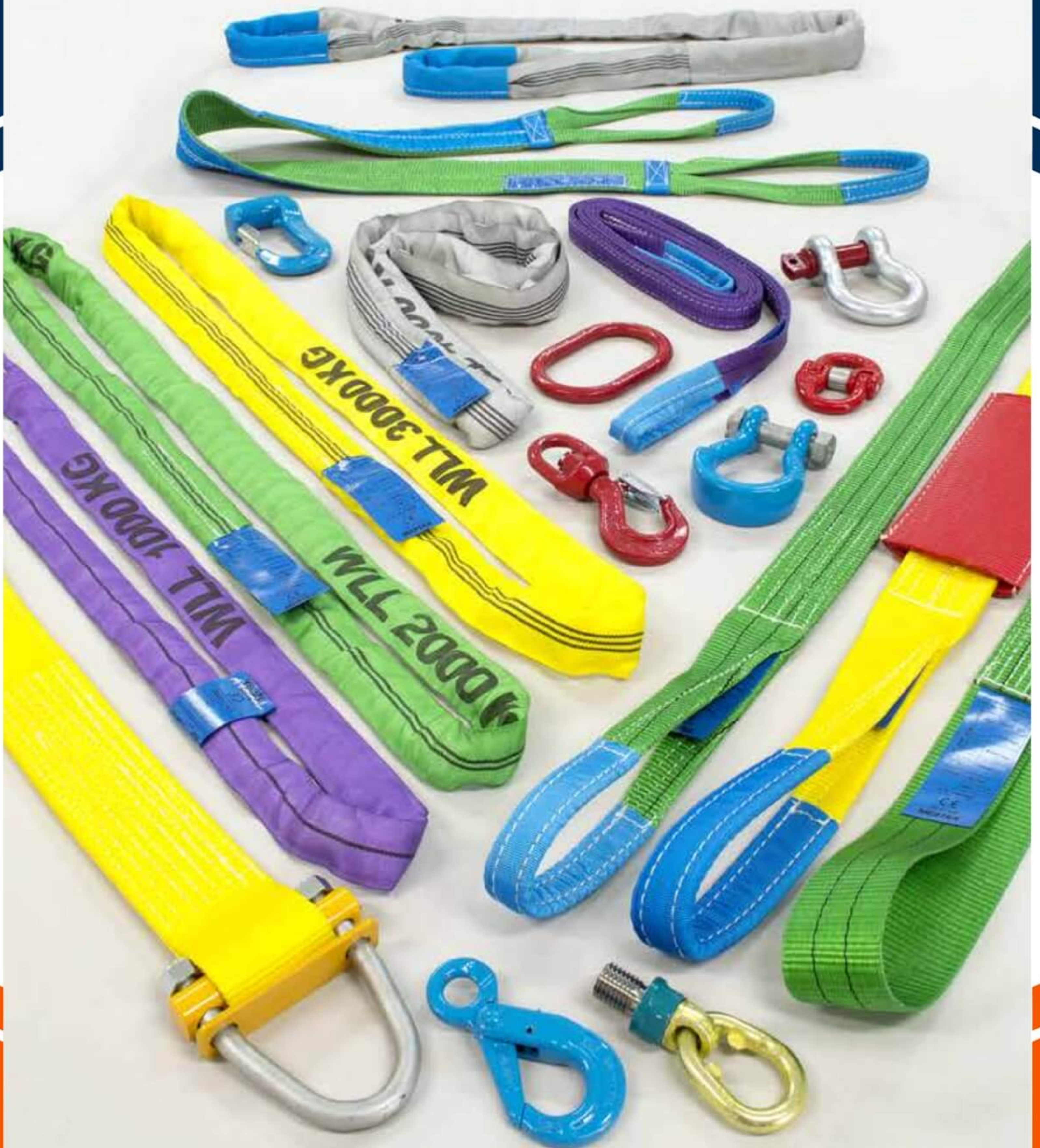


**GR8** Mark on link in every meter



**MERTRA<sup>®</sup>**

**Lifting Sling Polyester**



*Lifting sling are produced from controlled high tenacity polyester yarns.*

SIRIMONGKOL CORPORATION CO., LTD.



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# MERTRA®

## Hightenacity Polyester Fibre 100%



RIBBONS is one of the leading manufacturers of webbing slings, round slings and cargo-lashings, for use in industry as well as for civil engineering, transportation and shipping.

Production facilities are located in Theorchy factory U.K. and Singapore resulting in fast and accurate world-wide deliveries.

MERTRA webbing sling and roundsling are made in a standard range of types and sizes, designed to meet most lifting needs. Slings are designed to suit specific applications on request.

All MERTRA slings are subject to rigorous quality control at all levels of production from yarn to final assembly.

This is an essential factor in the production of high quality slings ensuring high strength, reliability and consistant performance.

MERTRA slings and lashings are certified by the german labour inspectorate (Berufsgenossenschaft) and the belgian AIB Vincotte.



### POLYESTER LIFTING SLING APPLICATIONS

AIR CONDITIONING UNITS  
AUTOMOBILES  
AUTOMOBILE PARTS  
BALES  
BEARINGS  
BOILERS  
BOAT HANDLING  
BULK MASTERIALS  
CONCRETE PIPE  
DRUMS

ELECTRICAL EQUIPMANT  
FINISHED PARTS  
HARBOR-LOADING AND UNLOADING  
UNLOADING  
HEATING UNITS  
JET ENGINES  
INSTRUMENTS  
LIGHTING FIXTURES  
LOGGING  
MACHINERY AND MACHINED PARTS

NUCLEAR EQUIPMENT  
OIL DRILLING PARTS  
PAPER ROLLS  
PREFAB UNITS  
PROPELLERS  
QUENCHING OPERATINGS  
RADIOACTIVE MATERIALS  
SALVAGE OPERRATIONS  
SCULPTURES  
SHAFTS

SIGNS  
STEEL FACTORY  
TELEPHONE POLE HANDING  
TRANSFORMERS  
TRANSPORTATION  
VAULTS  
VENTILATION UNITS  
WASTE DISPOSAL  
X-RAY EQUIPMENT  
YARD LIFTING-RAILAND LUMBER



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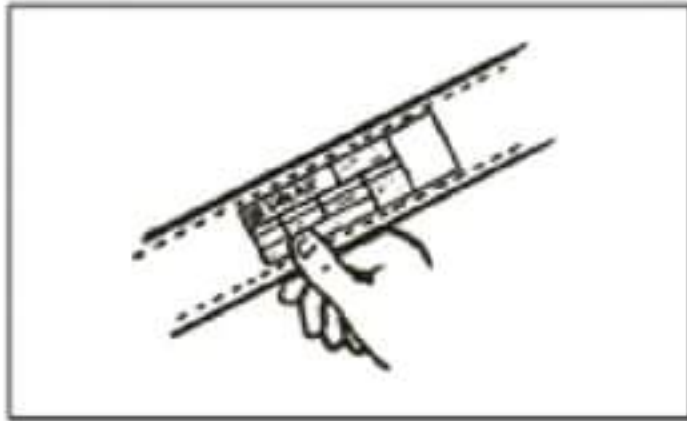
39/1 MOO 2 BANGPOOD, PAKKRED  
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## Safe Operating Practices

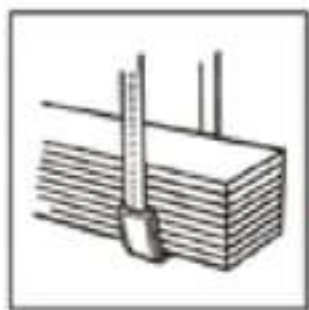
- Inspect slings prior to each use and do not use if damaged. (See specific sling type for inspection criteria.)



- Slings shall not be loaded in excess of their rated capacities. Rated capacities (Working Load Limits) must be shown by markings or tags attached to all slings.



- Angle of lift must be considered in all lifts. See page 10.



- Slings shall be padded or protected from the sharp edges of their loads.

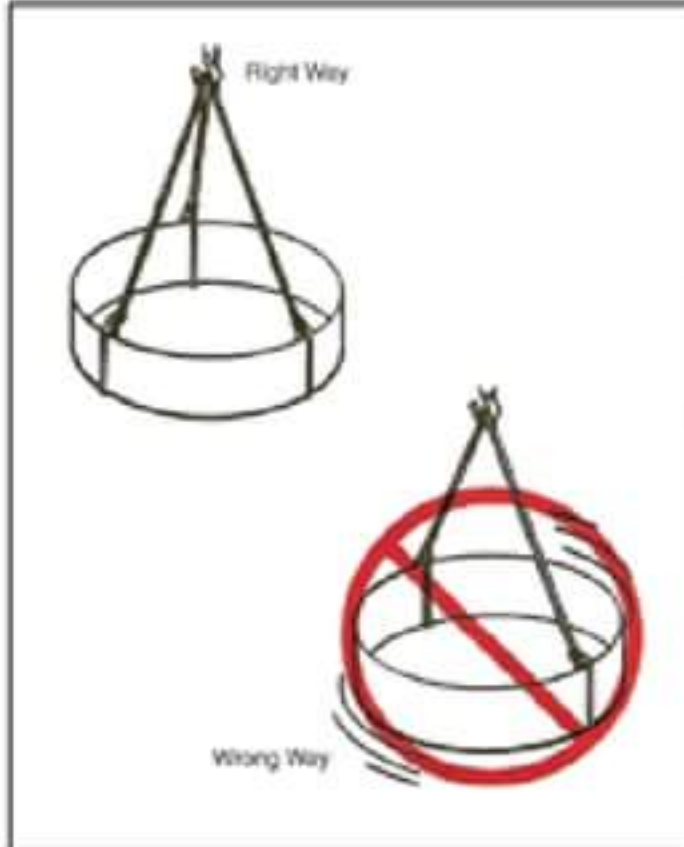


- Loads must be rigged to prevent slippage.



- Slings shall be securely attached to their loads

- Lift must be stable with respect to the center of gravity - balanced.



- A sling shall not be pulled from under a load when the load is resting on the sling. Before a load is lifted, a place should be prepared where it is to be put down. Lumber can be used to allow space to remove the sling and prevent shifting of the load.



- Temperature and chemical environment must be considered (see specific sling types for data).



- Slings shall not be shortened with knots, bolts, or makeshift devices.



- Sling legs shall not be knicked or twisted.

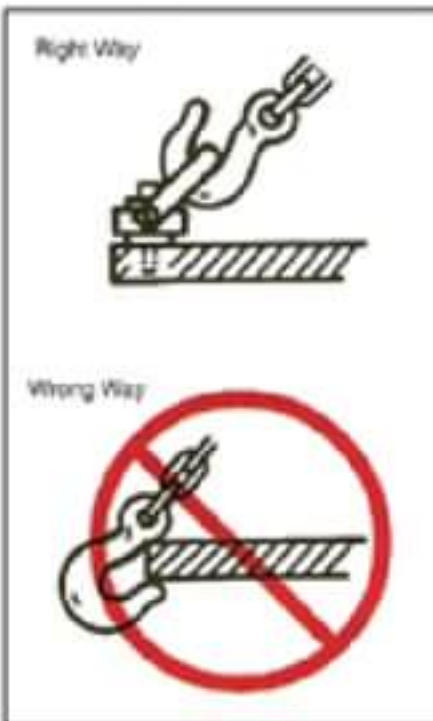


- Slings shall not be dragged on floor.

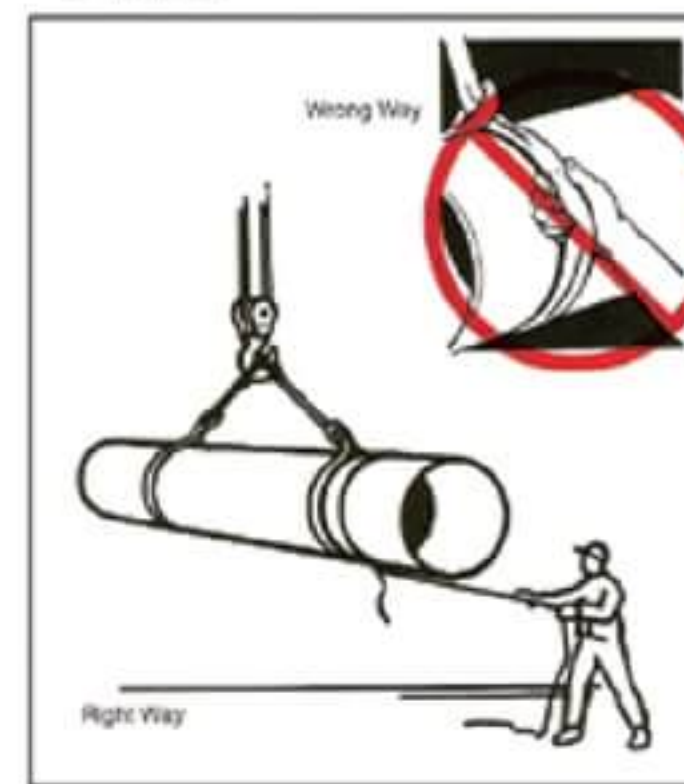


- Slings shall be stored in cool, dark, dry areas, preferably on racks.

- Do not point load hooks - center load in base of hook.



- Hands and fingers shall not be placed between the sling and load while the sling is being tightened around the load. After lifting, the load should not be pushed or guided by employees hands directly on the load. Ropes or "tag lines" should be attached for this purpose.



- Suspended loads shall be kept clear of all obstructions.
- All persons shall be kept clear of loads to be lifted, and suspended load.



- Do not shock load. Jerking the load could overload the sling and cause it to fail.

## INSPECTION CRITERIA

### ▲ WARNING Read Definition on page 3

#### Inspection Criteria for Synthetic Web Slings Refer to illustrations of damaged webbing

Remove from service if any of the following is visible:

- Capacity tag is missing or illegible
- Red core warning yarns are visible
- Sling shows signs of melting, charring or chemical damage
- End fittings are excessively pitted, corroded, distorted, cracked or broken
- Cuts on the face or edge of webbing
- Holes, tears, snags or crushed web
- Signs of excessive abrasive wear
- Broken or worn threads in the stitch patterns
- Any other visible damage which causes doubt as to its strength

**Red Core Yarns** - warn of dangerous sling damage. All Lift-All Nylon or Polyester Web Slings shown in this section of the catalog have this warning feature. When red yarns are visible, the sling should be removed from service immediately. The red core yarns become exposed when the sling surface is cut or worn through the woven face yarns. For other inspection criteria see OSHA/Manufacturer regulations on pages 5 through 11.

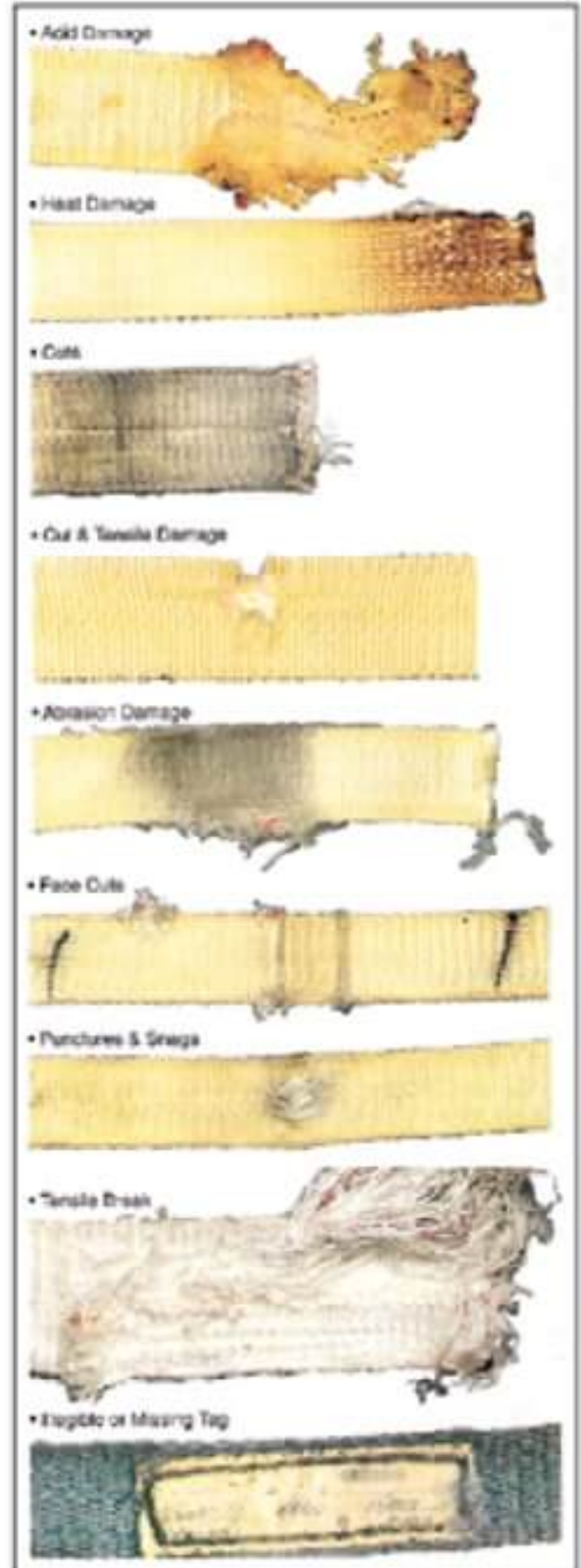
#### Examples of Web Sling Abuse

Most of the damage shown here would cause immediate catastrophic failure of the sling. Not all of the damage you will see will be this obvious or extreme, but still requires removal from use.

**Elasticity** - The stretch characteristics of web slings depends on the type of yarn and the web finish. Approximate stretch at RATED SLING CAPACITY is:

	NYLON	POLYESTER
Treated	10%	7%
Untreated	8%	3%

Prior to sling selection and use, review and understand the "Help" section.



## HIGH TENACITY POLYESTER FOR BETTER LIFTING

### FEATURE :

- Double ply polyester webbing sling with reinforced lifting eyes.
- Working load limit WLL. 1-12 Tonne, Length 1-50 Mtr.

### SPECIFICATIONS :

- Sling are constructed of 100% polyester
- Certified standard DIN V 61360 Show at blue label
- Safety factor 7:1
- Each kg class has its own colour code. ( see technical data )
- Max. working temp. 100°C ( 200°F ) Melting point 260°C ( 500°F )
- Excellant resistant to acids, oil, ultra violet ray, rot and mildew.
- Lightweight easy to handle, store and clean.
- No less of strength in water.
- Only 3% elongation.

### NORMS

- According to Machine Directive 89/392/EC.



**MERTRA®**

**WS-2/25 Series**

Lifting sling are manufactured to international standards.



### MERTRA® Chemical resistance information chart

material	acids	alkalis	oils	organic solvents	water and seawater	ethers	aldehydes	alcohols
Polyester	ok*	no	ok	ok	ok	no	no	ok

\* desintegrated by concentrated sulfuric acid. Higher chemical concentrations and/or higher temperatures will lower the resistance of the sling.

### TECHNICAL DATA, 25 mm. Series

webbing width (mm)	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straght lift up to 45°	choked lift up to 45°	straght lift 45°- 60°	choked lift 45°-60°
					0°- 7°	7°- 45°	45°- 60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
25	WLL 1 T	Violet	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
50	WLL 2 T	Green	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
75	WLL 3 T	Yellow	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
100	WLL 4 T	Grey	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
125	WLL 5 T	Red	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000
150	WLL 6 T	Brown	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
200	WLL 8 T	Blue	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
250	WLL 10 T	Orange	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
Type WS-2 300	WLL 12 T	Orange	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600

### MERTRA® lifting eye types

1. Flat eye
2. Reversed eye
3. Folded eye 1/2 width from 1 side
4. Folded eye 1/2 width from 2 sides
5. Folded eye 1/3 width



## CAUTIONS

- Do not exceed Working Load Limited
- Prevent shock-loading.
- When selecting a sling it is very important consider the angles at which the sling will be used.
- Sling are subject to cutting when lifting items with sharp edges. In this case always use wear sleeves.
- Do not use a damaged sling.
- Never drag a sling from underneath a load that is resting on it.
- Chemical active environments can effect the strength of slings.
- Operating temperature range: -40°C to + 100°C.
- Inspect slings weekly or more frequently depending on sling use.
- Always store slings in a cool dry and dark place when they are not in use for prolonged periods.
- Always read and understand the operating instructions before use.



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NONHABURI III20, THAILAND

HIGH TENACITY POLYESTER FOR BETTER LIFTING

## MERTRA® WS-1 Polyester single-ply webbing slings

### FEATURE :

- Single-ply polyester webbing sling with reinforced lifting eyes.
- Working load limit WLL. 0.5-6 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1

### MERTRA®

#### WS-1/25 Series

Lifting sling are manufactured to international standards.



webbing width (mm)	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straight lift up to 45°	choked lift up to 45°	straight lift 45°-60°	choked lift 45°-60°
					0°-7°	7°-45°	45°-60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
25	WLL 0.5 T	Violet	500	400	1,000	700	500	700	560	500	400
50	WLL 1 T	Green	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
75	WLL 1.5 T	Yellow	1,500	1,200	3,000	2,100	1,500	2,100	1,680	1,500	1,200
100	WLL 2 T	Grey	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
125	WLL 2.5 T	Red	2,500	2,000	5,000	3,500	2,500	3,500	2,800	2,500	2,000
150	WLL 3 T	Brown	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
200	WLL 4 T	Blue	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
250	WLL 5 T	Orange	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000
300	WLL 6 T	Orange	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800

Type WS-1

## MERTRA® WS-4 Polyester 4-ply webbing slings

### FEATURE :

- 4-ply polyester webbing sling with reinforced lifting eyes.
- Working load limit WLL. 2-24 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1

### MERTRA®

#### WS-4/25 Series

Lifting sling are manufactured to international standards.



webbing width (mm)	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straight lift up to 45°	choked lift up to 45°	straight lift 45°-60°	choked lift 45°-60°
					0°-7°	7°-45°	45°-60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
25	WLL 2 T	Violet	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
50	WLL 4 T	Green	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
75	WLL 6 T	Yellow	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
100	WLL 8 T	Grey	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
125	WLL 10 T	Red	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
150	WLL 12 T	Brown	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600
200	WLL 16 T	Blue	16,000	12,800	32,000	22,400	16,000	22,400	17,920	16,000	12,800
250	WLL 20 T	Orange	20,000	16,000	40,000	28,000	20,000	28,000	22,400	20,000	16,000
300	WLL 24 T	Orange	24,000	19,200	48,000	33,600	24,000	33,600	26,880	24,000	19,200

Type WS-4



HIGH TENACITY POLYESTER FOR BETTER LIFTING

**FEATURE :**

- Double ply polyester webbing sling with reinforced lifting eyes.
- Working load limit WLL. 1-10 Tonne, Length 1-50 Mtr.

**SPECIFICATIONS :**

- Sling are constructed of 100% polyester
- Certified standard DIN V 61360 Show at blue label
- Safety factor 7:1
- Each kg class has its own colour code. ( see technical data )
- Black Stips to indentify WLL each tonne.
- Max. working temp. 100°C ( 200°F ) Melting point 260°C ( 500°F )
- Excellant resistant to acids, oil, ultra violet ray, rot and mildew.
- Lightweight easy to handle, store and clean.
- No less of strength in water.
- Only 3% elongation.

**NORMS**

- According to Machine Directive 89/392/EC.



**MERTRA®**

WS-2/30 Series  
Lifting sling are manufactured to international standards.



**MERTRA® Chemical resistance information chart**

material	acids	alkalis	oils	organic solvents	water and seawater	ethers	aldehydes	alcohols
Polyester	ok*	no	ok	ok	ok	no	no	ok

\* disintegrated by concentrated sulfuric acid. Higher chemical concentrations and/or higher temperatures will lower the resistance of the sling.

**TECHNICAL DATA, 30 mm. Series**

webbing width (mm) / Strip	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straght lift up to 45°	choked lift up to 45°	straght lift 45°- 60°	choked lift 45°-60°
					0°- 7°	7°- 45°	45°- 60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
30	WLL 1 T	Violet	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
60	WLL 2 T	Green	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
90	WLL 3 T	Yellow	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
120	WLL 4 T	Grey	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
150	WLL 5 T	Red	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000
180	WLL 6 T	Brown	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
240	WLL 8 T	Blue	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
300	WLL 10 T	Orange	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000

- The eyes are reinforced. They act as protection between the sling and the hook. Friction is reduced.
- The eyes of the lifting slings are folded or becketted ( see detail ).
- A label is sewn into each sling from which the allowed direct lift load in kg and the effect of various angles on lifting capacity can be seen.
- Each kg classification has its own colour code.
- Woven in identification black strip ( up to 10,000 kg ) show the working load limit WLL
- Corner pads must be used when lifting loads with sharp edges ( option ).
- Slings are given a durable coating in order to increase resistance against abrasion.



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HIGH TENACITY POLYESTER FOR BETTER LIFTING

### MERTRA® WS-1 Polyester single-ply webbing slings

**FEATURE :**

- Single-ply polyester webbing sling with reinforced lifting eyes.
- Working load limit WLL. 0.5-5 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1

### MERTRA®

#### WS-1/30 Series

Lifting sling are manufactured to international standards.



webbing width (mm) / Strip	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straght lift up to 45°	choked lift up to 45°	straght lift 45°- 60°	choked lift 45°-60°
					0°- 7°	7°- 45°	45°- 60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
30	—	WLL 0.5 T Violet	500	400	1,000	700	500	700	560	500	400
60	==	WLL 1 T Green	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
90	===	WLL 1.5 T Yellow	1,500	1,200	3,000	2,100	1,500	2,100	1,680	1,500	1,200
120	====	WLL 2 T Grey	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
150	=====	WLL 2.5 T Red	2,500	2,000	5,000	3,500	2,500	3,500	2,800	2,500	2,000
180	=====	WLL 3 T Brown	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
240	=====	WLL 4 T Blue	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
300	=====	WLL 5 T Orange	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000

Type WS-1

### MERTRA® WS-4 Polyester 4-ply webbing slings

**FEATURE :**

- 4-ply polyester webbing sling with reinforced lifting eyes.
- Working load limit WLL. 2-20 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1

### MERTRA®

#### WS-4/30 Series

Lifting sling are manufactured to international standards.



webbing width (mm) / Strip	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straght lift up to 45°	choked lift up to 45°	straght lift 45°- 60°	choked lift 45°-60°
					0°- 7°	7°- 45°	45°- 60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
30	—	WLL 2 T Violet	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
60	==	WLL 4 T Green	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
90	===	WLL 6 T Yellow	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
120	====	WLL 8 T Grey	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
150	=====	WLL 10 T Red	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
180	=====	WLL 12 T Brown	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600
240	=====	WLL 16 T Blue	16,000	12,800	32,000	22,400	16,000	22,400	17,920	16,000	12,800
300	=====	WLL 20 T Orange	20,000	16,000	40,000	28,000	20,000	28,000	22,400	20,000	16,000

Type WS-4



# MERTRA®

HIGH TENACITY POLYESTER FOR BETTER LIFTING

**MERTRA® WE-1 Polyester single-ply webbing slings,**  
25 mm. Series

**TYPE :**

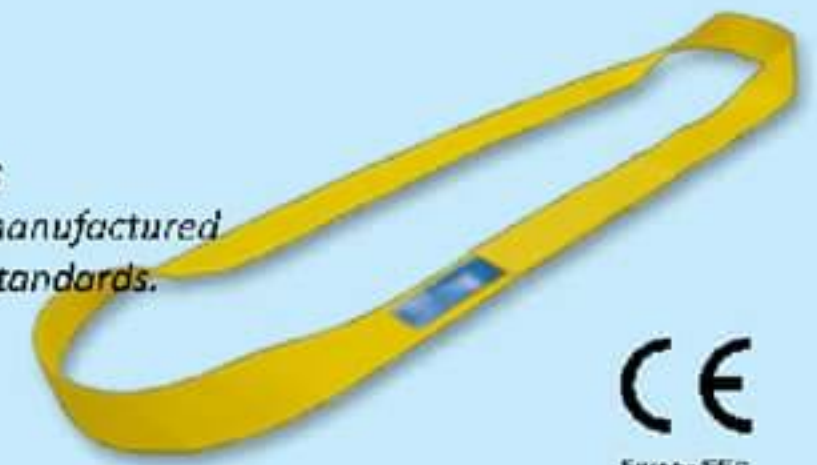
- Single-ply polyester webbing sling endless.
- Working load limit WLL. 1-12 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1

# Endless Webbing Slings

**MERTRA®**

**WE-1/25 Series**

Lifting sling are manufactured to international standards.



webbing width (mm)	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straight lift up to 45°	choked lift up to 45°	straight lift 45°- 60°	choked lift 45°- 60°
					0°- 7°	7°- 45°	45°- 60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
25	WLL 1 T	Violet	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
50	WLL 2 T	Green	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
75	WLL 3 T	Yellow	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
100	WLL 4 T	Grey	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
125	WLL 5 T	Red	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000
150	WLL 6 T	Brown	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
200	WLL 8 T	Blue	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
250	WLL 10 T	Orange	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
300	WLL 12 T	Orange	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600

Type WE-1

**MERTRA® WE-2 Polyester double-ply webbing slings,**  
25 mm. Series

**TYPE :**

- Double-ply polyester webbing sling endless.
- Working load limit WLL. 2-24 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1

**MERTRA®**

**WE-2/25 Series**

Lifting sling are manufactured to international standards.



webbing width (mm)	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straight lift up to 45°	choked lift up to 45°	straight lift 45°- 60°	choked lift 45°- 60°
					0°- 7°	7°- 45°	45°- 60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
25	WLL 2 T	Violet	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
50	WLL 4 T	Green	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
75	WLL 6 T	Yellow	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
100	WLL 8 T	Grey	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
125	WLL 10 T	Red	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
150	WLL 12 T	Brown	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600
200	WLL 16 T	Blue	16,000	12,800	32,000	22,400	16,000	22,400	17,920	16,000	12,800
250	WLL 20 T	Orange	20,000	16,000	40,000	28,000	20,000	28,000	22,400	20,000	16,000
300	WLL 24 T	Orange	24,000	19,200	48,000	33,600	24,000	33,600	26,880	24,000	19,200

Type WE-2



### MERTRA® WE-1 Polyester single-ply webbing slings, 30 mm. Series

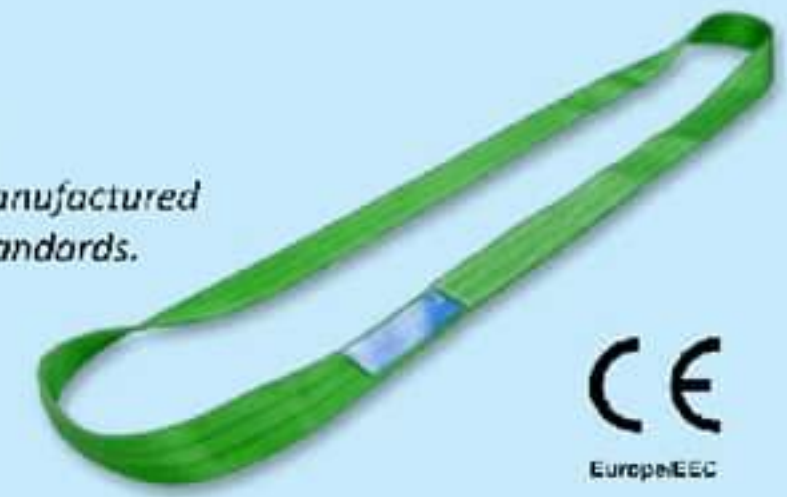
**TYPE :**

- Single-ply polyester webbing sling endless.
- Working load limit WLL. 1-10 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1

### MERTRA®

#### WE-1/30 Series

Lifting sling are manufactured to international standards.



webbing width (mm) / Strip	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straght lift up to 45°	choked lift up to 45°	straght lift 45°- 60°	choked lift 45°-60°
					0°- 7°	7°- 45°	45°- 60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
30	WLL 1 T	Violet	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
60	WLL 2 T	Green	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
90	WLL 3 T	Yellow	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
120	WLL 4 T	Grey	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
150	WLL 5 T	Red	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000
180	WLL 6 T	Brown	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
240	WLL 8 T	Blue	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
300	WLL 10 T	Orange	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000

### MERTRA® WE-2 Polyester Double-ply webbing slings, 30 mm. Series

**TYPE :**

- Double-ply polyester webbing sling endless.
- Working load limit WLL. 2-20 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1

### MERTRA®

#### WE-2/30 Series

Lifting sling are manufactured to international standards.



webbing width (mm) / Strip	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling					Working Load Limits with 2 webbing slings			
			straight lift	choked lift	β			straght lift up to 45°	choked lift up to 45°	straght lift 45°- 60°	choked lift 45°-60°
					0°- 7°	7°- 45°	45°- 60°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
30	WLL 2 T	Violet	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
60	WLL 4 T	Green	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
90	WLL 6 T	Yellow	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
120	WLL 8 T	Grey	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
150	WLL 10 T	Red	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
180	WLL 12 T	Brown	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600
240	WLL 16 T	Blue	16,000	12,800	32,000	22,400	16,000	22,400	17,920	16,000	12,800
300	WLL 20 T	Orange	20,000	16,000	40,000	28,000	20,000	28,000	22,400	20,000	16,000



HIGH TENACITY POLYESTER FOR BETTER LIFTING



**MERTRA®**

**RE-5**

Round sling are manufactured and tested according to international standards.



**FEATURE :**

- Polyester roundsling with two ply woven heavy-duty sleeve.
- Round sling endless.
- Working load limit WLL. 1-100 Tonne, Length 1-24 Mtr.

**SPECIFICATIONS :**

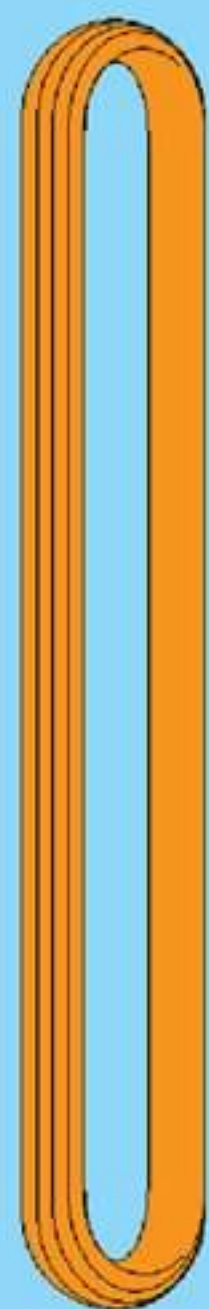
- Sling are constructed of 100% polyester.
- Certified standard DIN V 61360 Show at blue label
- Safety factor 8:1
- The load bearing yarns are protected by a double layer seamless polyester cover.
- Only 3% elongation.

**NORMS**

- According to Machine Directive 89/392/EC.

**TECHNICAL DATA**

type	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 round sling							Working Load Limits with 2 round slings			
			straight lift	choked lift	0°- 7°	β				straght lift up to 45°	choked lift up to 45°	straght lift 45°- 60°	choked lift 45°- 60°
						bis 7°	7°- 45°	45°- 60°	45°- 60°				
			1,0	0,8	2,0	1,4	1,0	0,7	0,5	1,4	1,12	1,0	0,8
RE-5/01	WLL 1 T	Violet	1,000	800	2,000	1,400	1,000	700	500	1,400	1,120	1,000	800
RE-5/02	WLL 2 T	Green	2,000	1,600	4,000	2,800	2,000	2,000	1,000	2,800	2,240	2,000	1,600
RE-5/03	WLL 3 T	Yellow	3,000	2,400	6,000	4,200	3,000	2,100	1,500	4,200	3,360	3,000	2,400
RE-5/04	WLL 4 T	Grey	4,000	3,200	8,000	5,600	4,000	2,800	2,000	5,600	4,480	4,000	3,200
RE-5/05	WLL 5 T	Red	5,000	4,000	10,000	7,000	5,000	3,500	2,500	7,000	5,600	5,000	4,000
RE-5/06	WLL 6 T	Brown	6,000	4,800	12,000	8,400	6,000	4,200	3,000	8,400	6,720	6,000	4,800
RE-5/08	WLL 8 T	Blue	8,000	6,400	16,000	11,200	8,000	5,600	4,000	11,200	8,960	8,000	6,400
RE-5/10	WLL 10 T	Orange	10,000	8,000	20,000	14,000	10,000	7,000	5,000	14,000	11,200	10,000	8,000
RE-5/12	WLL 12 T	Orange	12,000	9,600	24,000	16,800	12,000	8,400	6,000	16,800	13,440	12,000	9,600
RE-5/15	WLL 15 T	Orange	15,000	12,000	30,000	21,000	15,000	10,500	7,500	21,000	16,800	15,000	12,000
RE-5/20	WLL 20 T	Orange	20,000	16,000	40,000	28,000	20,000	14,000	10,000	28,000	22,400	20,000	16,000
RE-5/25	WLL 25 T	Orange	25,000	20,000	50,000	35,000	25,000	17,500	12,500	35,000	28,000	25,000	20,000
RE-5/30	WLL 30 T	Orange	30,000	24,000	60,000	42,000	30,000	21,000	15,000	42,000	33,600	30,000	24,000
RE-5/40	WLL 40 T	Orange	40,000	32,000	80,000	56,000	40,000	28,000	20,000	56,000	44,800	40,000	32,000
RE-5/50	WLL 50 T	Orange	50,000	40,000	100,000	70,000	50,000	35,000	25,000	70,000	56,000	50,000	40,000
RE-5/60	WLL 60 T	Orange	60,000	48,000	120,000	84,000	60,000	42,000	30,000	84,000	67,200	60,000	48,000
RE-5/80	WLL 80 T	Orange	80,000	64,000	160,000	112,000	80,000	56,000	40,000	112,000	89,600	80,000	64,000
RE-5/100	WLL 100 T	Orange	100,000	80,000	200,000	140,000	100,000	70,000	50,000	140,000	112,000	100,000	80,000



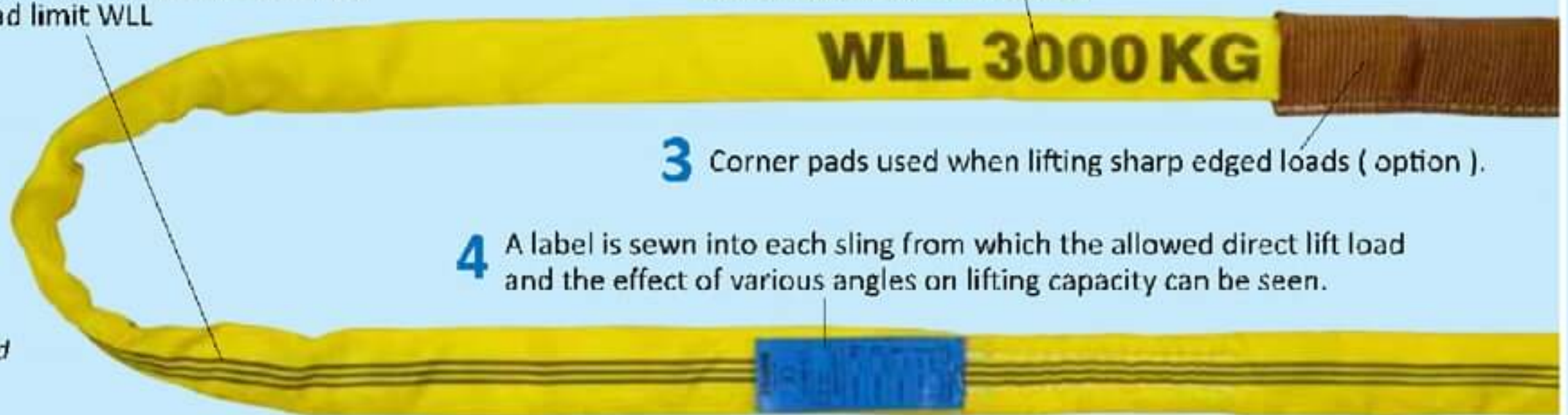
Type RE-5

**1** Each kg class has its own colour code. Woven in identification stripes ( up to 10,000 kg ) Show the working load limit WLL

**2** The kg load class stamped on the round sling shows the allowed direct lift.

**3** Corner pads used when lifting sharp edged loads ( option ).

**4** A label is sewn into each sling from which the allowed direct lift load and the effect of various angles on lifting capacity can be seen.



**MERTRA®**

**RE-5**

Round sling are manufactured and tested according to international standards.



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39/1 MOO 2 BANGPOOD, PAKKRED  
NONHABURI III20, THAILAND

HIGH TENACITY POLYESTER FOR BETTER LIFTING

## MERTRA® RS-5 Polyester round slings with eyes

### TYPE :

- Round strop sling polyester with eyes
- Working load limit WLL. 1-100 Tonne, Length 1-24 Mtr.
- Safety Factor ( S/F ) 8:1



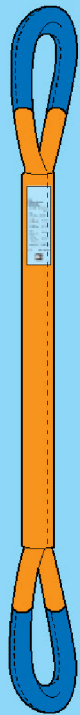
**MERTRA®**

RS-5

Round sling are manufactured and tested according to international standards.

## TECHNICAL DATA

type	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 round sling					Working Load Limits with 2 round slings			
			straight lift	choked lift	U	B		straght lift up to 45°	choked lift up to 45°	straght lift 45° - 60°	choked lift 45° - 60°
						bis 7°	7° - 45°				
			1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
RS-5/01	WLL 1 T	Violet	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
RS-5/02	WLL 2 T	Green	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
RS-5/03	WLL 3 T	Yellow	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
RS-5/04	WLL 4 T	Grey	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
RS-5/05	WLL 5 T	Red	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000
RS-5/06	WLL 6 T	Brown	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
RS-5/08	WLL 8 T	Blue	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
RS-5/10	WLL 10 T	Orange	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
RS-5/12	WLL 12 T	Orange	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600
RS-5/15	WLL 15 T	Orange	15,000	12,000	30,000	21,000	15,000	21,000	16,800	15,000	12,000
RS-5/20	WLL 20 T	Orange	20,000	16,000	40,000	28,000	20,000	28,000	22,400	20,000	16,000
RS-5/25	WLL 25 T	Orange	25,000	20,000	50,000	35,000	25,000	35,000	28,000	25,000	20,000
RS-5/30	WLL 30 T	Orange	30,000	24,000	60,000	42,000	30,000	42,000	33,600	30,000	24,000
RS-5/40	WLL 40 T	Orange	40,000	32,000	80,000	56,000	40,000	56,000	44,800	40,000	32,000
RS-5/50	WLL 50 T	Orange	50,000	40,000	100,000	70,000	50,000	70,000	56,000	50,000	40,000
RS-5/60	WLL 60 T	Orange	60,000	48,000	120,000	84,000	60,000	84,000	67,200	60,000	48,000
RS-5/80	WLL 80 T	Orange	80,000	64,000	160,000	112,000	80,000	112,000	89,600	80,000	64,000
RS-5/100	WLL 100 T	Orange	100,000	80,000	200,000	140,000	100,000	140,000	112,000	100,000	80,000



Type RS-5



**MERTRA®**

RE-5

Round sling are produced from controlled high tenacity polyester yarns.

RE-5 roundsling with 2-ply woven heavy-duty sleeve The roundsling inner core is made from high tensile polyester fibre which is wound continuously without a join to provide the maximum possible strength. This core is protected by a tough woven tubular sleeve also made from polyester without side stitch. It serves to protect both the inner core of the sling and the surface of the product which is lifting.



**MERTRA®**

RS-5

Round stop sling with eyes, Heavy duty



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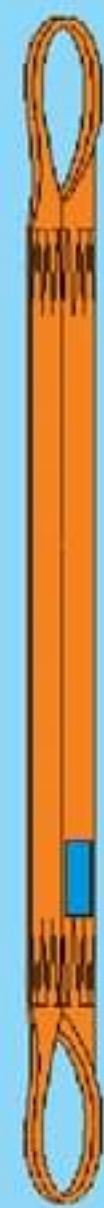
# MERTRA®



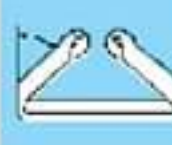

HIGH TENACITY POLYESTER FOR BETTER LIFTING

**MERTRA® CW-1/25 Polyester Single-ply Extra wide slings,  
25 mm. Series, for Heavy Loads**

**TYPE :**

- Single-ply polyester webbing sling.
- Working load limit WLL. 1-12 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1




webbing width (mm)	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling			
			straight lift	β		
				0°- 7°	7°- 45°	45°- 60°
						
			1,0	2,0	1,4	1,0
50	WLL 1 T	Violet	1,000	2,000	1,400	1,000
100	WLL 2 T	Green	2,000	4,000	2,800	2,000
150	WLL 3 T	Yellow	3,000	6,000	4,200	3,000
200	WLL 4 T	Grey	4,000	8,000	5,600	4,000
250	WLL 5 T	Red	5,000	10,000	7,000	5,000
300	WLL 6 T	Brown	6,000	12,000	8,400	6,000
400	WLL 8 T	Blue	8,000	16,000	11,200	8,000
500	WLL 10 T	Orange	10,000	20,000	14,000	10,000
600	WLL 12 T	Orange	12,000	24,000	16,800	12,000



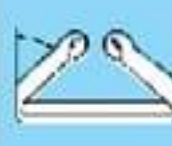

Type CW-1/25

**MERTRA® CW-1/30 Polyester Single-ply Extra wide slings,  
30 mm. Series, for Heavy Loads**

**TYPE :**

- Single-ply polyester webbing sling.
- Working load limit WLL. 1-10 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1



webbing width (mm)	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling			
			straight lift	β		
				0°- 7°	7°- 45°	45°- 60°
						
			1,0	2,0	1,4	1,0
60	WLL 1 T	Violet	1,000	2,000	1,400	1,000
120	WLL 2 T	Green	2,000	4,000	2,800	2,000
180	WLL 3 T	Yellow	3,000	6,000	4,200	3,000
240	WLL 4 T	Grey	4,000	8,000	5,600	4,000
300	WLL 5 T	Red	5,000	10,000	7,000	5,000
360	WLL 6 T	Brown	6,000	12,000	8,400	6,000
480	WLL 8 T	Blue	8,000	16,000	11,200	8,000
600	WLL 10 T	Orange	10,000	20,000	14,000	10,000

Type CW-1/30

## Extra wide Slings



### Continuous Eye Wide-Lift

**For Heavy Loads** - Constructed from one endless sling with the two body lengths butted and joined side by side.

### MERTRA®

#### CW-1/25 Series

Lifting sling are manufactured to international standards.



### MERTRA®

#### CW-1/30 Series



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39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI 1120, THAILAND



**MERTRA® AW-1/25 Polyester single-ply Extra wide slings, 25 mm. Series, for light, Bulky Loads.**

**TYPE :**

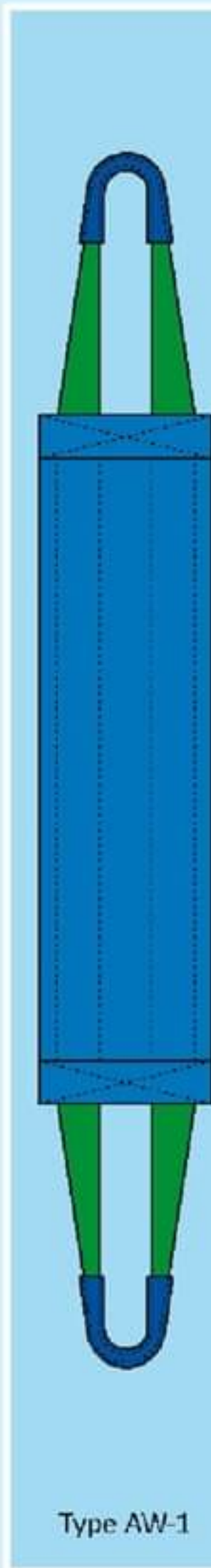
- Single-ply polyester webbing sling.
- Working load limit WLL. 1-6 Tonne, Length 1-20 Mtr.
- Safety Factor ( S/F ) 7:1

### Attached Eye Wide-Lift

For light, Bulky Loads

- Lifting eyes are attached to a single ply sling body.

Available with One Ply eyes (WS) or TWO PLY eyes (WD).



Type AW-1

webbing width (mm)	Colourcode according to DIN-EN 1492-1		Working Load Limits with 1 webbing sling			
			straight lift	β		
				0°- 7°	7°- 45°	45°- 60°
			1,0	2,0	1,4	1,0
150	WLL 1 T	Brown / Violet	1,000	2,000	1,400	1,000
150	WLL 2 T	Brown / Green	2,000	4,000	2,800	2,000
200	WLL 1 T	Blue / Violet	1,000	2,000	1,400	1,000
200	WLL 2 T	Blue / Green	2,000	4,000	2,800	2,000
200	WLL 3 T	Blue / Yellow	3,000	6,000	4,200	3,000
250	WLL 2 T	Orange / Green	2,000	4,000	2,800	2,000
250	WLL 3 T	Orange / Yellow	3,000	6,000	4,200	3,000
300	WLL 2 T	Orange / Green	2,000	4,000	2,800	2,000
300	WLL 3 T	Orange / Yellow	3,000	6,000	4,200	3,000
400	WLL 2 T	Blue / Green	2,000	4,000	2,800	2,000
400	WLL 3 T	Blue / Yellow	3,000	6,000	4,200	3,000
400	WLL 4 T	Blue / Grey	4,000	8,000	5,600	4,000
500	WLL 3 T	Orange / Yellow	3,000	6,000	4,200	3,000
500	WLL 4 T	Orange / Grey	4,000	8,000	5,600	4,000
500	WLL 5 T	Orange / Red	5,000	10,000	7,000	5,000
600	WLL 3 T	Orange / Yellow	3,000	6,000	4,200	3,000
600	WLL 4 T	Orange / Grey	4,000	8,000	5,600	4,000
600	WLL 5 T	Orange / Red	5,000	10,000	7,000	5,000
600	WLL 6 T	Orange / Brown	6,000	12,000	8,400	6,000



**MERTRA®**  
CW-1, Extra wide slings  
with Heavy Duty Sewing Machine

### MERTRA®

#### CW-1/30 Series

Lifting sling are manufactured to international standards.





### Model # MLL-2 Lowering-in Belts

- Heavy duty polyester webbing for durability and strength
- Alloy steel end irons for greater strength with less weight
- Web coated with heavy duty coating
- Blue label with clear protective cover to protect data
- End irons painted
- Custom belts available for pipe diameters not listed
- Belts used around the world, in all types of climates, in sizes up to 60" Diameter pipe
- Head iron not included as pictured
- Lowering-in belt and head iron sold separately
- Max. working temp. 100°C ( 200°F ) Melting point 260°C ( 500°F )
- Excellent resistant to acids, oil, ultra violet ray, rot and mildew.
- Lightweight easy to handle, store and clean.
- No less of strength in water.
- Only 3% elongation.

part#	Max Pipe Diameter		Belt Width		Belt Length		Approximate Weight	Rated Capacity
	in	mm	in	mm	ft.- in	m		
MLL-0212	12"	305	12"	305	4' - 9"	1.45	14.5	21,772
MLL-0418	18"	457	18"	457	7' - 0"	2.13	23.6	33,112
MLL-0420	20"	508	18"	457	7' - 6"	2.29	24.9	33,112
MLL-0524	24"	610	24"	610	8' - 6"	2.59	36.7	43,998
MLL-0630	30"	762	30"	762	10' - 0"	3.05	40.8	55,338
MLL-0736	36"	914	36"	914	11' - 6"	3.51	54.4	66,224
MLL-0742	42"	1067	36"	914	13' - 6"	4.11	61.2	66,224
MLL-0748	48"	1219	36"	914	15' - 0"	4.57	70.3	66,224
MLL-0842	42"	1067	42"	1067	13' - 6"	4.11	68.0	77,564
MLL-0848	48"	1219	42"	1067	15' - 0"	4.57	77.1	77,564
MLL-0948	48"	1219	48"	1219	15' - 0"	4.57	90.7	88,450
MLL-0956	56"	1422	48"	1219	17' - 0"	5.18	100.0	88,450
MLL-1156	56"	1422	56"	1422	17' - 0"	5.18	113.0	103,418
MLL-1160	60"	1524	56"	1422	18' - 0"	5.49	122.0	103,418

### Safety factor

- 5 to 1 design factor standard
- 7 to 1 design factors available upng request



**MERTRA**

**MLL-2**

Lifting sling and Head Iron are manufactured to international standards.



### Model # MLH Lifting Head Irons

- Used to suspend lowering-in belts
- Alloy steel bail for greater strength with less weight
- Painted
- Stainless Steel Data plate
- Easy release hooks on one side



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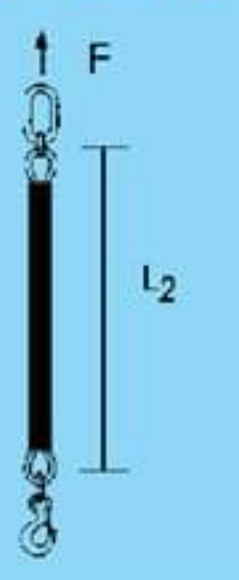


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39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND


## Working Load Limit in Tonne

1-legged	load capacity (kg)		Type of roundsling
	1.0		
	1,000	RS-5/01	
	2,000	RS-5/02	
	3,000	RS-5/03	
	4,000	RS-5/04	
	5,000	RS-5/05	


  

2-legged	$\beta$		Type of roundsling
	0-45°	45 - 60°	
	1.4	1.0	RS-5/10
	1,400	1,000	RS-5/20
	2,800	2,000	RS-5/30
	4,200	3,000	RS-5/40
	5,600	4,000	RS-5/50
	7,000	5,000	RS-5/50

3-legged	$\beta$		Type of roundsling
	0-45°	45 - 60°	
	2.1	1.5	RS-5/10
	2,100	1,500	RS-5/20
	4,200	3,000	RS-5/30
	6,300	4,500	RS-5/40
	8,400	6,000	RS-5/50
	10,500	7,500	RS-5/50

4-legged	$\beta$		Type of roundsling
	0-45°	45 - 60°	
	2.1	1.5	RS-5/10
	2,100	1,500	RS-5/20
	4,200	3,000	RS-5/30
	6,300	4,500	RS-5/40
	8,400	6,000	RS-5/50
	10,500	7,500	RS-5/50

### HOW TO REQUIREMENT :

1. TYPE OF SLING (ROUND SLING/WEBBING SLING)
2. TYPE OF LEG SLING (1, 2, 3 or 4-LEGGED)
3. CAPACITY PER EACH LEG OR CAPACITY PER SET
4. WORKING LENGTH OF SLING
5. TYPE OF END FITTING

## 1, 2, 3 & 4 legged

### MERTRA®

LS-1, 2, 3 & 4 Legged sling are manufactured and tested according to international standards.



### FEATURE :

- Polyester roundsling assembly with metal components.
- One-, two-, three- or four-legged.

### SPECIFICATIONS :

- Each leg is protected by a sleeve.
- Standard Hook HS, other hooks on request.
- Lengths according to requirements.
- Light and easy to handle.
- Easy to control.

### CHARACTERISTICS

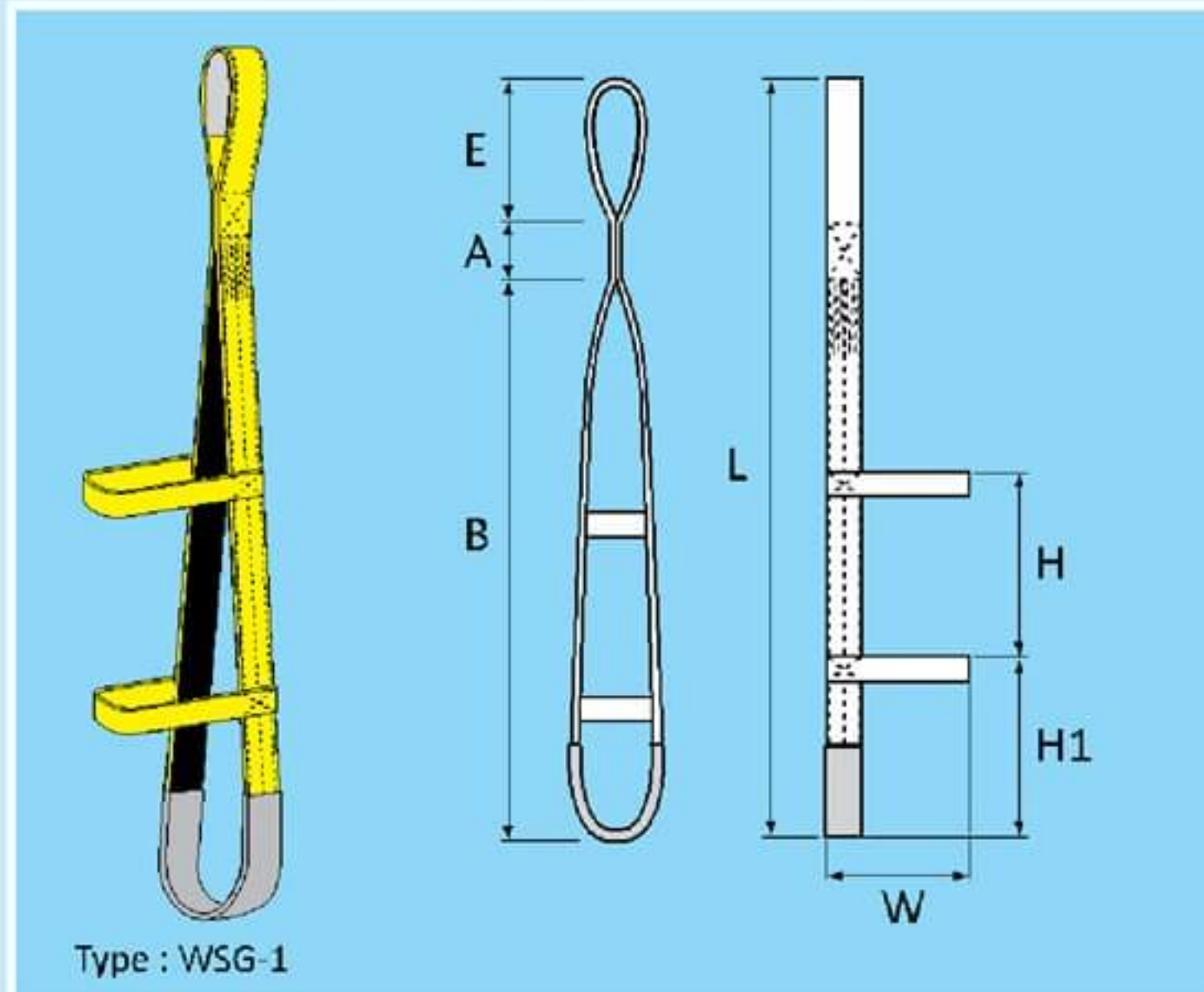
- Low elongation.
- Extremely wear-resistant.



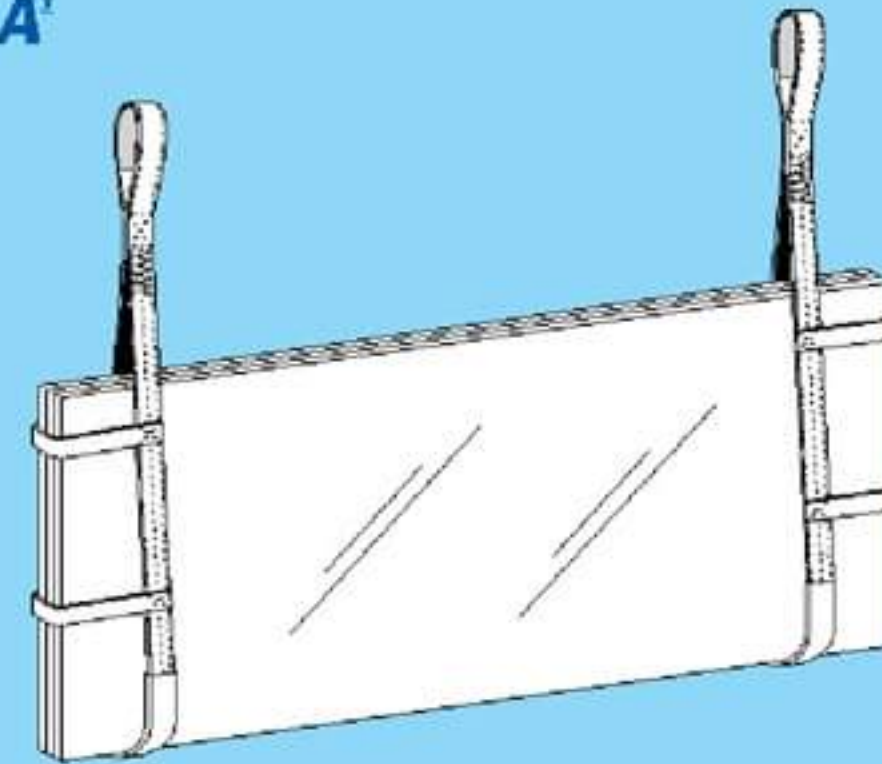
HIGH TENACITY POLYESTER FOR BETTER LIFTING

### MERTRA® WSG-1 Flat Lifting slings, Single eye.

- Single eye polyester webbing sling.
- Working load limit WLL. 2.1-2.8 Tonne, Length 2-6 Mtr. ( on request ).
- Safety Factor ( S/F ) 7:1
- Protective pad, Rubber, PES. Webbing, Canvas.



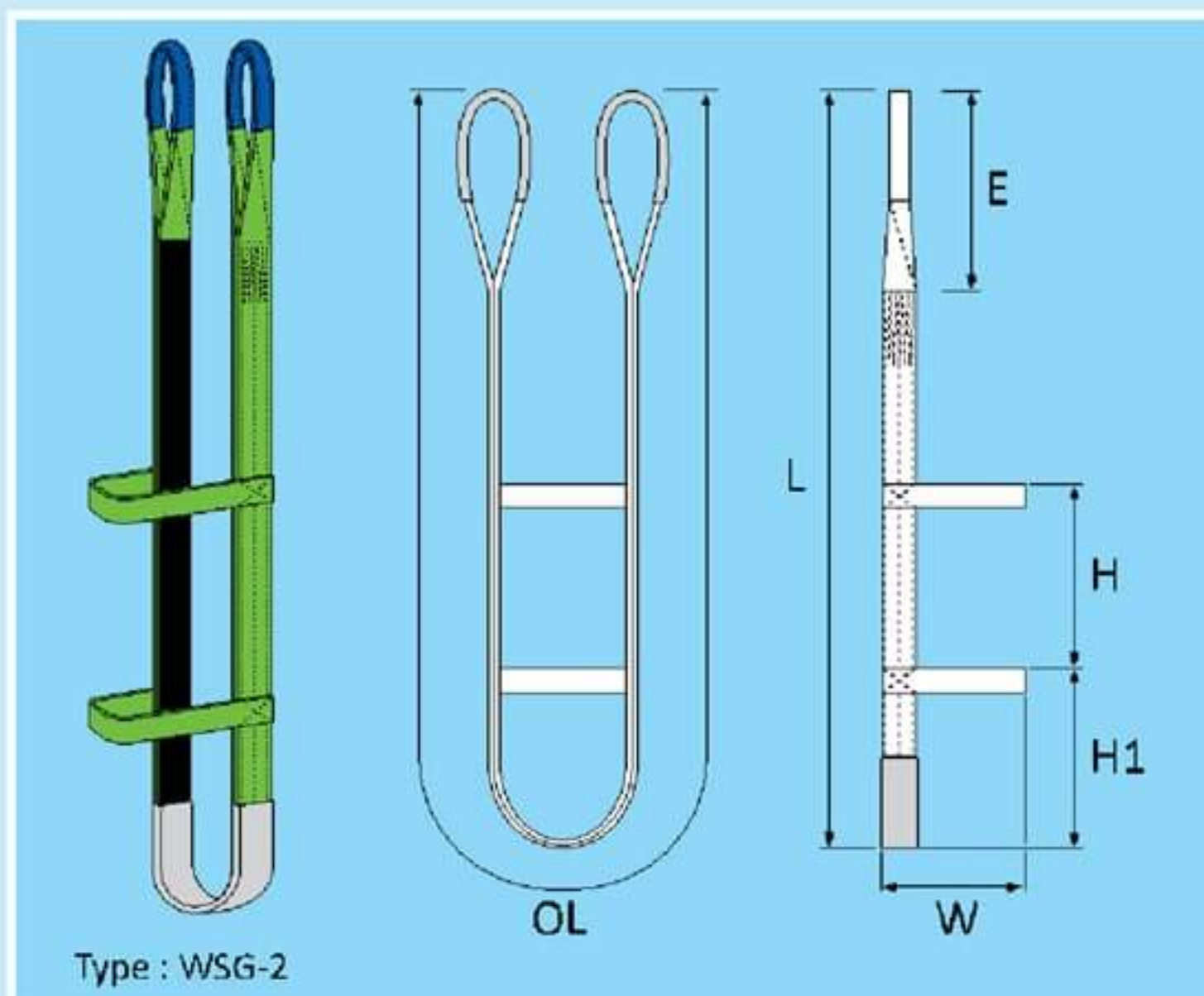
### MERTRA® WSG-1 Single eye, Lifting glass



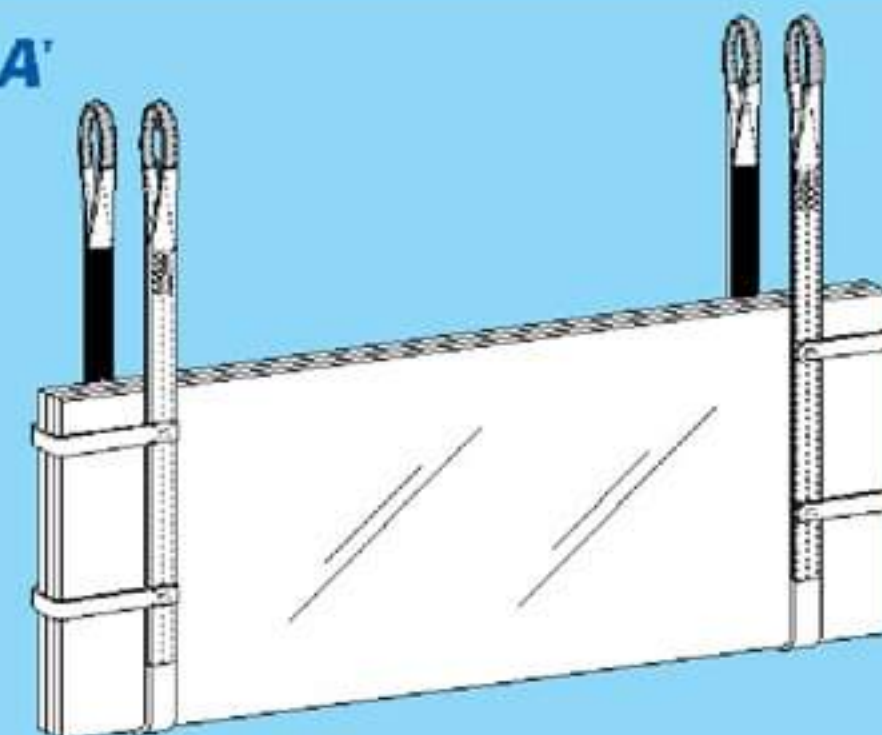
webbing width (mm)	SWL at basket lift	Colour	Working Load Limit with 2 sling
75	WLL 2.1 T	Yellow	4,200
100	WLL 2.8 T	Grey	5,600

### MERTRA® WSG-2 Flat Lifting slings, with 2-eyes

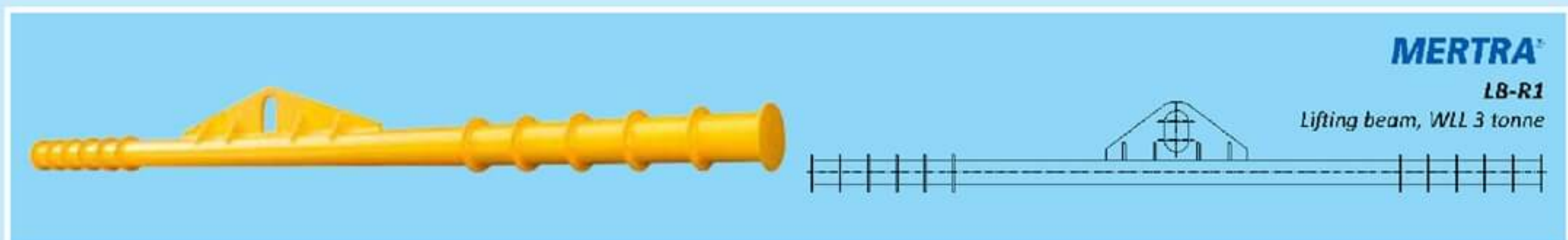
- 2-eyes polyester webbing sling.
- Working load limit WLL. 2.8-5.6 Tonne, Length 2-6 Mtr. ( on request ).
- Safety Factor ( S/F ) 7:1
- Protective pad, Rubber, PES. Webbing, Canvas.



### MERTRA® WSG-2 2-eye, Lifting glass



webbing width (mm)	SWL at basket lift	Colour	Working Load Limit with 2 sling
60	WLL 2.8 T	Green	5,600
75	WLL 4.2 T	Yellow	8,400
100	WLL 5.6 T	Grey	11,200



**MERTRA®**

**Polyester Lashing System**



SIRIMONGKOL CORPORATION CO., LTD.



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NONTABURI 1120, THAILAND

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HIGH TENACITY POLYESTER FOR BETTER LIFTING



**LSW7510**  
B/S 10,000 kgs.

**75 mm. Ratchet strap with Hook**  
Ratchet Buckle : RB7510  
End Fitting : WH7510  
Webbing : RIBBONS No. 721T



**LSL7510**  
B/S 10,000 kgs.

**75 mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB7510  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 721T



**LSC7510**  
B/S 10,000 kgs.

**75 mm. Ratchet strap with Claw Hook**  
Ratchet Buckle : RB7510  
End Fitting : CH7510  
Webbing : RIBBONS No. 721T



**LST7510**  
B/S 10,000 kgs.

**75 mm. Ratchet strap with Triangle Hook**  
Ratchet Buckle : RB7510  
End Fitting : TH7510  
Webbing : RIBBONS No. 721T

### LS7510 75 mm. 10,000 kgs., Ratchet strap

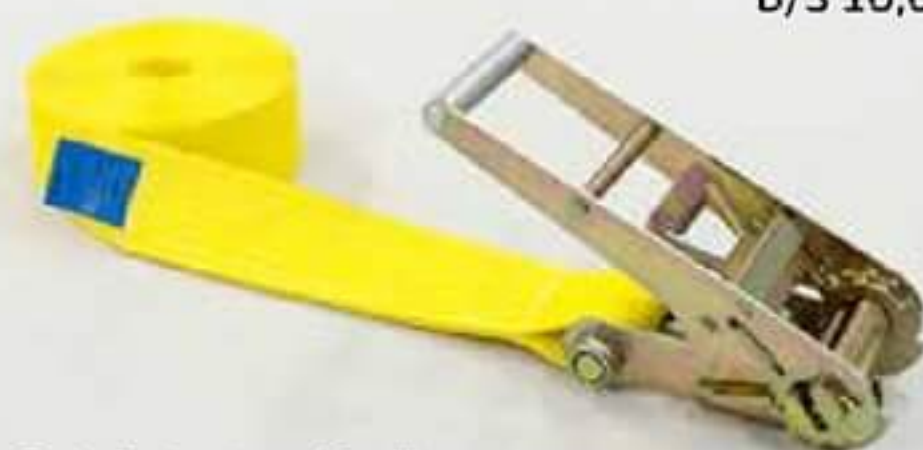


#### FEATURE :

- MERTRA Heavy Duty Lashing system with high tenacity polyester and high quality metal component.
- Ratchet strap with hook (end fitting) and Ratchet strap endless.
- Breaking strength (B/S) 10,000 kgs.-12,000 kgs., Length 2-20 Mtr.

#### SPECIFICATIONS :

- Lashing webbing are produced from controlled 100% high tenacity polyester yarns.
- Metal components are selected to suit lashing webbing and meet international standard.
- Certified standard DIN V 61360 show at blue label.
- Webbing width 75mm., 100mm.
- Standard J-Hook, other end fitting on request.
- Length according to requirement.



**LSE7510**  
B/S 10,000 kgs.

**75 mm. Ratchet strap Endless**  
Ratchet Buckle : RB7510  
End Fitting : Endless  
Webbing : RIBBONS No. 721T



HIGH TENACITY POLYESTER FOR BETTER LIFTING

**MERTRA®**  
Ratchet strap with hook are manufactured and tested according to international standards.



**LS10012**  
**100 mm. 12,000 kgs., Ratchet strap**



**LSW10012**  
B/S 12,000 kgs.

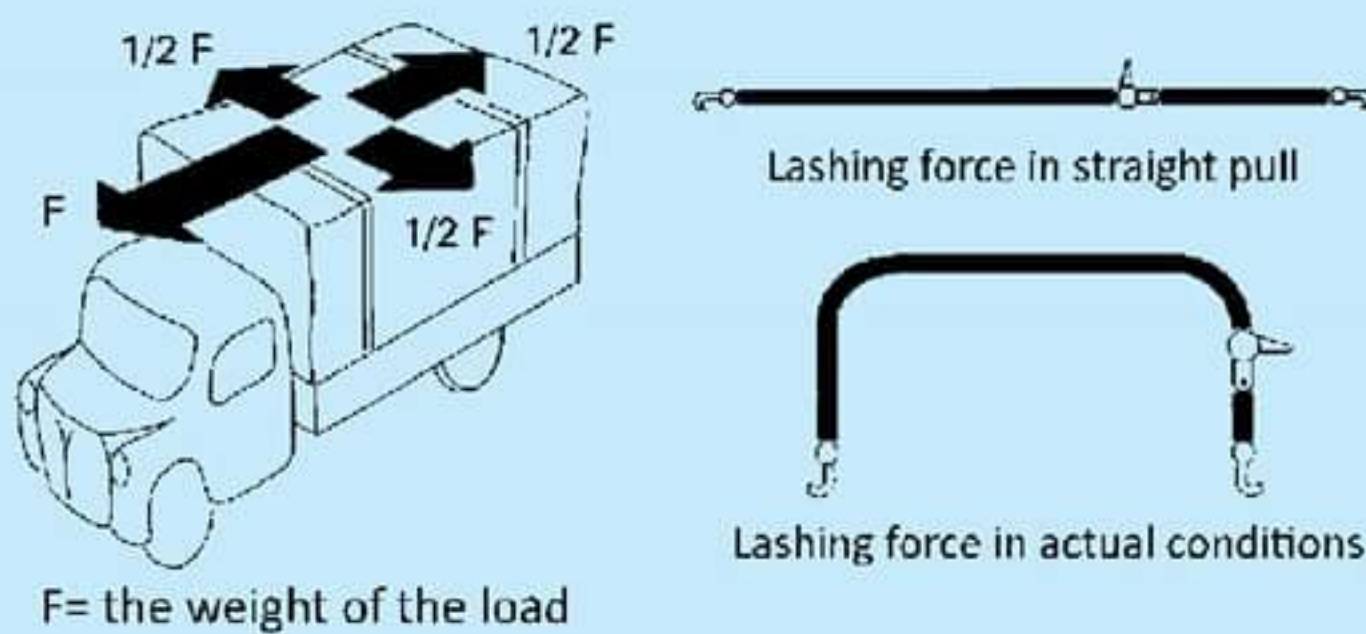


**100 mm. Ratchet strap with Hook**  
Ratchet Buckle : RB10012  
End Fitting : WH7510  
Webbing : RIBBONS No. 721T-100

**LSL10012**  
B/S 12,000 kgs.



**100 mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB10012  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 721T-100



The load must be restraint so that the national requirement of each country concerning multidirectional lashings are fulfilled.

**LSC10012**  
B/S 12,000 kgs.



**100 mm. Ratchet strap with Claw Hook**  
Ratchet Buckle : RB10012  
End Fitting : CH7510  
Webbing : RIBBONS No. 721T-100

**LSE10012**  
B/S 12,000 kgs.



**100 mm. Ratchet strap Endless**  
Ratchet Buckle : RB10012  
End Fitting : Endless  
Webbing : RIBBONS No. 721T-100

**LST10012**  
B/S 12,000 kgs.



**100 mm. Ratchet strap with Triangle Hook**  
Ratchet Buckle : RB10012  
End Fitting : TH7510  
Webbing : RIBBONS No. 721T-100



HIGH TENACITY POLYESTER FOR BETTER LIFTING

## 50 mm. 6000 kgs., Ratchet strap

**MERTRA®**

**LS5060**

Ratchet strap with hook are manufactured and tested according to international standards.



**FEATURE :**

- MERTRA Lashing system with high tenacity polyester and high quality metal component.
- Ratchet strap with hook (end fitting) and Ratchet strap endless.
- Breaking strength (B/S) 6,000 kgs., Length 2-20 Mtr.

**SPECIFICATIONS :**

- Lashing webbing are produced from controlled 100% high tenacity polyester yarns.
- Metal components are selected to suit lashing webbing and meet international standard.
- Certified standard DIN V 61360 show at blue label.
- Webbing width 50mm.
- Standard J-Hook, other end fitting on request.
- Length according to requirement.
- Light weight and easy to operate.
- Low elongation.



**LSW5060**  
B/S 6000 kgs.

Ratchet Buckle : RB5060M  
End Fitting : WH5060  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap with Hook**



**LST5060**  
B/S 6000 kgs.

Ratchet Buckle : RB5060M  
End Fitting : TH5060  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap with Triangle Hook**



**LSL5060**  
B/S 6000 kgs.

Ratchet Buckle : RB5060M  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap with Loop Eyes**



**LSE5060**  
B/S 6000 kgs.

Ratchet Buckle : RB5060M  
End Fitting : Endless  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap Endless**



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**LSW5060B**  
B/S 6000 kgs.

Ratchet Buckle : RB5060B  
End Fitting : WH5060  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap with Hook**



**LST5060B**  
B/S 6000 kgs.

Ratchet Buckle : RB5060B  
End Fitting : TH5060  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap with Triangle Hook**



**LSL5060B**  
B/S 6000 kgs.

Ratchet Buckle : RB5060B  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap with Loop Eyes**



**LSE5060B**  
B/S 6000 kgs.

Ratchet Buckle : RB5060B  
End Fitting : Endless  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap Endless**



**LSW5060P**  
B/S 6000 kgs.

Ratchet Buckle : RB5060P  
End Fitting : WH5060  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap with Hook**



**LST5060P**  
B/S 6000 kgs.

Ratchet Buckle : RB5060P  
End Fitting : TH5060  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap with Triangle Hook**



**LSL5060P**  
B/S 6000 kgs.

Ratchet Buckle : RB5060P  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap with Loop Eyes**



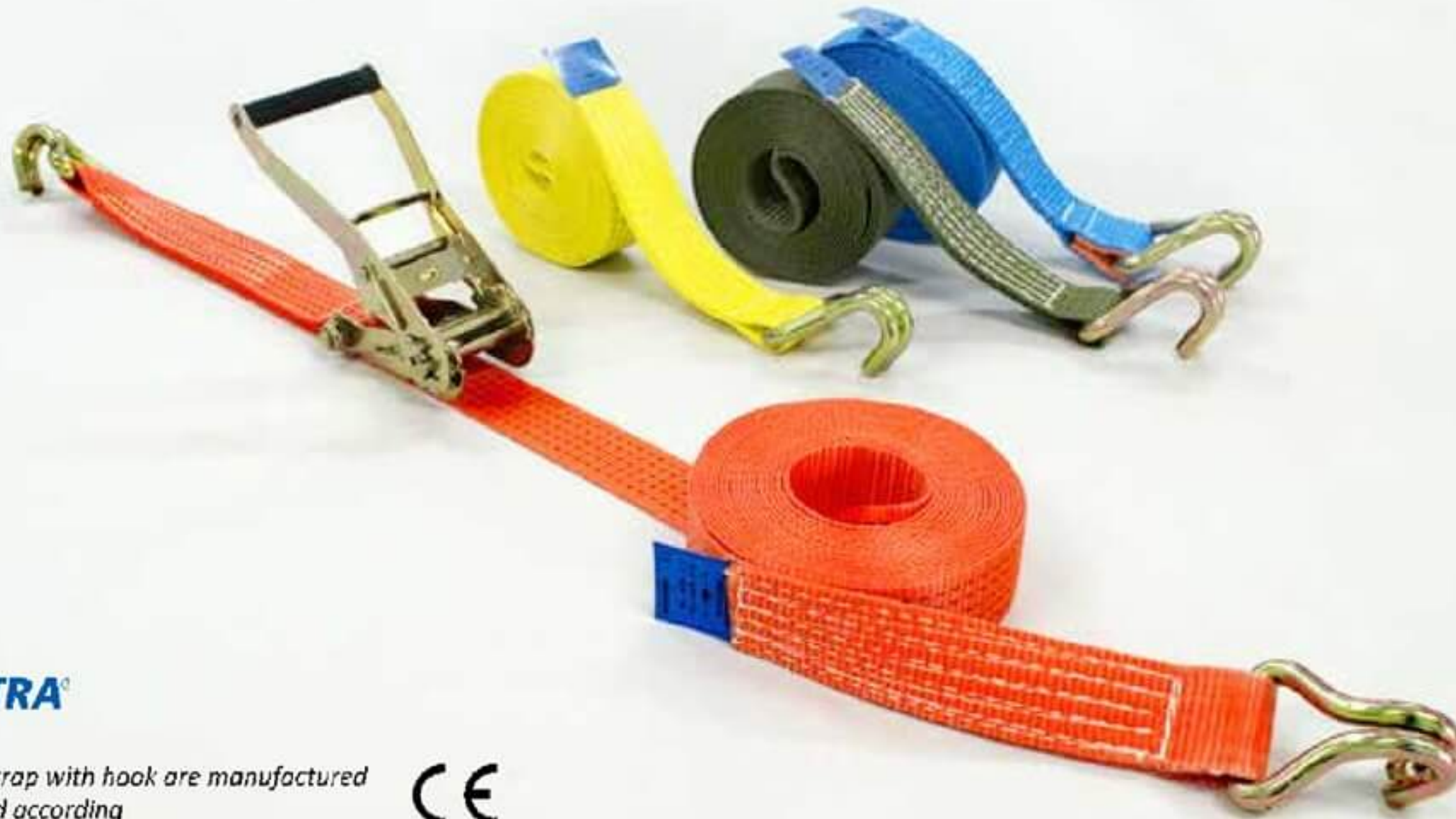
**LSE5060P**  
B/S 6000 kgs.

Ratchet Buckle : RB5060P  
End Fitting : Endless  
Webbing : RIBBONS No. 6190T  
**50 mm. Ratchet strap Endless**



HIGH TENACITY POLYESTER FOR BETTER LIFTING

## 50 mm. 5000 kgs., Ratchet strap



### MERTRA®

#### LSS050

Ratchet strap with hook are manufactured and tested according to international standards.



#### FEATURE :

- MERTRA Lashing system with high tenacity polyester and high quality metal component.
- Ratchet strap with hook (end fitting) and Ratchet strap endless.
- Breaking strength (B/S) 5,000 kgs., Length 2-20 Mtr.

#### SPECIFICATIONS :

- Lashing webbing are produced from controlled 100% high tenacity polyester yarns.
- Metal components are selected to suit lashing webbing and meet international standard.
- Certified standard DIN V 61360 show at blue label.
- Webbing width 50mm.
- Standard J-Hook, other end fitting on request.
- Length according to requirement.
- Light weight and easy to operate.
- Low elongation.



**LSW5050**  
B/S 5000 kgs.

**50 mm. Ratchet strap with J-Hook**  
Ratchet Buckle : RB5050BH  
End Fitting : WH5050  
Webbing : RIBBONS No. 6190

Webbing Color



**LST 5050**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Triangle Hook**  
Ratchet Buckle : RB5050BH  
End Fitting : TH5050  
Webbing : RIBBONS No. 6190

Webbing Color



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**LSF5050**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Flat Snap Hook**  
Ratchet Buckle : RB5050BH  
End Fitting : SF5050  
Webbing : RIBBONS No. 6190  
Webbing Color



**LSN5050**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Twisted Snap Hook**  
Ratchet Buckle : RB5050BH  
End Fitting : ST5050  
Webbing : RIBBONS No. 6190  
Webbing Color



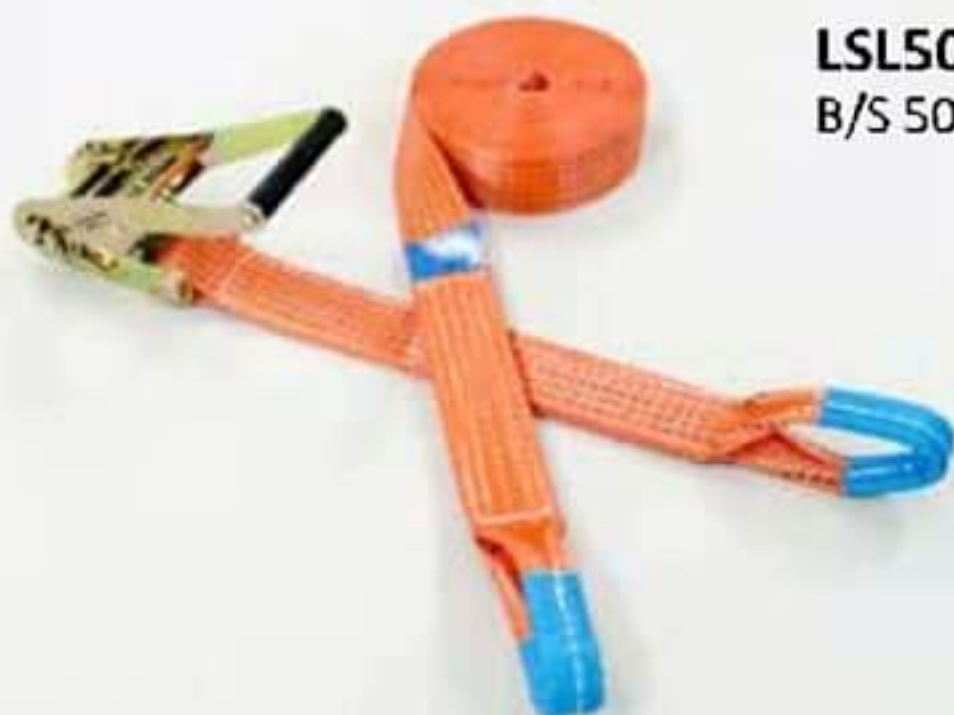
**LSC5050**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Claw Hook**  
Ratchet Buckle : RB5050BH  
End Fitting : CH5050  
Webbing : RIBBONS No. 6190  
Webbing Color



**LSK5050**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Hook Keeper**  
Ratchet Buckle : RB5050BH  
End Fitting : KH5050  
Webbing : RIBBONS No. 6190  
Webbing Color



**LSL5050**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB5050BH  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 6190  
Webbing Color



**LSE5050**  
B/S 5000 kgs.

**50 mm. Ratchet strap Endless**  
Ratchet Buckle : RB5050BH  
End Fitting : ENDLESS  
Webbing : RIBBONS No. 6190  
Webbing Color



HIGH TENACITY POLYESTER FOR BETTER LIFTING

### 50 mm. 5000 kgs., Ratchet strap



#### MERTRA®

##### LSS050

Ratchet strap with hook are manufactured and tested according to international standards.



#### FEATURE :

- MERTRA Lashing system with high tenacity polyester and high quality metal component.
- Ratchet strap with hook (end fitting) and Ratchet strap endless.
- Breaking strength (B/S) 5,000 kgs., Length 2-20 Mtr.

#### SPECIFICATIONS :

- Lashing webbing are produced from controlled 100% high tenacity polyester yarns.
- Metal components are selected to suit lashing webbing and meet international standard.
- Certified standard DIN V 61360 show at blue label.
- Webbing width 50mm.
- Standard J-Hook, other end fitting on request.
- Length according to requirement.
- Light weight and easy to operate.
- Low elongation.



**LSW5050A**  
B/S 5000 kgs.

#### 50 mm. Ratchet strap with J-Hook

Ratchet Buckle : RB5050

End Fitting : WH5050

Webbing : RIBBONS No. 6190

Webbing Color



**LST5050A**  
B/S 5000 kgs.

#### 50 mm. Ratchet strap with Triangle Hook

Ratchet Buckle : RB5050

End Fitting : TH5050

Webbing : RIBBONS No. 6190

Webbing Color



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**LSF5050A**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Flat Snap Hook**  
Ratchet Buckle : RB5050  
End Fitting : SF5050  
Webbing : RIBBONS No. 6190  
Webbing Color



**LSN5050A**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Twisted Snap Hook**  
Ratchet Buckle : RB5050  
End Fitting : ST5050  
Webbing : RIBBONS No. 6190  
Webbing Color



**LSC5050A**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Claw Hook**  
Ratchet Buckle : RB5050  
End Fitting : CH5050  
Webbing : RIBBONS No. 6190  
Webbing Color



**LSK5050A**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Hook Keeper**  
Ratchet Buckle : RB5050  
End Fitting : KH5050  
Webbing : RIBBONS No. 6190  
Webbing Color



**LSL5050A**  
B/S 5000 kgs.

**50 mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB5050  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 6190  
Webbing Color



**LSE5050A**  
B/S 5000 kgs.

**50 mm. Ratchet strap Endless**  
Ratchet Buckle : RB5050  
End Fitting : ENDLESS  
Webbing : RIBBONS No. 6190  
Webbing Color



**50 mm. 5000 kgs.,  
75 mm. 6800 kgs.,  
Lashing Winch**

**MERTRA®**

**LTW5060**

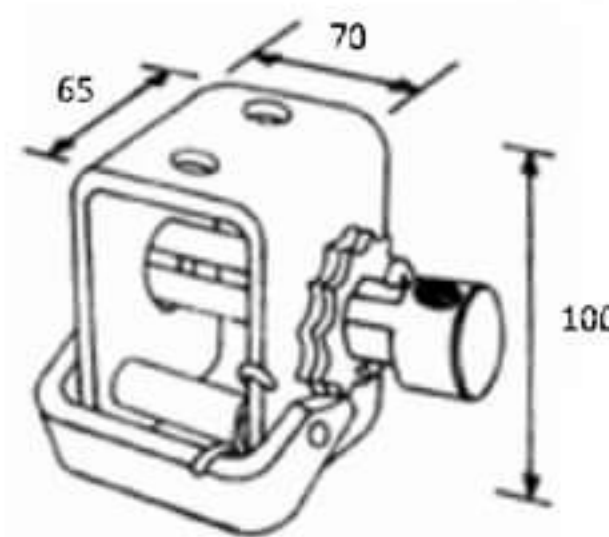
Ratchet strap with hook are  
manufactured and tested according  
to international standards.



**LTW5050**  
B/S 5000 kgs.

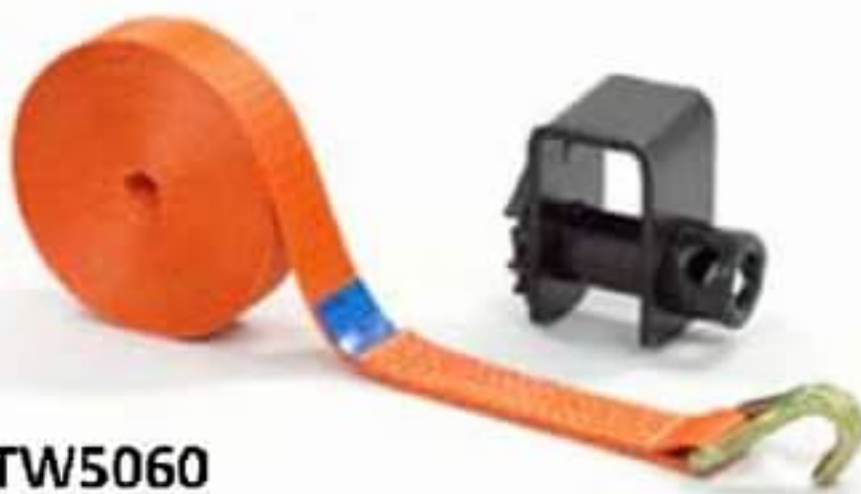


**TW5050**

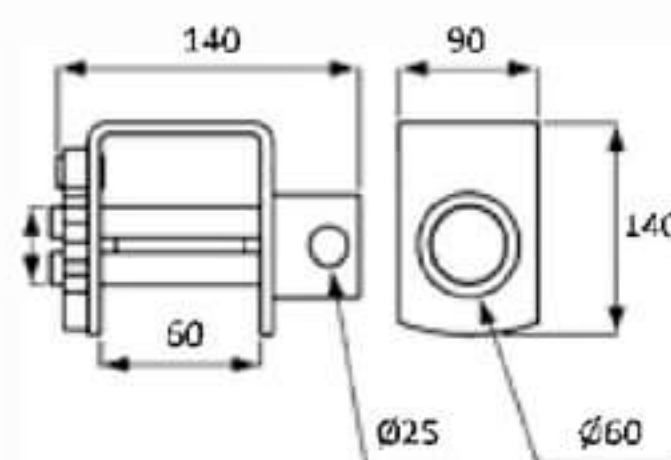


50 mm. Trailer Winch with Hook  
Trailer Winch : TW5050  
End Fitting : WH5050  
Webbing : RIBBONS No. 6190  
Webbing Color

**LTW5060**  
B/S 5000 kgs.



**TW5060**

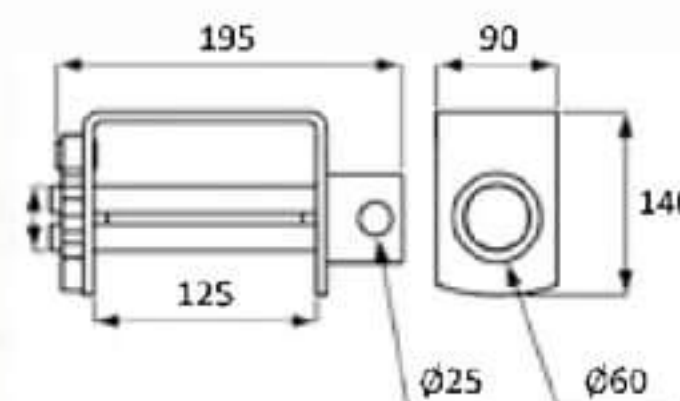


50 mm. Trailer Winch with Hook  
Trailer Winch : TW5060  
End Fitting : WH5050  
Webbing : RIBBONS No. 6190  
Webbing Color

**LTW7570**  
B/S 6800 kgs.



**TW7570**



75 mm. Trailer Winch with Hook  
Trailer Winch : TW7570  
End Fitting : WH7510  
Webbing : RIBBONS No. 6593  
Webbing Color



### 50 mm. 5000 kgs., High Tension Strap

**MERTRA®**

**LSV5050**

Polyester high tension strap with eye are manufactured and tested according to international standards.



### Vehicle Transport

**FEATURE :**

- MERTRA Lashing system with high tenacity polyester and high quality metal component.
- 1-Ply, 2-Ply Strap with hook (end fitting).
- Breaking strength (B/S) 5,000 kgs., Length 1-5 Mtr (on request).
- Available Webbing Color : ■ ■ ■ ■

**LSV5050A**  
B/S 5000 kgs.



**50 mm. 1-Ply High tension strap**  
End Fitting : SH1625  
Webbing : RIBBONS No. 6190T

**LSV5050B**  
B/S 5000 kgs.



**50 mm. 2-Ply High tension strap**  
End Fitting : SH1625  
Webbing : RIBBONS No. 6190T

**U-SHACKLE**



**10 mm. U-Shackle with Screw Pin**  
Size 10 mm. (3/8")  
Forged carbon steel

**SH-1625R**  
B/S 2500 kgs.



**Transport J-Hook, Square head**  
Size 16 mm. (5/8")  
High tensile carbon steel

**SH-1625F**  
B/S 2500 kgs.



**Transport J-Hook, Flat head**  
Size 16 mm. (5/8")  
High tensile carbon steel



### 35 mm. 3000 kgs., Ratchet strap



**MERTRA®**

**LS3530**

Ratchet strap with hook are manufactured and tested according to international standards.



**FEATURE :**

- MERTRA Lashing system with high tenacity polyester and high quality metal component.
- Ratchet strap with hook (end fitting) and Ratchet strap endless.
- Breaking strength (B/S) 3,000 kgs., Length 1-20 Mtr.

**LSW3530B**  
B/S 3000 kgs.

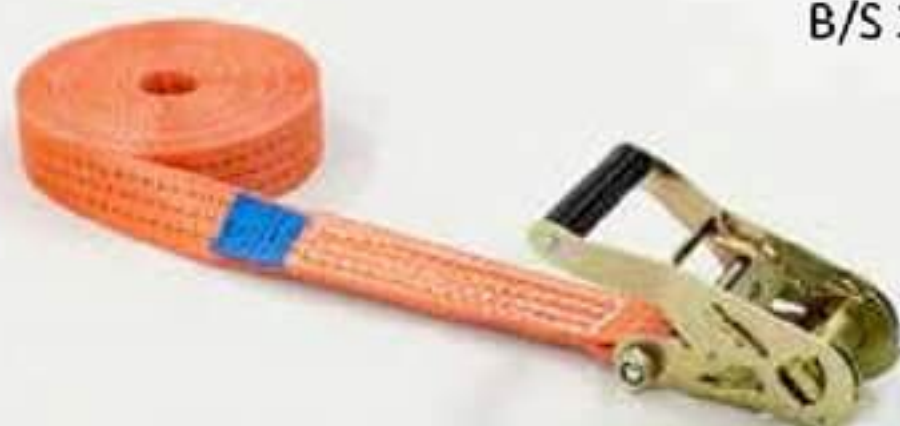


**35 mm. Ratchet strap with Hook**  
Ratchet Buckle : RB3530B  
End Fitting : WH3530  
Webbing : RIBBONS No. 5986

**SPECIFICATIONS :**

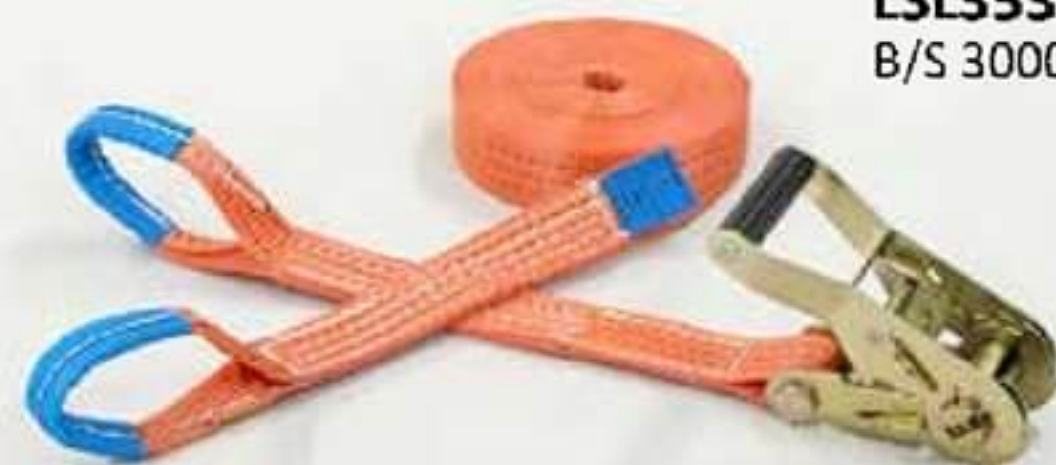
- Lashing webbing are produced from controlled 100% high tenacity polyester yarns.
- Metal components are selected to suit lashing webbing and meet international standard.
- Certified standard DIN V 61360 show at blue label.
- Webbing width 35mm.
- Standard J-Hook, other end fitting on request.
- Length according to requirement.
- Light weight and easy to operate.
- Low elongation.
- Available Webbing Color :

**LSE3530B**  
B/S 3000 kgs.



**35 mm. Ratchet strap Endless**  
Ratchet Buckle : RB3530B  
End Fitting : Endless  
Webbing : RIBBONS No. 5986

**LSL3530B**  
B/S 3000 kgs.



**35 mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB3530B  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 5986





**LSW3520P**  
B/S 2000 kgs.

**35 mm. Ratchet strap with Hook**  
Ratchet Buckle : RB3520P  
End Fitting : WH3530  
Webbing : RIBBONS No. 6044



**LSW3530**  
B/S 3000 kgs.

**35 mm. Ratchet strap with Hook**  
Ratchet Buckle : RB3530  
End Fitting : WH3530  
Webbing : RIBBONS No. 5986



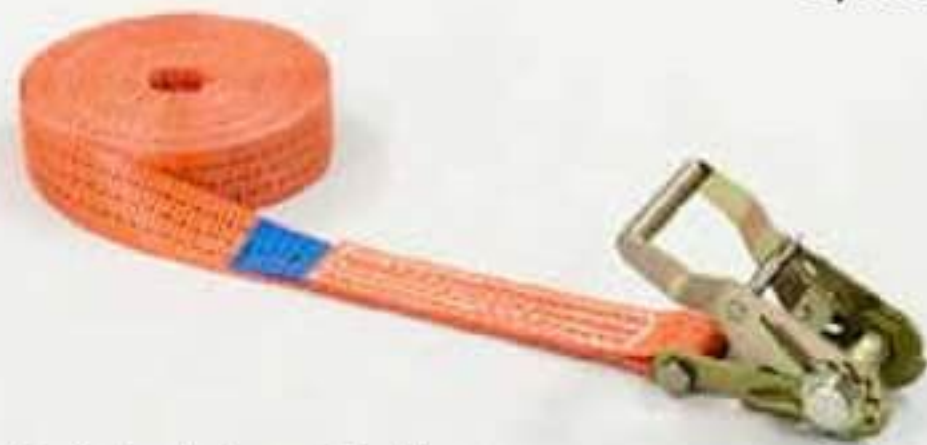
**LSL3520P**  
B/S 2000 kgs.

**35 mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB3520P  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 6044



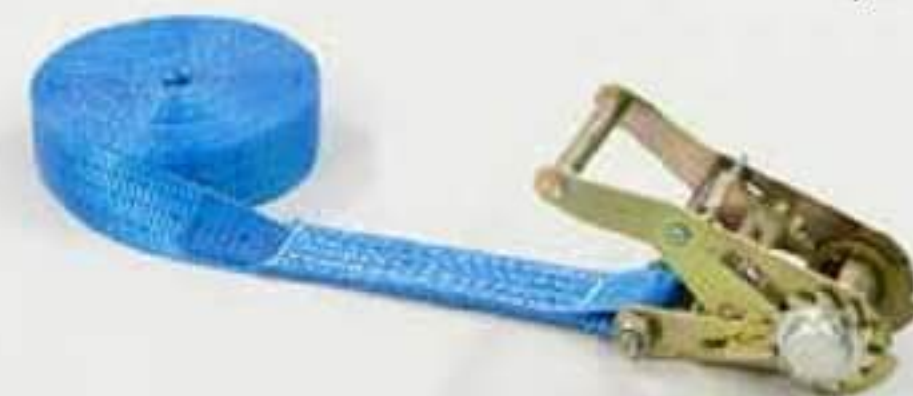
**LSL3530**  
B/S 3000 kgs.

**35 mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB3530  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 5986



**LSE3520P**  
B/S 2000 kgs.

**35 mm. Ratchet strap Endless**  
Ratchet Buckle : RB3520P  
End Fitting : Endless  
Webbing : RIBBONS No. 6044



**LSE3530**  
B/S 3000 kgs.

**35 mm. Ratchet strap Endless**  
Ratchet Buckle : RB3530  
End Fitting : Endless  
Webbing : RIBBONS No. 5986



**MERTRA®**

**LOC4810**

*Lashing system with over center buckle are  
manufactured and tested according  
to international standards.*



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### 25 mm. 1000 kgs., 1500 kgs., Ratchet strap

#### MERTRA®

##### LS2510

Ratchet strap with hook are manufactured and tested according to international standards.



#### FEATURE :

- MERTRA Lashing system with high tenacity polyester and high quality metal component.
- Ratchet strap with hook (end fitting) and Ratchet strap endless.
- Breaking strength (B/S) 1,000 kgs., 1,500 kgs., Length 1-20 Mtr.
- Available Webbing Color :

#### LSW2510 B/S 1000 kgs.



**25 mm. Ratchet strap with Hook**  
Ratchet Buckle : RB2510B  
End Fitting : WH2515  
Webbing : RIBBONS No. 6666

#### LSS2510 B/S 1000 kgs.



**25 mm. Ratchet strap with S-Hook**  
Ratchet Buckle : RB2510B  
End Fitting : SH2509  
Webbing : RIBBONS No. 6666

#### LSL2510 B/S 1000 kgs.



**25 mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB2510B  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 6666

#### LSE2510 B/S 1000 kgs.



**25 mm. Ratchet strap Endless**  
Ratchet Buckle : RB2510B  
End Fitting : Endless  
Webbing : RIBBONS No. 6666



**LSW2515P**  
B/S 1500 kgs.



**25 mm. Ratchet strap with Hook**  
Ratchet Buckle : RB2515P  
End Fitting : WH2515  
Webbing : RIBBONS No. 1500T

**LSS2515P**  
B/S 1500 kgs.



**25 mm. Ratchet strap with S-Hook**  
Ratchet Buckle : RB2515P  
End Fitting : SH2511  
Webbing : RIBBONS No. 1500T

**LSL2515P**  
B/S 1500 kgs.



**25mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB2515P  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 1500T

**LSE2515P**  
B/S 1500 kgs.



**25 mm. Ratchet strap Endless**  
Ratchet Buckle : RB2515P  
End Fitting : Endless  
Webbing : RIBBONS No. 1500T

**LSW2515**  
B/S 1500 kgs.



**25 mm. Ratchet strap with Hook**  
Ratchet Buckle : RB2515  
End Fitting : WH2515  
Webbing : RIBBONS No. 1500T

**LSS2515**  
B/S 1500 kgs.



**25 mm. Ratchet strap with S-Hook**  
Ratchet Buckle : RB2515  
End Fitting : SH2511  
Webbing : RIBBONS No. 1500T

**LSL2515**  
B/S 1500 kgs.



**25 mm. Ratchet strap with Loop Eyes**  
Ratchet Buckle : RB2515  
End Fitting : Loop Eyes  
Webbing : RIBBONS No. 1500T

**LSE2515**  
B/S 1500 kgs.



**25 mm. Ratchet strap Endless**  
Ratchet Buckle : RB2515  
End Fitting : Endless  
Webbing : RIBBONS No. 1500T



HIGH TENACITY POLYESTER FOR BETTER LIFTING

## 25 mm. 250-1200 kgs., Tie Down Strap

**MERTRA®**

**LS2545C**

Tie down strap with hook are manufactured and tested according to international standards.



**FEATURE :**

- MERTRA Lashing system with high tenacity polyester and high quality metal component.
- Tie down strap with hook (end fitting) and Tie down strap endless.
- Breaking strength (B/S) 250 kgs.- 1,200 kgs., Length 1-20 Mtr.



**LSE2545C**  
B/S 450 kgs.

**25 mm. Strap Endless**  
Cam Buckle : CB2505A  
End Fitting : Endless  
Webbing : RIBBONS No. 1000T

**SPECIFICATIONS :**

- Lashing webbing are produced from controlled 100% high tenacity polyester yarns.
- Metal components are selected to suit lashing webbing and meet international standard.
- Certified standard DIN V 61360 show at blue label.
- Webbing width 25mm., 35mm., 50mm.
- Standard J-Hook, other end fitting on request.
- Length according to requirement.
- Light weight and easy to operate.
- Low elongation.
- Available Webbing Color :



**LSW2545C**  
B/S 450 kgs.

**25 mm. Strap with Hook**  
Cam Buckle : CB2505A  
End Fitting : WH2515  
Webbing : RIBBONS No. 1000T



**LSS2545C**  
B/S 450 kgs.

**25mm. Strap with S-Hook**  
Cam Buckle : CB2505A  
End Fitting : SH2509  
Webbing : RIBBONS No. 1000T



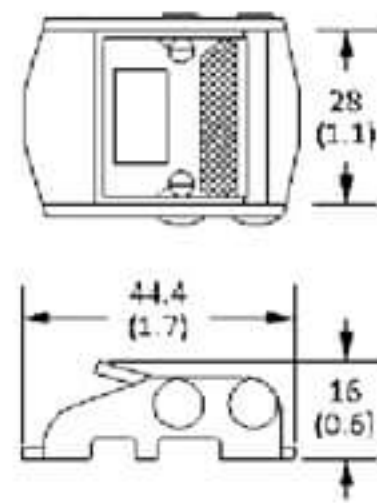
02-9630900-2  
081-815-1345



SRM.SLING@HOTMAIL.COM  
HTTP://SRMSLING.COM

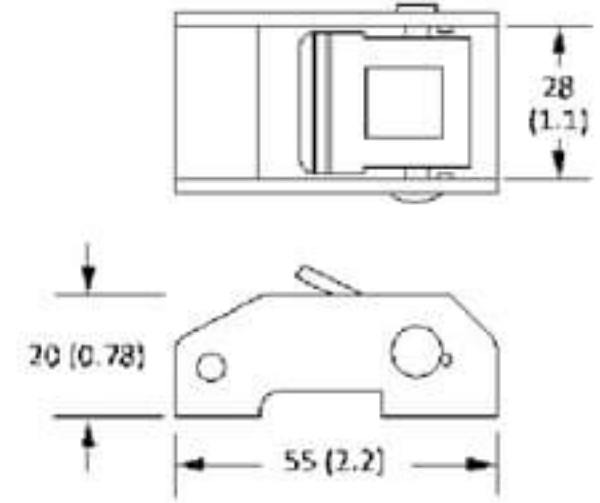


39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI 1120, THAILAND



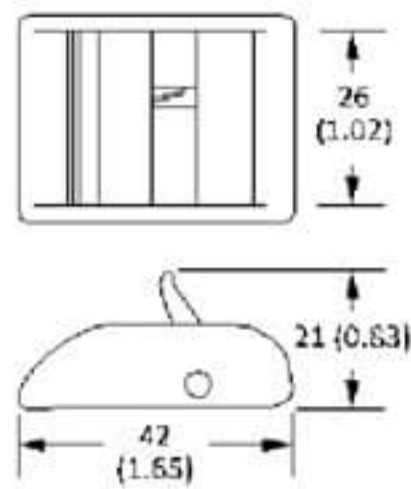
**CB2503S**

**25 mm. Steel Cam Buckle**  
Light Duty  
B/S : 250 kgs/550 lbs



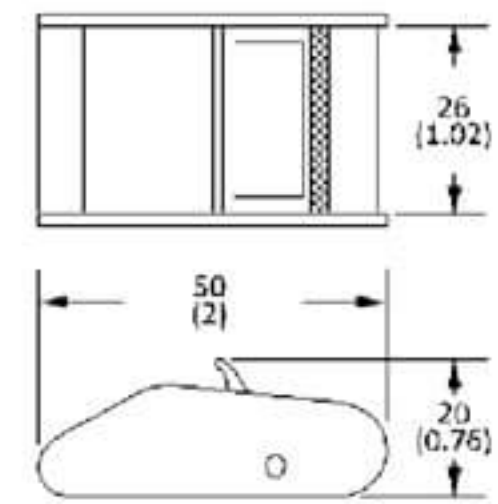
**CB2506S**

**25 mm. Steel Cam Buckle**  
Heavy Duty  
B/S : 600 kgs/1,320 lbs



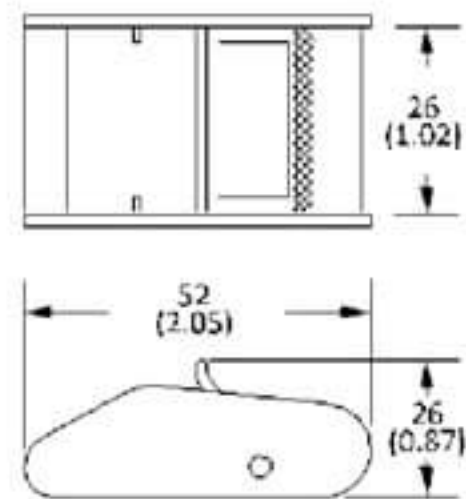
**CB2504**

**25 mm. Cam Buckle**  
Light Duty  
B/S : 350 kgs/770 lbs



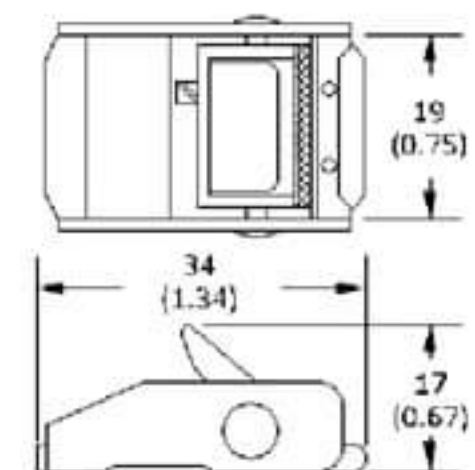
**CB2505**

**25 mm. Cam Buckle**  
Heavy Duty  
B/S : 500 kgs/1,100 lbs



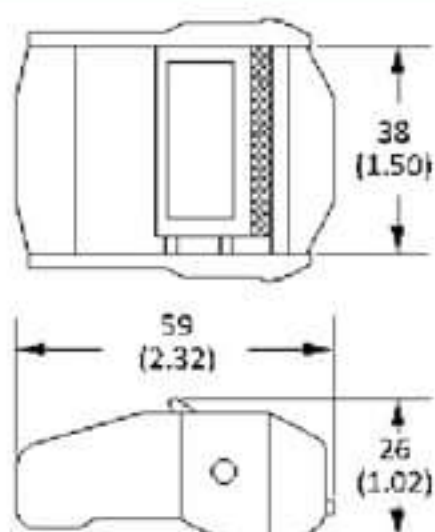
**CB2505A**

**25 mm. Cam Buckle**  
Heavy Duty  
B/S : 450 kgs/990 lbs



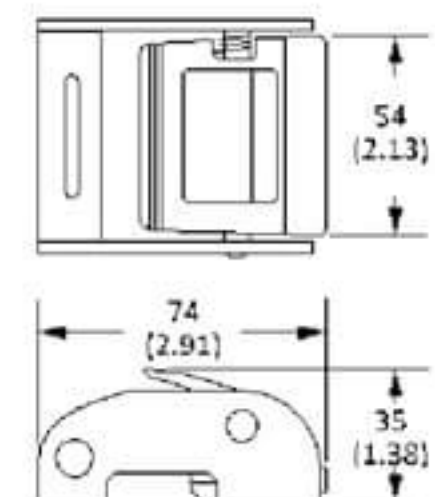
**CB2010**

**20 mm. Cam Buckle**  
Light Duty  
B/S : 100 kgs/220 lbs



**CB3507**

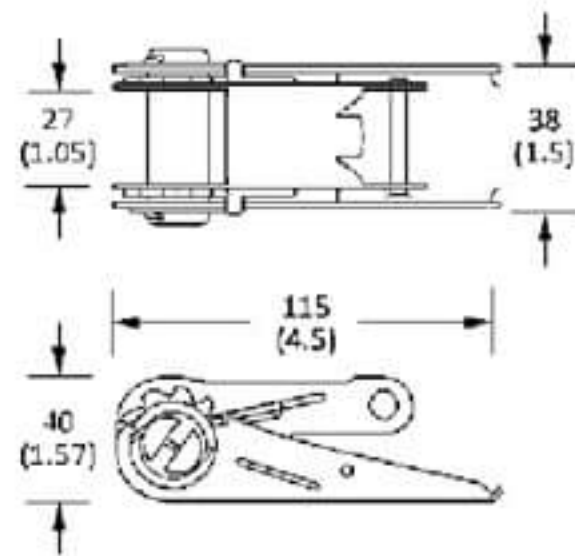
**35 mm. Cam Buckle**  
Heavy Duty  
B/S : 700 kgs/1,540 lbs



**CB2512**

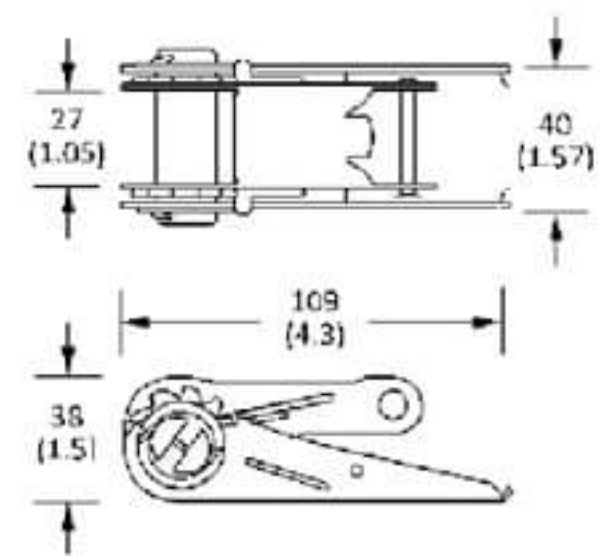
**50 mm. Cam Buckle**  
Heavy Duty  
B/S : 1,135 kgs/2,500 lbs





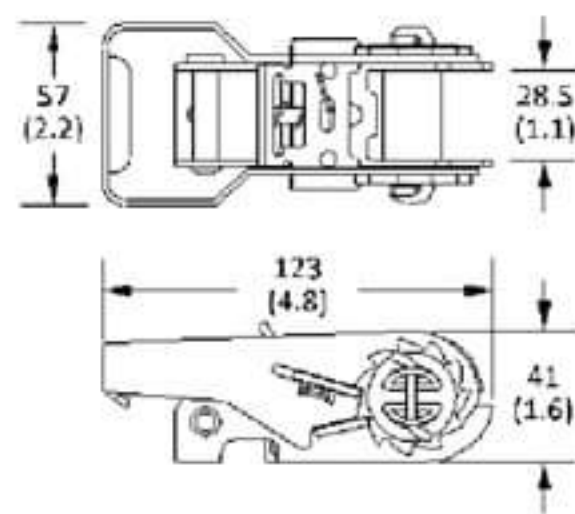
**RB2510**

**25 mm. Ratchet Buckle**  
Light Duty  
B/S : 900 kgs/1,980 lbs



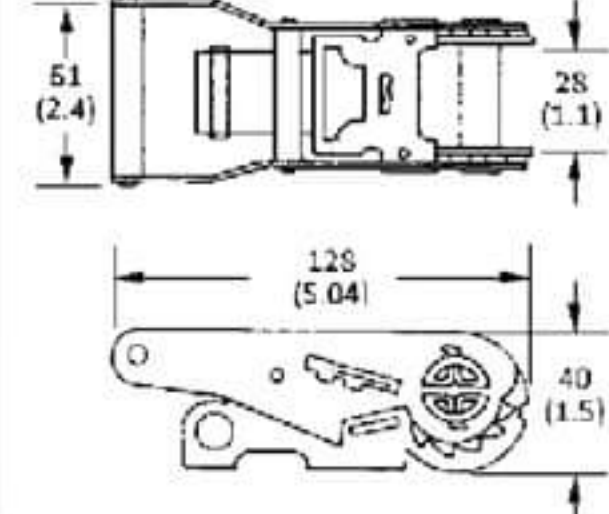
**RB2510B**

**25 mm. Ratchet Buckle**  
Light Duty, Black Epoxy Coated  
B/S : 900 kgs/1,980 lbs



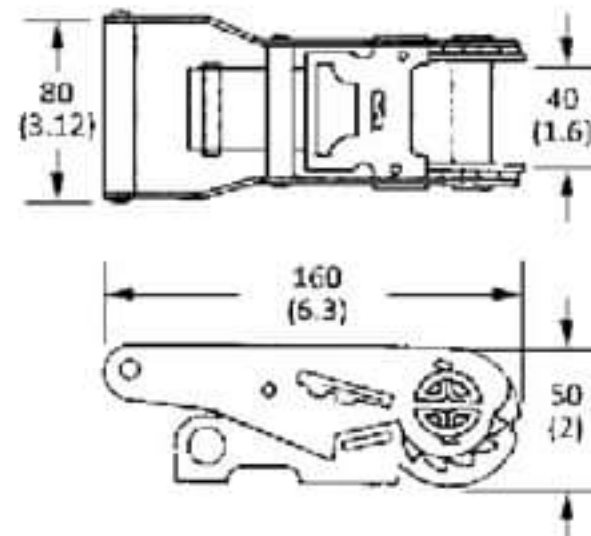
**RB2515P**

**25 mm. Ratchet Buckle**  
One Piece Wide Handle, Easy Release  
B/S : 1,500 kgs/3,300 lbs



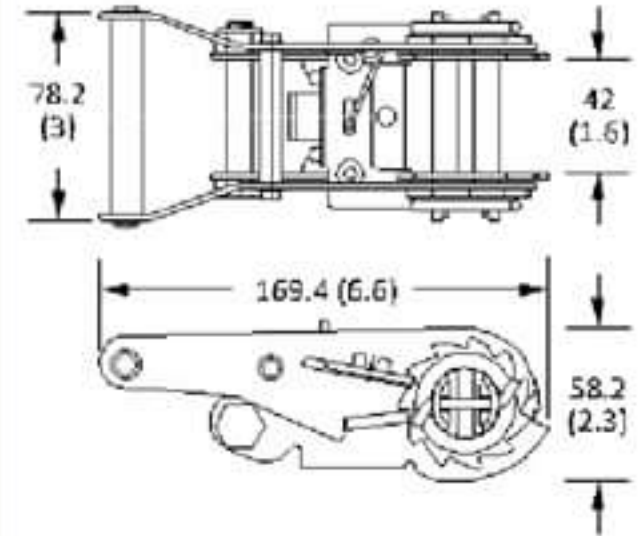
**RB2515**

**25 mm. Ratchet Buckle**  
Wide Handle  
B/S : 1,500 kgs/3,300 lbs



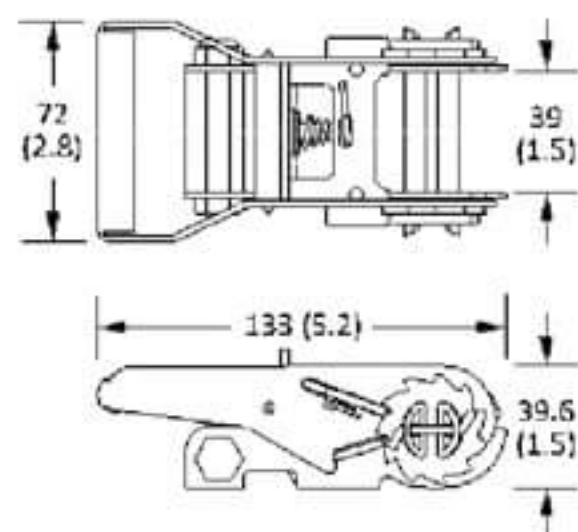
**RB3530BH**

**35 mm. Ratchet Buckle**  
Plastic Black Handle  
B/S : 3,000 kgs/6,600 lbs



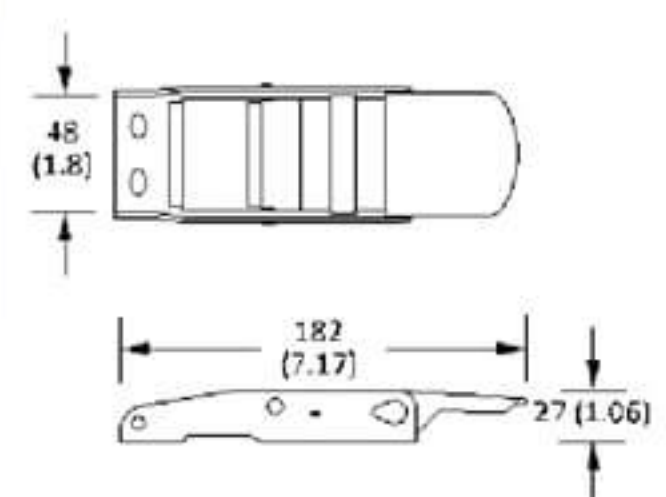
**RB3530**

**35 mm. Ratchet Buckle**  
Wide Handle, Easy Release, Heavy Duty  
B/S : 3,000 kgs/6,600 lbs



**RB3520P**

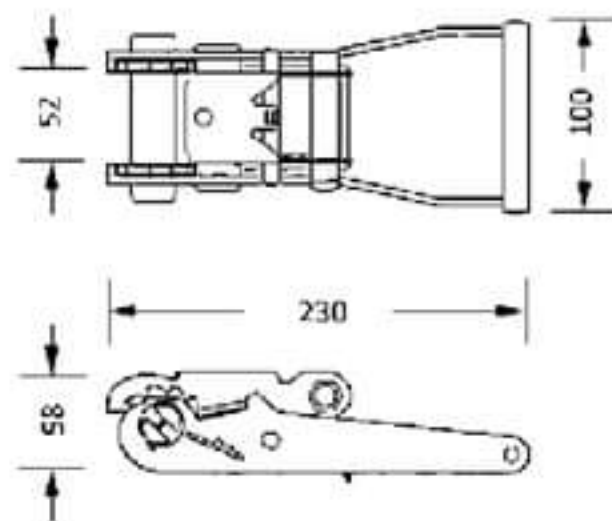
**35 mm. Ratchet Buckle**  
One Piece Wide Handle, Easy Release, Light Duty  
B/S : 2,000 kgs/4,400 lbs



**OCB4810**

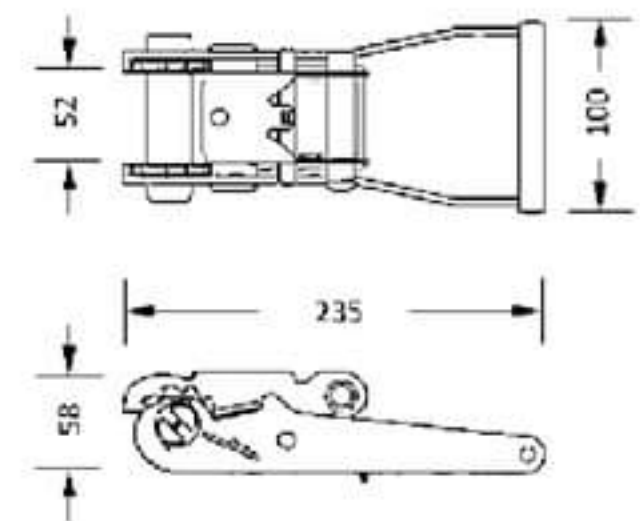
**48 mm. Overcenter Buckle**  
B/S : 800 kgs/1,760 lbs  
OCB4810S in Stainless Steel





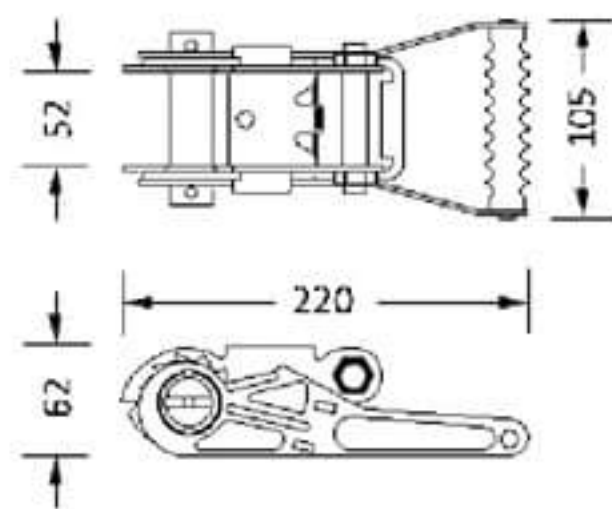
**RB5050BH**

**50 mm. Ratchet Buckle**  
Black Wide Handle, Double Security Lock  
B/S : 5,000 kgs/11,000 lbs



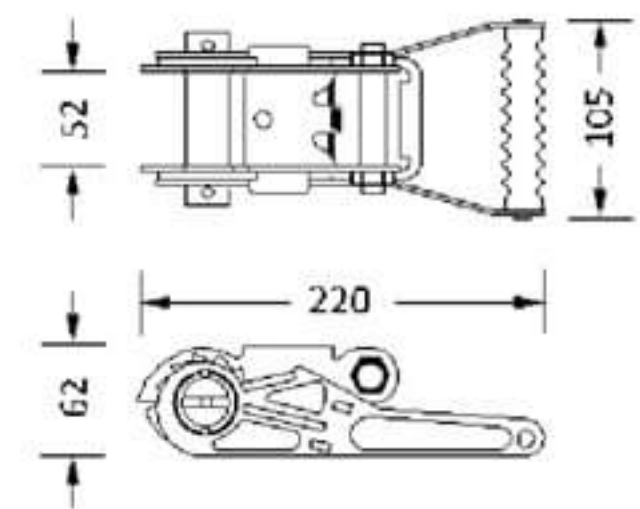
**RB5050**

**50 mm. Ratchet Buckle**  
Wide Handle, Double Security Lock  
B/S : 5,000 kgs/11,000 lbs



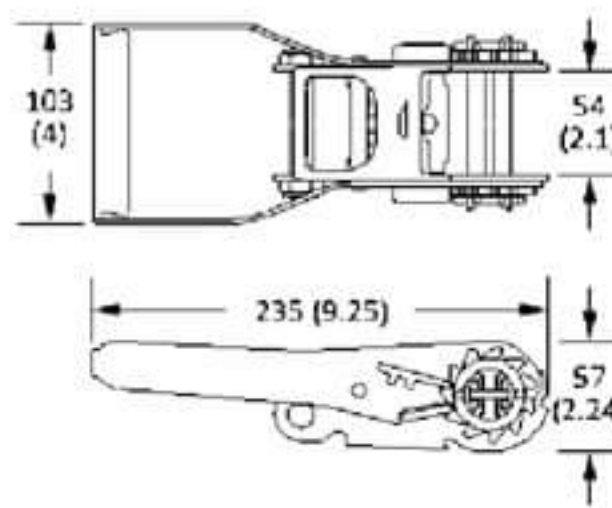
**RB5060M**

**50 mm. Ratchet Buckle, Heavy Duty**  
NATO BUCKLE, Double Security Lock  
Military Green Epoxy Coated  
B/S : 6,000 kgs/13,200 lbs



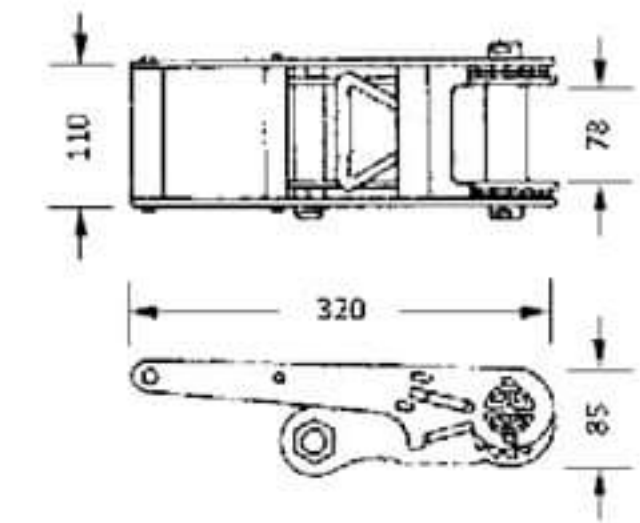
**RB5060B**

**50 mm. Ratchet Buckle, Heavy Duty**  
Black Epoxy Coated, Double Security Lock  
B/S : 6,000 kgs/13,200 lbs



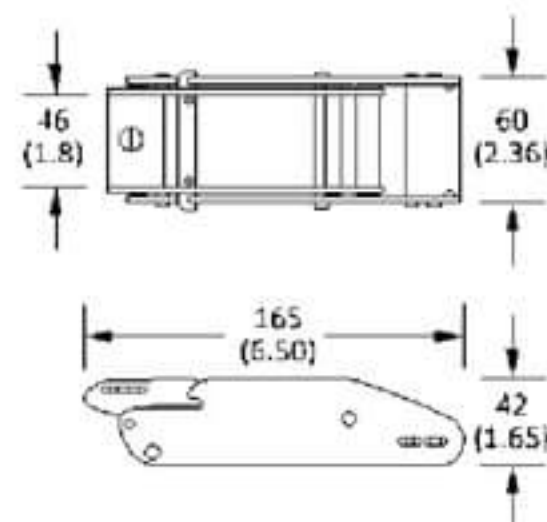
**RB5060P**

**50 mm. Ratchet Buckle, Heavy Duty**  
One Piece Long Wide Handle, Easy Release  
Double Security Lock  
B/S : 6,000 kgs/13,200 lbs



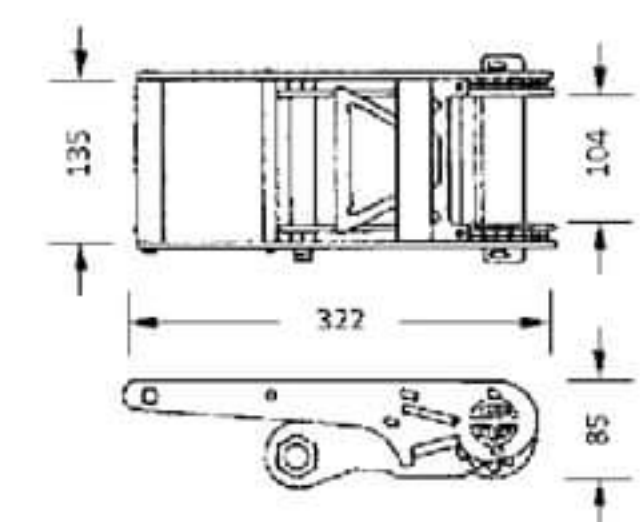
**RB7510**

**75 mm. Ratchet Buckle, Heavy Duty**  
Long Handle, Double Security Lock  
B/S : 10,000 kgs/22,000 lbs



**OCB4820**

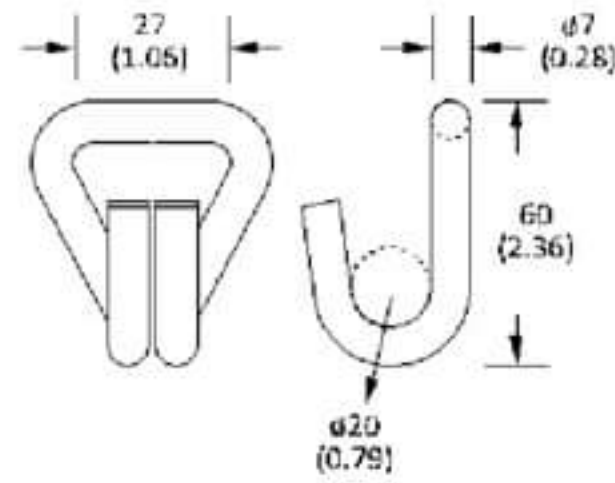
**48 mm. Overcenter Buckle**  
B/S : 2,270 kgs/5,000 lbs



**RB10012**

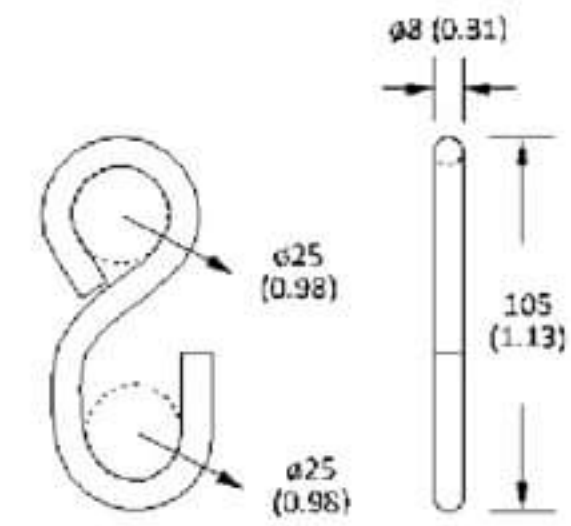
**100 mm. Ratchet Buckle, Heavy Duty**  
Long Handle, Double Security Lock  
B/S : 12,000 kgs/26,400 lbs





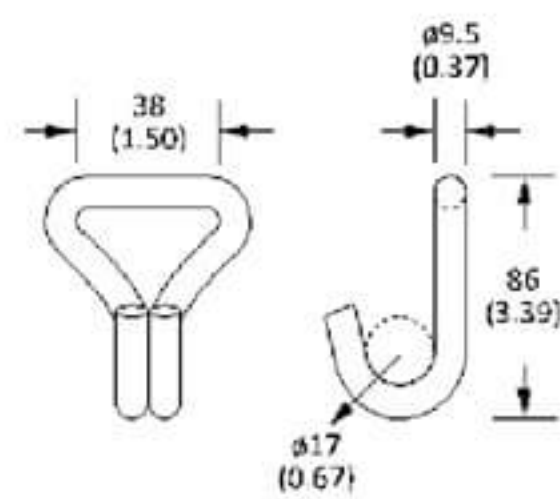
**WH2515**

**25 mm. Double J Hook**  
B/S : 1,360 kgs/3,000 lbs



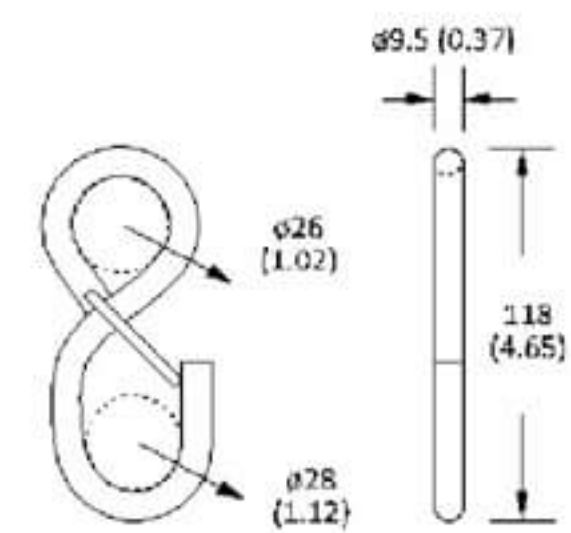
**SH2509**

**25 mm. S Hook**  
Black PVC Coated  
B/S : 900 kgs/2,000 lbs



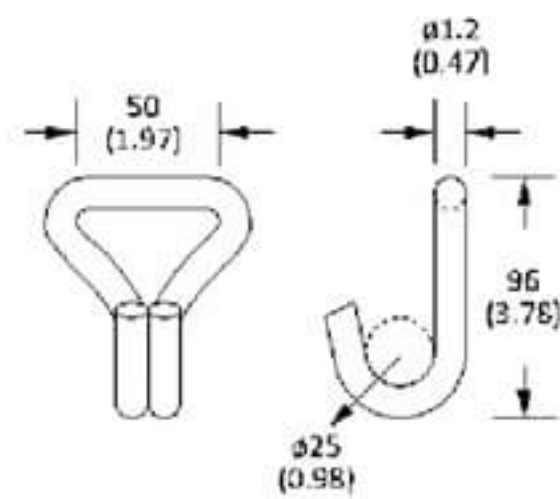
**WH3530**

**35 mm. Double J Hook**  
B/S : 3,000 kgs/6,600 lbs



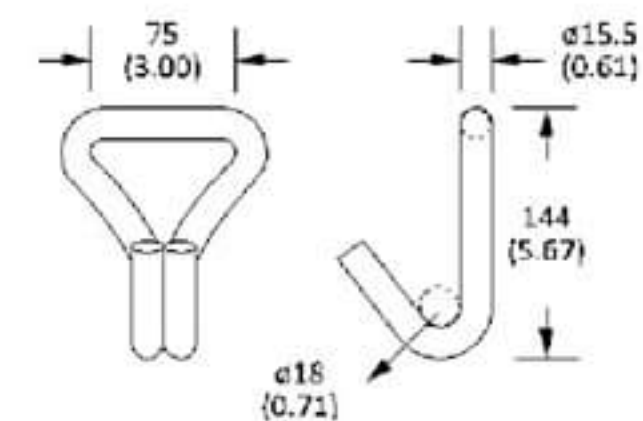
**SH2511**

**25 mm. S Hook with Safety Latch**  
Black PVC Coated  
B/S : 1,100 kgs/2,420 lbs



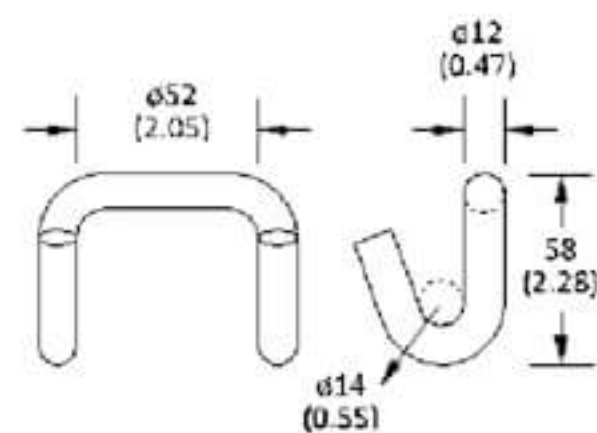
**WH5050**

**50 mm. Double J Hook**  
B/S : 5,000 kgs/11,000 lbs



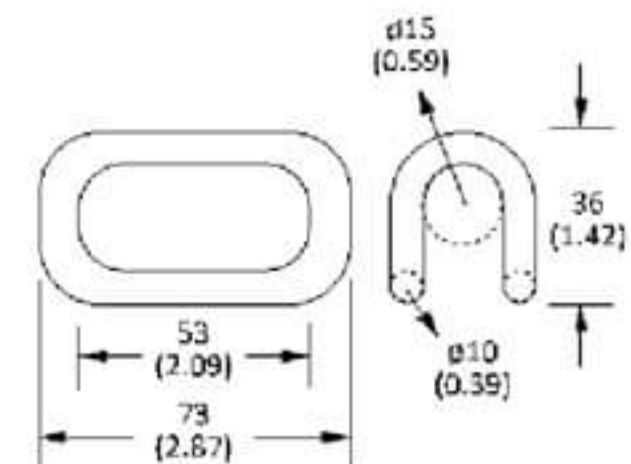
**WH7510**

**75 mm. Double J Hook**  
B/S : 10,000 kgs/22,000 lbs



**CH5050**

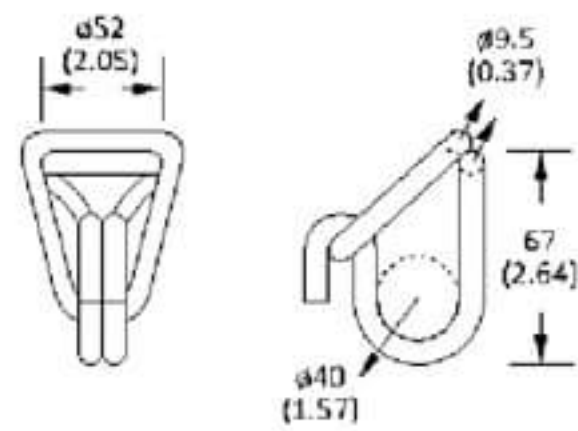
**50 mm. Claw Hook**  
B/S : 5,000 kgs/11,000 lbs



**RH5015**

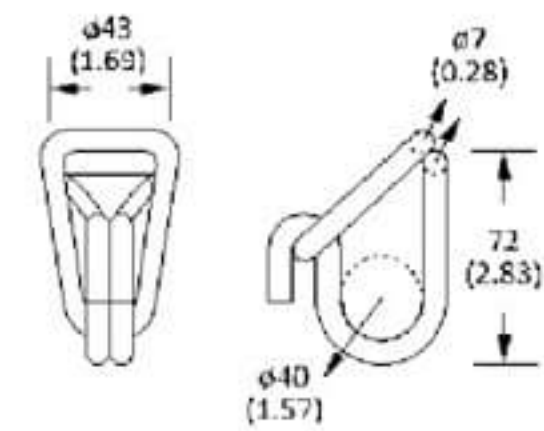
**50 mm. Close Rave Hook**  
B/S : 1,500 kgs/3,300 lbs





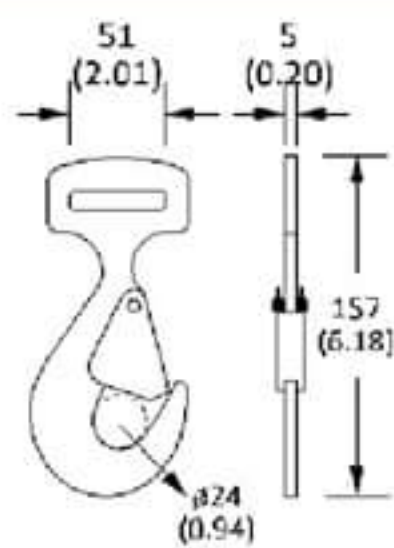
**KH5050**

**50 mm. Hook & Keeper**  
B/S : 5,000 kgs/11,000 lbs



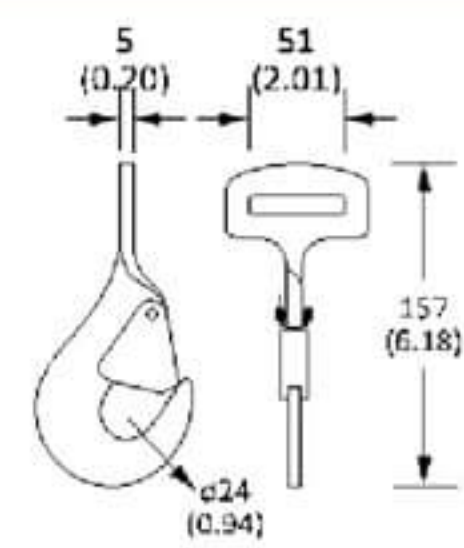
**KH3530**

**35 mm. Hook & Keeper**  
B/S : 3,000 kgs/6,600 lbs



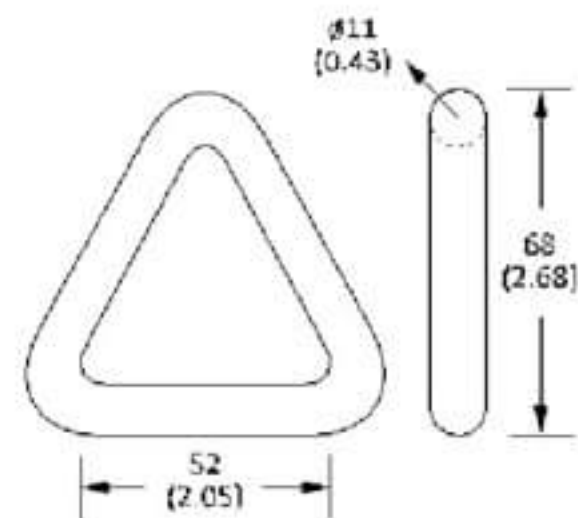
**SF5050**

**50 mm. Flat Snap Hook**  
B/S : 5,000 kgs/11,000 lbs



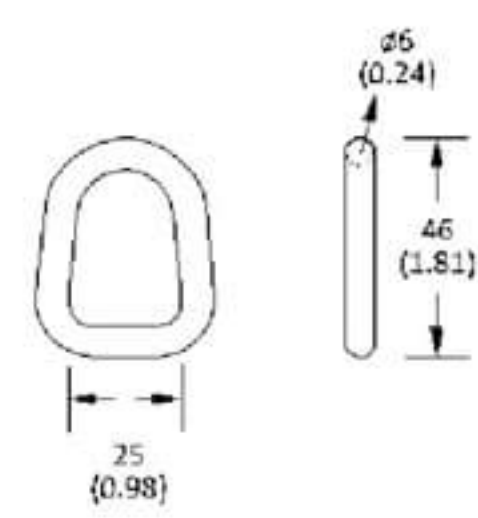
**ST5050**

**50 mm. Twisted Snap Hook**  
B/S : 5,000 kgs/11,000 lbs



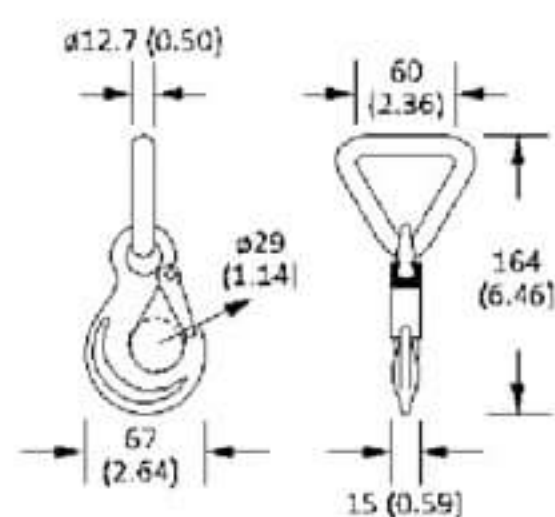
**DH5050**

**50 mm. D-Ring**  
B/S : 5,000 kgs/11,000 lbs



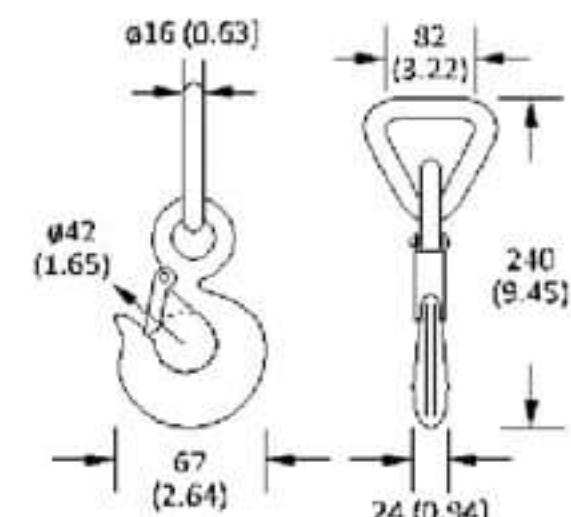
**DH2508**

**25 mm. D-Ring**  
B/S : 800 kgs/1,760 lbs



**TH5050**

**50 mm. Hook with D-Ring**  
B/S : 5,000 kgs/11,000 lbs



**TH7510**

**75 mm. Hook with D-Ring**  
B/S : 10,000 kgs/22,000 lbs

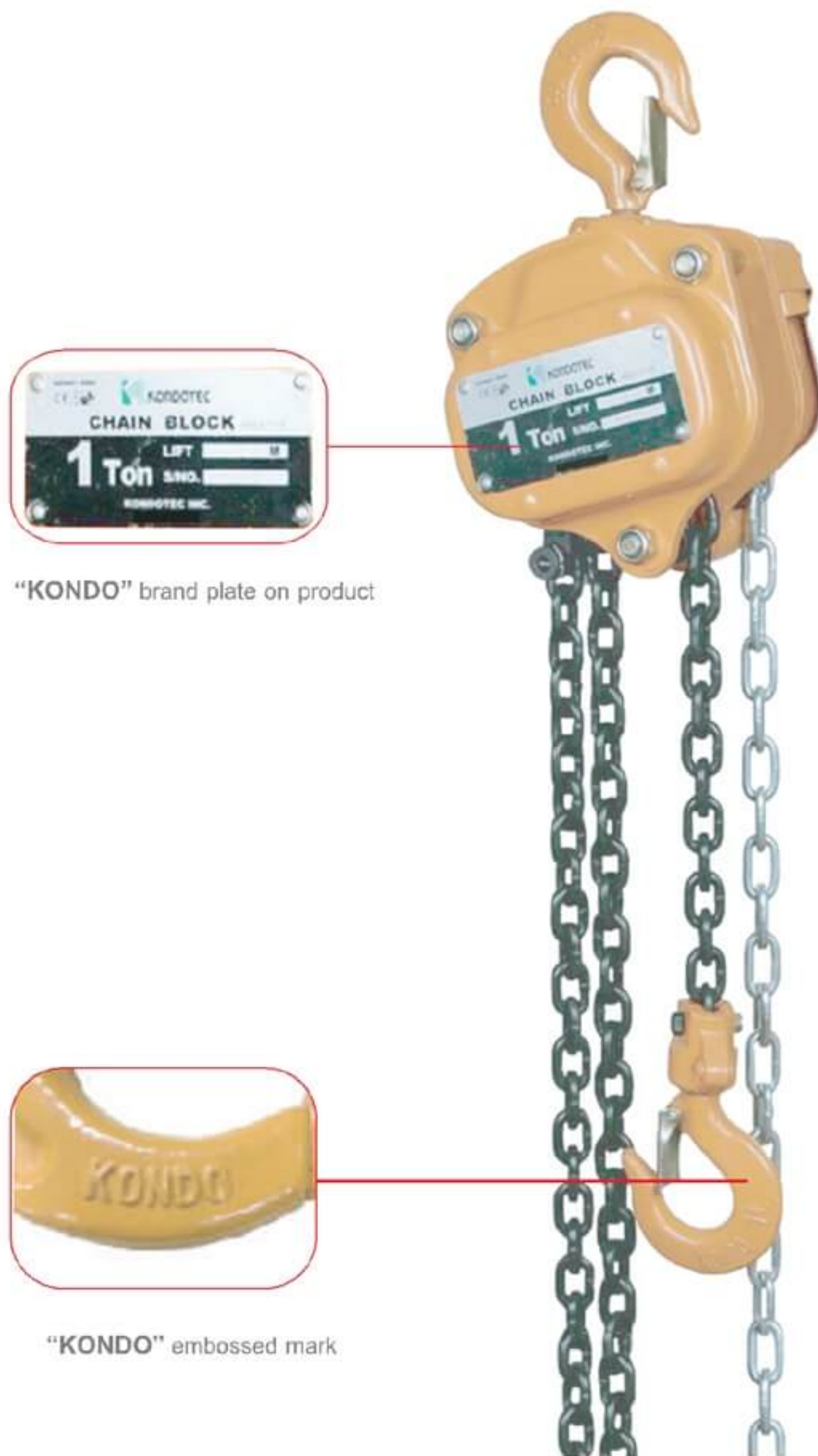


# CHAIN BLOCK



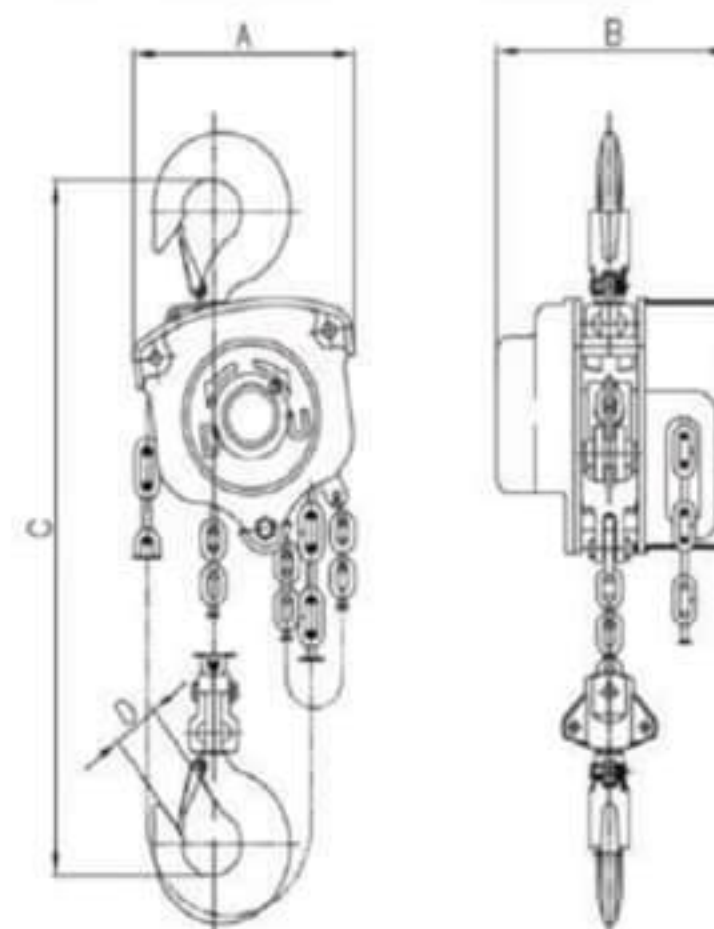
## KT-C CHAIN BLOCK

		SPECIFICATION									
Rated load (T)		0.50	1.0	1.50	2.0	3.0	5.0	10.0	15.00	20.0	30.0
Test load (T)		0.75	1.5	2.25	3.0	4.5	7.5	12.5	18.75	25.0	37.5
Standard lift (m)		2.50	2.5	2.50	2.5	3.0	3.0	3.0	3.00	3.0	3.0
Efforts required at capacity (N)		262.00	324.0	395.00	330.0	402.0	430.0	438.0	447.00	438.0	442.0
Diameter of load chain (mm)		5.00	6.0	7.10	6.0(8.0)	7.1	10.0	10.0	10.00	10.0	10.0
No. of load chain		1.00	1.0	1.00	2.0(1.0)	2.0	2.0	4.0	6.00	8.0	10.0
Dimensions (mm)	A	127.00	156.0	180.00	156.0	180.0	230.0	410.0	410.00	645.0	710.0
	B	115.00	131.0	142.00	131.0	142.0	171.0	171.0	204.00	215.0	398.0
	C	288.00	334.0	415.00	459.0	536.0	660.0	738.0	1028.00	1002.0	1050.0
	D	23.00	24.0	36.00	34.0	35.0	47.0	61.0	81.60	81.60	81.6
Weight (kg)		7.00	10.5	15.50	16.0	23.0	39.0	69.0	95.00	155.0	237.0
Extra weight per meter of extra lift (kg)		1.50	1.8	2.00	2.7	3.2	5.3	9.8	14.20	19.6	23.9

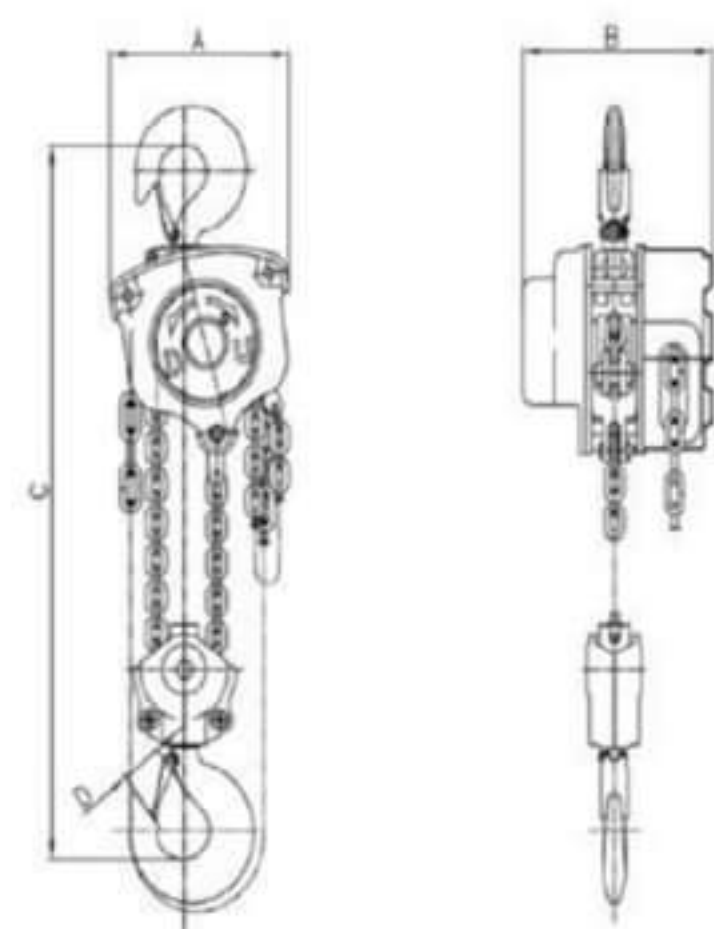


"KONDO" brand plate on product

"KONDO" embossed mark



KT-C Chain Block  
(Single Chain)



KT-C Chain Block  
(Double Chain)

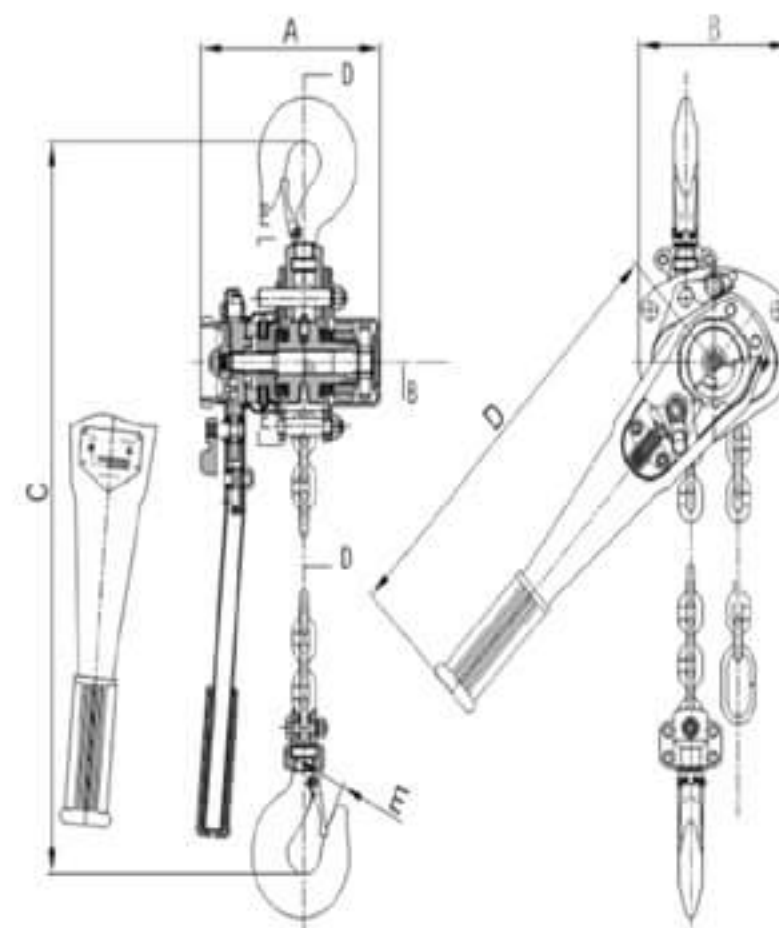


# LEVER BLOCK



## KT-L LEVER BLOCK

		SPECIFICATION								
Rated load (T)		0.250	0.50	0.750	1.0	1.50	2.0	3.0	6.0	9.0
Test load (T)		0.375	0.75	1.125	1.5	2.25	3.0	4.5	9.0	13.5
Standard lift (m)		1.000	1.50	1.500	1.5	1.50	1.5	1.5	1.5	1.5
Min. distance between two hooks (t)		205.000	260.00	295.000	295.0	335.000	385.0	450.0	615.0	720.0
Efforts required at capacity (N)		217.000	303.00	140.000	185.0	234.00	251.0	363.0	370.0	375.0
Diameter of load chain (mm)		4.000	5.00	6.000	6.0	7.10	8.0	9.0	9.0	10.0
No. of load chain		1.000	1.00	1.00	1.0	1.0	1.0	1.0	2.0	3.0
Dimensions (mm)	A	92.000	110.00	152.000	152.0	175.00	175.0	195.0	195.0	195.0
	B	75.000	82.00	128.000	128.0	148.00	160.0	181.0	232.0	366.0
	C	205.000	260.00	295.000	295.0	335.00	385.0	450.0	615.0	720.0
	D	153.000	261.00	256.000	256.0	368.00	368.0	368.0	368.0	368.0
	E	17.000	23.00	24.000	24.0	36.00	34.0	35.0	47.0	61.0
Weight (kg)		1.850	4.60	7.700	8.0	10.60	14.8	20.0	28.0	46.0



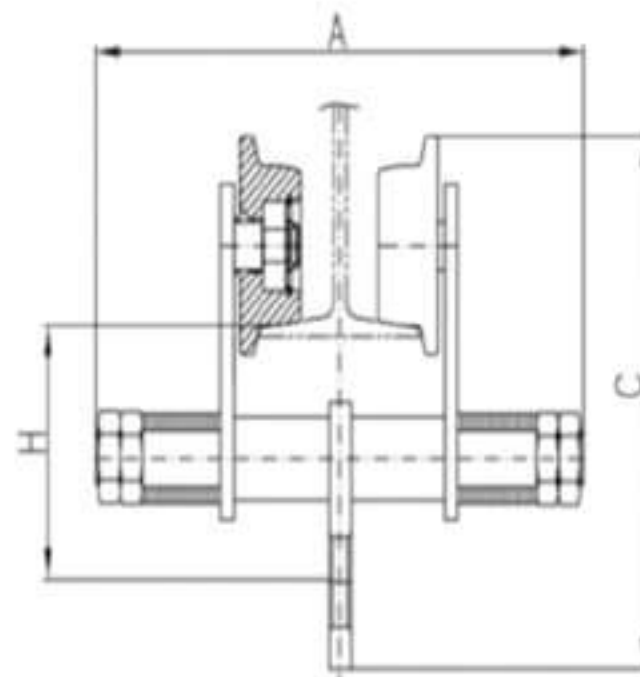
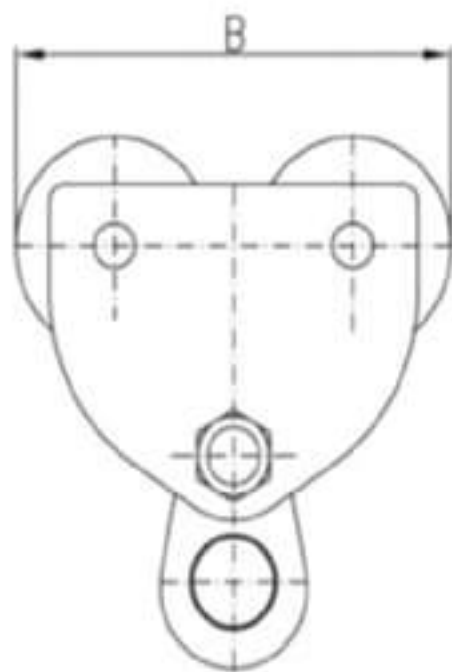
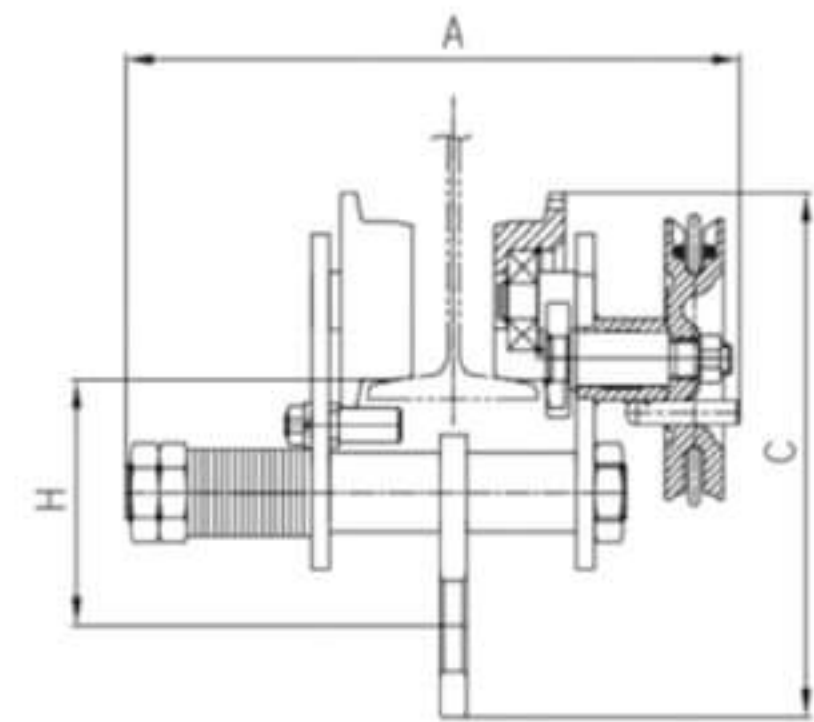
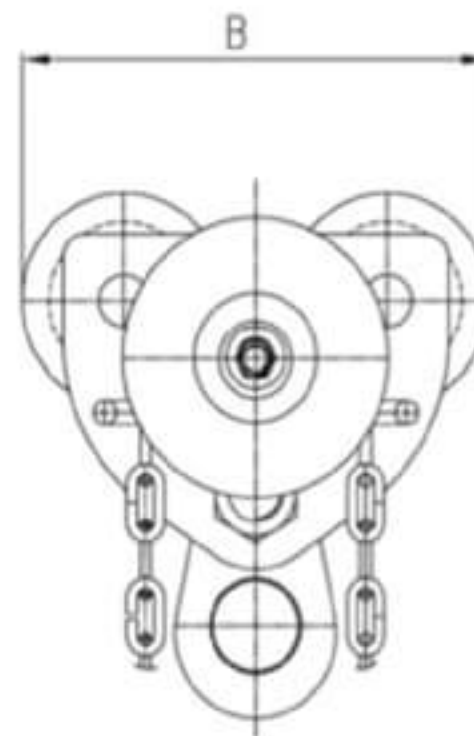
# MANUAL TROLLEY



## KT-GT SERIES GEARED TROLLEY (GCL610)



Rated load (t)	Test load (t)	Dimensions (mm)				I-Beam recommended	Weight (kg)
		A	B	C	H		
0.5	0.75	271	172	190	108.5	75-125	9.0
1.0	1.50	271	206	222	122	75-125	12.6
1.5	2.25	308	231	238.5	130	100-150	15.9
2.0	3.00	308	240	267	132.5	100-150	17.0
3.0	4.50	342	279	319	181	100-150	25.0
5.0	7.50	384	318	384	219	125-175	50.0
10.0	15.00	442	380	490	275	125-180	100.0



## KT-PT SERIES PLAIN TROLLEY (GCT610)

Rated load (t)	Test load (t)	Dimensions (mm)				I-Beam recommended	Weight (kg)
		A	B	C	H		
0.5	0.75	208	172	190.0	108.5	75-125	3.3
1.0	1.50	220	206	222.0	122.0	75-125	7.9
1.5	2.25	260	231	238.5	130.0	100-150	12.0
2.0	3.00	260	240	267.0	132.5	100-150	13.2
3.0	4.50	285	279	319.0	181.0	100-150	23.0
5.0	7.50	338	318	384.0	219.0	125-175	44.0
10.0	15.00	362	380	490.0	275.0	125-180	88.0



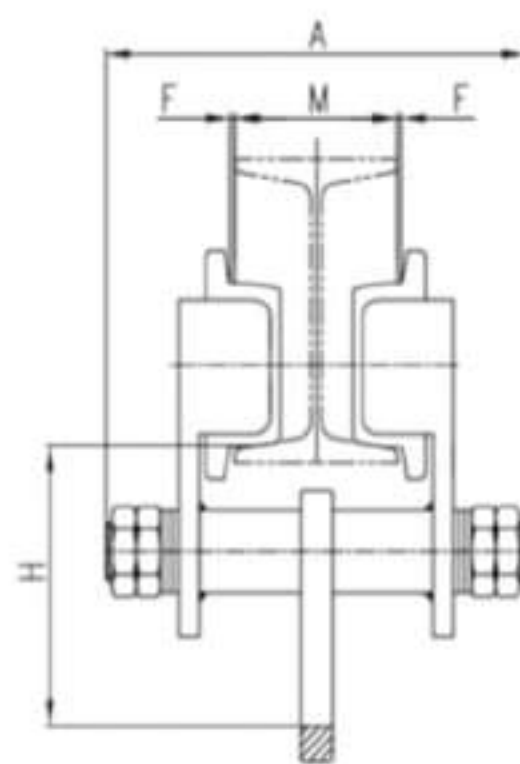
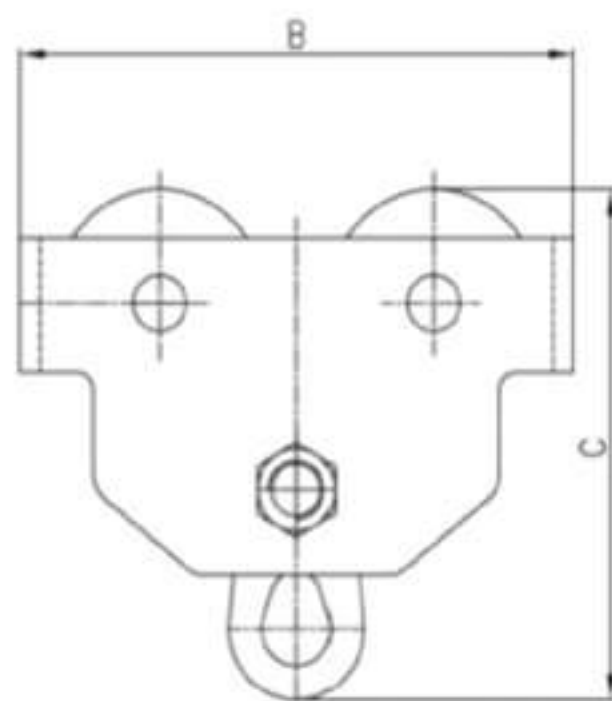
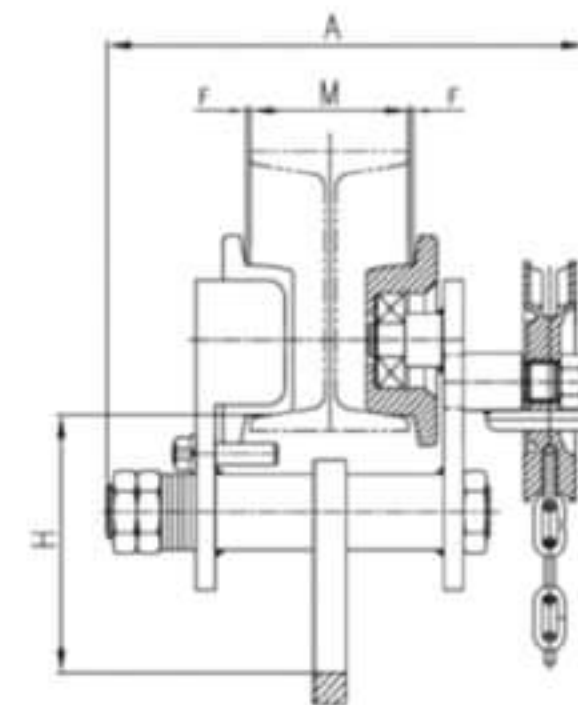
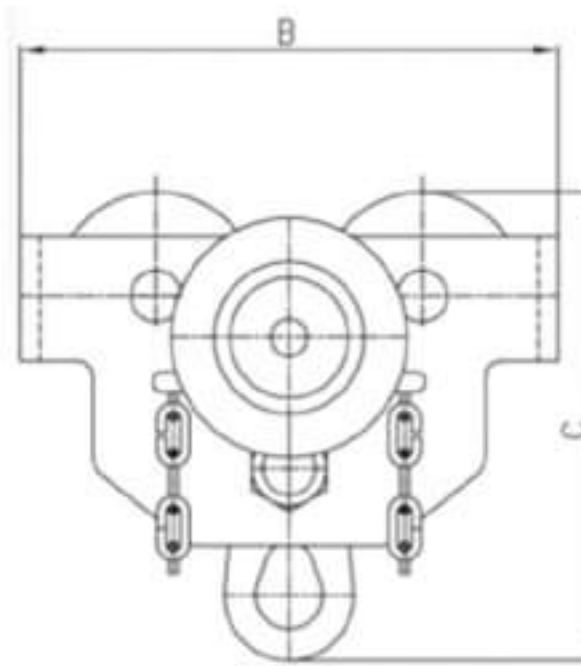
# MANUAL TROLLEY



## KT-G TYPE GEARED TROLLEY (TG) / with ANTI-COLLISION



Rated load (t)	Test load (t)	Chain pull to lift full load (N)	Dimensions (mm)				I-Beam recommended	Weight (kg)
			A	B	C	H		
0.5	0.75	60	248	196	190	108	68-126	9
1.0	1.50	80	280	236	211	115	80-146	14
2.0	3.00	140	318	273	236	130	80-168	16
3.0	4.50	150	340	320	295	164	88-168	27
5.0	7.50	170	365	366	334	177	100-170	50
10.0	15.00	320	410	389	460	237	122-203	93
20.0	30.00	340	475	798	575	300	122-203	215
30.0	37.50	352	392	625	551	260	150-180	230



## KT-P TYPE PLAIN TROLLEY (TP) / with ANTI-COLLISION

Rated load (t)	Test load (t)	Dimensions (mm)				I-Beam recommended	Weight (kg)
		A	B	C	H		
0.5	0.75	208	196	190	108	68-126	5.5
1.0	1.50	242	236	211	115	80-146	9.5
2.0	3.00	280	273	236	130	80-168	13.5
3.0	4.50	300	320	295	164	88-168	25.0
5.0	7.50	316	366	334	177	100-170	44.0
10.0	15.00	343	389	460	237	122-203	90.0





Professional cranes & hoists for lifting



# Electric Chain Hoist



SIRIMONGKOL CORPORATION CO., LTD.



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081-815-1345



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### Motor Housing

- Aluminum alloy casting, features rigid structure and light weight.
- Motor framed with radiant cooling fins, permits 40% (dual speed 40/20%, YSF-series 15%) duty cycle.

### Motor Brake

- "Electro-Magnetic Brake Controller" - a unique design in its field, R.O.C. Patent No.27417 features simultaneous braking upon release of P.B. even under full load.

### Limit Switch

- Fitted at both top and bottom ends, shuts off power automatically to prevent load chain from running out.

### Load Chain

- Grade 80 case hardened alloy steel chain.

### Hook

- Hot forged high tensile steel, rigid and durable, 360° swivel, fitting with safety latch to assure safe lifting.



### Hoist Bracket

- Double high-tensile alloy steel plate bracket, features rugged and durable construction.

### Mechanical Brake

- Advanced design, assures secure braking even under overload. In conjunction with motor brake, features "DOUBLE BRAKE SYSTEM" for safety and durability in hoist operation.

### Transformer

- Power to pendant control reduced to 24V or 48V for safer operation.

### Magnetic Contactor

- High performance non-fuse circuit breakers allow frequent trouble cycling with free operation.

### Phase Error Relay

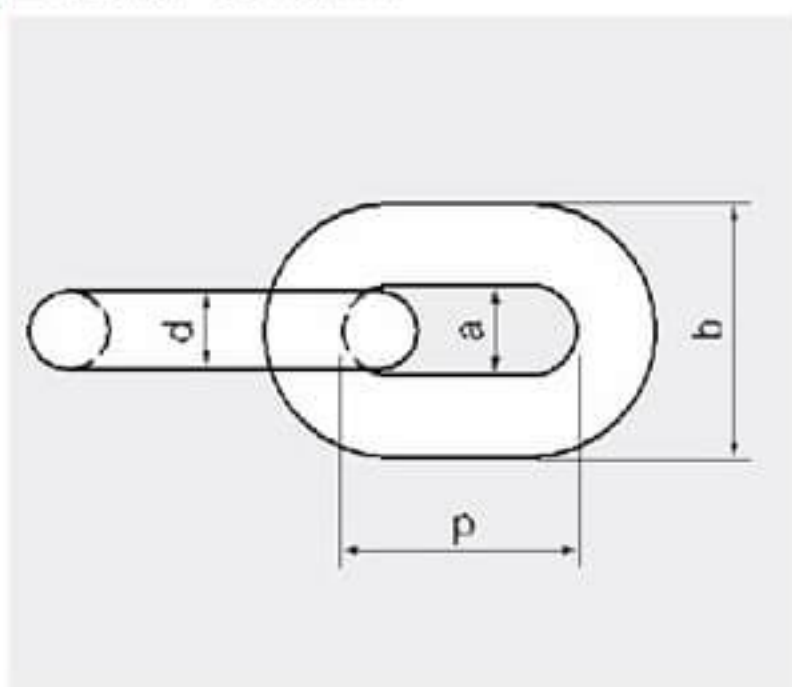
- A specially designed electric board prevents motor from running at it reverse phased.

### Push Button Pendant

- Offers light and durable switching controls.

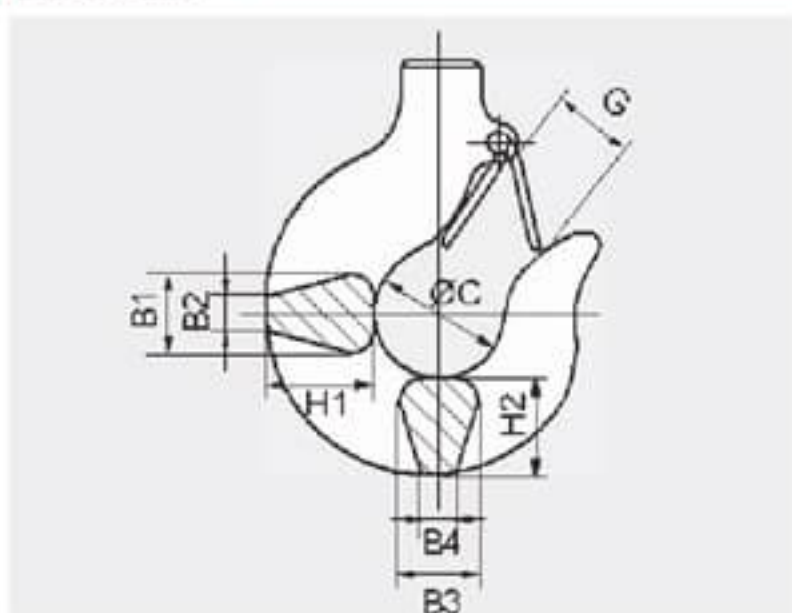
※ For special applications, please contact our company representative or authorized distributor.

## Load Chain



Diameter d(mm)	Model Reference Being Used	Inner Length p(mm)	Inner Width a(mm)	Outer Width b(mm)	Breaking Load (kn)
Φ7.1	050-300 YSE YSL YSF YSH YL(H)T	20.2	8.2	23.2	63
Φ10.0	YSS(T)-200 YSS(T)-300	30.2	12.5	33.2	128
Φ11.2	YSS(T)-250 YSS(T)-500 YSS-750 YSS-1000 YSS-1500 YSS-2000 YSS-3000	34.0	14.0	37.5	160

## Hook



Model	Capacity (ton)	T B	Dimensions (mm)							Allow Stress (kg/mm <sup>2</sup> )	Hook Block Weight (kg)	
			H1	B1	B2	H2	B3	B4	C			G
YSL,H,E,F	0.5,1	T B	33	23	9	29	23	9	40	28	70	*10
YSL,H,E,F	2	T B	45	31	10	41	31	10	46	36	70	*10
YSL,H	3	T B	55	34	19	48	34	19	52	40	70	*10
YSS	2,2.5,3	T B	55	34	19	48	34	19	52	40	70	*10
	5	T B	67	45	23	60	45	23	62	45	70	20
	7.5	B	75	48	16	68	48	16	75	55	100	40
	10	B	100	70	28	95	65	28	100	70	70	70
	15	B	120	85	32	110	83	32	120	82	70	140
	20	B	140	100	38	130	95	38	140	105	70	270
	30	B	140	98	38	130	94	38	140	105	100	350

● T=Top hook / B=Bottom hook ● If the weight is less than 10 kg, it will be considered as 10 kg.



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## Features of YSE Series:



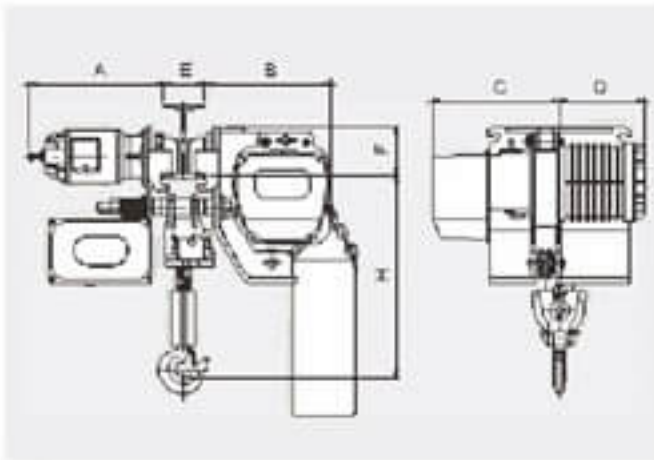
- Direct connection to power supply.
- Slipping clutch provides overload protection.
- No limit switch nor limit spring, reduces headroom.
- Optional low voltage, 24 volt, control available.

Capacity ( ton )	0.5			1			2					
Lift Length ( m )	3 (6) etc.											
Single Speed ( m/min )	50Hz			6.7			4.7			2.3		
	60Hz			8.0			5.6			2.8		
Motor Power ( kw )	1.5			1.8								
Power Supply	3 Phase, 220V-600V,50Hz,60Hz											
E.D Rating ( % )	40											
Load Chain Fall Number	1			2								
N.W./G.W. (kg)	50.5/53			60.5/63								
Packing LXWXH (cm)	60X57X33											
Msrmt (cu, ft)	4											

## Features of YLT/YHT/YST Series:



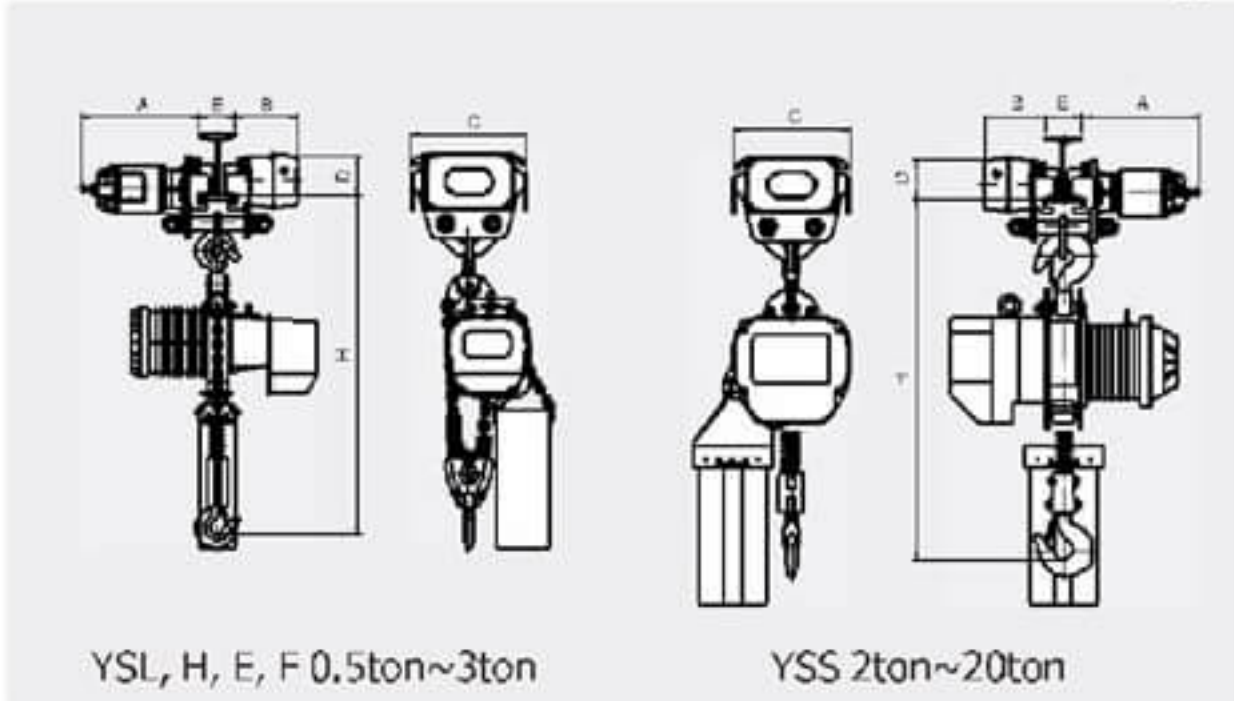
- Specially engineered frame combines hoist and trolley, for specific low headroom applications.
- Reduced headroom provides higher lifting.



※YET(D) series of products are only applicable for Europe.  
 ※Maximum lifting height : 6M

Model	Capacity (ton)	Dimension (mm)							Hoisting			Traversing			N.W. (kg)
		H	A	B	C	D	E	F	Speed (m/min) 50Hz	Speed (m/min) 60Hz	Motor kw pole	Speed (m/min) 50Hz	Speed (m/min) 60Hz	Motor kw pole	
YET-050	0.5	440	327	307	278	241	75-125	112	6.7	8.0	1.5, 4P	20	24	0.25, 4P	188
YETD-050	0.5	440	327	307	278	286	75-125	112	6.7/2.2	8.0/2.7	1.8/0.6, 4/12P	20/7	24/8	0.25/0.08, 4/12P	188
YET-100	1	440	327	307	278	241	75-125	112	4.7	5.6	1.5, 4P	20	24	0.25, 4P	188
YETD-100	1	440	327	307	278	286	75-125	112	4.7/1.6	5.6/1.8	1.8/0.6, 4/12P	20/7	24/8	0.25/0.08, 4/12P	188
YET-200	2	520	330	310	311	208	100-150	118	2.3	2.8	1.8, 4P	20	24	0.25, 4P	216
YETD-200	2	520	330	310	311	253	100-150	118	2.3/0.8	2.8/1.0	1.8/0.6, 4/12P	20/7	24/8	0.25/0.08, 4/12P	216
YET-300	3	593	366	315	343	208	125-175	143	1.5	1.8	1.8, 4P	20	24	0.6, 4P	277
YETD-300	3	593	366	315	343	221	125-175	143	1.5/0.5	1.8/0.6	1.8/0.6, 4/12P	20/7	24/8	0.6/0.2, 4/12P	277
YLT-050	0.5	440	327	307	278	241	75-125	112	6.7	8.0	1.5, 4P	20	24	0.25, 4P	188
YLTD-050	0.5	440	327	307	278	286	75-125	112	6.7/2.2	8.0/2.7	1.8/0.6, 4/12P	20/7	24/8	0.25/0.08, 4/12P	188
YLT-100	1	440	327	307	278	241	75-125	112	4.7	5.6	1.5, 4P	20	24	0.25, 4P	188
YLTD-100	1	440	327	307	278	286	75-125	112	4.7/1.6	5.6/1.8	1.8/0.6, 4/12P	20/7	24/8	0.25/0.08, 4/12P	188
YLT-200	2	520	330	310	311	208	100-150	118	2.3	2.8	1.8, 4P	20	24	0.25, 4P	216
YLTD-200	2	520	330	310	311	253	100-150	118	2.3/0.8	2.8/1.0	1.8/0.6, 4/12P	20/7	24/8	0.25/0.08, 4/12P	216
YLT-300	3	593	366	315	343	208	125-175	143	1.5	1.8	1.8, 4P	20	24	0.6, 4P	277
YLTD-300	3	593	366	315	343	221	125-175	143	1.5/0.5	1.8/0.6	1.8/0.6, 4/12P	20/7	24/8	0.6/0.2, 4/12P	277
YHT-050	0.5	440	327	307	278	241	75-125	112	9.2	11	1.8, 4P	20	24	0.25, 4P	188
YHTD-050	0.5	440	327	307	278	286	75-125	112	9.2/3.1	11/3.7	1.8/0.6, 4/12P	20/7	24/8	0.25/0.08, 4/12P	188
YHT-100	1	440	327	307	278	241	75-125	112	6.7	8.0	1.8, 4P	20	24	0.25, 4P	188
YHTD-100	1	440	327	307	278	286	75-125	112	6.7/2.2	8.0/2.7	1.8/0.6, 4/12P	20/7	24/8	0.25/0.08, 4/12P	188
YHT-200	2	520	330	310	311	208	100-150	118	3.3	4.0	1.8, 4P	20	24	0.25, 4P	216
YHTD-200	2	520	330	310	311	253	100-150	118	3.3/1.1	4.0/1.3	1.8/0.6, 4/12P	20/7	24/8	0.25/0.08, 4/12P	216
YHT-300	3	593	366	315	343	208	125-175	143	2.2	2.5	1.8, 4P	20	24	0.6, 4P	277
YHTD-300	3	593	366	315	343	221	125-175	143	2.2/0.7	2.6/0.9	1.8/0.6, 4/12P	20/7	24/8	0.6/0.2, 4/12P	277
YST-200	2	702	371	443	318	319	125-175	143	6.7	7.9	3.7, 4P	20	24	0.6, 4P	438
YSTD-200	2	702	371	443	318	376	125-175	143	6.7/2.2	7.9/2.6	3.7/1.2, 4/12P	20/7	24/8	0.6/0.2, 4/12P	438
YST-250	2.5	724	371	443	318	319	125-175	143	5.2	6.4	3.7, 4P	20	24	0.6, 4P	448
YSTD-250	2.5	724	371	443	318	376	125-175	143	5.2/1.7	6.4/2.1	3.7/1.2, 4/12P	20/7	24/8	0.6/0.2, 4/12P	448
YST-300	3	765	371	443	274	363	125-175	143	4.3	5.2	3.7, 4P	20	24	0.6, 4P	465
YSTD-300	3	765	371	443	274	420	125-175	143	4.3/1.4	5.2/1.7	3.7/1.2, 4/12P	20/7	24/8	0.6/0.2, 4/12P	465
YST-500	5	805	371	443	265	372	125-175	148	2.6	3.2	3.7, 4P	20	24	0.6, 4P	505
YSTD-500	5	805	371	443	265	429	125-175	148	2.6/0.9	3.2/1.0	3.7/1.2, 4/12P	20/7	24/8	0.6/0.2, 4/12P	505

## Dimensions of Hoist with Motorized Trolley

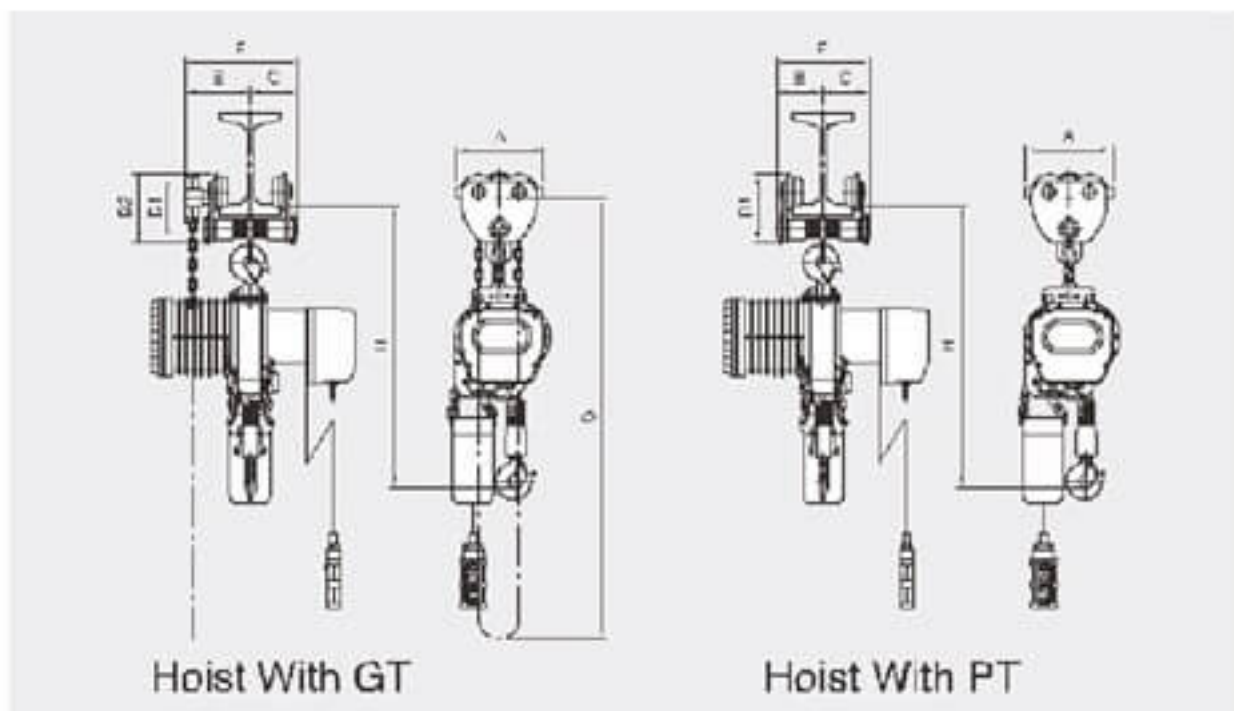


YSL, H, E, F 0.5ton~3ton

YSS 2ton~20ton

Capacity (ton)	Model	Dimensions(mm)						
		H	A	B	C	D	E	
YSL, H, E, YSF	0.5, 1	MT-050, 100	705	328	173	294	98	75-125
	2	MT-200	935	328	173	322	111	100-150
YSL, H	3	MT-300	1030	368	180	356	117	125-175
	2	MT-200	995	328	173	322	111	100-150
YSS	2.5	MT-300	1040	368	180	356	117	125-175
	3	MT-300	1120	368	180	356	117	125-175
	5	MT-500	1200	372	184	386	127	125-175
	7.5	MT-750	1300	381	193	454	167	150-200
	10	MT-1000	1415	471	193	560	205	150-200
	15	MT-1500	1490	576	212	702	220	190
20	MT-2000	1820	705	211	882	295	200	

## Dimensions of Hoist with GT/PT



Hoist With GT

Hoist With PT

Capacity (ton)	Model	Dimensions(mm)								Flange Width (mm)	
		H	A	B	C	D1	D2	E	G		
YSL, H, YSE, F	0.5	GT-050	710	194	156	110	151	150	266	2709	50-150
	0.5	PT-050	710	194	110	110	151	-	220	-	50-150
	1	GT-100	720	217	160	113.5	170	167	273	2719	75-150
	1	PT-100	720	217	113.5	113.5	167	-	227	-	75-150
	2	GT-200	920	247	179	130	224	207	309	3279	100-175
	2	PT-200	920	247	130	130	207	-	260	-	100-175
YSL, H	3	GT-300	1110	270	196	150	241	239	346	3353	100-200
	3	PT-300	1110	270	150	150	239	-	300	-	100-200
YSS	2	GT-200	1010	247	179	130	224	207	309	3279	100-175
	2	PT-200	1010	247	130	130	207	-	260	-	100-175
	2.5	GT-300	1100	270	196	150	241	239	346	3353	100-200
	2.5	PT-300	1100	270	150	150	239	-	300	-	100-200
	3	GT-300	1175	270	196	150	241	239	346	3353	100-200
	3	PT-300	1175	270	150	150	239	-	300	-	100-200
5	GT-500	1250	310	198	152	235	251	350	3356	125-200	
	PT-500	1250	310	151	152	251	-	304	-	125-200	



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■ 0.5T, 1T



■ 2T



■ 3T



■ 2T



■ 2.5T



■ 3T



■ 5T



### ■ Features of Hoist:

- Pendant control voltage transformed into 24V/48V to eliminate possible accident caused by circuit short and assure safe operation in wet environments.
- Automatic motor brake system features simultaneous braking upon power failure or switching off.
- Dual brake system assures safe operation.

### ■ Specifications:

Capacity (ton)		0.5	1	2	0.5	1	2	0.5	1	2	3	2	2.5	3	5	7.5	10	15	20	30	
Lift Height (m)		3 (6) etc.																			
Load Chain (mm)		Φ7.1			Φ7.1			Φ7.1				Φ10	Φ11.2	Φ10	Φ11.2						
Single Speed (m/min)	50Hz	YSF	5.6	3.9	2.0	6.7	4.7	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-
		YSL	-	-	-	-	-	-	6.7	4.7	2.3	1.5	-	-	-	-	-	-	-	-	-
		YSH	-	-	-	-	-	-	(9.2)	(6.7)	3.3	2.2	-	-	-	-	-	-	-	-	-
		YSS	-	-	-	-	-	-	-	-	-	-	6.6	5.2	4.3	2.6	1.8	2.6	1.8	1.3	0.9
	60Hz	YSF	6.7	4.7	2.3	8.0	5.6	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-
		YSL	-	-	-	-	-	-	8.0	5.6	2.8	1.8	-	-	-	-	-	-	-	-	-
		YSH	-	-	-	-	-	-	(11.0)	(8.0)	4.0	2.6	-	-	-	-	-	-	-	-	-
		YSS	-	-	-	-	-	-	-	-	-	-	7.9	6.4	5.2	3.2	2.1	3.2	2.1	1.5	1.1
Dual Speed (m/min)	50Hz	YSLD	-	-	-	-	-	6.7/2.2	4.7/1.6	2.3/0.8	1.5/0.5	-	-	-	-	-	-	-	-	-	
		YSHD	-	-	-	-	-	9.2/3.1	6.7/2.2	3.3/1.1	2.2/0.7	-	-	-	-	-	-	-	-	-	
		YSSD	-	-	-	-	-	-	-	-	-	-	6.6/2.2	5.2/1.7	4.3/1.4	2.6/0.9	1.8/0.6	2.6/0.9	1.8/0.6	1.3/0.43	0.9/0.3
	60Hz	YSLD	-	-	-	-	-	8.0/2.7	5.6/1.8	2.8/1.0	1.8/0.6	-	-	-	-	-	-	-	-	-	
		YSHD	-	-	-	-	-	11.0/3.7	8.0/2.7	4.0/1.3	2.6/0.9	-	-	-	-	-	-	-	-	-	
		YSSD	-	-	-	-	-	-	-	-	-	-	7.9/2.6	6.4/2.0	5.2/1.7	3.2/1.0	2.1/0.7	3.2/1.0	2.1/0.7	1.5/0.5	1.1/0.4
Motor (kw) (single speed)		1.8			1.8			1.5(1.8)		1.8		3.7				3.7X2		5.0X2			
Motor (kw) (dual speed)		-			-			1.8/0.6				3.7/1.2				3.7/1.2X2		5.0/1.7X2			
Power Supply		Single Phase 110V, 115V			Single Phase 220V, 230V			3 Phase, 220V- 600V				3 Phase, 220V- 600V									
E.D. Rating (%)		15			15			40				40									
Load Chain Fall Number		1	2		1	2		1	2	3		1	2	3	4	6	8	12			
N.W./G.W. (kg)		55/58.5	64.5/67		55/58.5	65/67		50.5/53	61/64	73/96		125/155	130/160	140/170	153/183	195/230	410/470	510/580	890/990	1035/1135	
Packing LXWXH (cm)		60X57X33			60X57X33			60X57X33			60X57X33	73X57X51				73X70X70	85X80X75	140X85X97	170X105X167	175X110X185	
Msrmnt (Cu.ft)		4			4			4		5.7		7.5				12.63	18.23	40.8	105.3	125.8	

※Dual speed E.D. Rating = 40/20%



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7.5T

10T

15T

20T

30T

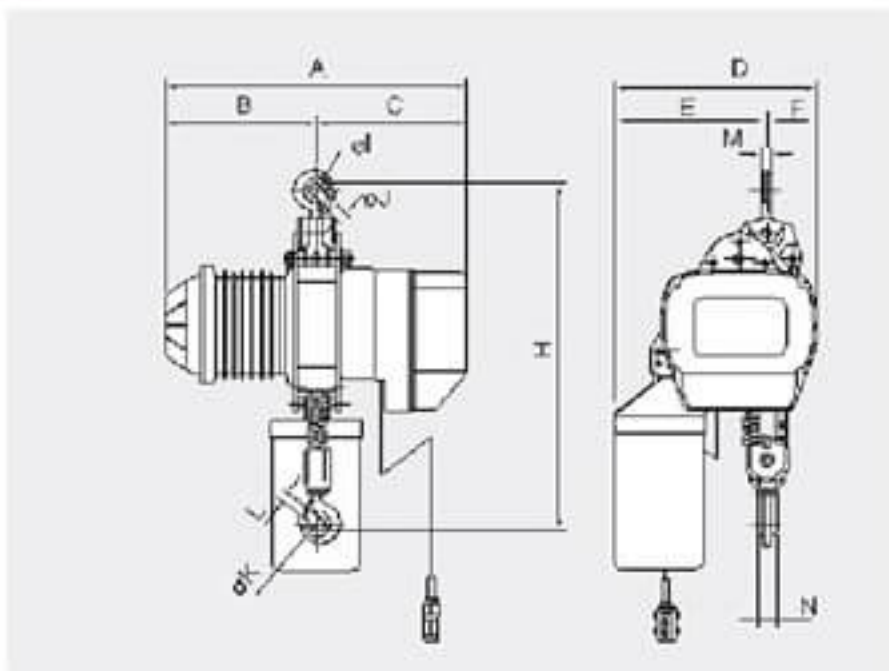


- Limit switches hold load chain from running out.
- Advanced phase error relay keeps motor motionless at incorrect power connection.
- Optional emergency stop features available.
- Optional electronic overload protection available.

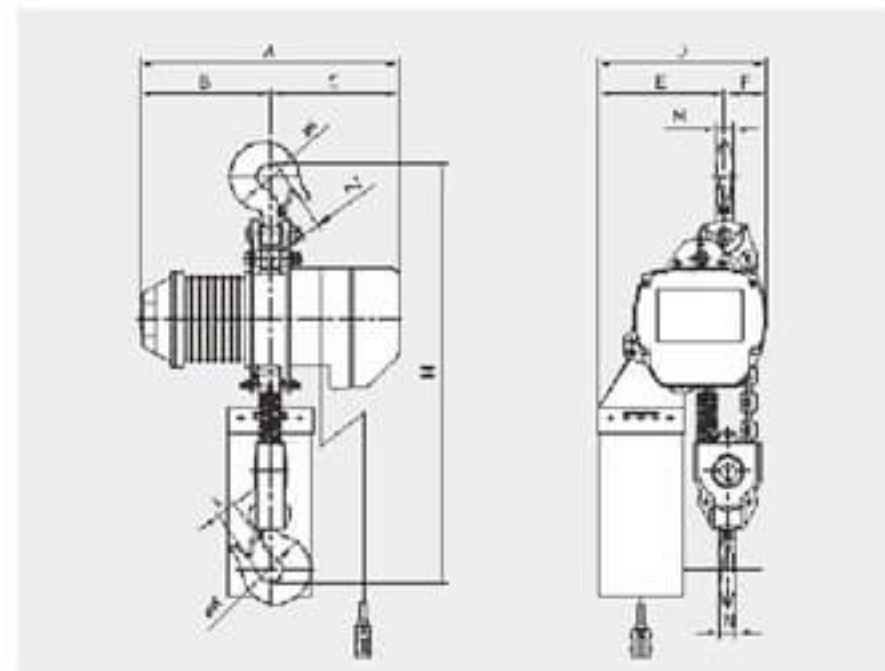
**Specifications:**

Capacity (ton)	Model	Dimensions (mm)																			
		H		A			B			C	D	E	F	I	J	K	L	M	N		
0.5	YSL, H, E, F-050	595	E560	505	F548	LD548	HD548	245	F288	LD288	HD288	260	240	115	125	40	28	40	28	23	23
1	YSL, H, E, F-100	595	E560	505	F548	LD548	HD548	245	F288	LD288	HD288	260	240	115	125	40	28	40	28	23	23
2	YSL, H, E, F-200	745	E710	505	F548	LD548	HD548	245	F288	LD288	HD288	260	240	175	65	46	36	46	36	31	31
3	YSL, H-300	880	-	505	-	LD548	HD548	245	-	LD288	HD288	260	280	175	105	52	43	52	43	34	34
2	YSS-200	835	-	640	-	-	SD689	326	-	-	SD375	314	448	278	170	52	43	52	43	34	34
2.5	YSS-250	880	-	640	-	-	SD689	326	-	-	SD375	314	448	278	170	52	43	52	43	34	34
3	YSS-300	960	-	640	-	-	SD689	326	-	-	SD375	314	448	340	108	52	43	52	43	34	34
5	YSS-500	1030	-	640	-	-	SD689	326	-	-	SD375	314	448	356	92	62	45	62	45	45	45
7.5	YSS-750	1150	-	640	-	-	SD689	326	-	-	SD375	314	587	388	199	72	40	75	57	84	48
10	YSS-1000	1270	-	640	-	-	SD689	326	-	-	SD375	314	970	485	485	72	40	100	68	92	60
15	YSS-1500	1365	-	679	-	-	SD724	365	-	-	SD410	314	1360	680	680	80	40	120	90	169	85
20	YSS-2000	1950	-	866	-	-	SD866	433	-	-	SD433	433	1472	736	736	82	82	140	95	164	95
30	YSS-3000	2000	-	924	-	-	SD924	462	-	-	SD462	462	1472	736	736	92	92	140	95	221	95

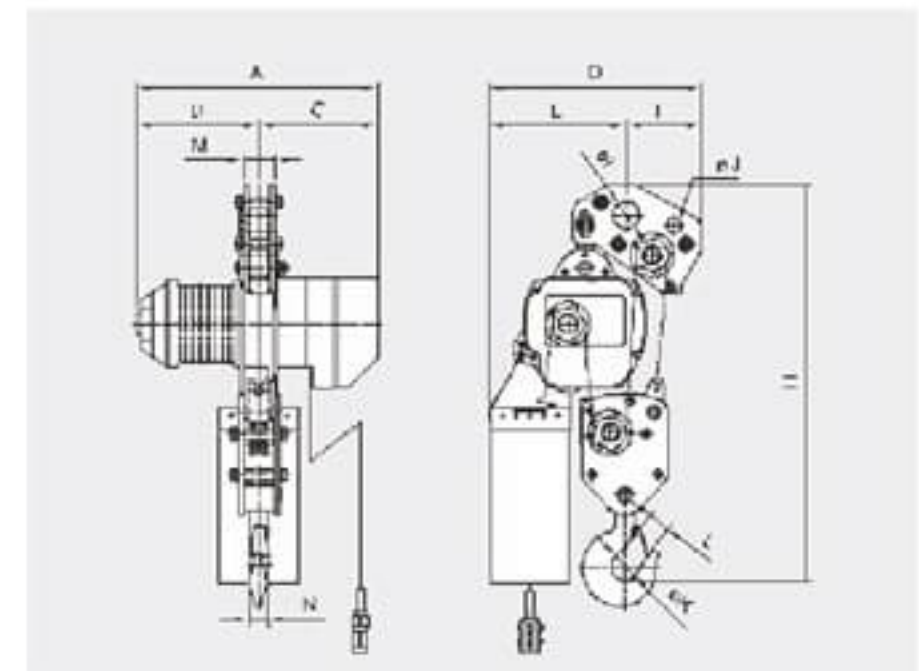
**Dimensions of Hook Suspension Type Hoist:**



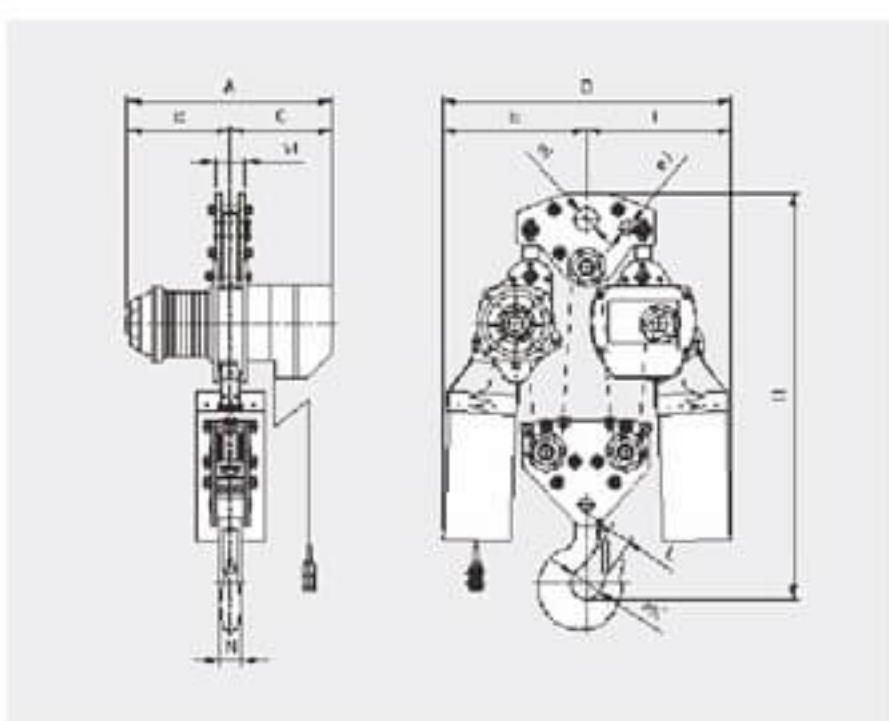
YSL, YSH, YSE, YSF, YSS



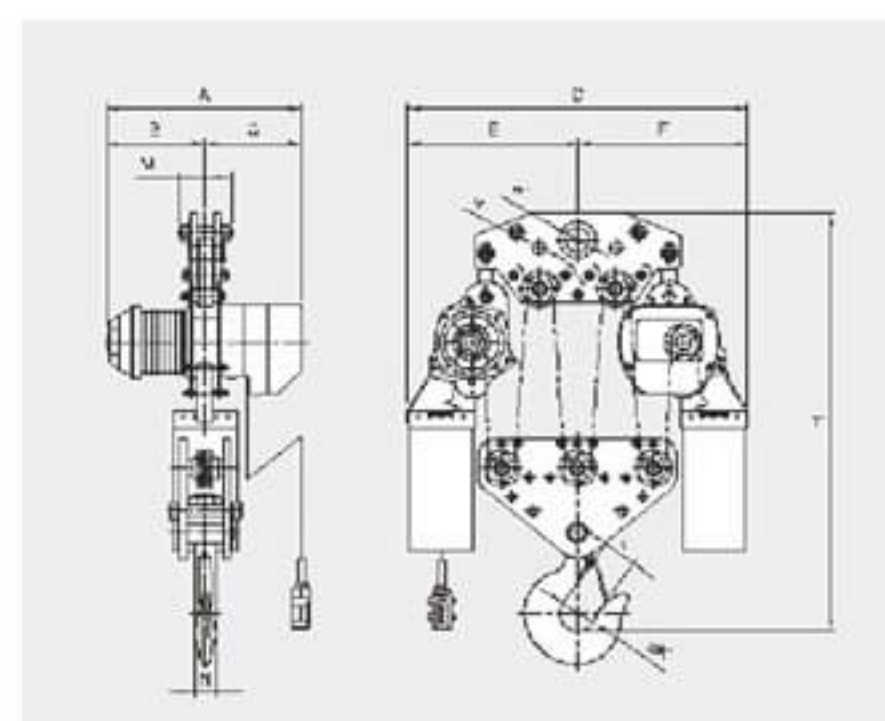
YSS-500



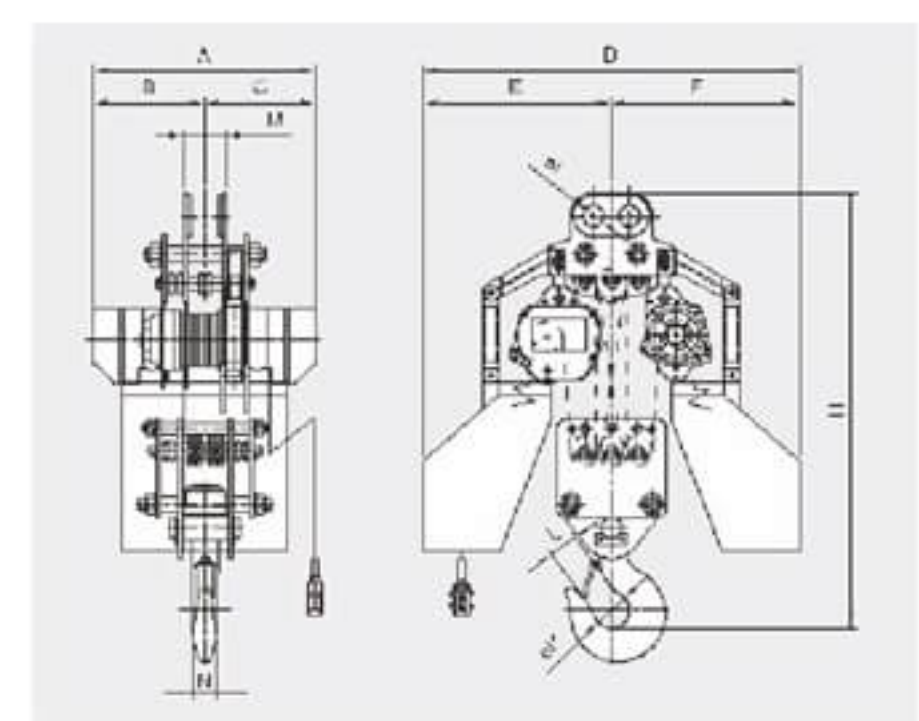
YSS-750



YSS-1000



YSS-1500



YSS-2000, YSS-3000



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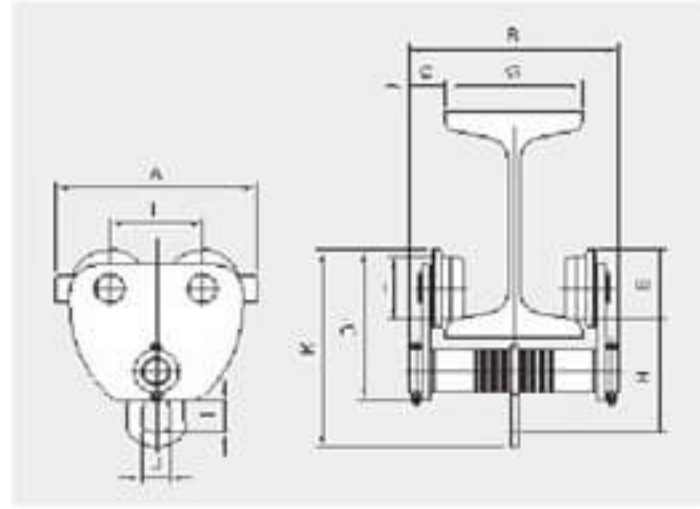
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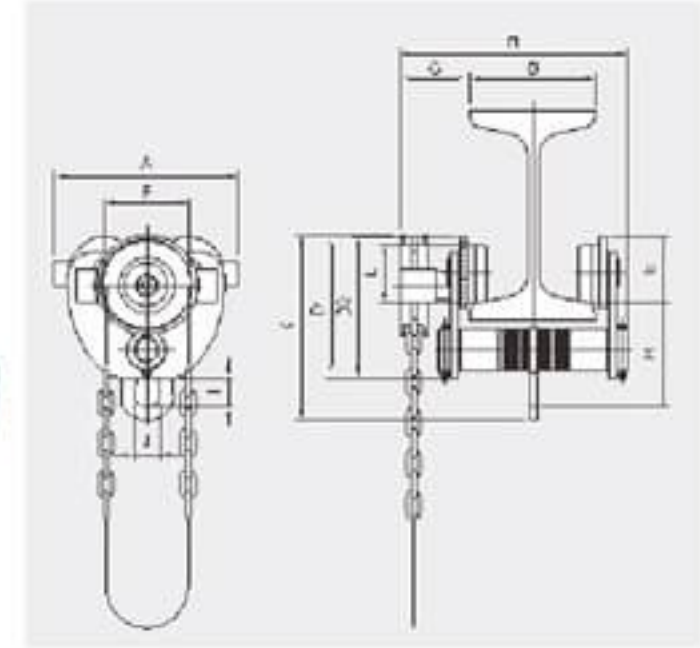
# TROLLEY

## ● Plain Trolley (PT)



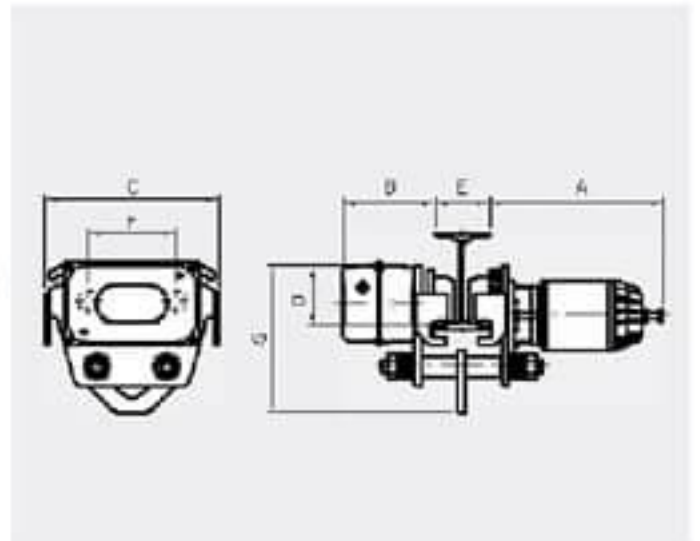
Dimensions (mm)															
Capacity (ton)	Model	A	B	C	D1	E	F	H	I	J	K	L	Flange Width G	N.W. (kg)	Min radius of curve (m)
0.5	PT-050	194	220	35	151	69	89	115	33	28	198	60	50-150	6.4	1.0m
1	PT-100	217	227	39	167	78	100	124	35	31	218	70	75-150	10.6	1.0m
2	PT-200	247	260	43	207	91	116	171	55	56	284	80	100-175	16.8	1.3m
3	PT-300	270	300	50	239	103	130	215	79	60	353	90	100-200	25.8	1.5m
5	PT-500	310	304	52	251	117	140	218	84	60	370	100	125-200	32.6	1.6m
7.5	PT-750	368	343	72	292	135	184	260	103	76	435	120	150-200	59.5	2.2m
10	PT-1000	398	350	75	322	152	197	275	105	76	467	140	150-200	81.4	2.2m

## ● Geared Trolley (GT)



Dimensions (mm)																
Capacity (ton)	Model	A	B	C	D1	D2	E	F	H	I	J	K	L	Flange Width G	N.W. (kg)	Min radius of curve (m)
0.5	GT-050	194	266	81	150	151	69	89	115	33	28	198	60	50-150	8.8	1.0m
1	GT-100	217	273	85	170	167	78	100	124	35	31	221	70	75-150	13.5	1.0m
2	GT-200	247	309	91	224	207	91	116	171	55	56	301	80	100-175	19.8	1.3m
3	GT-300	270	346	96	241	239	103	130	215	79	60	355	90	100-200	33.3	1.5m
5	GT-500	310	350	98	235	251	117	140	218	84	60	370	100	125-200	37	1.6m
7.5	GT-750	368	382	110	280	292	135	184	260	103	76	435	120	150-200	64	2.2m
10	GT-1000	398	389	114	301	322	152	197	275	105	76	467	140	150-200	86	2.2m

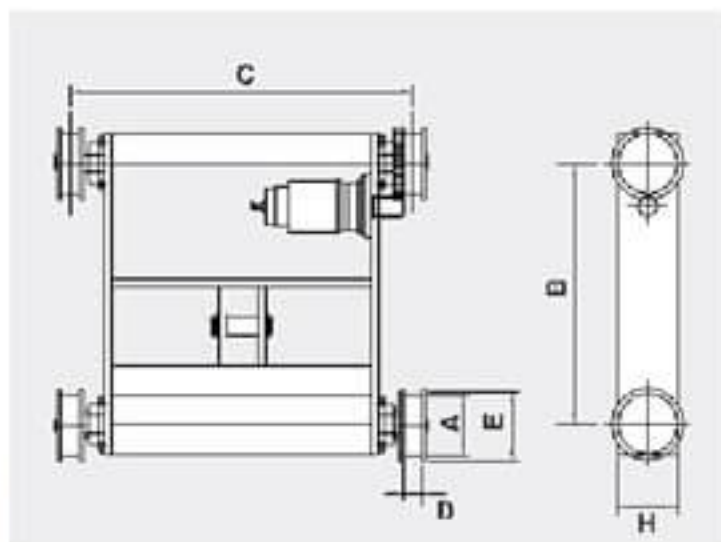
## ● Monorail Motorized Trolley (MT)



Dimensions (mm)														
Capacity (ton)	Model	A	B	C	D	E	F	G	Speed (m/min)		Motor (kw)	Pole (P)	Min. radius of curve (m)	N.W. (kg)
									50Hz	60Hz				
1	MT-100	328	173	294	98	75-125	149	246	20	24/16	0.25/0.17	4/6	1.3	40
	20/7								24/8					
2	MT-200	328	173	322	111	100-150	161	272	20	24/16	0.25/0.17	4/6	1.5	45
	20/7								24/8					
3	MT-300	368	180	356	117	125-175	172	297	20	24/16	0.6/0.4	4/6	1.8	65
	20/7								24/8					
5	MT-500	372	184	386	127	125-175	183	320	20	24/16	0.6/0.4	4/6	2.0	89
	20/7								24/8					
7.5	MT-750	380	193	454	167	150-200	229	400	13	16	0.9	6	3.0	155
	13/6.5								16/8					
10	MT-1000	471	193	560	205	150-200	278	450	15	18	1.5	4	3.5	218
	15/5								18/6					
15	MT-1500	576	212	702	220	190	360	520	12	14	1.5	4	-	350
	12/4								14/4.6					
20	MT-2000	705	211	882	295	200	440	604	12	15	2.2	4	-	575
	12/4								15/5					

MT-100~500: 50Hz uses 4P motor; 60Hz uses 4P or 6P motor  
(Please specify as ordering 6P motor)

## ● Motor Saddle Trolley (MST)



Dimensions (mm)													
Capacity (ton)	Model	Speed (m/min)		A	B	C	D	E	H	Motor (kw)	Pole (P)	N.W. (kg)	
		50Hz	60Hz										
1	MST-100	20	19	120	560	700	40	147	122.5	0.25	4	94	
	MSTD-100	20/6.7	19/6.3										
2	MST-200	20	19	120	580	700	40	147	122.5	0.25	4	94	
	MSTD-200	20/6.7	19/6.3										
3	MST-300	18	22	150	650	850	45	176	155	0.4	4	182	
	MSTD-300	18/5	22/7.3										
5	MST-500	18	22	150	650	850	45	176	155	0.6	6	182	
	MSTD-500	18/9	22/11										
7.5	MST-750	19	23	160	800	1000	50	187	225	0.9	4	306	
	MSTD-750	19/6.3	23/7.7										
10	MST-1000	21	20	215	900	1200	50	246	327.5	0.9-2pcs	4	504	
	MSTD-1000	21/7	20/6.7										

MST-100  
MST-200  
MST-1000  
MST-300  
MST-500  
MST-750

50Hz with pinion of M3.5x15T  
60Hz with pinion of M3.5x12T  
50Hz/60Hz with pinion of M3.5x13T  
50Hz/60Hz with pinion of M3.5x20T  
50Hz/60Hz with pinion of M3.5x15T



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## Models Available

Capacity (ton)		0.5T	1T	2T	2.5T	3T	5T	7.5T	10T	15T	20T	30T		
3 Phase	Slipping Clutch	YSE	YSE-050	YSE-100	YSE-200									
	Low Speed	YSL	YSL-050	YSL-100	YSL-200		YSL-300							
			YLT-050	YLT-100	YLT-200		YLT-300							
	High Speed	YSH	YSH-050	YSH-100	YSH-200		YSH-300							
			YHT-050	YHT-100	YHT-200		YHT-300							
	Heavy Speed	YSS			YSS-200	YSS-250	YSS-300	YSS-500	YSS-750	YSS-1000	YSS-1500	YSS-2000	YSS-3000	
			YST			YST-200	YST-250	YST-300	YST-500					
	Dual Speed	YSED	YSED-050	YSED-100	YSED-200									
			YSLD	YSLD-050	YSLD-100	YSLD-200		YSLD-300						
			YLTD	YLTD-050	YLTD-100	YLTD-200		YLTD-300						
			YSHD	YSHD-050	YSHD-100	YSHD-200		YSHD-300						
			YHTD	YHTD-050	YHTD-100	YHTD-200		YHTD-300						
			YSSD			YSSD-200	YSSD-250	YSSD-300	YSSD-500	YSSD-750	YSSD-1000	YSSD-1500	YSSD-2000	YSSD-3000
			YSTD			YSTD-200	YSTD-250	YSTD-300	YSTD-500					
	Single Phase	YSF	YSF-050	YSF-100	YSF-200									

## Chain Bucket No. Selection Table

Model	Chain size (mm)	Lift (m)																												Bucket No.	Bucket size (mm)	Material
		≤4	≤5	≤6	≤7	≤8	≤9	≤10	≤11	≤12	≤13	≤14	≤15	≤16	≤18	≤19	≤20	≤23	≤25	≤26	≤27	≤30	≤31	≤38	≤40	≤47	≤50	≤60				
YSF-050 YSE(D)-050 YSL(D)-050 YSH(D)-050	Φ7.1						#2						#3				#5-1	#4							#5-3	#5-4	#5-5	#5-6	#2	150X100X380L	canvas	
YSF-100 YSE(D)-100 YSL(D)-100 YSH(D)-100	Φ7.1						#2						#3				#5-1	#4							#5-3	#5-4	#5-5	#5-6	#3	150X100X470L	canvas	
YSF-200 YSE(D)-200 YSL(D)-200 YSH(D)-200	Φ7.1	#2	#3					#5-1	#4	#5-2	#5-3						#5-4	#5-5							#5-6				#4	150X100X560L	canvas	
YSL(D)-300 YSH(D)-300	Φ7.1	#3	#4	#5-1	#5-2			#5-3						#5-5		#5-6													#5-1	210X140X465L	steel	
YSS(D)-200	Φ10.0					#6										#7	#8-1	#8	#9	#10								#5-2	210X160X545L	steel		
YSS(D)-250	Φ11.2					#6								#7	#8-1									#8	#9	#10		#5-3	210X160X665L	steel		
YSS(D)-300	Φ10.0	#6						#7	#8-1	#8	#9	#10																#5-4	210X170X815L	steel		
YSS(D)-500	Φ11.2	#6				#7	#8-1	#8	#9	#10																		#5-5	210X170X975L	steel		
YSS(D)-750	Φ11.2		#7	#8-1	#8	#9	#10																#11					#5-6	210X180X1135L	steel		
YSS(D)-1000	Φ11.2		#7	#8-1	#8	#9	#10																					#6	190X190X440L	canvas		
YSS(D)-1500	Φ11.2		#7	#8-1	#8	#9	#10																#11					#7	190X190X560L	canvas		
YSS(D)-2000	Φ11.2				#12																							#8	190X190X680L	canvas		
YSS(D)-3000	Φ11.2	#12				#13																						#8-1	400X210X605L	steel		

\* There are 2 chain bucket with hoist above 10 tons.

### Power Supply :

- Electric Chain Hoists are available in all standard voltages of three Phase power, from 220V to 600V; as well as 115V or 230V of single Phase. Three Phase hoists are re-connectable.

### Lifting Height :

- Standard lifting height: 3 Meters / 6 Meters.
- Optional height available upon request (may be charged extra according to load chain length).
- The balance trolley is available for lift height over 6M or steel chain bucket. (Optional)

### Lifting Speed :

- Please refer to each detailed specification.

### Standard Accessories :

- Chain container .....1pc
- Power cord .....3M
- Push button pendant (3M) .....1pc

### Push Button Pendant :

- 2-button type: up and down.
- 4-button type: up and down; left and right (trolley).
- 6-button type: up and down; left and right; forward and reverse ( end carrier ).
- Plus standard emergency stop. (Optional)



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## Federation Europeenne De La Manutention

Load spectrum	Cubic mean value Definitions	Average operating time per day in hours							
		0.25-0.5	0.5-1	1-2	2-4	4-8	8-16	>16	
1 (light)	( $k \leq 0.50$ ) Mechanisms or parts thereof, usually subject to very small loads and in exceptional cases only to maximum loads.	0.25-0.5	0.5-1	1-2	2-4	4-8	8-16	>16	
2 (medium)	( $0.50 < k \leq 0.63$ ) Mechanisms or parts thereof, usually subject to small loads but rather often to maximum loads.	0.12-0.25	0.25-0.5	0.5-1	1-2	2-4	4-8	8-16	>16
3 (heavy)	( $0.63 < k \leq 0.80$ ) Mechanisms or parts thereof, usually subject to medium loads but frequently to maximum loads.	$\leq 0.12$	0.12-0.25	0.25-0.5	0.5-1	1-2	2-4	4-8	8-16
4 (very heavy)	( $0.80 < k \leq 1$ ) Mechanisms or parts thereof, usually subject to maximum or almost to maximum loads.		$\leq 0.12$	0.12-0.25	0.25-0.5	0.5-1	1-2	2-4	4-8
Classification of Mechanisms FEM 9.511		1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m

## ISO/FEM (9.511)

### Classification of mechanisms:

1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m
M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8

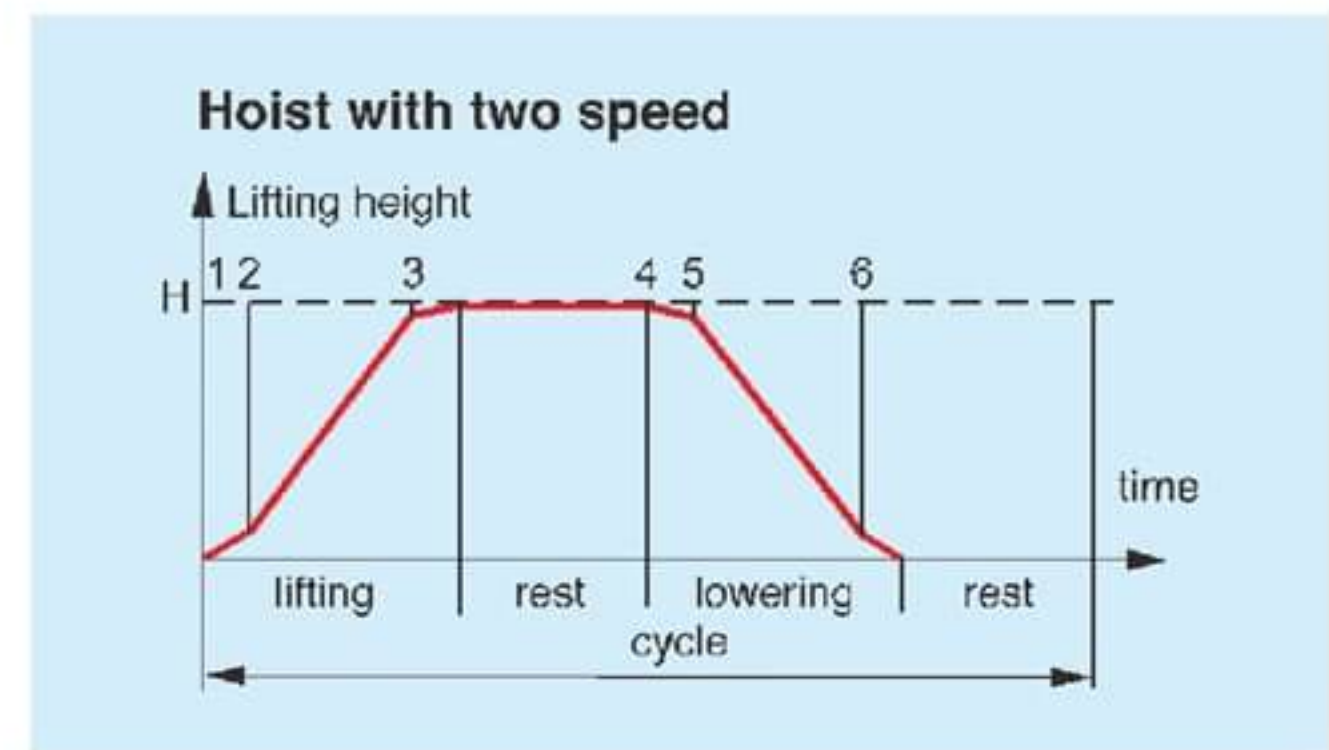
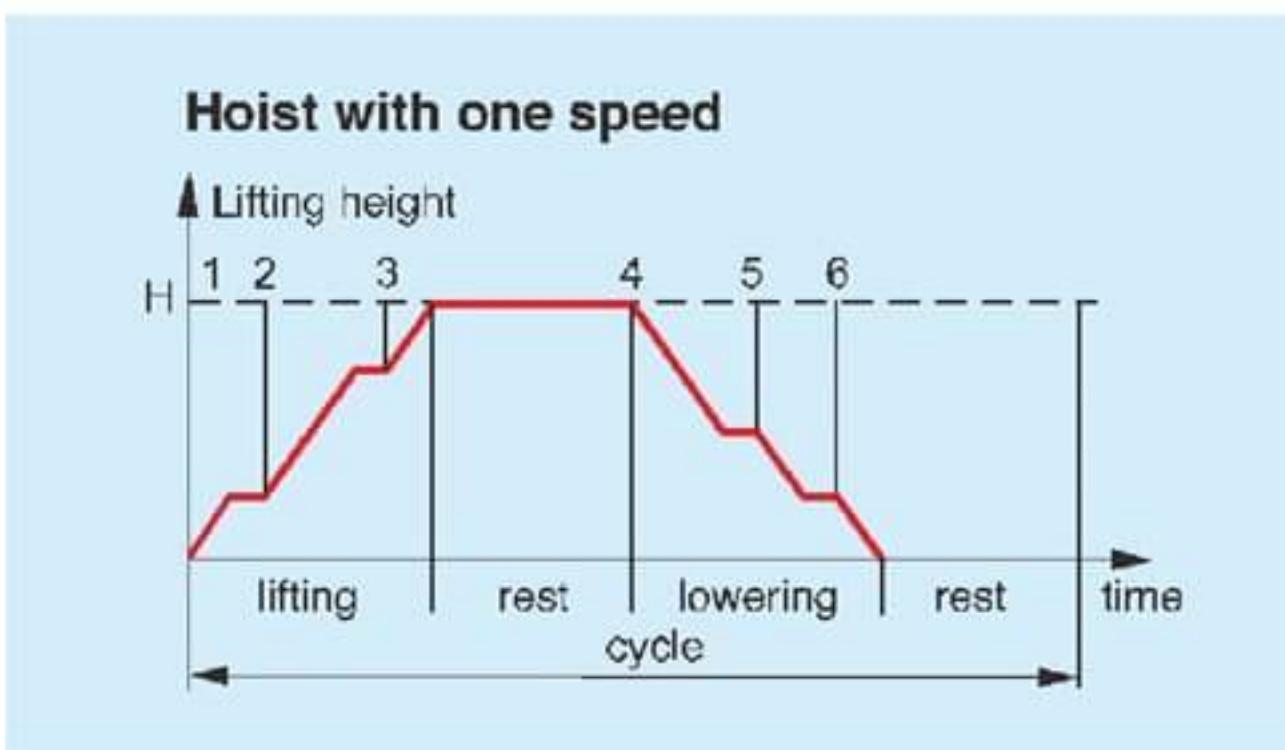
### Classification of mechanisms into groups:

Load spectrum	Cubic mean value	Class of operation time									
		V0.06	V0.12	V0.25	V0.5	V1	V2	V3	V4	V5	
		T0	T1	T2	T3	T4	T5	T6	T7	T8	
		Average operating time per day in hours									
		$\leq 0.12$	$\leq 0.25$	$\leq 0.5$	$\leq 1$	$\leq 2$	$\leq 4$	$\leq 8$	$\leq 16$	>16	
1 L1	$k \leq 0.50$			1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	
2 L2	$0.50 < k \leq 0.63$		1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m	
3 L3	$0.63 < k \leq 0.80$	1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m		
4 L4	$0.80 < k \leq 1.00$	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m			

### Class of operating time:

Class of operation time	Average operating time per day (in hours)	Calculated total operating time in hours
V0.06   T0	$\leq 0.12$	200
V0.12   T1	$\leq 0.25$	400
V0.25   T2	$\leq 0.5$	800
V0.5   T3	$\leq 1$	1600
V1   T4	$\leq 2$	3200
V2   T5	$\leq 4$	6300
V3   T6	$\leq 8$	12500
V4   T7	$\leq 16$	25000
V5   T8	> 16	50000

## Operation Cycle





Professional cranes & hoists for lifting



## Electric Wire Rope Hoist / AC series



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# FEATURES

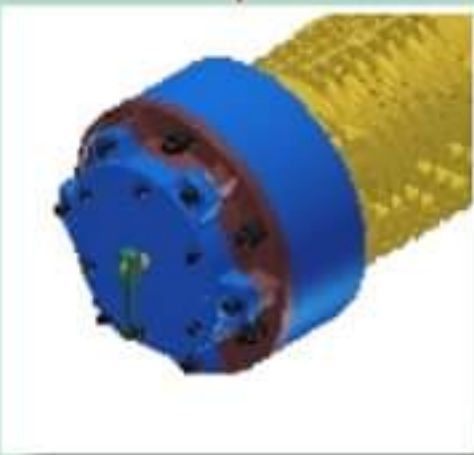
# ELECTRIC WIRE ROPE HOIST

### AC Brake

New design of AC brake electromagnetic motor disc system works precisely and synchronously with motors.

### MOTOR

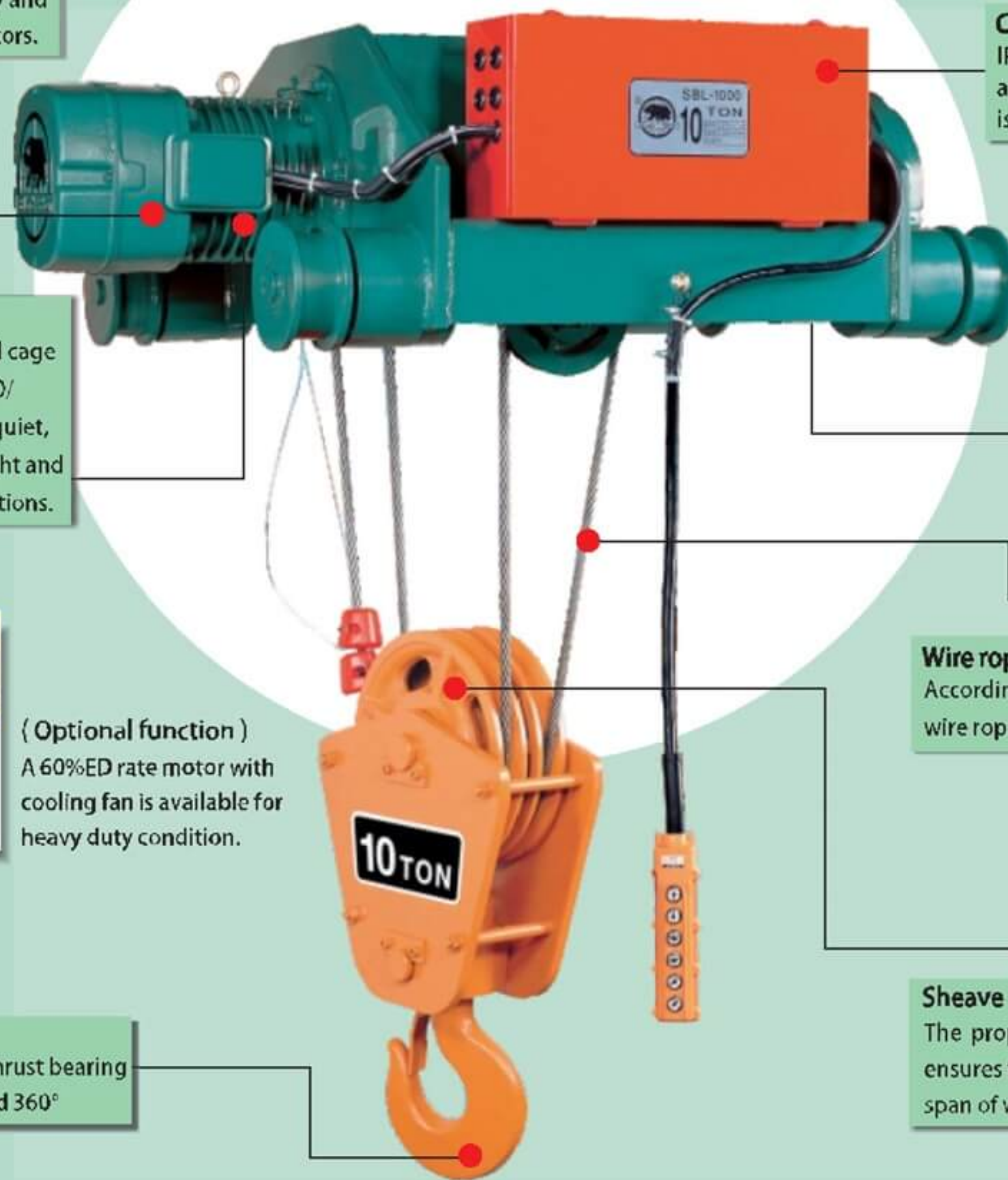
Highly efficiently squirrel cage motors of 40%ED rate (40/20% for dual speed) are quiet, small volume, light weight and suitable for most applications.



(Optional function)  
A 60%ED rate motor with cooling fan is available for heavy duty condition.

### Hook

Hot forged hooks with thrust bearing are enable to be swiveled 360°



### Control box

IP-20 control box is applied; Higher IP degree is available upon request.

### Gear box

Hoist reduction gear system are made of alloy steel with surface harden treatment for long lasting life span.

### Wire rope

According to JIS G 3525 standard wire rope applications.

### Sheave

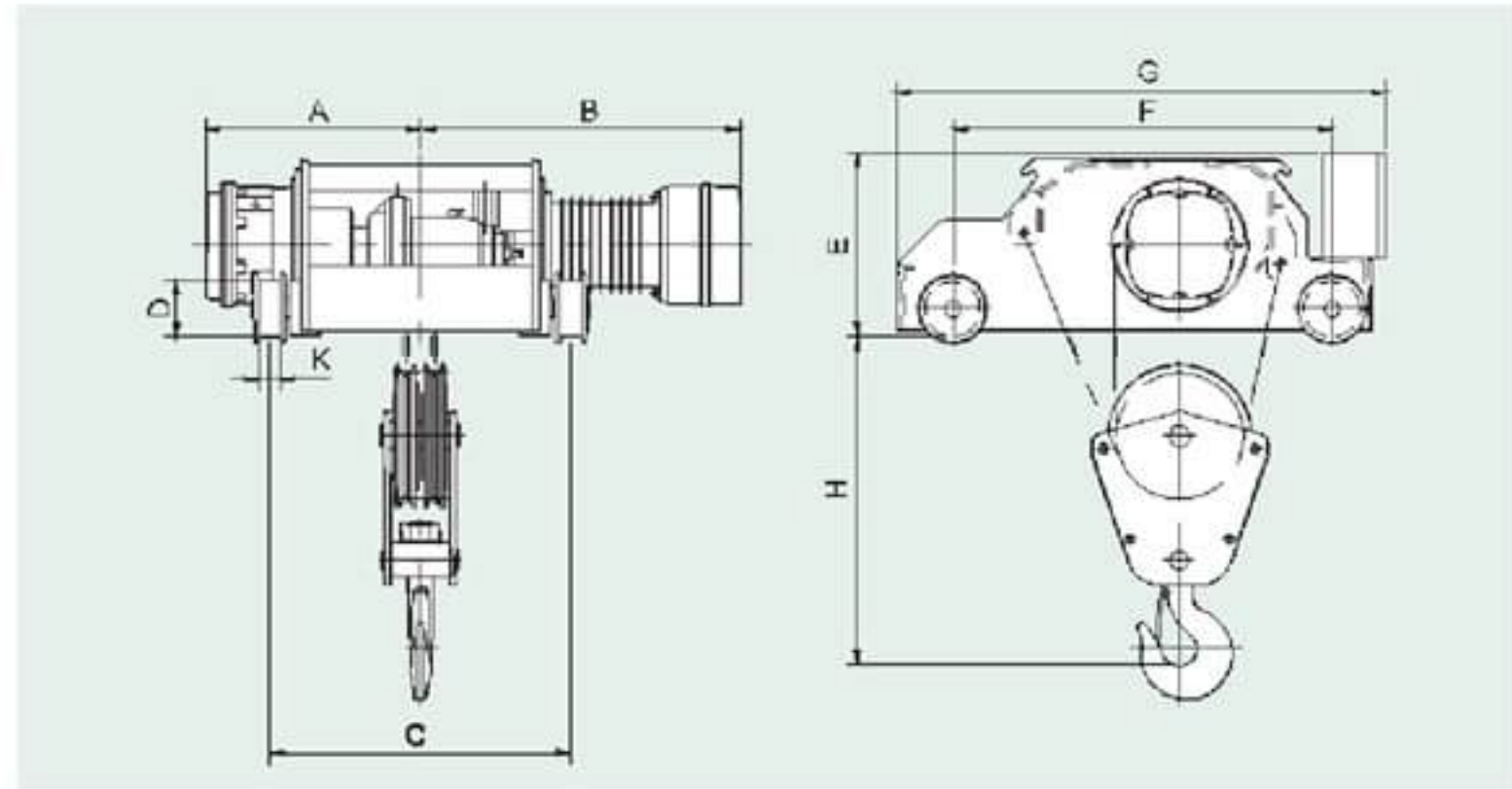
The proper diameter of sheave ensures the operation and life span of wire rope.

## PRODUCT CODE

<b>T</b>	<b>B</b>	<b>H</b>	<b>D</b>	-	<b>500</b>
Model	Gear box	Reeving/Falling	Blank/single speed		S.W.L.
T: MONORAIL TROLLEY S: SADDLE TROLLEY F: FOOTMOUNT	P: 2.2kw x 4P K: 3kw x 4P G: 5kw x 4P B: 7.5~11kw x 4P CA: 11~13kw x 4P DA: 13kw x 4P EA: 13kw x 4P FA: 18.5kw x 4P	N: 1/1 H: 2/4 M: 1/2 I: 2/6 L: 1/4 J: 2/8 P: 1/6 K: 2/10	D: Only hoist dual speed D1: Only trolley dual speed D2: Both hoist & trolley dual speed		100: 1ton 200: 2ton 300: 3ton 500: 5ton 750: 7.5ton 1000: 10ton 1500: 15ton 2000: 20ton 3000: 30ton



# SB.SCA.SDA.SEA series

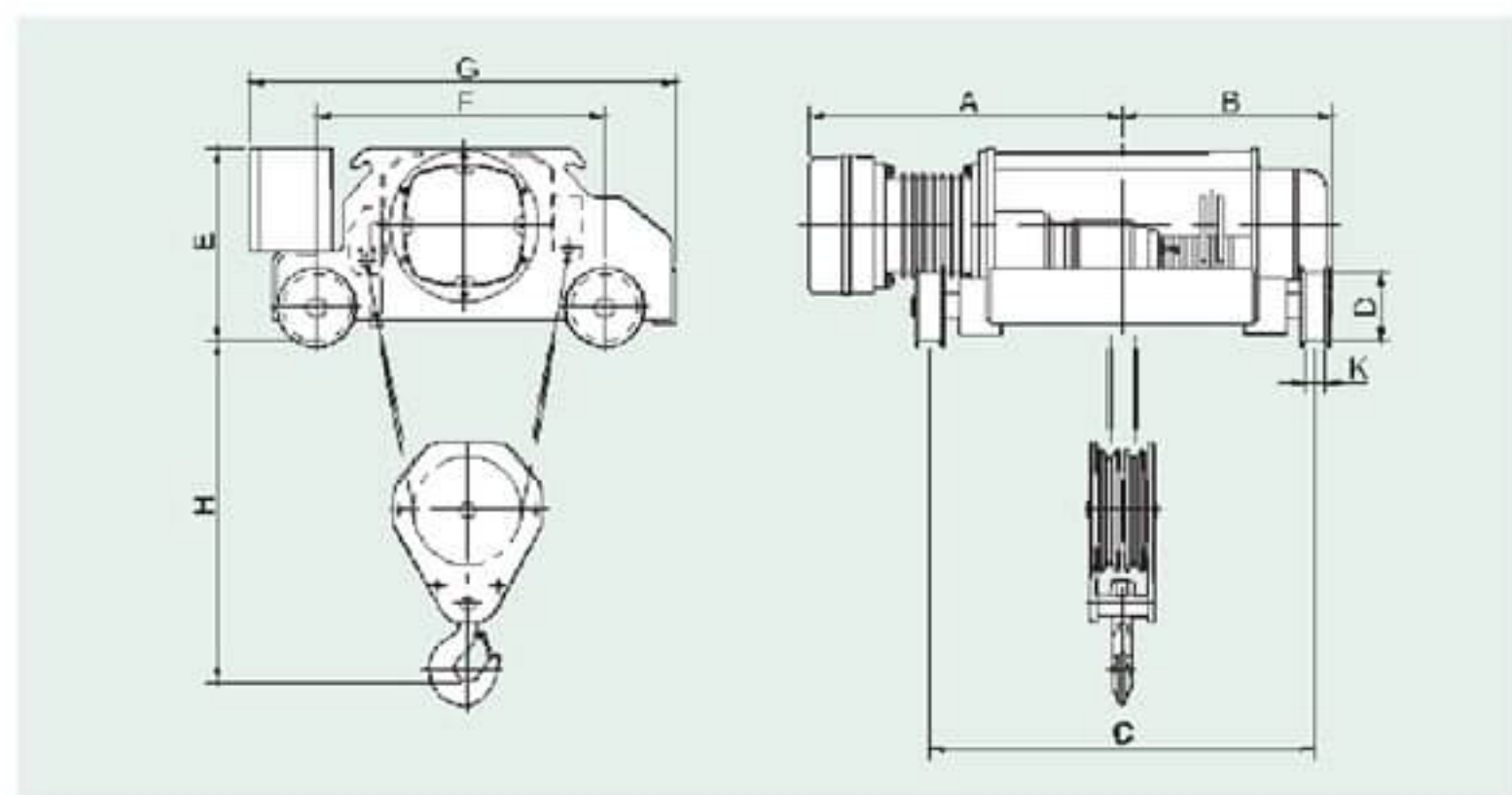


## SPECIFICATIONS & DIMENSIONS:

Model	Capacity (ton)	Lift (m)	Hoisting				Traversing				Wire Rope		Approximate Dimension (mm)										Approximate Weight (kg)				
			Speed (m/min) 60Hz	Speed (m/min) 50Hz	Motor kw/pole	ED %	Speed (m/min) 60Hz	Speed (m/min) 50Hz	Motor kw/pole	ED %	Single	Dual	Ømm	R/F	H	A	B		C	D	E			F	G	K	
SBH-500	5	6	7.3	6.1	7.5 4P	40	40/20	21	18	0.75 4P	40	40/20	Ø10	2/4	750	553	776	946	850	150	545	545	690	988	45	680	
SBHD-500		9	7.3/2.4	6.1/2.0	7.5/2.5 4/12P											0.75/0.25 4/12P	21/7	18/6	0.75/0.25 4/12P							743	966
SBH-750	7.5	6	7.3	6.1	11 4P	40	40/20	20	17	1.1 4P	40	40/20	Ø14	2/4	1200	608	921	1000	850	160	550	550	790	1095	60	880	
SBHD-750		9	7.3/2.4	6.1/2.0	11/3.7 4/12P											1.1/0.37 4/12P	20/6	17/6	1.1/0.37 4/12P							743	1056
SBL-1000	10	6	5.0	4.2	11 4P	40	40/20	17	14	1.1 4P	40	40/20	Ø16	1/4	1300	605	903	982	850	180	580	580	970	1280	60	1070	
SBLD-1000		9	5.0/1.7	4.2/1.4	11/3.7 4/12P											1.1/0.37 4/12P	17/6	14/5	1.1/0.37 4/12P							673	971
SCAH-1000	10	6	5.1	4.3	11 4P	40	40/20	17	14	1.1 4P	40	40/20	Ø16	2/4	1500	702	903	982	850	180	580	580	920	1250	60	1290	
SCAHD-1000		9	5.1/1.7	4.3/1.4	11/3.7 4/12P											1.1/0.37 4/12P	17/6	14/5	1.1/0.37 4/12P							817	1018
SDAH-1500	15	8	4.4	3.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20	Ø18	2/4	1600	946	1187	1187	1400	200	720	720	1125	1465	60	1970	
SDAHD-1500		10	4.4/1.5	3.7/1.2	13/4.3 4/12P											1.5/0.5 4/12P	18/6	15/5	1.5/0.5 4/12P							1007	1246
SEAL-1500	15	8	4.4	3.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20	Ø20	1/4	1550	690	1040	1040	1150	200	715	715	1160	1500	60	1550	
SEALD-1500		10	4.4/1.5	3.7/1.2	13/4.3 4/12P											1.5/0.5 4/12P	18/6	15/5	1.5/0.5 4/12P							735	1086
SCAL-2000	20	8	3.2	2.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20	Ø20	1/4	1700	760	1040	1040	1150	200	715	715	1160	1500	60	1950	
SCALD-2000		10	3.2/1.1	2.7/0.9	13/4.3 4/12P											1.5/0.5 4/12P	18/6	15/5	1.5/0.5 4/12P							806	1086
		12														872	1152	1152	1300								2230

- 1.R/F=Reeving/falling numbers. 2.Dual speed model under green shadow. 3.Traversing pinion 5 ton M3.5x23t, 7.5 ton M3.5x20t, 10-20 ton M3.5x23t.  
4.Traversing motor standard supply, 50 Hz or 60Hz all used 4 pole, or please specify. 5.Traversing motor: used reducing gear motor.

# SK.SG series



## SPECIFICATIONS & DIMENSIONS:

Model	Capacity (ton)	Lift (m)	Hoisting				Traversing				Wire Rope		Approximate Dimension (mm)										Approximate Weight (kg)				
			Speed (m/min) 60Hz	Speed (m/min) 50Hz	Motor kw/pole	ED %	Speed (m/min) 60Hz	Speed (m/min) 50Hz	Motor kw/pole	ED %	Single	Dual	Ømm	R/F	H	A	B		C	D	E			F	G	K	
SKM-200	2	6	8	6.7	3 4P	40	40/20	20	17	0.25 4P	40	40/20	Ø10	1/2	600	679	679	401	500	120	390	460	615	923	40	420	
SKMD-200		9	8/2.7	6.7/2.2	3/1 4/12P											0.25/0.08 4/12P	20/6	17/6	0.25/0.08 4/12P							732	732
SKH-200	2	6	8	6.7	3 4P	40	40/20	20	17	0.25 4P	40	40/20	Ø8	2/4	600	701	701	462	850	120	390	460	615	923	40	450	
SKHD-200		9	8/2.7	6.7/2.2	3/1 4/12P											0.25/0.08 4/12P	20/6	17/6	0.25/0.08 4/12P							788	788
SKL-300	3	6	4.4	3.7	3 4P	40	40/20	21	18	0.4 4P	40	40/20	Ø10	1/4	650	729	729	465	850	150	425	495	725	1030	45	530	
SKLD-300		9	4.4/1.5	3.7/1.2	3/1 4/12P											0.4/0.13 4/12P	21/7	18/6	0.4/0.13 4/12P							801	801
SGM-300	3	6	8	6.7	3 4P	40	40/20	21	18	0.4 4P	40	40/20	Ø12	1/2	750	702	814	477	850	150	495	495	660	968	45	490	
SGMD-300		9	8/2.7	6.7/2.2	3/1 4/12P											0.4/0.13 4/12P	21/7	18/6	0.4/0.13 4/12P							804	916
SGH-300	3	6	8	6.7	3 4P	40	40/20	21	18	0.4 4P	40	40/20	Ø10	2/4	750	754	865	529	850	150	495	495	635	940	45	520	
SGHD-300		9	8/2.7	6.7/2.2	3/1 4/12P											0.4/0.13 4/12P	21/7	18/6	0.4/0.13 4/12P							827	939
SGL-500	5	6	4.4	3.7	3 4P	40	40/20	21	18	0.75 4P	40	40/20	Ø16	1/4	700	754	865	529	850	150	495	545	725	1030	45	570	
SGLD-500		9	4.4/1.5	3.7/1.2	3/1 4/12P											0.75/0.25 4/12P	21/7	18/6	0.75/0.25 4/12P							827	939
		12														974	1085	749	1150								630

- 1.R/F=Reeving/falling numbers. 2.Dual speed model under green shadow. 3.Traversing pinion 2 ton M3.5x15t, 3-5 ton, M3.5x23t.  
4.Traversing motor standard supply, 50 Hz or 60Hz all used 4 pole, or please specify. 5.Traversing motor: 2 ton used planetary reducing gear motor, 3-5 ton used reducing gear motor.



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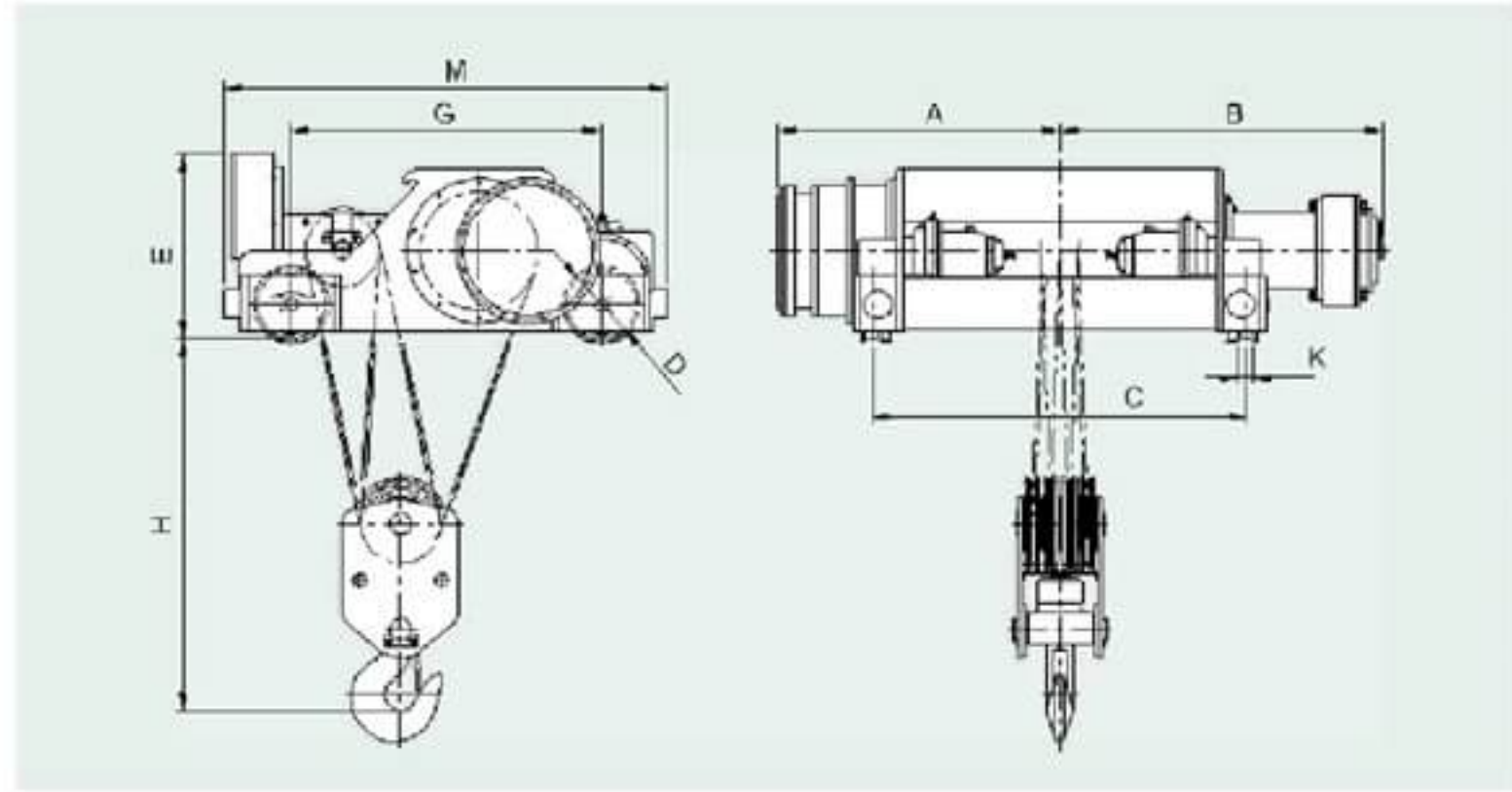


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## SFA series



### SPECIFICATIONS & DIMENSIONS:

Model	Capacity (ton)	Lift (m)	Hoisting				Traversing				Wire Rope		Approximate Dimension (mm)										Approximate Weight (kg)		
			Speed (m/min)		Motor kw/pole	ED %	Speed (m/min)		Motor kw/pole	ED %	Ømm	R/F	H	A	B		C	D	E	G	K	M			
			60Hz	50Hz			Single	Dual							Single	Dual								Single	Dual
SFAH-1500	15	8	6.1	5.1	18.5 4P	40	40/20	18	15	1.5 4P	40	40/20	Ø18	2/4	1600	1007	1140	1235	1150	200	725	1150	60	1475	2115
SFAHD-1500		10	6.1/2.0	5.1/1.7	18.5/6.2 4/12P			18/6	15/5	1.5/6.5 4/12P						1053	1186	1281	1400						2351
SFAJ-3000		17	3.0	2.5	18.5 4P			21	17.5	1.5X2 4P						1113	1246	1343	1400						2500
SFAJD-3000	30	10	3.0/1.0	2.5/0.8	18.5/6.2 4/12P	40	40/20	21/7	17.5/5.8	1.5/6.5X2 4/12P	40	40/20	Ø18	2/8	1800	1213	1346	1443	1600	300	730	1336	70	1936	2725
		17														1313	1446	1543	1800						2950

1.R/F=Reeving/falling numbers.

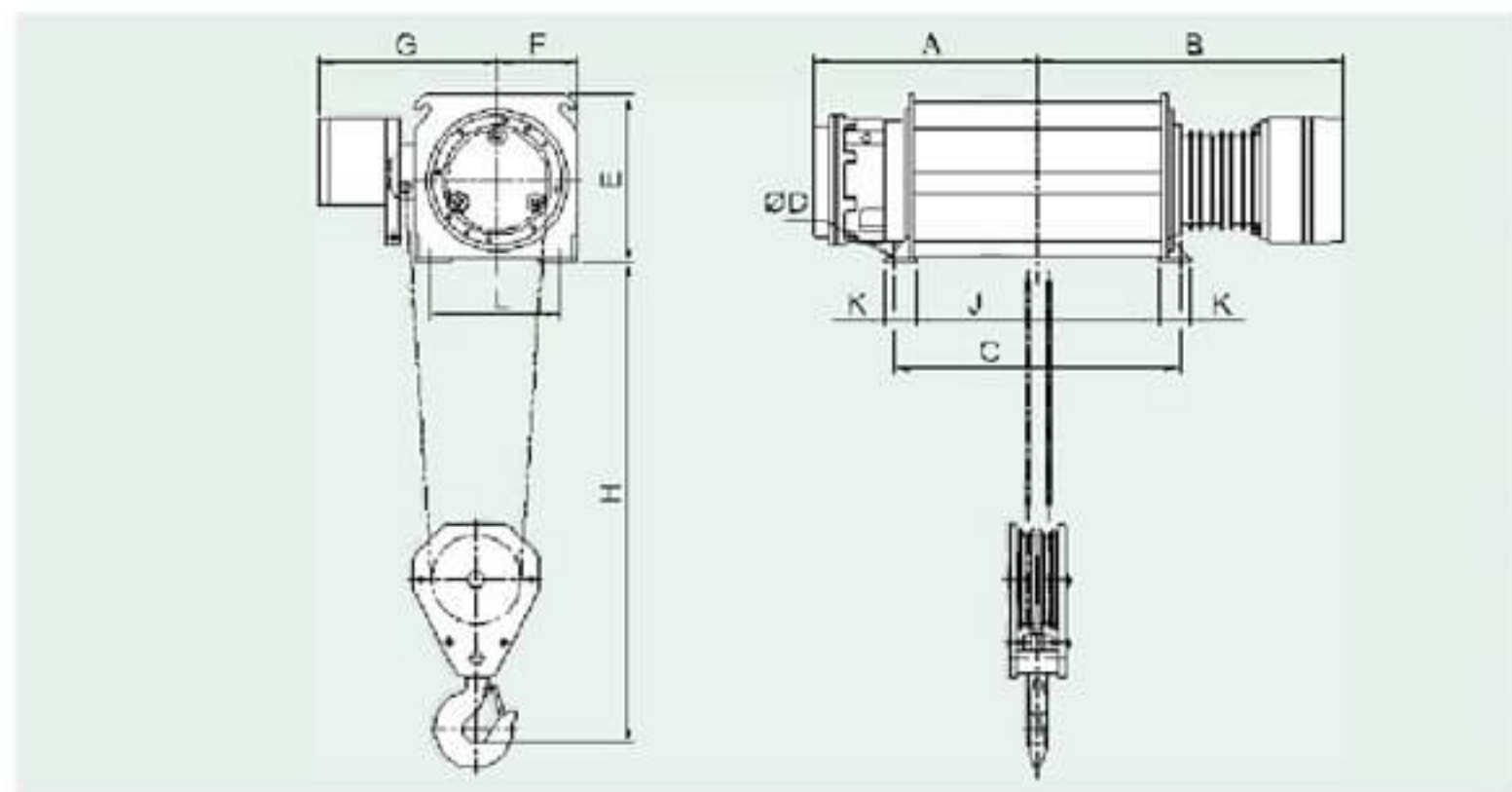
2.Dual speed model under green shadow.

3.Traversing pinion M4x18t.

4.Traversing motor standard supply, 50 Hz or 60Hz all used 4 pole, or please specify.

5.Traversing motor: used reducing gear motor.

## FP.FK.FG.FB series



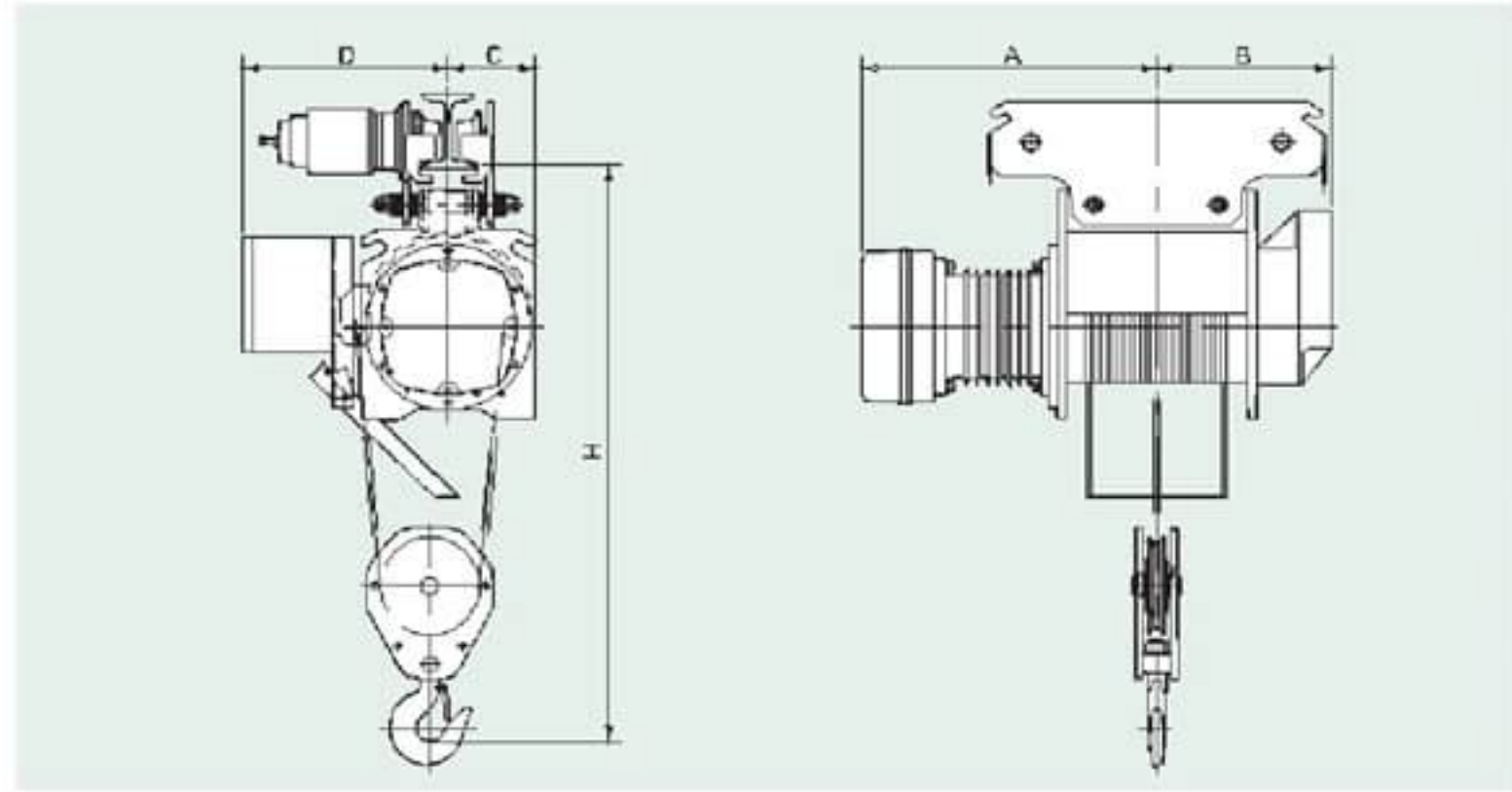
### SPECIFICATIONS & DIMENSIONS:

Model	Capacity (ton)	Lift (m)	Hoisting				Wire Rope		Approximate Dimension (mm)										Approximate Weight (kg)	
			Speed (m/min)		Motor kw/pole	ED %	Ømm	R/F	H	A	B	C	D	E	F	G	J	K		L
			60Hz	50Hz																
FPM-100	1	6	10.8	9	2.2 4P	40	Ø8	1/2	650	314	529	467	Ø16	307	150	436	353	82	280	205
		9								364	579	567					453			215
		12								414	629	667					553			225
		15								464	679	767					686			235
FKM-200	2	6	8	6.7	3 4P	40	Ø10	1/2	1150	348	627	466	Ø16	402	232	420	352	82	260	319
		9								401	679	571					457			339
		12								453	732	676					562			359
		15								506	785	781					667			379
FKH-200	2	6	8	6.7	3 4P	40	Ø8	2/4	1150	422	701	614	Ø16	402	232	433	500	82	260	359
		9								509	788	788					674			399
		12								596	875	961					847			439
		15								682	961	1134					1020			479
FGM-300	3	6	8	6.7	5 4P	40	Ø12	1/2	1250	435	661	482	Ø16	442	185	430	368	82	280	330
		9								477	703	565					451			350
		12								579	805	770					656			370
		15								634	860	880					764			390
FKL-300	3	6	4.4	3.7	3 4P	40	Ø10	1/4	1100	450	729	670	Ø16	372	275	443	556	82	310	350
		9								523	801	815					701			390
		12								675	953	1119					1005			430
		15								814	1092	1398					1284			470
FGH-300	3	6	8	6.7	5 4P	40	Ø10	2/4	1250	529	754	670	Ø16	442	185	443	556	82	280	330
		9								602	827	815					781			365
		12								719	944	1049					935			395
		15								814	1039	1235					1125			425
FGL-500	5	6	4.4	3.7	5 4P	40	Ø10	1/4	1100	529	754	670	Ø16	442	285	453	556	82	330	413
		9								602	827	815					701			433
		12								749	974	1109					995			490
		15								859	1084	1329					1215			640
FBH-500	5	6	7.3	6.1	7.5 4P	40	Ø10	2/4	1300	553	776	670	Ø16	452	215	483	556	82	350	483
		9								603	826	770					656			523
		12								743	966	1049					935			603
		15								838	1061	1239					1125			683

1.R/F=Reeving/falling numbers.



## TP.TK.TG series

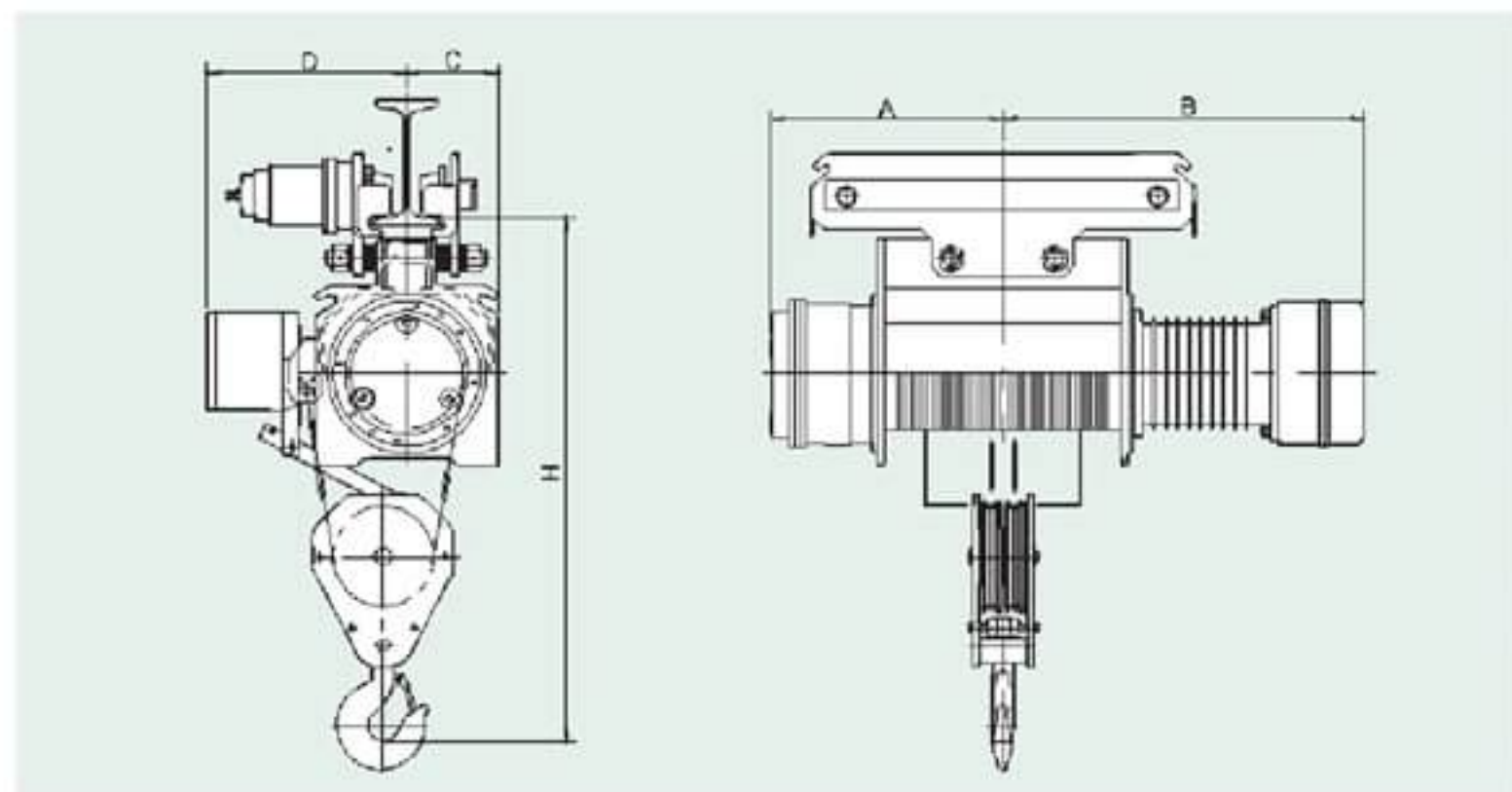


### SPECIFICATIONS & DIMENSIONS:

Model	Capacity (ton)	Lift (m)	Hoisting		ED %		Traversing		ED %		Wire Rope		Approximate Dimension(mm)						Approximate Weight (kg)						
			Speed(m/min) 60Hz	50Hz	Motor kw/pole	Single	Dual	Speed(m/min) 60Hz	50Hz	Motor kw/pole	Single	Dual	Ømm	R/F	H	A		B		C		D		Adjust for Std. I-Beam (mm)	
TPM-100	1	6	10.8	9	2.2	40	40/20	24	20	0.25	40	40/20	Ø8	1/2	1050	530	610	314	210	210	390	390	75-125	246	
TPMD-100		9	10.8/3.6	9/3	2.2/0.73			24/8	20/6	0.25/0.08						630	710	364						266	
TKM-200	2	6	8	6.7	3	40	40/20	24	20	0.25	40	40/20	Ø10	1/2	1150	627	627	350	266	266	401	401	100-150	370	
TKMD-200		9	8/2.7	6.7/2.2	3/1			24/8	20/6	0.25/0.08						680	680	403						390	
TKH-200	2	6	8	6.7	3	40	40/20	24	20	0.25	40	40/20	Ø8	2/4	1150	701	701	422	262	262	403	403	100-150	400	
TKHD-200		9	8/2.7	6.7/2.2	3/1			24/8	20/6	0.25/0.08						788	788	509						420	
TKL-300	3	6	4.4	3.7	3	40	40/20	18	15	0.6	40	40/20	Ø10	1/4	1150	729	729	518	275	275	443	443	125-175	410	
TKLD-300		9	4.4/1.5	3.7/1.2	3/1			18/6	15/5	0.6/0.2						801	801	523						450	
TGM-300	3	6	8	6.7	3	40	40/20	18	15	0.6	40	40/20	Ø12	1/2	1200	660	772	435	207	245	442	442	125-175	410	
TGMD-300		9	8/2.7	6.7/2.2	3/1			18/6	15/5	0.6/0.2						702	814	477						430	
TGH-300	3	6	8	6.7	3	40	40/20	18	15	0.6	40	40/20	Ø10	2/4	1200	754	856	529	207	245	442	443	125-175	390	
TGHD-300		9	8/2.7	6.7/2.2	3/1			18/6	15/5	0.6/0.2						827	939	602						425	
TGL-500	5	6	4.4	3.7	3	40	40/20	18	15	0.6	40	40/20	Ø10	1/4	1200	754	856	564	300	300	468	468	125-175	520	
TGLD-500		9	4.4/1.5	3.7/1.2	3/1			18/6	15/5	0.6/0.2						827	939	602						540	
		12														974	1086	749							560

1.R/F=Reeving/falling numbers. 2.Dual speed model under green shadow. 3.Traversing pinion 2 ton M3.5x16t, 3-5 ton M3.5x12t.  
4.Traversing motor standard supply, 50 Hz or 60Hz all used 4 pole, or please specify.

## TB series



### SPECIFICATIONS & DIMENSIONS:

Model	Capacity (ton)	Lift (m)	Hoisting		ED %		Traversing		ED %		Wire Rope		Approximate Dimension(mm)						Adjust for Std. I-Beam (mm)	Approximate Weight (kg)					
			Speed(m/min) 60Hz	50Hz	Motor kw/pole	Single	Dual	Speed(m/min) 60Hz	50Hz	Motor kw/pole	Single	Dual	Ømm	R/F	H	A		B			C		D		
TBH-500	5	6	7.3	6.1	7.5	40	40/20	18	15	0.6	40	40/20	Ø10	2/4	1250	553	776	946	278	315	445	453	125-175	590	
TBHD-500		9	7.3/2.4	6.1/2.0	7.5/2.5			18/6	15/5	0.6/0.2						603	826	996						630	
TBI-750	7.5	6	7.3	6.1	11	40	40/20	20	17	1.1	40	40/20	Ø14	2/4	2000	608	921	1000	294	294	642	642	150-200	990	
TBHD-750		9	7.3/2.4	6.1/2.0	11/3.7			20/6	17/6	1.1/0.37						743	1056	1135						1020	
TBL-1000	10	6	5.0	4.2	11	40	40/20	18	15	1.1	40	40/20	Ø15	1/4	2000	605	903	982	380	380	640	725	150-200	970	
TBLD-1000		9	5.0/1.7	4.2/1.4	11/3.7			18/6	15/5	1.1/0.37						673	971	1050						1000	
		12														773	1071	1150							1040

1.R/F=Reeving/falling numbers. 2.Dual speed model under green shadow. 3.Traversing pinion 5 ton M3.5x12t, 7.5 ton M3.5x20t, 10 ton M3.5x23t.  
4.Traversing motor standard supply, 50 Hz or 60Hz all used 4 pole, or please specify. 5.Traversing motor: 5 ton used planetary reducing gear motor, 7-10 ton used reducing gear motor.



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# PRODUCT GUIDE

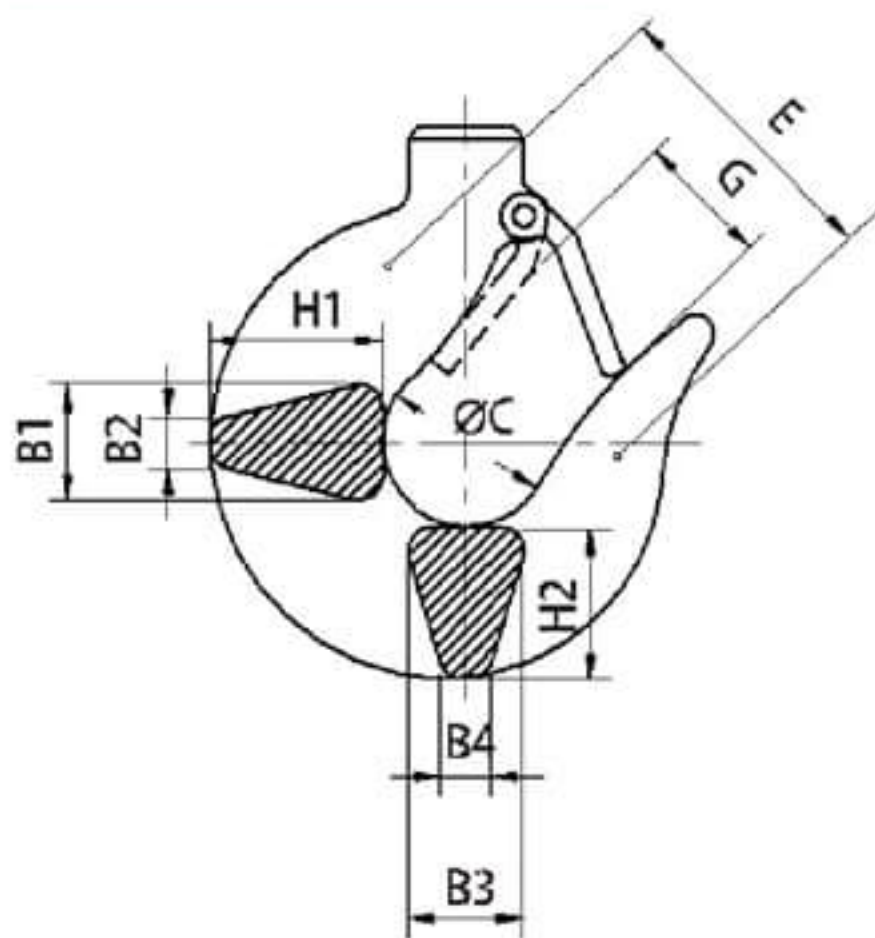
Capacity (ton)	Monorail High Speed	Crab High Speed	Footmount High Speed	Monorail Low Speed	Crab Low Speed	Footmount Low Speed	Dual Speed
1	TPM-100		FPM-100				TPMD-100
2	TKM-200	SKM-200	FKM-200				TKMD-200 SKMD-200
2	TKH-200	SKH-200	FKH-200				TKHD-200 SKHD-200
3	TGM-300	SGM-300	FGM-300	TKL-300	SKL-300	FKL-300	TGMD-300 SGMD-300 TKLD-300 SKLD-300
3	TGH-300	SGH-300	FGH-300				TGHD-300 SGHD-300
5	TBH-500	SBH-500	FBH-500	TGL-500	SGL-500	FGL-500	TBHD-500 SBHD-500 TGLD-500 SGLD-500
7.5	TBH-750	SBH-750					TBHD-750 SBHD-750
10		SCAH-1000		TBL-1000	SBL-1000		SCAHD-1000 SBLD-1000 TBLD-1000
15		SDAH-1500 SFAH-1500			SEAL-1500		SDAHD-1500 SEALD-1500 SFAHD-1500
20					SCAL-2000		SCALD-2000
30					SFAJ-3000		SFAJD-3000

## WIRE ROPE



Rope Dia (mm) d	Mode Being Used	Construction	Specified Breaking Load (kn)
Ø8	TPM-100 FPM-100 TKH-200 SKH-200 FKH-200	6x37-A	34
	TKL-300 SKL-300 FKL-300 TGH-300 SGH-300 FGH-300		53.1
Ø10	TKM-200 SKM-200 FKM-200	IWRC 6xFi(29)-B	67.7
	TGL-500 SGL-500 FGL-500 TBH-500 SBH-500 FBH-500	IWRC 6xP.Fi(29)-H	84
Ø12	TGM-300 SGM-300 FGM-300	IWRC 6xFi(29)-B	97.7
Ø14	TBH-750 SBH-750	6x37-H	123
Ø16	TBL-1000 SBL-1000 SCAH-1000	6x37-H	161
Ø18	SDAH-1500 SFAH-1500 SFAJ-3000	IWRC 6xFi(29)-H	234
Ø20	SEAL-1500		289
	SCAL-2000	IWRC 6xP.Fi(29)-H	331

## HOOK



Mode	Capacity (ton)	Dimension (mm)									Allow Stress (kg/mm <sup>2</sup> )	Hook Block Weight (kg)
		H1	B1	B2	H2	B3	B4	C	G	E		
T:FPM	1	33	23	9	29	23	9	40	27	55	70	10
T:F:SKM	2	45	31	10	41	31	10	45	33	70	70	30
T:F:SKH												
T:F:SGM	3(2.8)	57	38	12	52	38	12	60	42	100	70	40
T:F:SKL												
T:F:SGH												
T:F:SGL	5	75	48	16	68	48	16	75	56	105	70	50
T:F:SBH												
T:SBH	7.5	85	61	22	77	61	22	85	62	140	70	90
T:SBL	10	100	70	28	95	65	28	100	70	130	70	150
SCAH												
SDAH	15	120	85	32	110	83	32	120	82	165	70	220
SEAL												
SFAH												
SCAL	20	140	100	38	130	95	38	140	105	220	70	290
SFAJ	30	140	98	38	130	94	38	140	105	220	100	420



- POWER SUPPLY :**
  - ▲ Electric wire rope hoist suits majority of the 3-Phase power in different countries, available in 50Hz or 60Hz, voltage from 220V up to 600V.
  - ▲ Dual-volt hoist subject to our confirmation.
- PUSH BUTTON SWITCH:**
  - ▲ 2-point type : up and down.
  - ▲ 4-point type : up and down ; left and right (trolley).
  - ▲ 6-point type : up and down ; left and right ; forward and reverse (end carrier)
- LIFTING HEIGHT :**
  - ▲ Standard lifting height : Please refer to specifications.
  - ▲ Optional height available upon request.



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## FEDERATION EUROPEENNE DE LA MANUTENTION

Load spectrum	Cubic mean value Definitions	Average operating time per day in hours							
		0.25-0.5	0.5-1	1-2	2-4	4-8	8-16	> 16	
1 (light)	( $k \leq 0.50$ ) Mechanisms or parts thereof, usually subject to very small loads and in exceptional cases only to maximum loads.	0.25-0.5	0.5-1	1-2	2-4	4-8	8-16	> 16	
2 (medium)	( $0.50 < k \leq 0.63$ ) Mechanisms or parts thereof, usually subject to small loads but rather often to maximum loads.	0.12-0.25	0.25-0.5	0.5-1	1-2	2-4	4-8	8-16	> 16
3 (heavy)	( $0.63 < k \leq 0.80$ ) Mechanisms or parts thereof, usually subject to medium loads but frequently to maximum loads.	$\leq 0.12$	0.12-0.25	0.25-0.5	0.5-1	1-2	2-4	4-8	8-16
4 (very heavy)	( $0.80 < k \leq 1$ ) Mechanisms or parts thereof, usually subject to maximum or almost to maximum loads.		$\leq 0.12$	0.12-0.25	0.25-0.5	0.5-1	1-2	2-4	4-8
Classification of Mechanisms FEM 9.511		1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m

## ISO/FEM (9.511)

### Classification of mechanisms:

1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m
M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8

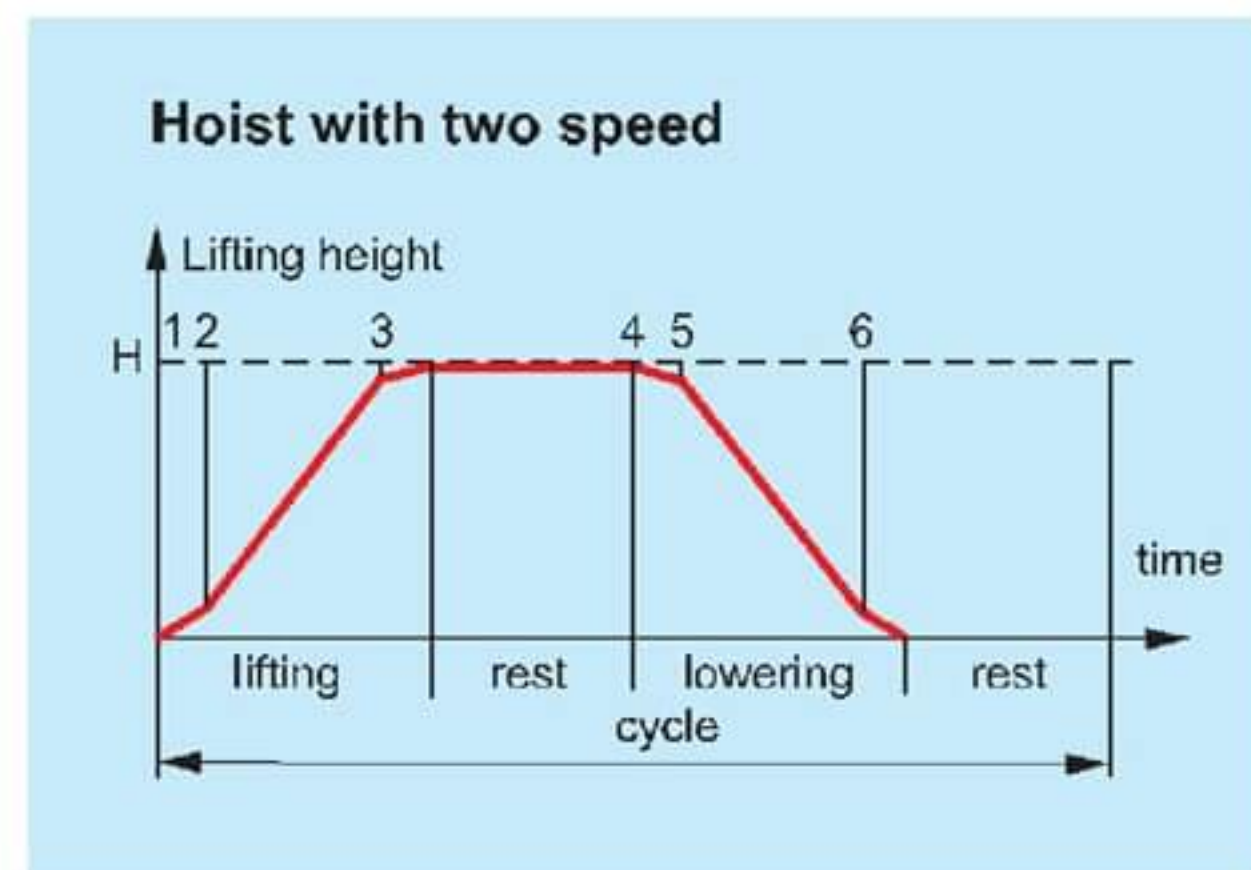
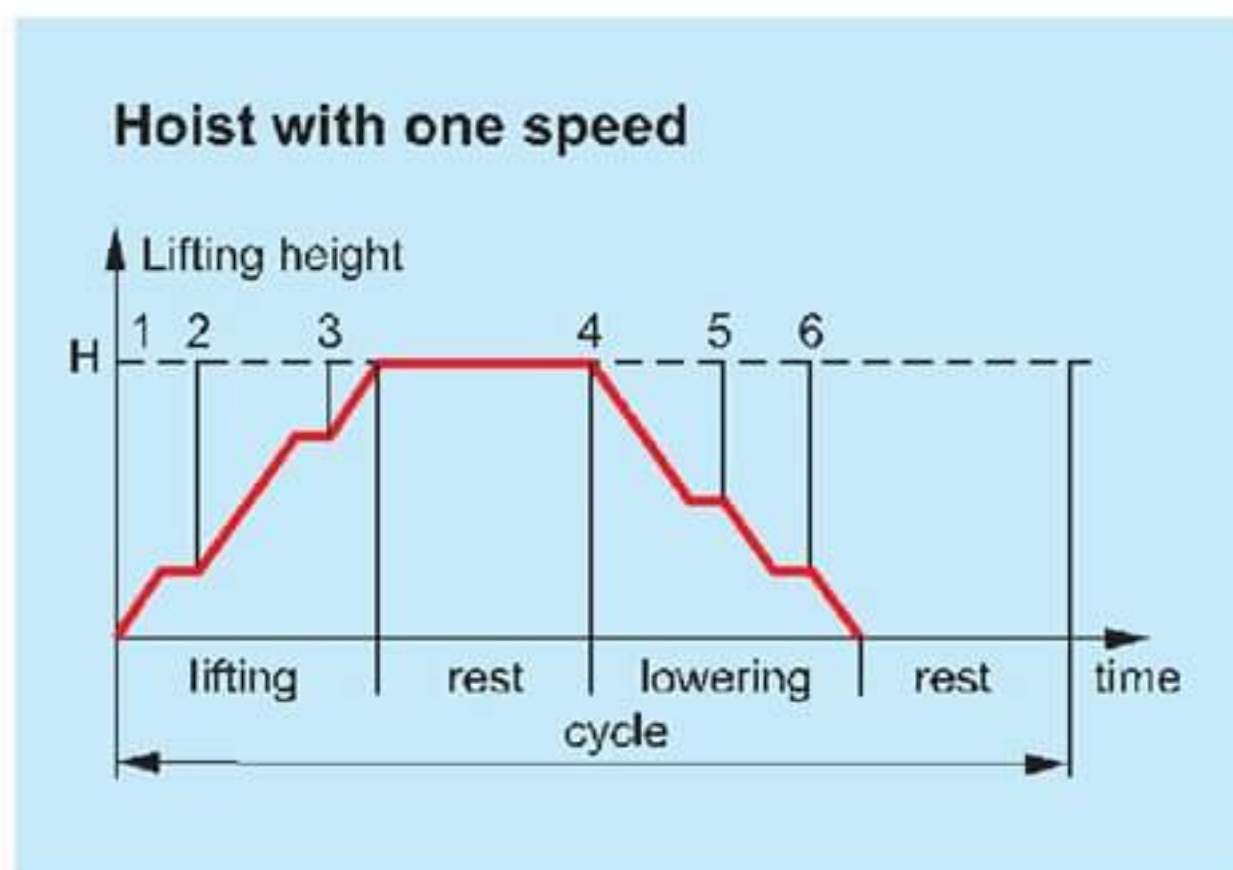
### Classification of mechanisms into groups:

Load spectrum	Cubic mean value	Class of operation time									
		V0.06	V0.12	V0.25	V0.5	V1	V2	V3	V4	V5	
		T0	T1	T2	T3	T4	T5	T6	T7	T8	
		Average operating time per day in hours									
		$\leq 0.12$	$\leq 0.25$	$\leq 0.5$	$\leq 1$	$\leq 2$	$\leq 4$	$\leq 8$	$\leq 16$	> 16	
1 L1	$k \leq 0.50$			1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	
2 L2	$0.50 < k \leq 0.63$		1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m	
3 L3	$0.63 < k \leq 0.80$	1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m		
4 L4	$0.80 < k \leq 1.00$	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m			

### Class of operating time:

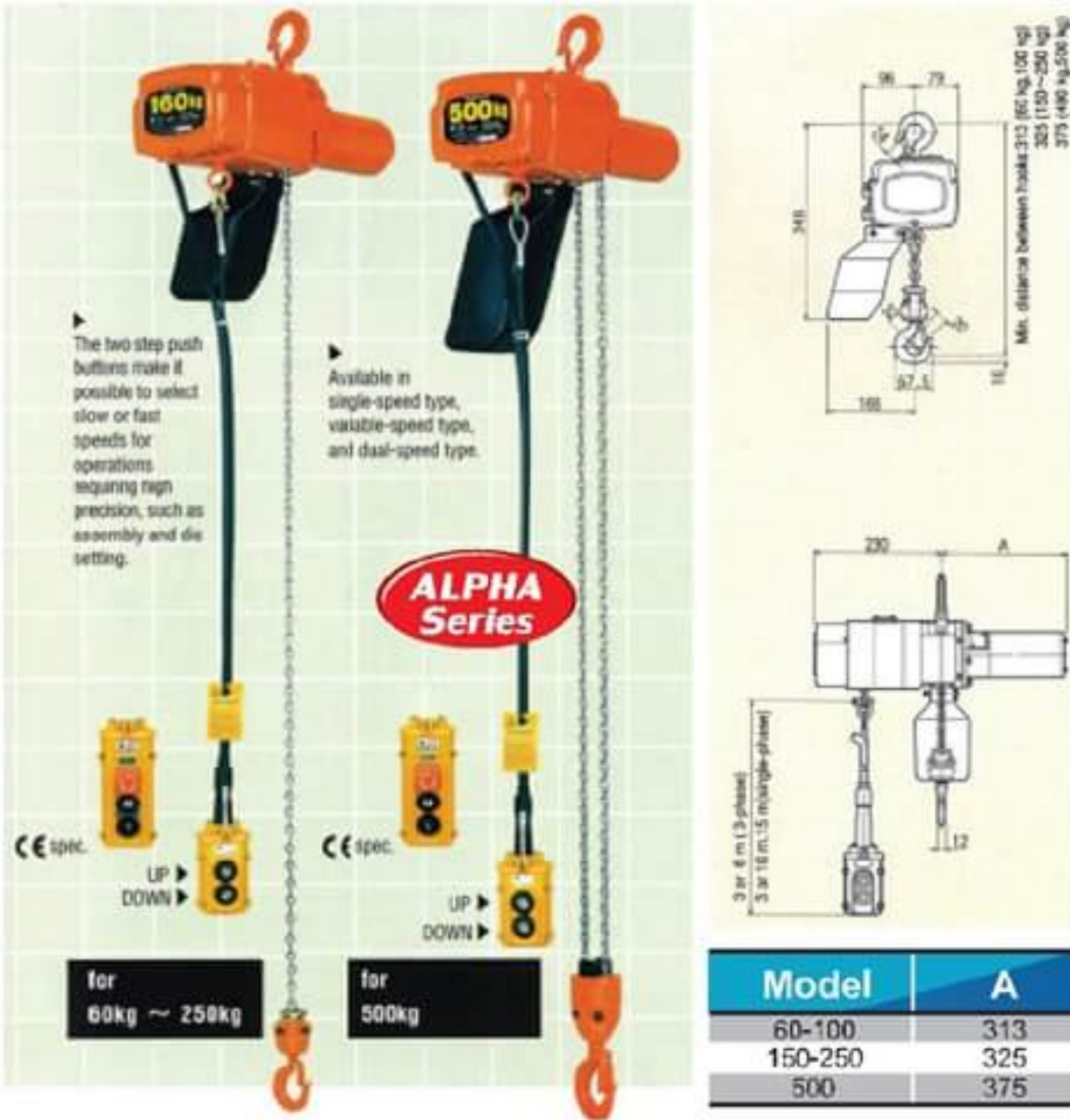
Class of operation time	Average operating time per day (in hours)	Calculated total operating time in hours
V0.06   T0	$\leq 0.12$	200
V0.12   T1	$\leq 0.25$	400
V0.25   T2	$\leq 0.5$	800
V0.5   T3	$\leq 1$	1600
V1   T4	$\leq 2$	3200
V2   T5	$\leq 4$	6300
V3   T6	$\leq 8$	12500
V4   T7	$\leq 16$	25000
V5   T8	> 16	50000

## OPERATION CYCLE





# รอกโซ่ไฟฟ้า ELECTRIC CHAIN BLOCK



Model	A
60-100	313
150-250	325
500	375

3. ตัวเครื่องทำจากอะลูมิเนียม ทำให้ทำงานได้เงียบ, ซึ่งสามารถใช้งานได้ใน โรงพยาบาล, โรงเรียน, บ้านเรือน หรือร้านค้า
4. รุ่น 2 สาย 200 กก. มีน้ำหนักเครื่อง 15 กก. และรุ่น 3 สาย 250 กก. มีน้ำหนัก 16.5 กก. ซึ่งทำให้เคลื่อนย้ายได้สะดวก, ตัวเครื่องขนาดสั้นและระยะโซ่ที่ไม่ยาวมาก ทำให้ติดตั้งได้ กับห้องที่เพดานต่ำ
5. กลไกเบรกที่มีประสิทธิภาพ ระบบเบรกของ รอก Elephant ใช้วัสดุที่ไม่มีเส้นใย ซึ่งจะมีประสิทธิภาพสูง เหมาะกับการทำงานหนักๆ และมีอายุในการใช้งานยาวนาน
6. โซ่ ที่มีความแข็งแรงสูง เหมาะกับงานหนักๆ เป็นโซ่ที่มีการเคลือบผิวแบบพิเศษ ป้องกันการเกิดสนิม หรือการกัดกร่อนจากการใช้งานกลางแจ้ง ทำให้การใช้งานได้นาน โซ่สามารถรับแรงดึงได้ 900 Mpa
7. โซ่ของรอก Elephant ได้รับมาตรฐาน DIN 5684 ซึ่งเป็นมาตรฐานที่มีความเข้มงวดสูง ที่สุดอันหนึ่ง ซึ่งใช้รุ่น JIS CT (G80) สามารถรับแรงดึงได้ 900 Mpa
8. ตะขอตัวล่าง-บน ที่ทำงานได้ราบเรียบ พร้อมตัวแป้นป้องกัน เพื่อความปลอดภัย ในกรณีที่ Overload ตะขอจะค่อยๆ ใช้งานออก แต่จะไม่หัก กลับลูกปืนที่ตะขอล่างทำให้เปลี่ยนทิศทางการยกได้ง่าย

## คุณสมบัติ ALPHA-Type

1. ALPHA Type จะใช้โซ่สีขาว, ตัวเครื่องแข็งแรง, ประหยัด, ทน และกระจัดรัด
2. การออกแบบที่กระจัดรัด เพื่อความปลอดภัย และให้กำลังสูง ALPHA Type 2 สาย สามารถรับน้ำหนักได้ 500 กก. และรุ่นสามสายก็สามารถรับน้ำหนักได้ 500 กก. รอกทุกรุ่นจะมีกลไกป้องกันการบรรทุกเกิน (Overload) และระบบเบรกที่ดี และปลอดภัย

### Series 1 & 3 Phase

รุ่น	กำลังยก (T.)	ระบบ (เกียร์)	ระยะยก (M.)	ขนาดโซ่ (MM.xPitch)	ความเร็วยก (M./Min)	มอเตอร์รอกยก (kw.)	ระยะห่างตะขอ (MM.)	3M (Price)	6M (Price)
SA-025	0.25	2	3/6	6.3x19(1)	7.0	0.45-220v	555	CALL	CALL
SA-05	0.5	2	3/6	6.3x19(1)	3.5	0.45-220v	555	CALL	CALL
SA-1S	1.0	2	3/6	6.3x19(2)	1.8	0.45-220v	670	CALL	CALL
SA-1W	1.0	2	3/6	6.3x19(1)	3.6	0.45-220v	670	CALL	CALL
H-01	0.1	2	3	4.3x12(1)	13	0.3-220v	313	CALL	CALL
H-025	0.25	2	3	4.3x12(1)	10	0.6-220v	325	CALL	CALL
H-05	0.5	2	3	4.3x12(2)	5	0.6-220v	375	CALL	CALL
HV-01	0.1	2	3	4.3x12(1)	4 ~ 13	0.3-220v	313	CALL	CALL
HV-025	0.25	2	3	4.3x12(1)	4 ~ 10	0.6-220v	325	CALL	CALL
HV-05	0.5	2	3	4.3x12(2)	0.5 ~ 5	0.6-220v	375	CALL	CALL
HB-01	0.1	2	3	4.3x12(1)	4/13	0.3-220v	313	CALL	CALL
HB-025	0.25	2	3	4.3x12(1)	4/10	0.6-220v	325	CALL	CALL
HB-05	0.5	2	3	4.3x12(2)	2/5	0.6-220v	375	CALL	CALL
C-015	0.15	2	3	4.3x12(1)	9	0.55-380v	325	CALL	CALL
C-025	0.25	2	3	4.3x12(1)	9	0.55-380v	325	CALL	CALL
C-05	0.5	2	3	4.3x12(2)	4.5	0.55-380v	375	CALL	CALL

## คุณสมบัติ

FAH -Type, FA-Type & SA-Type

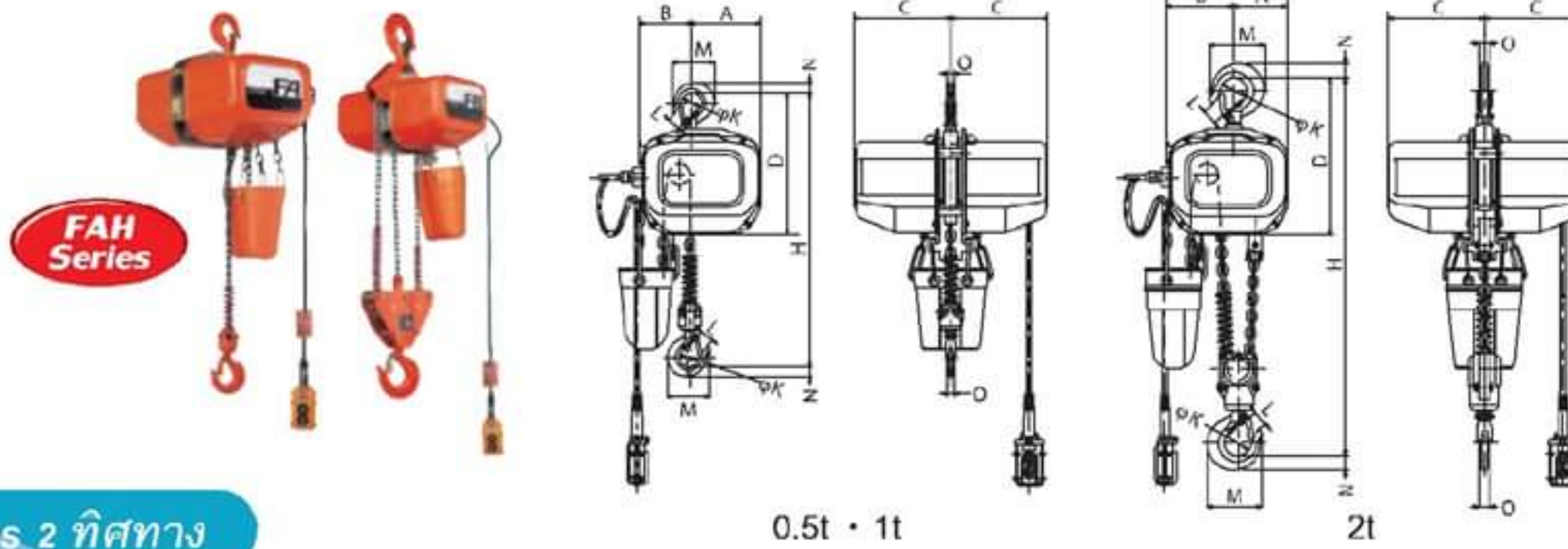
## คุณภาพ! และมีประสิทธิภาพสูง ลดต้นทุนได้

- 1.) **มอเตอร์** ออกแบบให้ใช้กับงานหนัก มีความแข็งแรง
- 2.) **เบรก** แม่เหล็กไฟฟ้ากระแสตรง ที่มีความแม่นยำ
- 3.) **โซ่** โซ่ซึ่งผลิตจากโรงงานของเราเอง ที่มีความทนทานสูง
- 4.) **โครงสร้าง** ทำจากโลหะ แบบปิดมิดชิด
- 5.) **ระบบสาย** ระบบสายใช้การต่อที่ไม่ยุ่งยาก
- 6.) **กล่อง** ใสโซ่ทำจากวัสดุที่ทนทาน





**สลิงไฟฟ้า ELECTRIC CHAIN BLOCK**

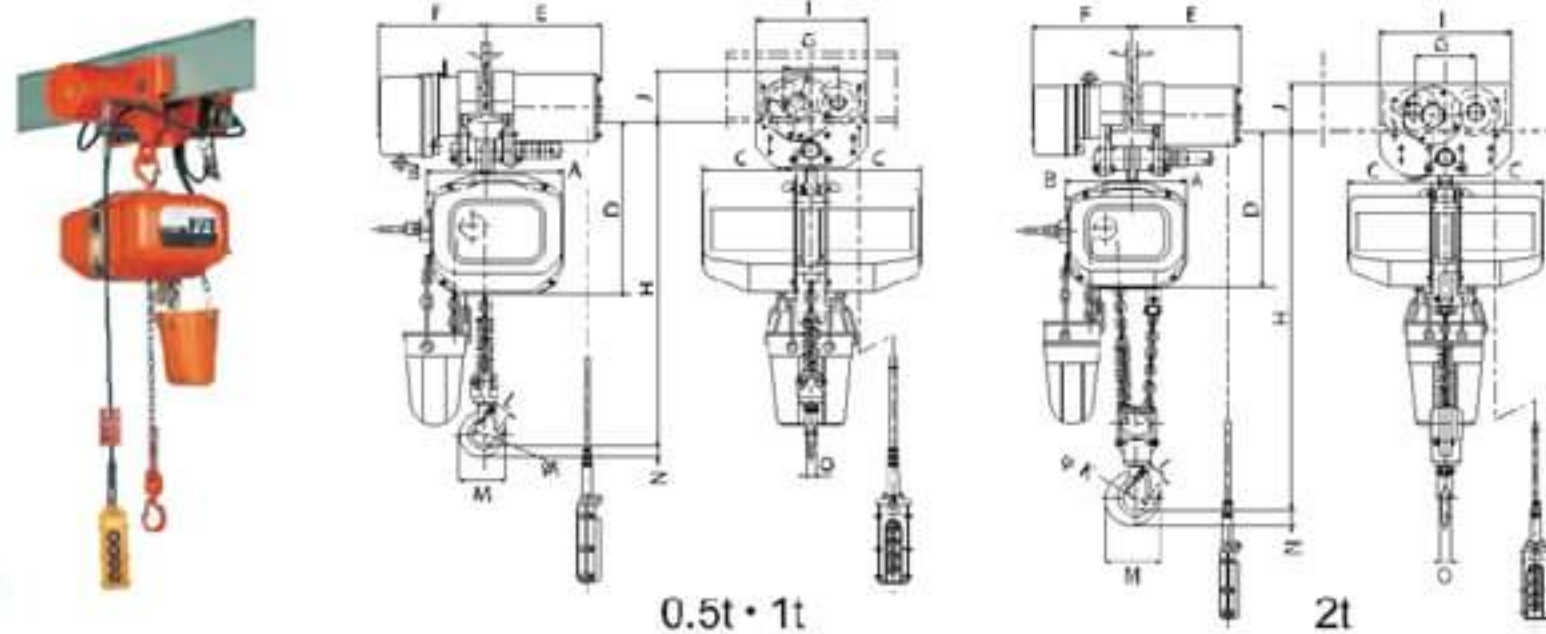


**FAH Series 2 ทิศทาง**

รุ่น	กำลังยก (T.)	Test Load (T.)	ระบบ (กิก)	ระยะยก (M.)	ขนาดโซ่ (MM.xPitch)	ความเร็ว (M./Min)	มอเตอร์รอกยก (Kw.) (380v)	ระยะห่างตะขอ (MM.)	น้ำหนัก (Kg.)	3M (Price)	6M (Price)
FAH-0.5	0.5	0.625	2	3/6	6.3x19(1)	7	0.9	555	46	CALL	CALL
FAH-1	1	1.25	2	3/6	7.1x21(1)	6.3	1.6	590	60	CALL	CALL
FAH-2	2	2.5	2	3/6	7.1x21(2)	3.1	1.6	745	71	CALL	CALL
FB-0.5	0.5	0.625	2	3/6	6.3x19(1)	7.0 : 1.8	0.9 : 0.25	555	47	CALL	CALL
FB-1	1	1.25	2	3/6	7.1x21(1)	6.3 : 1.6	1.6 : 0.4	590	61	CALL	CALL
FB-2	2	2.5	2	3/6	7.1x21(2)	3.1 : 0.8	1.6 : 0.4	745	72	CALL	CALL

MODEL	A	B	C	D	K	L	M	N	O
FAH-0.5	161	124	224	316.5	43	26.5	84	19	14
FAH-1	170	128	239	349	50	31	103	25	19
FAH-2	133	165	239	386.5	65	38	135.5	35	26
FB-0.5	161	124	224	316.5	43	26.5	84	19	14
FB-1	170	128	239	340	50	31	103	25	19
FB-2	133	165	239	386.5	65	38	135.5	35	26

**FAHM Series 4 ทิศทาง**



รุ่น	กำลังยก (T.)	Test Load (T.)	ระบบ (กิก)	ระยะยก (M.)	ขนาดโซ่ (MM.xPitch)	ความเร็ว (M./Min)	มอเตอร์รอกยก (Kw.) (380v)	ระยะห่างตะขอ (MM.)	ความเร็ววิ่ง (M./Min)	น้ำหนัก (Kg.)	3M (Price)	6M (Price)
FAHM-0.5	0.5	0.625	4	3/6	6.3x19(1)	7	0.9	695	20	77	CALL	CALL
FAHM-1	1	1.25	4	3/6	7.1x21(1)	6.3	1.6	730	20	91	CALL	CALL
FAHM-2	2.0	2.5	4	3/6	7.1x21(2)	3.1	1.6	910	20	111	CALL	CALL

MODEL	A	B	C	D*	E*	F*	G	I	*J	K	L	M	N	O
FAHM-0.5	161	124	224	456.5	251(278)	218.5	120	246	114	43	26.5	84	19	14
FAHM-1	170	128	239	489	251(278)	218.5	120	246	114	50	31	103	25	19
FAHM-2	133	165	239	550	267(294)	247	148	324	137	65	38	135.5	35	26

\*หมายถึง ค่าเปลี่ยนไปตามระยะ I-Beam

SIRIMONGKOL CORPORATION LTD.



02-9630900-2  
081-815-1345



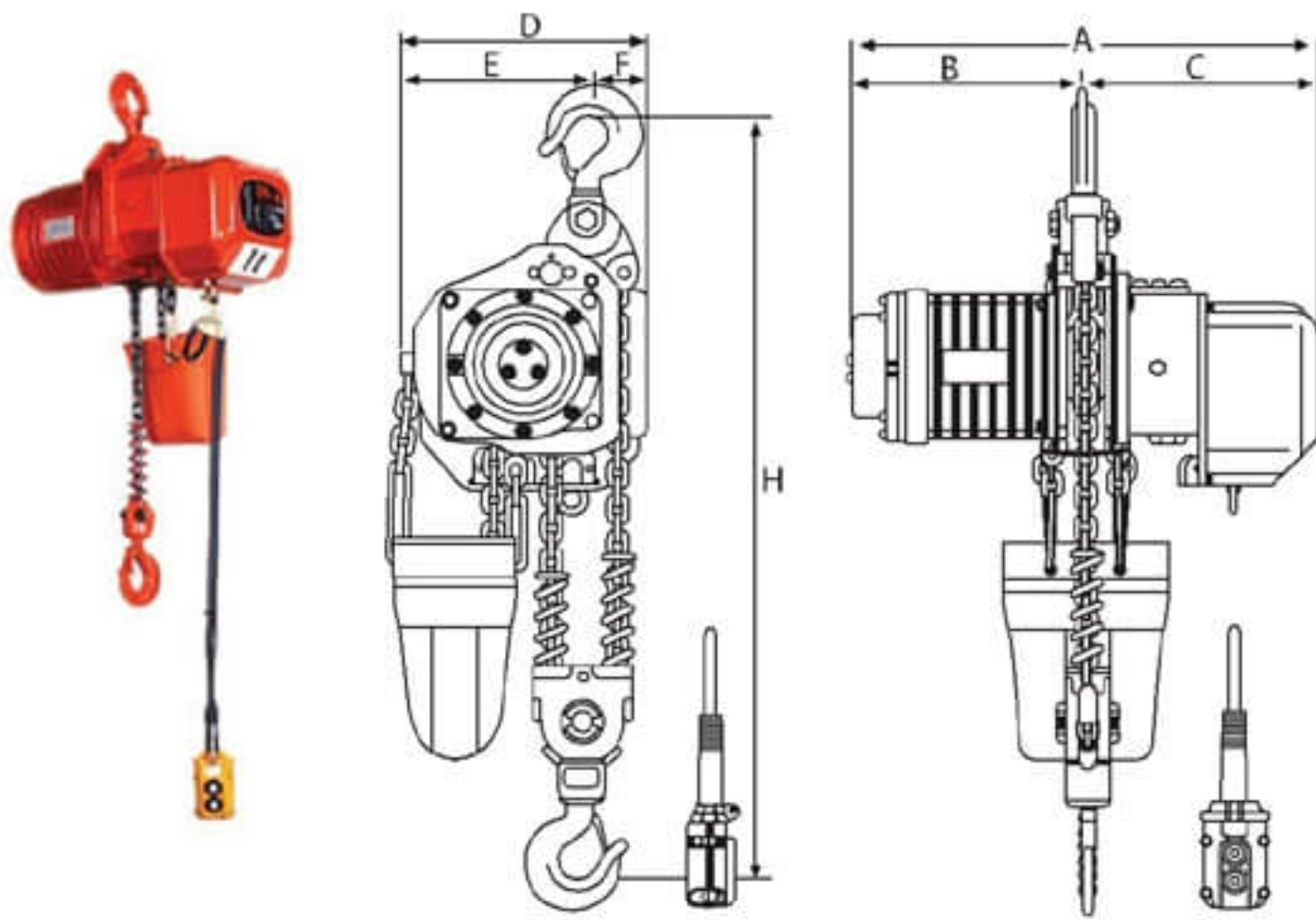
SRM.SLING@HOTMAIL.COM  
HTTP://SRMSLING.COM



39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND



# สกรูไฟฟ้า ELECTRIC CHAIN BLOCK



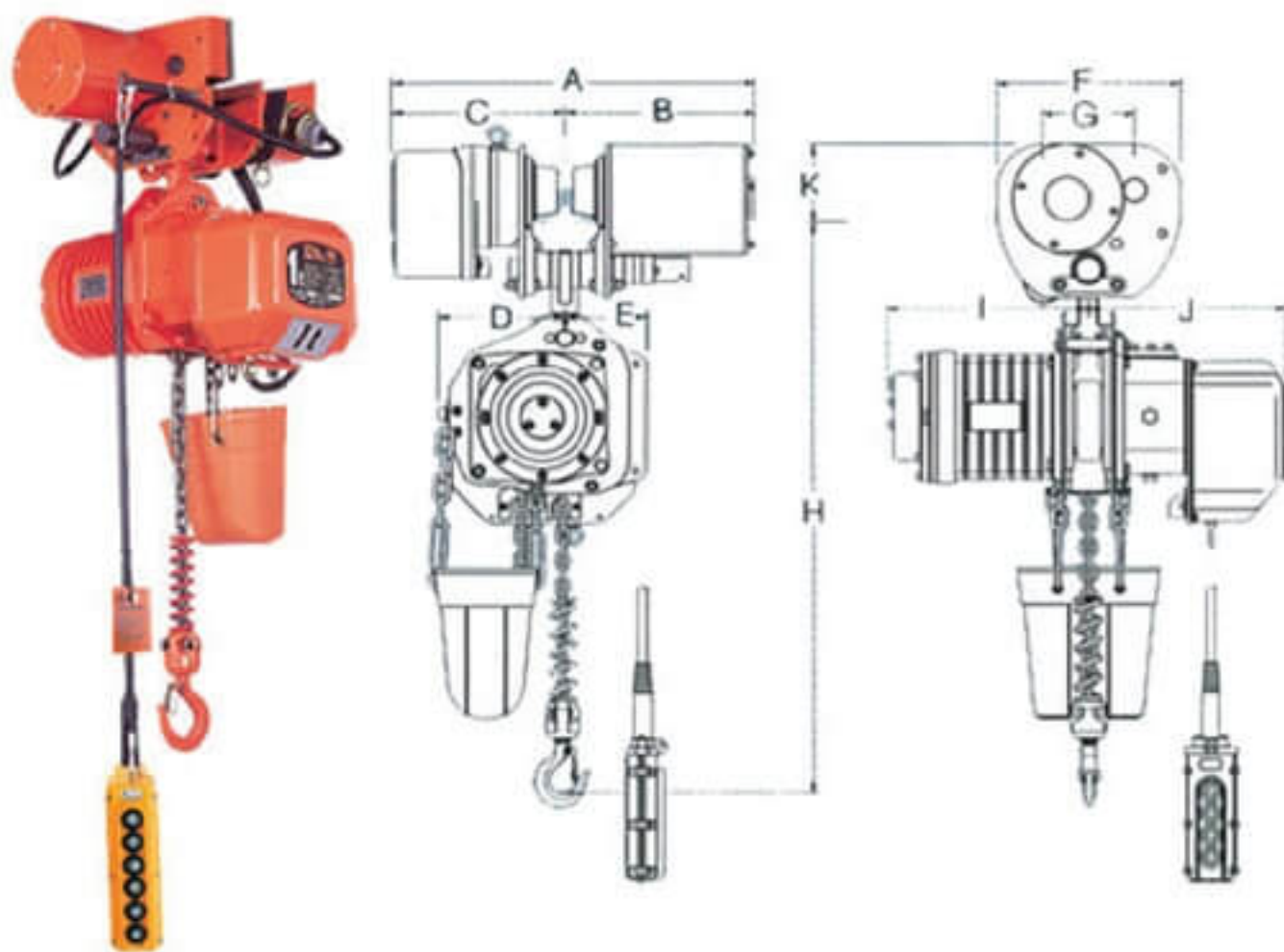
## DA /DB Series

Model	A	B	C	D	E	F	H
DA-1	564	290	274	301	174	127	-
DA-2S	655	342	313	372	198	174	-
DA-3	655	342	313	372	258	114	-
DA-5	655	342	313	372	273	102	-
DA-10	684	342	342	960	373	-	-
DB-1	619	321	321	301	174	127	-
DB-2	717	372	372	372	198	174	-
DB-3	717	372	372	372	258	114	-
DB-5	717	372	372	375	273	102	-
DB-10	-	-	-	-	-	-	-

## คุณสมบัติ DA -Type & DB-Type

รุ่นนี้! สามารถใช้งานได้หลากหลาย และทนทานต่อการทำงานหนัก

1. มอเตอร์ทนทานและแข็งแรง เพื่อให้ทำงานได้หลายสถานการณ์ จึงพัฒนามอเตอร์ขึ้นมาใหม่ เพื่อมาติดตั้งในรอกตัวนี้ ซึ่งมอเตอร์สามารถทำงานได้อย่างต่อเนื่อง แม้ใช้งานเต็มพิกัด แต่ยังคงทำงาน มีประสิทธิภาพ
2. โครงสร้างตัวรอก ถูกออกแบบมาเพื่อป้องกันฝุ่นและเก็บเสียง ป้องกันเสียงเกียร์ด้วยน้ำมัน ทำให้เครื่องเงียบและอายุการใช้งานที่ยาวนาน
3. ใช้รอกได้รับมาตรฐาน ISO และ DIN 5684 (เป็นมาตรฐานเยอรมัน) สามารถรับแรงดึงได้ 900 Mpa
4. ระบบเบรกโดยใช้แม่เหล็กไฟฟ้า โซลินอยด์กระแสตรง ซึ่งใช้ไฟในการทำงานน้อย และระบบเบรกแม่เหล็กไฟฟ้ายังทำงานร่วมกับระบบเบรกแบบกลไก จะทำให้เบรกทำงานได้อย่างสมบูรณ์มากขึ้น (ระบบเบรก 2 ชั้น)
5. กลไกการเบรกที่ถูกต้อง แม่นยำ แม้จะมี Load บนตะขอ นอกจากนั้นยังสามารถตรวจสอบการทำงานของเกียร์ได้โดยสะดวก เพราะมีโครงสร้างที่ท่อนุมเกียร์เป็นแบบเปิด
6. ลิ้มิตสวิทช์ไฟฟ้าแบบทำงาน 2 จังหวะ ที่เชื่อถือได้ในการทำงาน ชั้นที่ 1 สวิทช์จะตัดวงจรคอนโทรล ชั้นที่ 2 สวิทช์ จะตัดวงจร Power ซึ่งขึ้นตอนดังกล่าวจะทำให้อายุของการทำงานของสวิทช์นั้นยาวนานขึ้น และที่จุดหน้าสัมผัสมีความต้านทานต่ำ และมีตัวป้องกันการกลับเฟส
7. โครงสร้างมอเตอร์เป็นอลูมิเนียม ทำให้สามารถระบายความร้อนได้ดี
8. สวิทช์ควบคุมจะใช้แรงดันไฟฟ้า 24 v เพื่อความปลอดภัย
9. ตะขอเกี่ยว มีแผ่นเหล็กปิดกั้นหลุดและตะขอสามารถหมุนรอบตัวได้ 360 องศา และมีตัวลบลูกปืน ในกรณี Overload ตะขอจะค่อยๆ ว่างออก แต่ไม่หัก



## DAM Series

Model	A+2B	B+2B	C+B	D	E	F	G	I	J	K
DAM-1	482	251	231	174	127	242	120	290	274	108
DAM-2S	516	268	248	198	174	288	148	342	313	122
DAM-3	574	323	251	258	114	316	160	342	313	167
DAM-5	612	342	270	273	102	336	170	342	313	172
DAM-10	612	342	270	-	-	696	360	342	313	172





## รถโซ่ไฟฟ้า **ELECTRIC CHAIN BLOCK**



### DA /DB Series 2 ที่ศทาง

รุ่น	กำลังยก (T.)	Test Load (T.)	ระบบ (ฟุต)	ระยะยก (M.)	ขนาดโซ่ (MM.xPitch)	ความเร็วยก (M./Min)	มอเตอร์รอกยก (Kw.) 380v	ระยะห่างตะขอ (MM.)	น้ำหนัก (Kg.)	ราคา Price
DA-1	1	1.25	2	3	7.1x21(1)	6.8	1.7	585	76	CALL
DA-1	1	1.25	2	6	7.1x21(1)	6.8	1.7	585	79	CALL
DA-2S	2	2.5	2	3	11.2x34(1)	6.9	3.4	730	133	CALL
DA-2S	2	2.5	2	6	11.2x34(1)	6.9	3.4	730	141.2	CALL
DA-3	3	3.75	2	4	9.5x28.6(2)	4.35	3.4	940	145	CALL
DA-5	5	6.25	2	4	11.2x34(2)	2.75	3.4	1030	163	CALL
DA-10	10	12.5	2	4	11.2x34(4)	2.7	3.4 x 2	1390	396	CALL
DB-1	1	1.25	2	3	7.1x21(1)	6.8 : 2.2	1.7 : 0.57	585	79	CALL
DB-1	1	1.25	2	6	7.1x21(1)	6.8 : 2.2	1.7 : 0.57	585	84	CALL
DB-2 S	2	2.5	2	3	11.2x34(1)	6.9 : 2.3	3.4 : 1.14	730	92	CALL
DB-2 S	2	2.5	2	6	11.2x34(1)	6.9 : 2.3	3.4 : 1.14	730	100	CALL
DB-3	3	3.75	2	4	9.5x28.6(2)	4.35 : 1.4	3.4 : 1.14	940	162	CALL
DB-5	5	6.25	2	4	11.2x34(2)	2.75 : 0.9	3.4 : 1.14	1034	179	CALL
DB-10	10	12.5	2	4	11.2x34(4)	2.7 : 0.9	3.4 : 1.14x2	1390	396	CALL

### DAM Series 4 ที่ศทาง

รุ่น	กำลังยก (T.)	Test Load (T.)	ระบบ (ฟุต)	ระยะยก (M.)	ขนาดโซ่ (MM.xPitch)	ความเร็วยก (M./Min)	มอเตอร์รอกยก (Kw.) 380v	ระยะห่างตะขอ (MM.)	น้ำหนัก (Kg.)	ราคา Price
DAM-1	1	1.25	4	3	7.1x21(1)	6.8	1.7	620	101	CALL
DAM-1	1	1.25	4	6	7.1x21(1)	6.8	1.7	620	106	CALL
DAM-2S	2	2.5	4	3	11.2x34(1)	6.9	3.4	735	197	CALL
DAM-2S	2	2.5	4	6	11.2x34(1)	6.9	3.4	735	206	CALL
DAM-3	3	3.75	4	4	9.5x28.6(2)	4.35	3.4	960	209	CALL
DAM-5	5	6.25	4	4	11.2x34(2)	2.75	3.4	1050	246	CALL
DAM-10	10	12.5	4	4	11.2x34(4)	2.7	3.4x2	1185	619	CALL



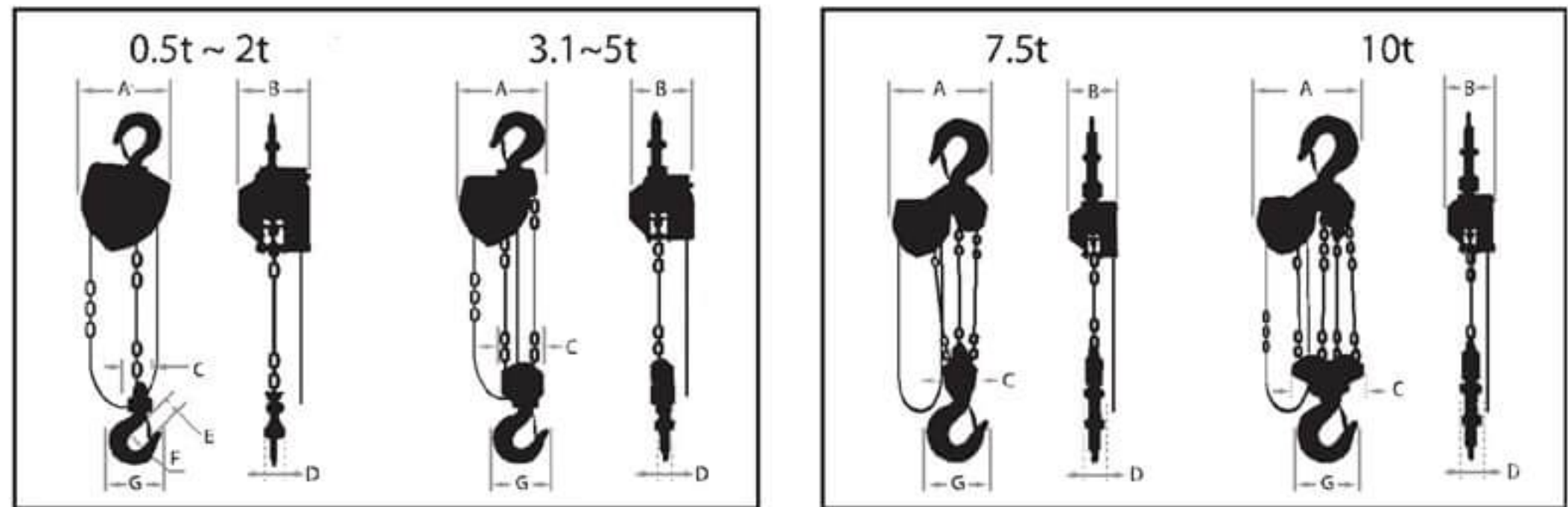
## รถแขวนรถไฟฟ้า **ELECTRIC TROLLEY**

รุ่น	กำลังยก (T.)	ระยะ I-BEAM (MM.)	ความเร็ววิ่ง (M./Kw.)	มอเตอร์รอกวิ่ง (Kw.) 380v	ราคา Price
MAF-0.5	0.5	75 - 125	20	0.4	CALL
MAF-1	1	75 - 125	20	0.4	CALL
MAF-2	2	100 - 150	20	0.4	CALL
MAF-3	3	100 - 150	20	0.75	CALL
MAF-5	5	125 - 175	20	0.75	CALL



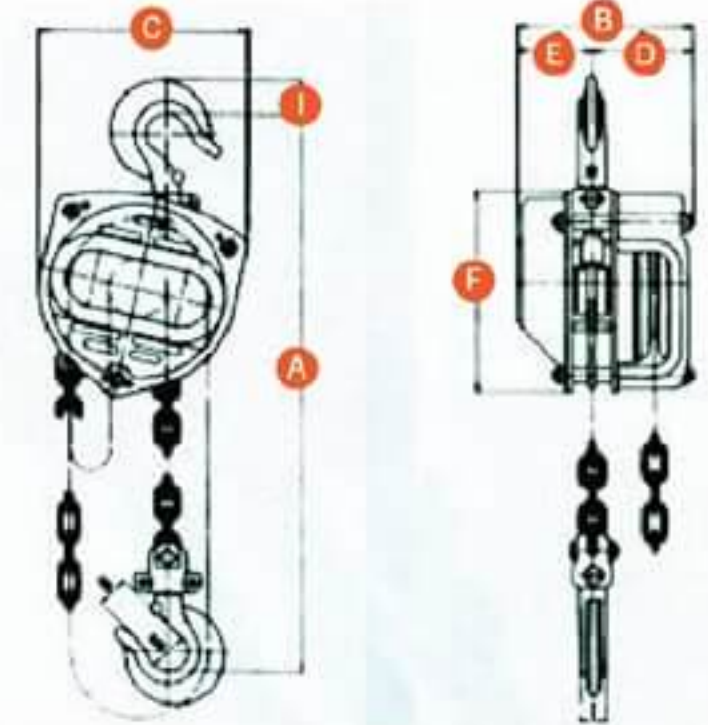


**รถขึงมวล CHAIN BLOCK**



รุ่น	รับน้ำหนัก (T.)	ระยะยก (m)	ขนาดโซ่ยก (mm. x Pitch)	ขนาดโซ่ดึง (mm.)	น้ำหนักเครื่อง (Kg.)	ราคา Price	DIMENSIONS mm						
							Capacity (TON)	A	B	C	D	E	F
KII-0.5	0.5	2.5	5x15(1)	5x23.5	9.0	CALL	0.5	140	155	58	33	26	36
KII-1	1	2.5	6.3x19(1)	5x23.5	11.4	CALL	1	160	160	62	35	30	43
KII-1.6	1.6	2.5	7.1x21(1)	5x23.5	14.7	CALL	1.6	183	167.5	65	37	35	48
KII-2	2	3.0	8x24(1)	5x23.5	21.0	CALL	2	215	183	66	41	38	53
KII-3	3.1	3.0	7.1x21(2)	5x23.5	24.0	CALL	3.1	230	167.5	110	62.5	44	60
KII-5	5	3.0	9x27(2)	5x23.5	39.5	CALL	5	282	190	166	78.5	53	70
KII-10	10	3.5	9x27(4)	5x23.5	82.0	CALL	10	385	190	300	98	70	85

รุ่น	รับน้ำหนัก (T.)	ระยะยก (m)	ขนาดโซ่ยก (mm. x Pitch)	ขนาดโซ่ดึง (mm.)	น้ำหนักเครื่อง (Kg.)	ราคา Price
K75-1	1	2.5	7.1x21(1)	5x22.5	13.5	CALL
K75-1.5	1.5	2.5	7.9x23(1)	6x26.5	19.5	CALL
K75-2	2	3.0	9.5x28.6(1)	6x26.5	28.0	CALL
K75-3	3	3.0	7.9x23(2)	6x26.5	31.5	CALL
K75-5	5	3.0	9.5x28.6(3)	6x26.5	62.0	CALL
K75-8	8	3.5	9.5x28.6(4)	6x26.5	125.0	CALL
K75-10	10	3.5	9.5x28.6(5)	6x26.5	146.0	CALL



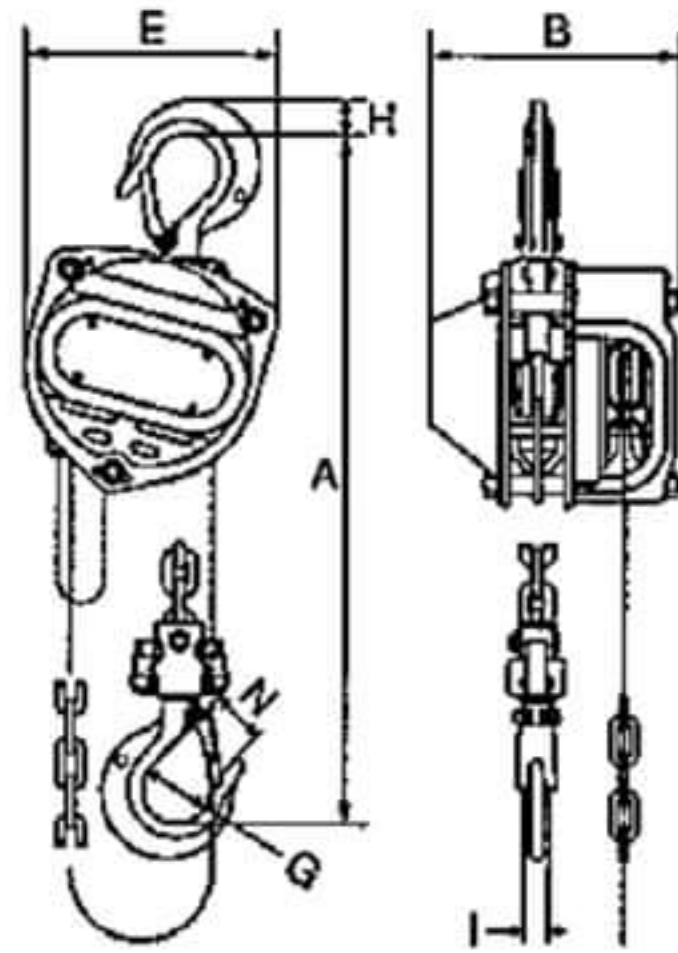
DIMENSIONS mm										
Capacity (TON)	A	B	C	D	E	F	G	H	I	J
1	320	153	181	89	64	175	35	30	22	28.5
1.5	365	169	200	95	74	201	40	32	26	33.5
2	415	182	234	99	83	233	44	36	31	39
3	580	169	230	95	74	201	52	43	33	50
5	640	182	352	99	83	233	65	50	40	51.5

Parts are subject to change without notice.

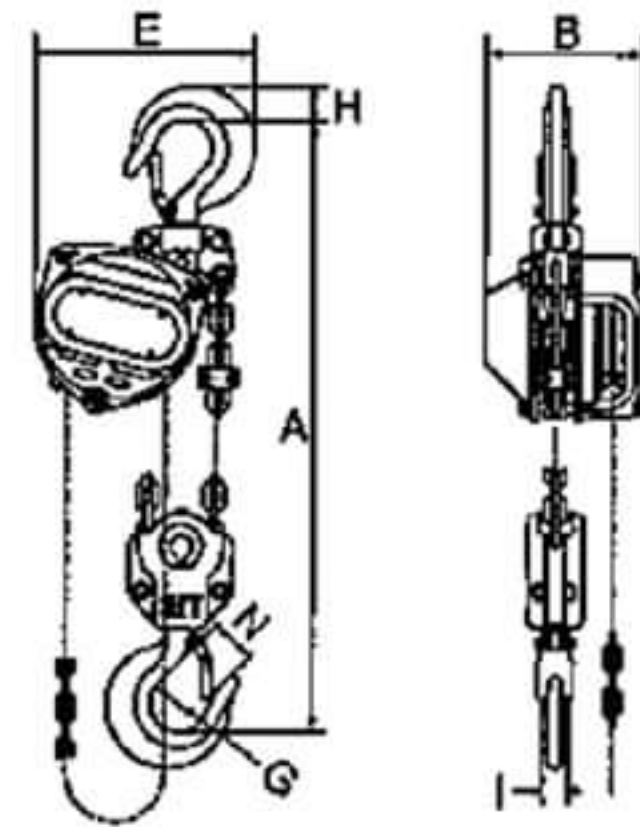




**รถขึงมวล CHAIN BLOCK  
H-100**



Type 0.5~0.25



Type 3.1~5

รุ่น	รับน้ำหนัก (Ton)	Test Load	ระยะชัก (m)	ขนาดโซ่ (mm. x Pitch)	ขนาดโซ่ตึง (mm.)	น้ำหนักเครื่อง (Kg.)	ราคา Price
H-0.5	0.5	0.75	2.5	5x15	5x23.6	9	CALL
H-1	1	1.5	2.5	6.3x19		11.4	CALL
H-1.6	1.6	2.4	2.5	7.2x21		14.7	CALL
H-2	2	3.0	3	8x24		21	CALL
H-2.5	2.5	3.75	3	9x27		25.4	CALL
H-3.1	3.1	4.65	3	7.1x21 (2)		24	CALL
H-5	5	7.5	3	9x27 (2)		39.5	CALL
H-7.5	7.5	9.5	3.5	9x27 (3)		70	CALL
H-10	10	12.5	3.5	9x27 (4)	82	CALL	
H-16	16	20.0	3.5	9x27 (6)	6x26.6	198	CALL
H-20	20	25.0	3.5	9x27 (8)		215	CALL
H-32	32	40.0	3.5	9x27 (10)		545	CALL
H-40	40	50.0	3.5	9x27 (14)		1228	CALL
H-50	50	62.5	3.5	9x27 (16)		1400	CALL

**DIMENSIONS mm**

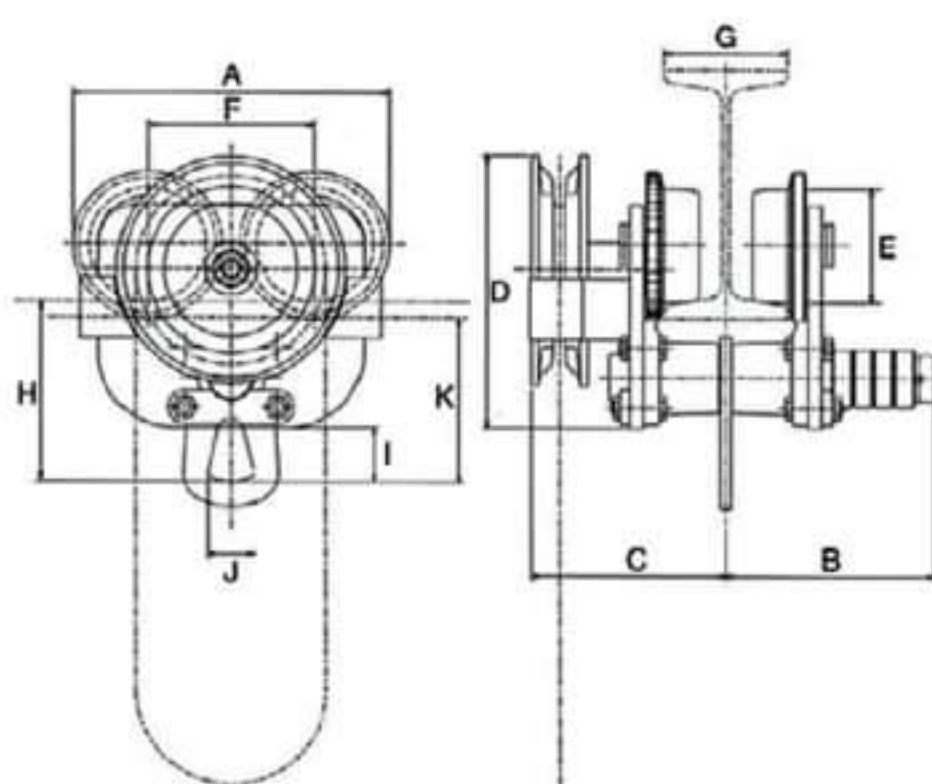
A	B	E	G	H	I	N
277	155	140	36	17	13	26
303	160	160	43	22	16	30
338	168	183	48	27	20	35
379	183	215	53	29	22	38
416	190	233	55	34.5	24	40
516	168	230	60	37	27	44
613	190	282	70	46	34	53
760	190	370	85	62.5	47.5	74
789	190	370	85	62.5	47.5	74
985	235	492	102	79	62	74
1120	361	721	112	85	70	81
1290	401	721	127	113	87	104
1450	493	731	146	137	125	111
1540	541	731	166	157	135	129

\*Dimension E fluctuates to some degree depending on the load.





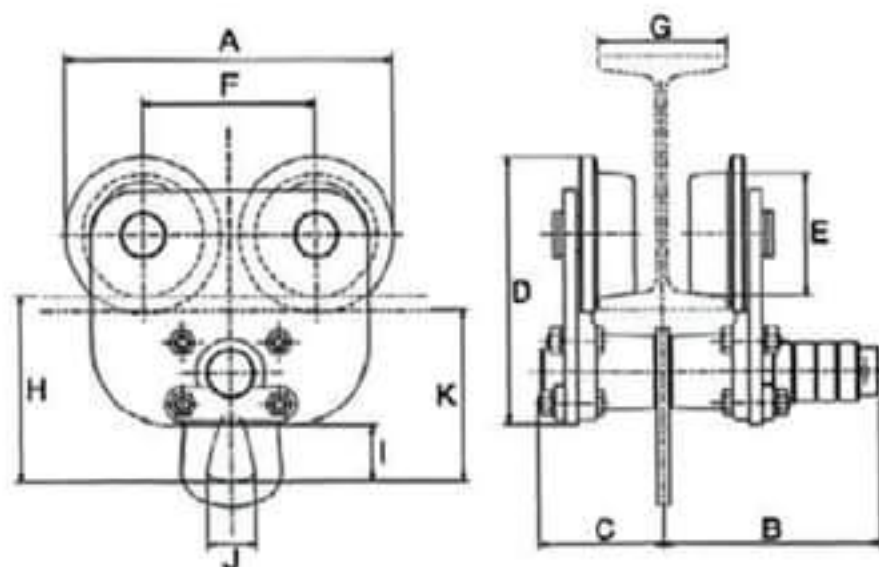
**GEAR TROLLEY**



รุ่น	รับน้ำหนัก (Ton)	ขนาดโอ-ปัม			ขนาดโซ่ตั้ง (mm.)	ระยะของสาย บ่อยสุด ของโอ-ปัม (mm.)	น้ำหนักเครื่อง (Kg.)	ราคา Price
		No Collars (mm.)	With 2 Collars (mm.)	With 4 Collars (mm.)				
G-0.5	0.5	75	100	125	5x22.5	900	12.0	CALL
G-1	1	75	100	125	6x26.6	1100	16.0	CALL
G-1.6	1.6	100	125	150	6x26.6	1200	24.5	CALL
G-2	2	100	125	150	6x26.6	1200	25.0	CALL
G-3.1	3	100	125	150	6x26.6	1700	33.5	CALL
G-5	5	125	150	175	6x26.6	2300	55.8	CALL
G-8	8	150	175	-	5x23.6	3000	107.0	CALL
G-10	10	150	175	-	5x23.6	3000	117.0	CALL
G-15	15	175	190	-	5x23.6	6000	315.0	CALL
G-20	20	175	190	-	5x23.6	6000	420.0	CALL
G-30	30	190	-	-	5x23.6	12000	600.0	CALL

รุ่น	A	B	C	D	E	F	G	H	I	J	K
G-0.5	190.5	125.5	118.5	164	70	100.5	75-100-125	108	33	28	100
G-1	221	125.5	123.5	187	80	116	75-100-125	112	32	30	104
G-1.6	258.5	143	136	233	98	136	100-125-150	150	52	40	140
G-2	258.5	143	136	233	98	136	100-125-150	150	52	40	140
G-3.1	287.5	144	137	253	115	150	100-125-150	178	65	50	168
G-5	326.5	165.5	165.5	301	125	169	125-150-175	223	75	60	210
G-8	434	188	188	308	158	220	150-175	246	100	80	233
G-10	434	188	188	308	158	220	150-175	246	100	80	233
G-15	580	231	231	443	197	295	175-190	272	86	95	247
G-20	580	231	231	443	197	295	175-190	272	86	95	247
G-30	933.5	304	304	578	245	600	190	588	185	150	563

**PLAIN TROLLEY**



รุ่น	รับน้ำหนัก (Ton)	ขนาดโอ-ปัม			ระยะของสาย บ่อยสุด ของโอ-ปัม (mm.)	น้ำหนักเครื่อง (Kg.)	ราคา Price
		No Collars (mm.)	With 2 Collars (mm.)	With 4 Collars (mm.)			
P-0.5	0.5	75	100	125	900	8.0	CALL
P-1	1	75	100	125	1100	11.0	CALL
P-1.6	1.6	100	125	150	1200	19.0	CALL
P-2	2	100	125	150	1200	19.0	CALL
P-3.1	3	100	125	150	1700	27.0	CALL
P-5	5	125	150	170	2300	48.5	CALL
P-8	8	150	175	-	3000	98.0	CALL
P-10	10	150	175	-	3000	100.0	CALL
P-15	15	175	190	-	6000	295.0	CALL
P-20	20	175	190	-	6000	400.0	CALL

รุ่น	A	B	C	D	E	F	G	H	I	J	K
P-0.5	190.5	125.5	75.5	155	70	100.5	75-100-125	108	33	28	100
P-1	221	125.5	73.5	172	80	116	75-100-125	112	32	30	104
P-1.6	258.5	143	94	208	98	136	100-125-150	150	52	40	140
P-2	258.5	143	94	208	98	136	100-125-150	150	52	40	140
P-3.1	287.5	144	97	239	115	150	100-125-150	178	65	50	168
P-5	326.5	165.5	123.5	289	125	169	125-150-175	223	75	60	210
P-8	434	176.5	176.5	332	158	220	150-175	246	100	80	233
P-10	434	176.5	176.5	332	158	220	150-175	246	100	80	233
P-15	577	231	231	463	197	295	175-190	272	86	95	247
P-20	577	231	231	463	197	295	175-190	272	86	95	247

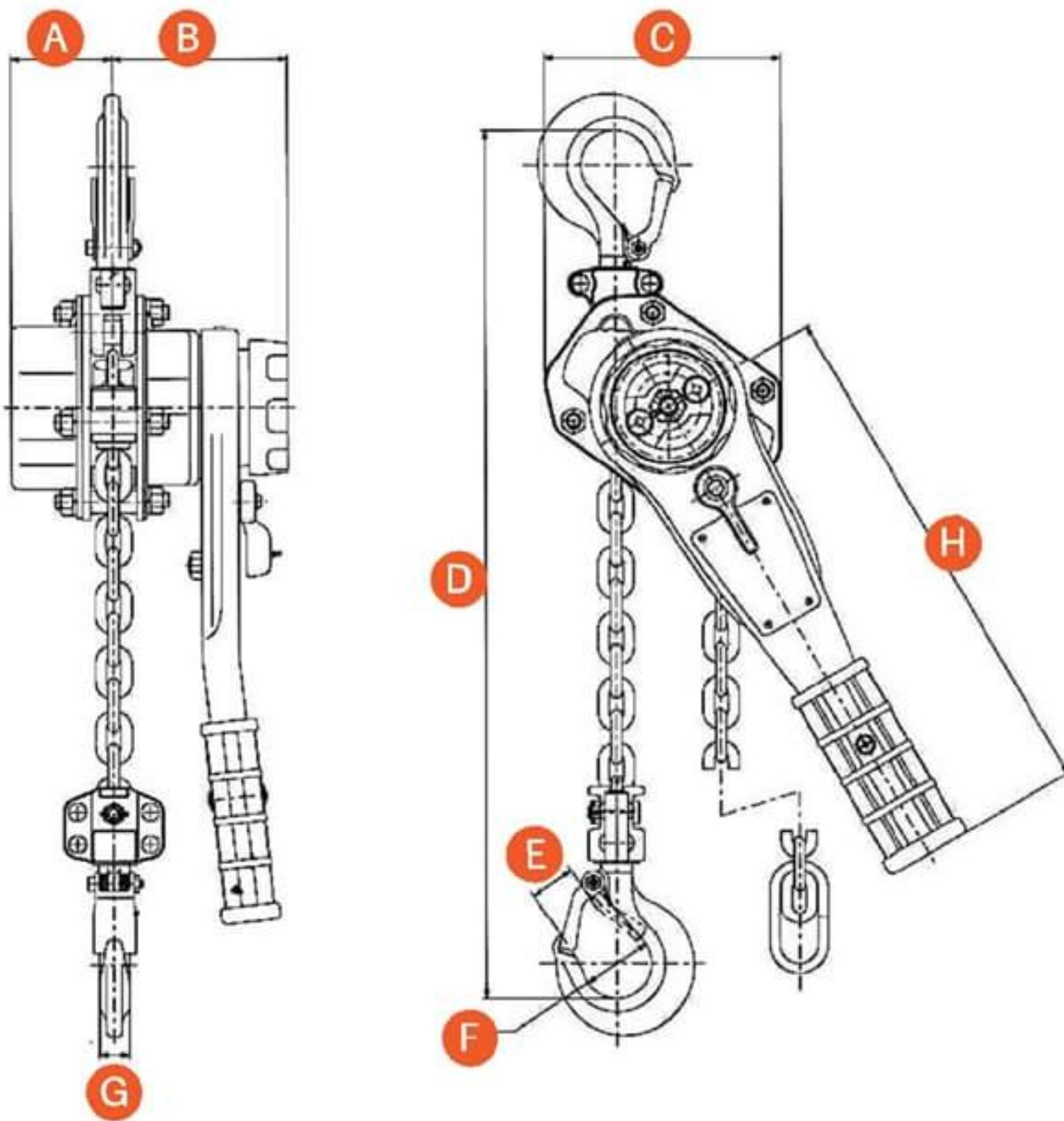




## รอกโซ่มือโยก LEVER BLOCK

### คุณสมบัติ

1. ใช้ทนการกัดกร่อนสูงโดยมีการใช้เทคโนโลยี MECHANICAL ZINC COATED เคลือบโซ่ ซึ่งแตกต่างจากยี่ห้ออื่นๆ จึงเหมาะกับการใช้งานที่ต้องการความทนทานสูง
2. ลื่นลื่นกับหลอดชนิดใหม่ เพิ่มร่องที่ลื่นลื่นกับหลอด (Safety Latch) ทำให้ลื่นลื่น และ ตะขอแบบกระชับสนิท ป้องกันการหลุดมากขึ้น และเพิ่มความปลอดภัยระดับสูง
3. รูปทรงกำโยกใหม่ โดยออกแบบรูปทรงกำโยกเป็นชนิดโค้งที่จุดหมุน เพิ่มความคล่องตัวในการทำงานที่พื้นที่จำกัด ทำให้การหมุนไม่ติดขัดเหมือนยี่ห้ออื่นๆ
4. ระบบเบรคชนิดใหม่ รอกโซ่มือโยกตราช้าง รุ่น YA-Series ปฏิวัติระบบเบรคโดยใช้หลัก Mechanical Brake ที่มีในรอกโซ่ไฟฟ้าชนิดงานหนัก เพื่อความปลอดภัยสูงสุด
5. ง่ายในการปรับจุดหมุนฟรี เพียงการปรับเพียงเล็กน้อย



YA Series



รุ่น	A	B	C	D	E	F	G	H
YA-80	53	91	122	290	23	36	15	268
YA-160	63	99	136	352	29	43	21	310
YA-320	82.5	104	180	411	36	53	28	310
YA-630	82.5	104	235	564	47	70	34	310
YA-900	82.5	104	300	689	73	85	47.5	310

รุ่น	กำลังยก (T.)	ระยะยก (M.)	ขนาดโซ่ (MM.xPitch)	กำลังโยก (Kgf.)	ระยะห่างตะขอ (MM.)	น้ำหนักเครื่อง (Kg.)	Price
YA-80	0.8	1.5	5.6x(1)	30	290	6.0	CALL
YA-160	1.6	1.5	7.1x21(1)	30	352	9.2	CALL
YA-320	3.2	1.5	9.0x27(1)	37	411	15.5	CALL
YA-630	6.3	1.5	9.0x27(2)	38	564	26.5	CALL
YA-900	9.0	1.5	9.0x27(3)	39	689	42.0	CALL



**VITAL** Designed to Fit in the Palm of Your Hand.

# NICE LEVER NR2 0.25t-0.5t (Petit)



For plated parts,  
we use  
trivalent chromate  
treatment,  
which is  
environment friendly.



**Patented Device**

VITAL brand is registered worldwide.

**Automatic free pulley  
requires no special  
release operation.  
Greatly improves work  
efficiency!**

**Nice Lever offers following  
exceptional features!**

**1. Automatic switching to free pulley mode.**

Simply remove the load from the bottom hook and pull the chain to automatically switch to free pulley mode.

The winch automatically switches back to normal mode when a load is placed on the bottom hook. Automatic switching greatly improves work efficiency.

**2. Easy maintenance.**

The free pulley mechanism has only a few parts, making disassembly and repair a quick and easy process.

**3. Plated chain.**

The winch chain is tough-pitch plated to prevent rusting and ensure continuous smooth operation.

For transportation and  
architectural work  
For equipment installation work  
For outside work  
For use as emergency equipment



Lifting



Lowering



Fastening



Pulling



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# NICE LEVER VITAL

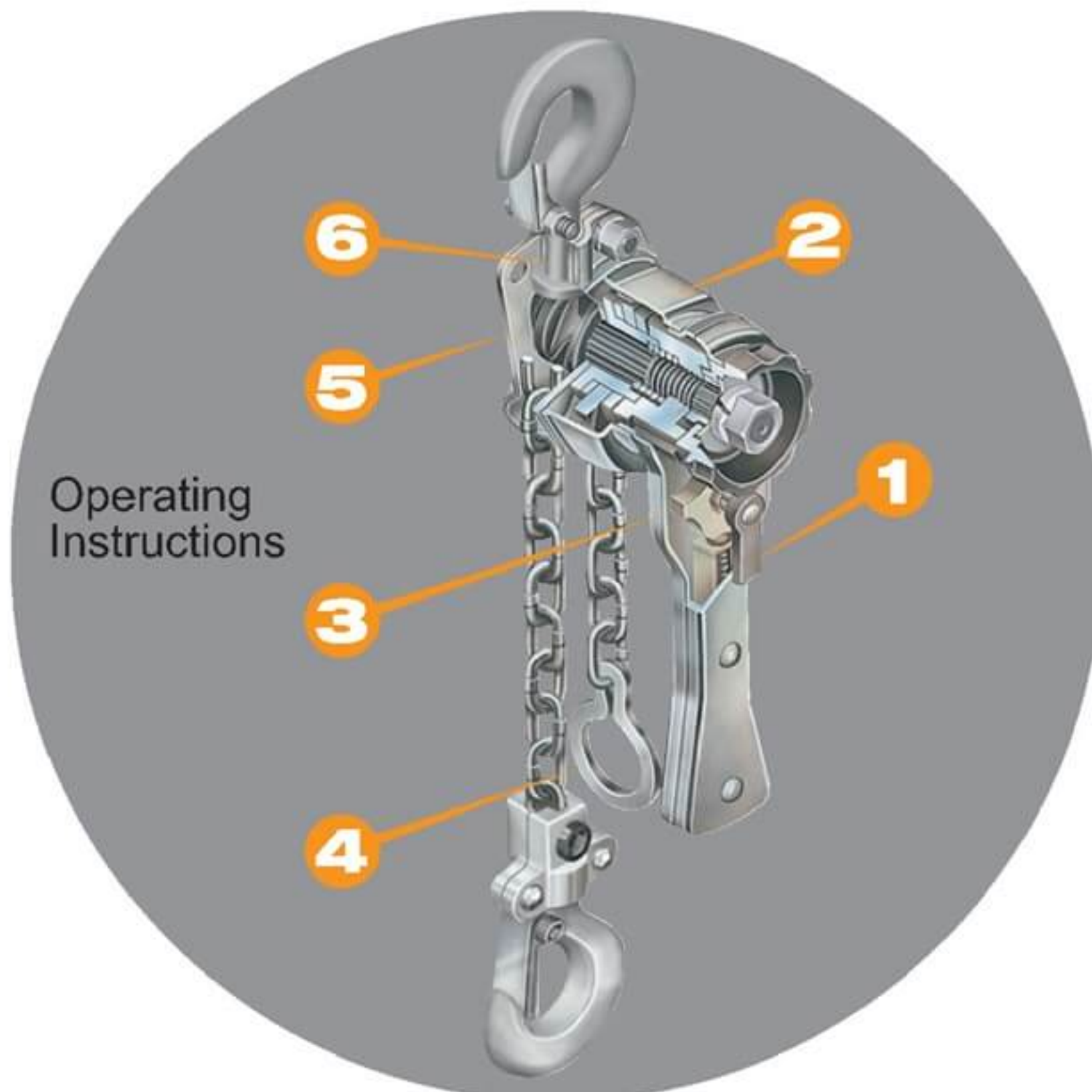
# NR2

## 0.25t-0.5t

petit

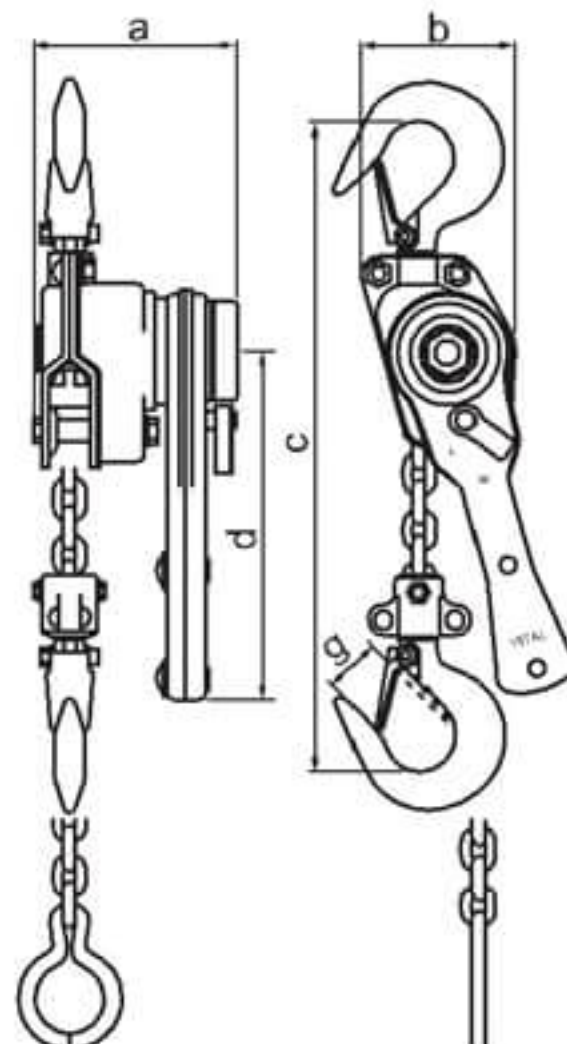
### Product Reliability (The Vital Policy)

- All Vital Nice Levers use optimum, high quality material for the chain, hook, press and other sections, and are manufactured using the latest processing technologies.
- We carefully check each and every product before shipping.



### Specifications

Model Number	NR2-03	NR2-05	
Capacity (t)	0.25	0.5	
Standard Lift (m)	1.0	1.5	
Net Weight (kg)	1.9	3.5	
Min. Distance between Hooks (mm)	230	260	
Pull Required to Lift Full Load	(kgf)	30	34
	(N)	294	333
Chain thickness (mm)	4.0	5.0	
Dimension	a (mm)	85	108
	b (mm)	65	82
	c (mm)	230	260
	d (mm)	151.5	267
	e (mm)	24	27



## Differences that make a difference!

### 1. Automatic Free Pulley Snapback

Just turn the switching lever to neutral (N) to put the winch in automatic free pulley mode, making it possible to easily adjust the chain length. A patented mechanism means you don't have to keep your hand on the lever while the winch is in free pulley mode.

### 2. Completely Sealed Break Unit

With conventional systems, there is the danger of something hitting the brake lever and causing the load to drop. This can never happen with our completely sealed brake unit, not even rain and dust can get into the unit.

### 3. The Switching Unit Is Sealed inside the Lever Section

With the exception of the switching lever, all parts of the switching unit are sealed inside the lever section, completely out of sight, so dirt and dust can not get into the switching unit.

### 4. Steel Plates on the Chain Ends

The chain ends have symmetrical pear-shaped steel plates that resist bending even when overloaded, preventing dangerous chain slippage.



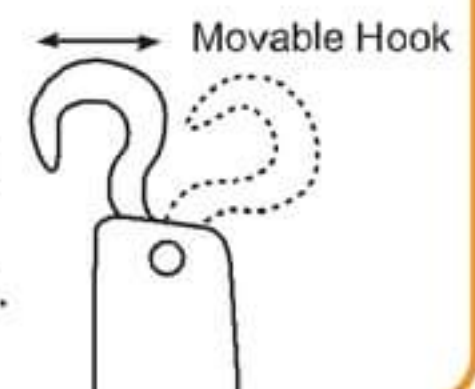
### 5. Sealed Body

The sealed body prevents rain and dirt from entering the winch mechanism, ensuring smooth chain travel and an easy to hold design.

### 6. Easy Catch Hook

The end of the hook is directly connected to the winch body so that it does not move.

This makes it possible to attach the hook with one hand, eliminating the need to hold the hook and winch separately.



Please note that the specifications on this leaflet may be modified for improvements without notice.



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**VITAL**<sup>®</sup>

**NICE POWER!  
NICE LEVER!**



For plated parts,  
we use  
trivalent chromate  
treatment,  
which is  
environment friendly.

**Patented Device**

VITAL brand is registered worldwide.

# 0.25t → 9t NICE LEVER NR2

**Automatic free pulley  
requires no special  
release operation.  
Greatly improves  
work efficiency!  
The best you'll find.**

**Nice Lever offers following  
exceptional features!**

**1. Automatic switching to free pulley mode.**

Simply remove the load from the bottom hook and pull the chain to automatically switch to free pulley mode. The winch automatically switches back to normal mode when a load is placed on the bottom hook. Automatic switching greatly improves work efficiency.

**2. Easy maintenance.**

The free pulley mechanism has only a few parts, making disassembly and repair a quick and easy process.

**3. Plated chain.**

The winch chain is tough-pitch plated to prevent rusting and ensure continuous smooth operation.

**4. Locked chain release mechanism.**

If the chain locks due to an impacting load, simply move the lever by hand to release the chain.

**5. Knobbed hook.**

The winch hook is equipped with an anti-slip knob. Even if the hook is stretched slightly, the wire rope catches on the anti-slip knob to prevent it from slipping off the hook, ensuring safe operation.



NR2 0.25t (Petit)



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# NICE LEVER NR2

**Use it to Lift, Lower, Fasten, and pull**

Use it for:

Loading a truck, centering building material at a construction site, setting up or moving machinery and other heavy objects, laying down drain pipes and hume pipes, working in narrow spaces as in shipyards and mines.



Lifting



Lowering



Fastening



Pulling



0.8~1 t



1.6 t



3.2 t



6.3 t



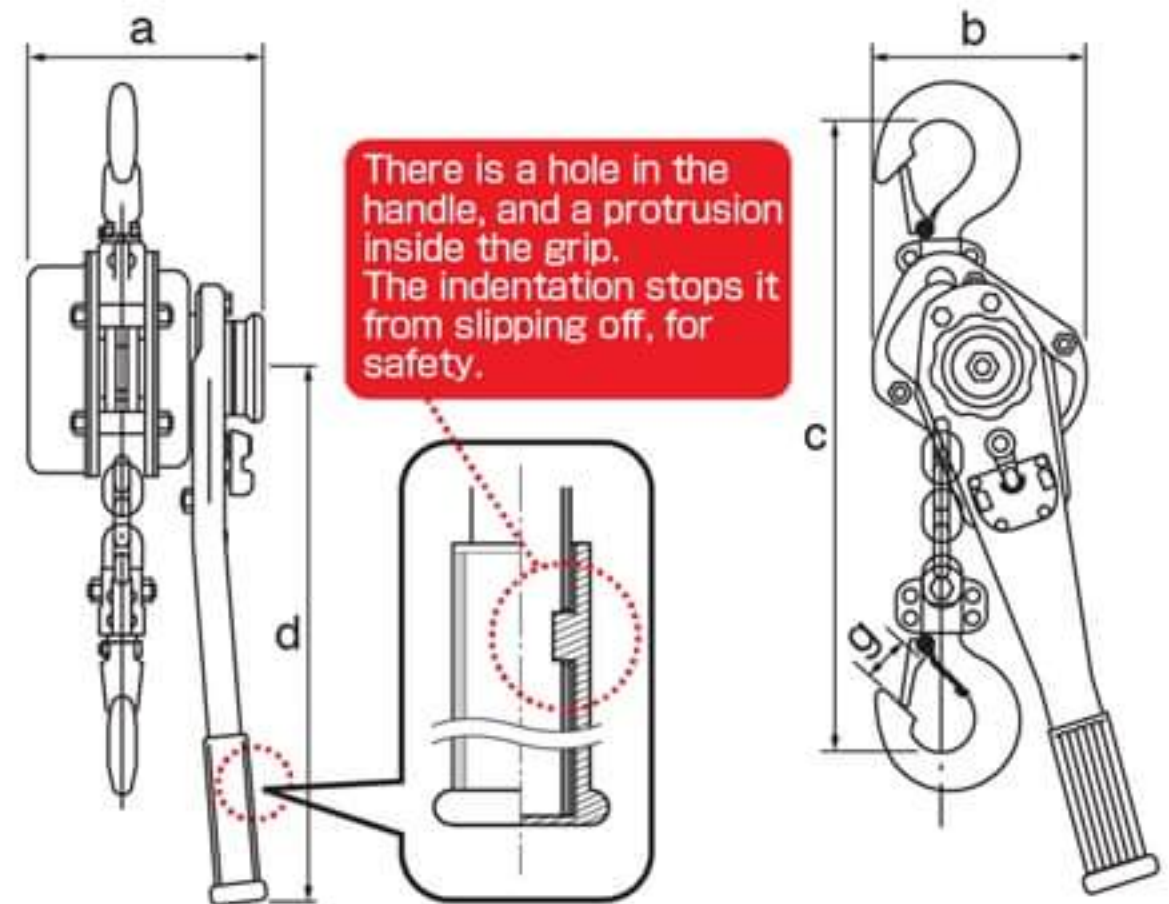
9 t



NR2 0.5t

## Specifications

Model Number	NR2-03	NR2-05	NR2-08	NR2-10	NR2-15	NR2-30	NR2-60	NR2-90
Capacity (t)	0.25	0.5	0.8	1	1.6	3.2	6.3	9
Standard Lift (m)	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Net Weight (kg)	1.9	3.5	6.0	7.2	9.8	16.6	27.0	47.3
Min. Distance between Hooks (mm)	230	260	295	325	350	425	565	660
Pull Required to Lift Full Load	(kgf)	30	34	21	23	27	38	40
	(N)	294	333	206	226	265	373	392
Chain thickness (mm)	4.0	5.0	5.6	6.3	7.1	9.0	9.0	9.0
Dimension	a (mm)	85	108	146	146	161	195	195
	b (mm)	65	82	119	126	146	180	243
	c (mm)	230	260	295	325	350	425	565
	d (mm)	151.5	267	256	256	368	368	368
	g (mm)	24	27	27	30	34	43	47



**0.8t → 6.3t**

**V LEVER**

**VR2**

**Light  
Weight,  
High  
Quality!**

For plated parts,  
we use  
trivalent chromate  
treatment,  
which is  
environment friendly.



Lifting



Lowering



Fastening



Pulling



VITAL brand is registered worldwide.



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For Lifting, Lowering, Fastening and Pulling.

**VITAL®**  
LEVER

**Lever hoists**

**V LEVER VR2**

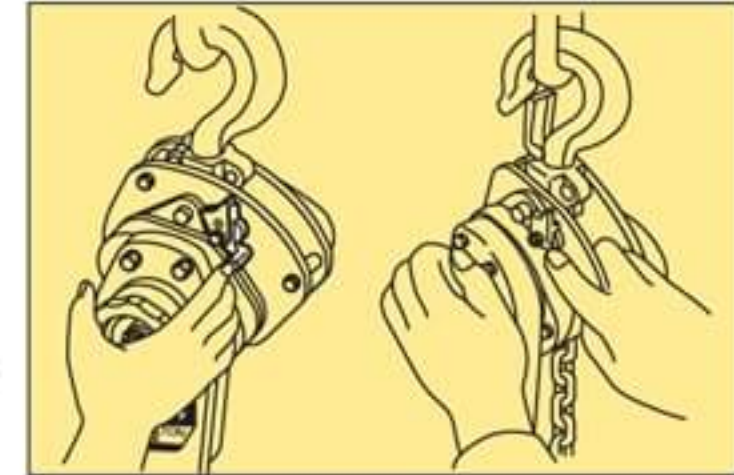
**Idling operation:**

1. Depress the retaining pawl all the way down and pull the grip ring towards you.
2. The chain can be adjusted up and down by hand.
3. To terminate the idling, set the change lever in the down (↓) position. (See diagram at right).

Then, depressing the retaining pawl as far as possible, push the grip ring gently so as to let the pawl engage the outer edge of the retaining plate.

Next, grip the grip ring and handle with a single hand and push them while turning them counterclockwise.

The retaining pawl returns to its original position.



0.8 t



1 t



1.6 t



3.2 t

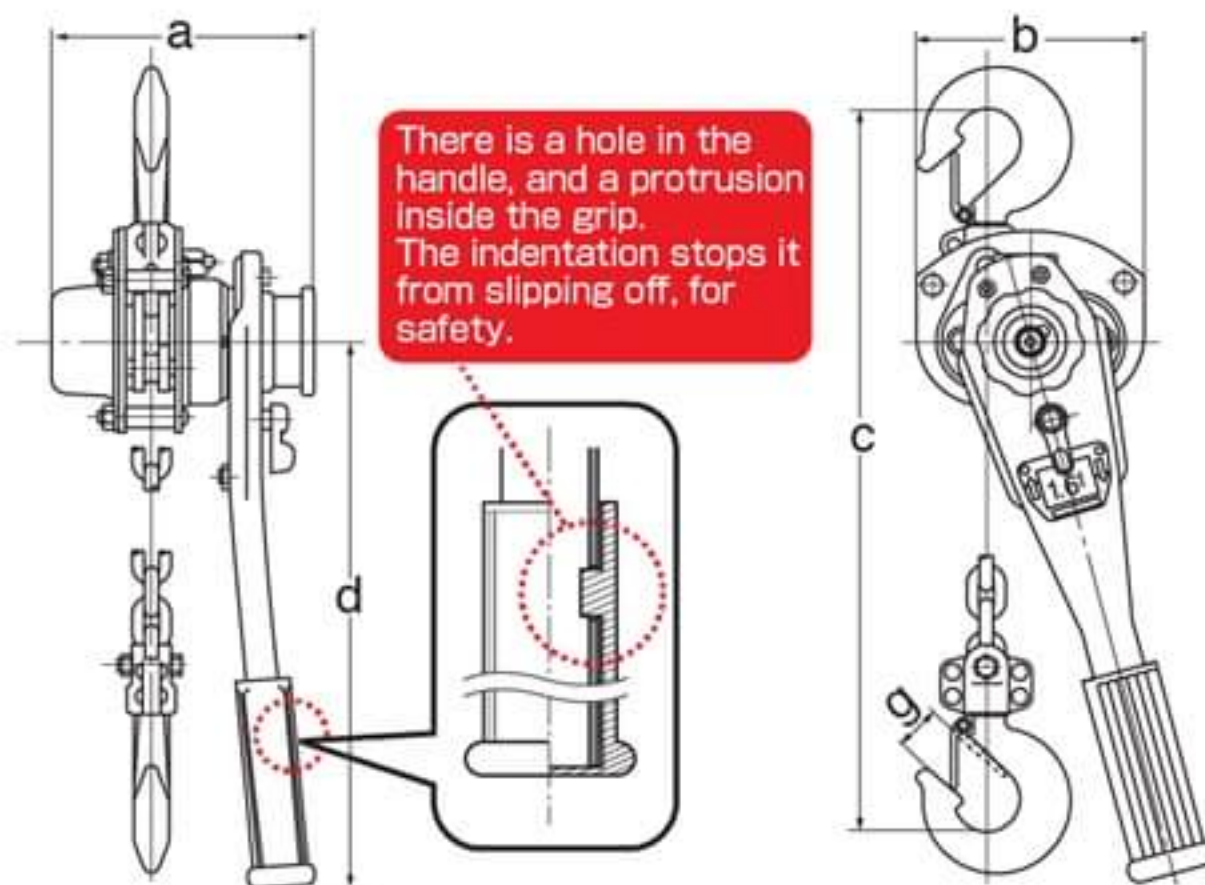


6.3 t

**Specifications**

Model Number	VR2-08	VR2-10	VR2-15	VR2-30	VR2-60	
Capacity (t)	0.8	1	1.6	3.2	6.3	
Standard Lift (m)	1.5	1.5	1.5	1.5	1.5	
Net Weight (kg)	6.9	7.1	9.7	16.3	26.7	
Min. Distance between Hooks (mm)	295	310	335	405	550	
Pull Required to Lift Full Load	(kgf)	15	20	18	38	39
	(N)	147	196	177	373	382
Chain thickness (mm)	6.3	6.3	7.1	9.0	9.0	
Dimension	a (mm)	148	148	163.5	191	191
	b (mm)	128	128	148	181	244
	c (mm)	295	310	325	395	550
	d (mm)	256	256	368	368	368
	e (mm)	27	30	34	43	47

· Hoists with the life in other lengths are also available.



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# A powerful helper!

HIGH QUALITY

# VITAL<sup>®</sup>

HAND CHAIN HOISTS

## VH5

For plated parts,  
we use  
trivalent chromate  
treatment,  
which is  
environment friendly.



Moving products  
from one place  
to another



Uprooting trees



Installing under-  
water pump



Laying conduits  
and pipelines



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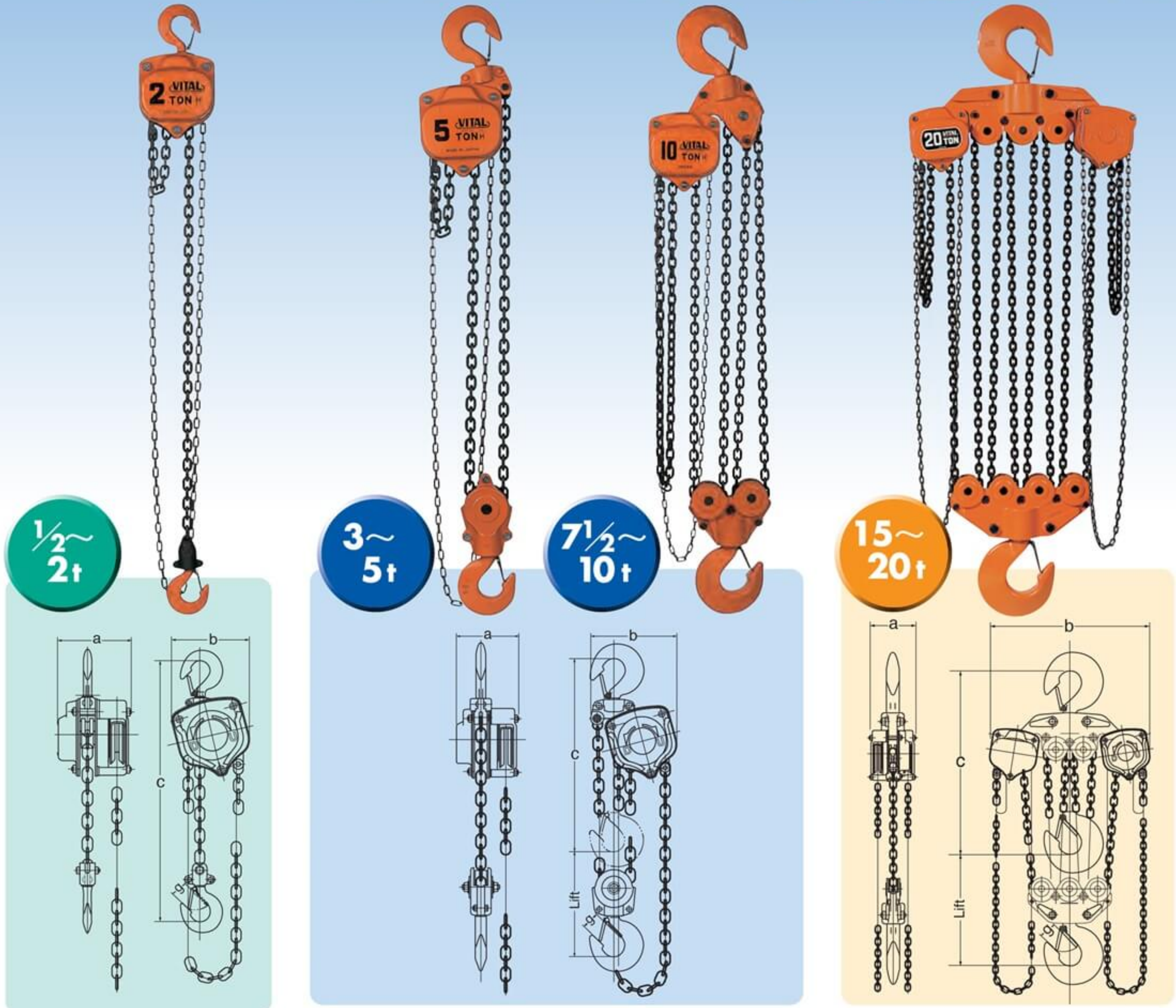
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# All over the world!

## VITAL CHAIN BLOCK **VH5** Series.



Capacity (t)	Model Number	Standard Lift (m)	Net Weight (kg)	Gross Weight (kg)	Pull to Lift Load		Head Room c (mm)	a (mm)	b (mm)	g (mm)	Test Load (t)
					(kgf)	(N)					
1/2	VH5-05	2.5	8.6	9.0	25	245	305	129	145	27	0.75
1	VH5-10	2.5	11.5	12.0	33	324	345	149	158	30	1.5
1 1/2	VH5-15	2.5	13.8	14.5	34	333	370	149	177	34	2.25
2	VH5-20	3.0	21.6	22.5	34	333	425	181	204	37	3.0
3	VH5-30	3.0	23.0	23.7	35	343	505	149	208	43	4.5
5	VH5-50	3.0	41.0	42.5	39	382	635	181	263	47	7.5
7 1/2	VH5-75	3.5	60.5	68.0	41	402	740	181	354	67	9.5
10	VH5-90	3.5	78.0	85.0	41	402	760	181	367	67	12.5
15	VH5-92	3.5	150.0	174.0	41×2	402×2	850	209	730	84	18.75
20	VH5-93	3.5	190.0	220.0	41×2	402×2	870	209	858	84	25.0

Hoists with the lift in other lengths are also available.

'VH' Series.....With a High-hardened special alloy steel load chain,  
and equipped  
With a thrust bearing on the bottom hook  
(Only for the capacity up to 10 tons).



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HIGH QUALITY  
**VITAL**<sup>®</sup>  
 HAND CHAIN HOISTS

VL5 is the chain block of  
 the wonderful performance.

**VL5**



For plated parts,  
 we use  
 trivalent chromate  
 treatment,  
 which is  
 environment friendly.



Moving  
 products  
 from one  
 place  
 to another



Uprooting  
 trees



Installing  
 underwater  
 pump



Laying  
 conduits  
 and pipelines



Needle bearings on load sheave

VITAL brand is registered worldwide.



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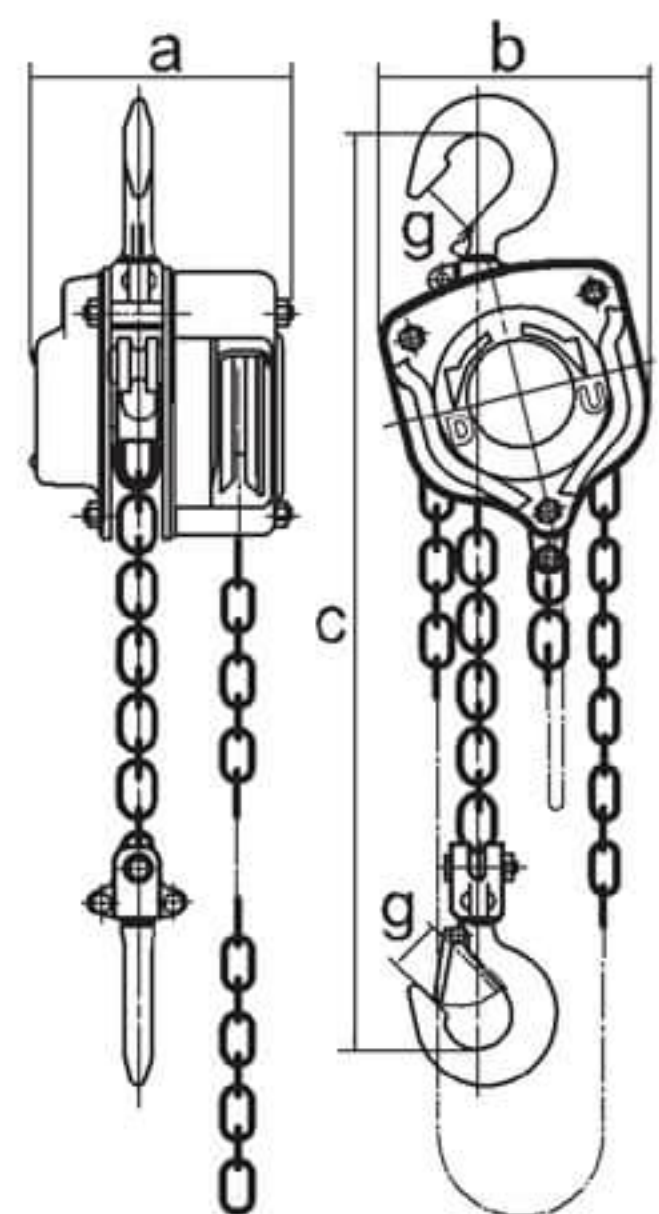
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# VITAL CHAIN BLOCK VL5 Series



## Specifications

Capacity (t)	Model Number	Standard Lift (m)	Net Weight (kg)	Gross Weight (kg)	Pull to Lift Load		Head Room c (mm)	a (mm)	b (mm)	g (mm)	Test Load (t)
					(kgf)	(N)					
1/2	VL5-05	2.5	8.3	8.7	25	245	285	129	145	27	0.75
1	VL5-10	2.5	11.3	11.8	33	324	315	149	158	30	1.5
1 1/2	VL5-15	2.5	13.5	14.0	34	333	340	149	177	34	2.25
2	VL5-20	3.0	21.0	22.2	34	333	380	181	204	37	3.0
3	VL5-30	3.0	22.0	22.7	35	343	475	149	208	43	4.5
5	VL5-50	3.0	40.0	41.5	39	382	600	181	263	47	7.5
7 1/2	VL5-75	3.5	59.0	66.5	41	402	700	181	354	67	9.5
10	VL5-90	3.5	77.0	84.5	41	402	740	181	367	67	12.5



Hoists with the lift in other lengths are also available.  
 "VL5" Series ···· With a hardened special alloy steel load chain.

Vital offers products that are designed for longtime use, providing the lowest possible per-use cost.



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# A powerful helper!

HIGH QUALITY

# VITAL®

HAND CHAIN HOISTS

# VP5



For plated parts,  
we use  
trivalent chromate  
treatment,  
which is  
environment friendly.



Moving products  
from one place  
to another



Uprooting trees



Installing under-  
water pump



Laying conduits  
and pipelines

VITAL brand is registered worldwide.



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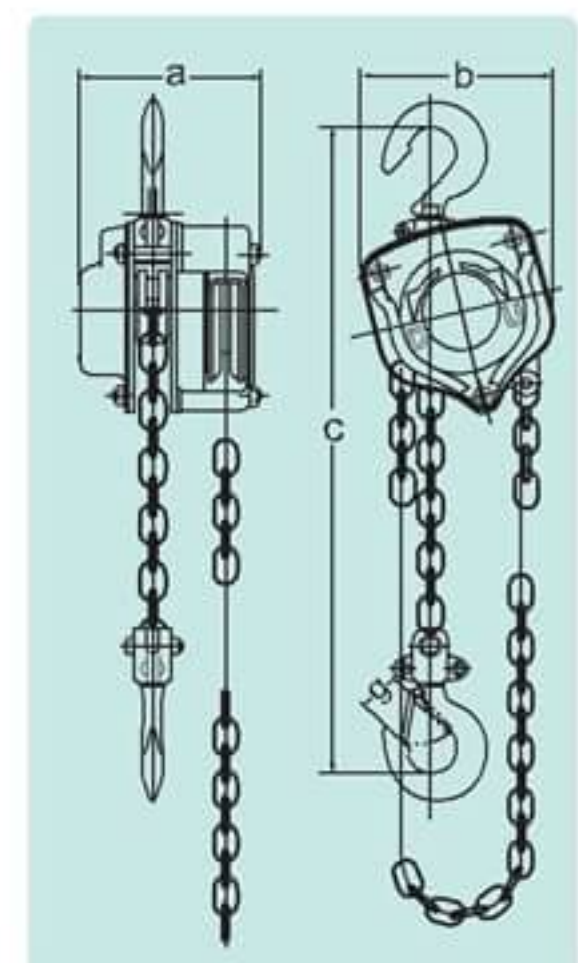
# VITAL CHAIN BLOCK **VP5** Series.



## Specifications

Load Chain : With special alloy load chain.

Capacity (t)	Model Number	Standard Lift (m)	Net Weight (kg)	Gross Weight (kg)	Pull to Lift Load		Head Room c (mm)	a (mm)	b (mm)	g (mm)	Test Load (t)
					(kgf)	(N)					
1/2	VP5-05	2.5	8.3	8.7	25	245	285	129	145	27	0.75
1	VP5-10	2.5	11.3	11.8	33	324	315	149	158	30	1.5
1 1/2	VP5-15	2.5	13.5	14.0	34	333	340	149	177	34	2.25
2	VP5-20	3.0	21.0	22.2	34	333	380	181	204	37	3.0
3	VP5-30	3.0	22.0	22.7	35	343	475	149	208	43	4.5
5	VP5-50	3.0	40.0	41.5	39	382	600	181	263	47	7.5



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# VITAL® Safety Trolley

**Strong, safe lateral load transportation!**  
**Freely adjusts to a wide-range of rail widths!**

**A-Type**

- Can be adjusted to 9 types of rail widths.
- Extremely easy work-site installation.
- Uses high-quality sealed ball bearings.
- Compatible with I-beam and H-beam rails.
- Easily travels over minor rail surface irregularities.

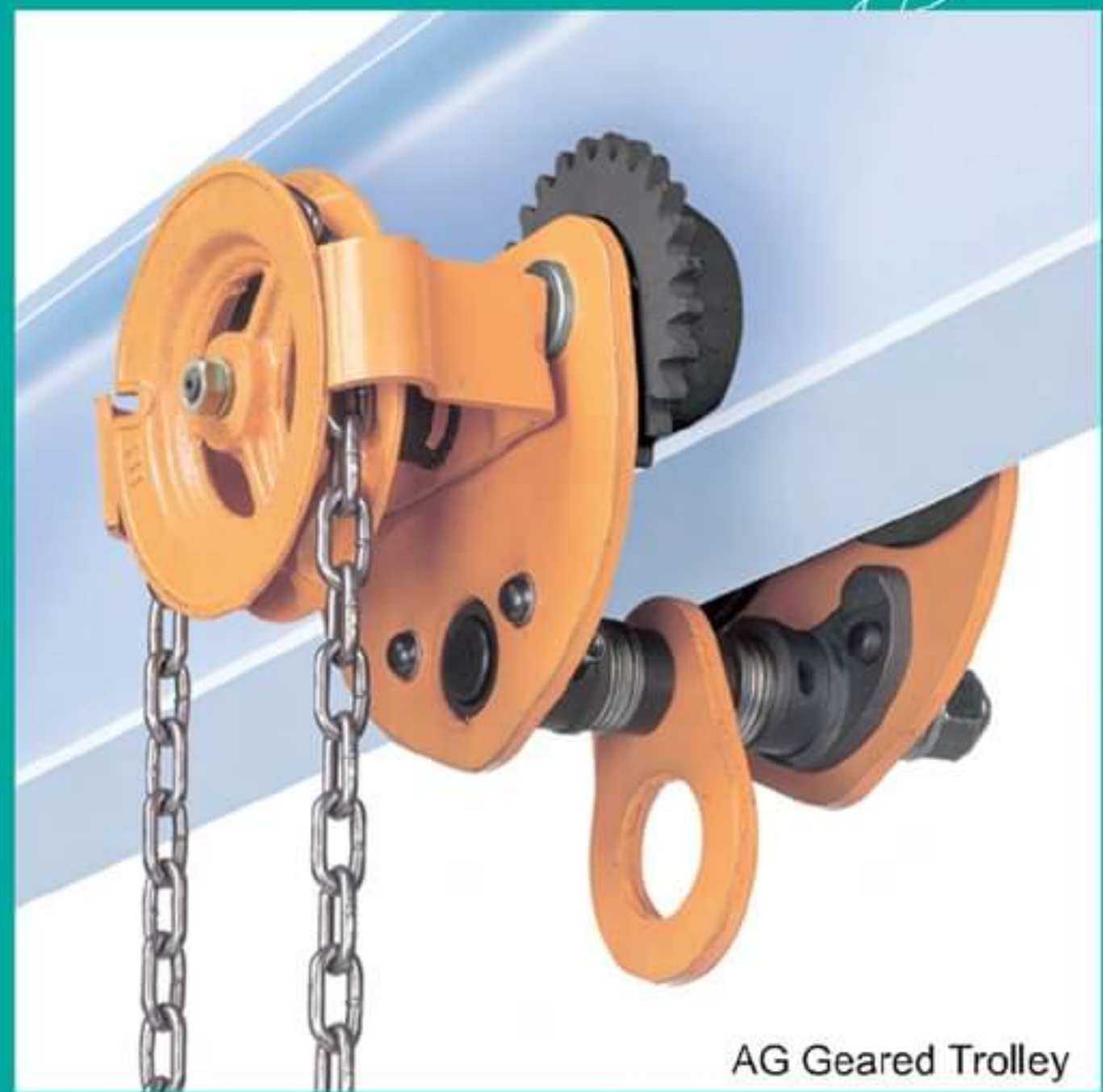
**Compatible with 9 types of rail widths!**



**Patented Design**



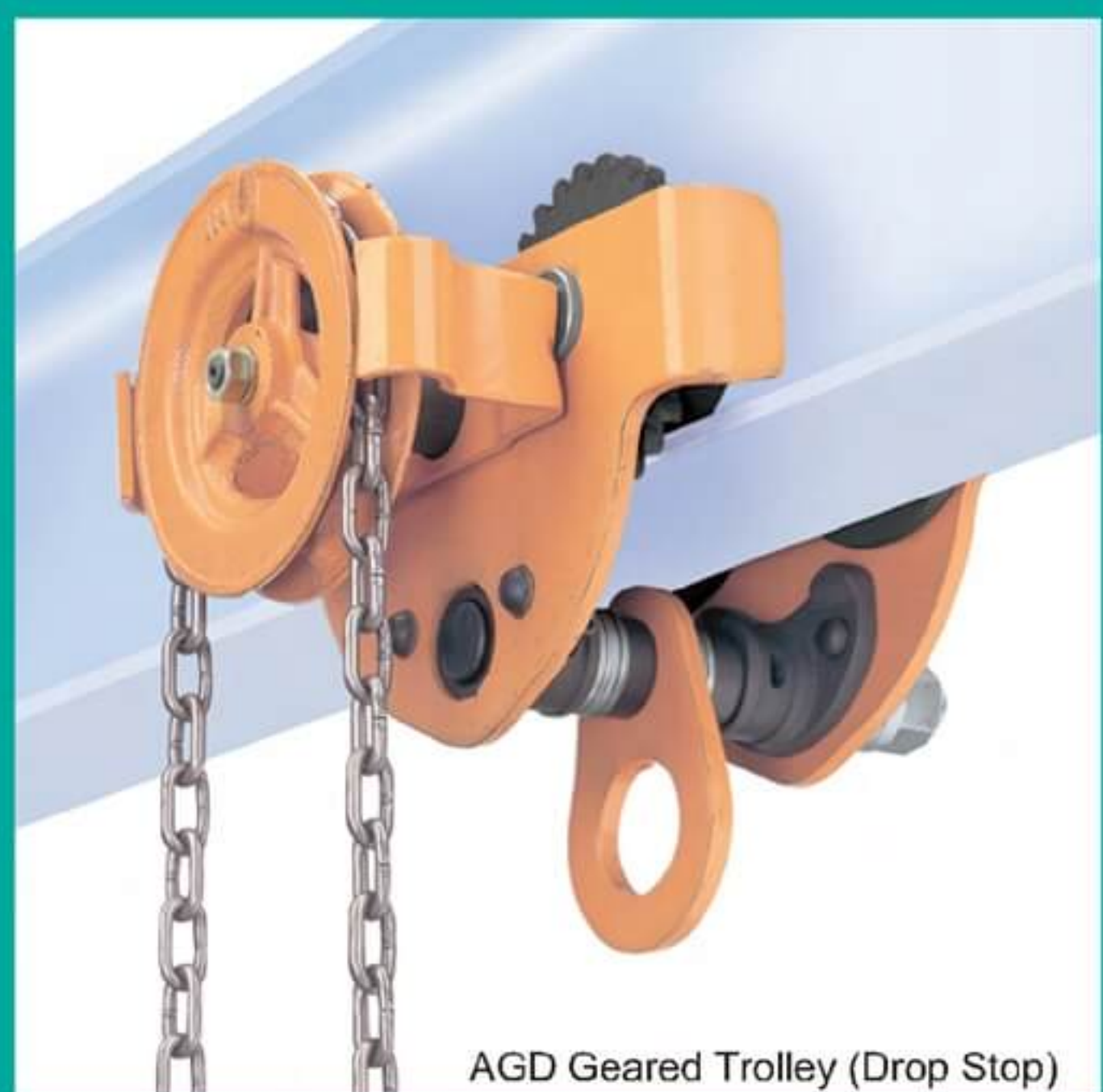
AP Plain Trolley



AG Geared Trolley



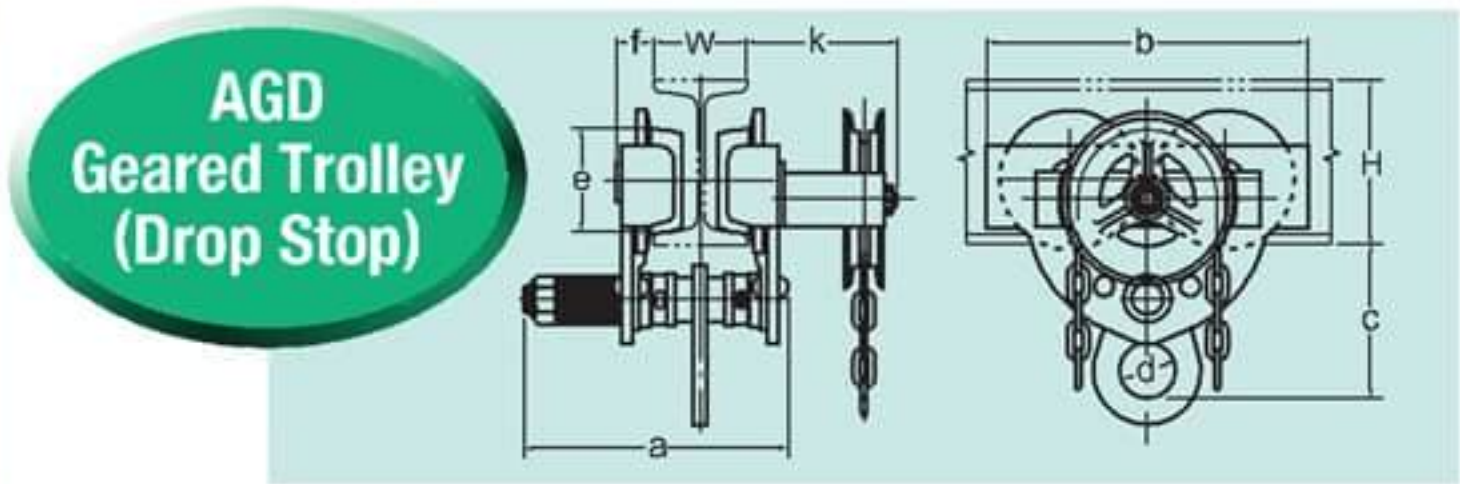
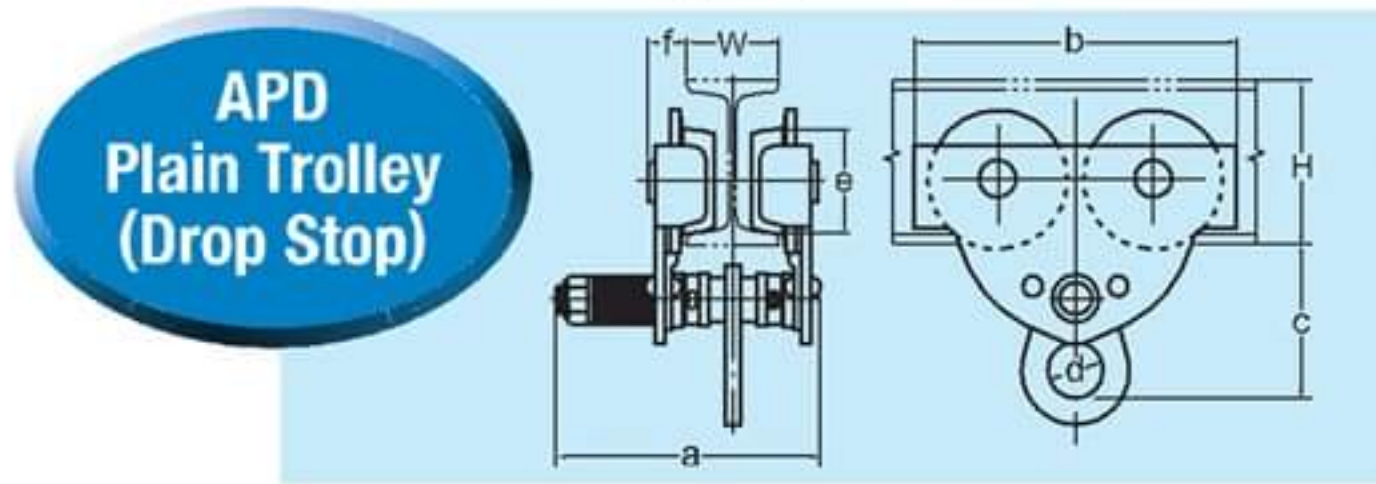
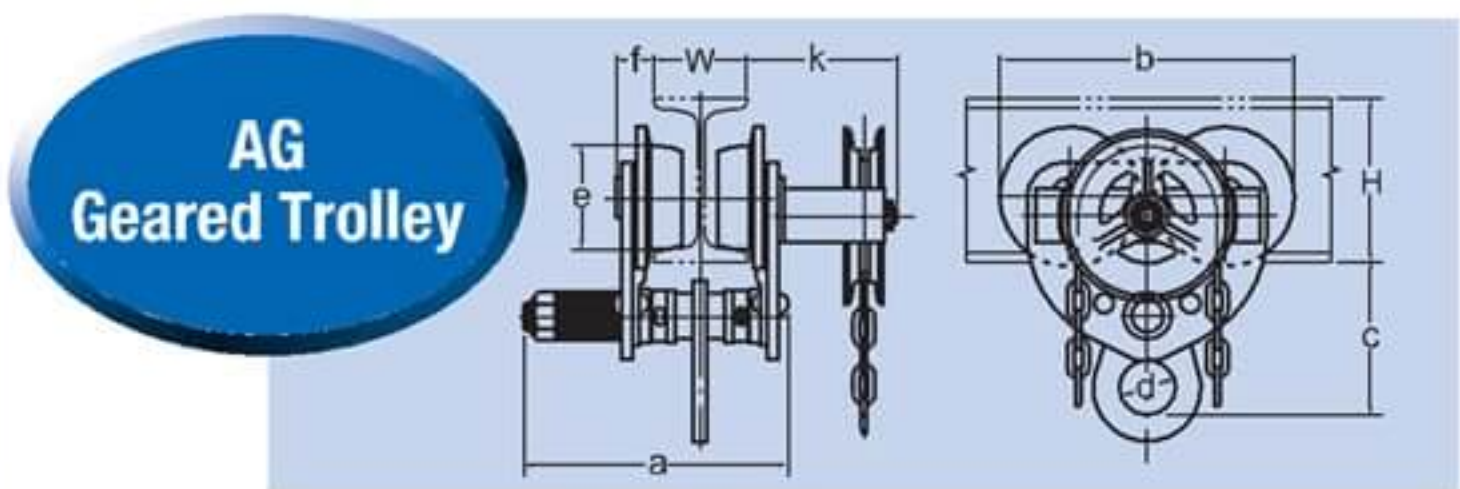
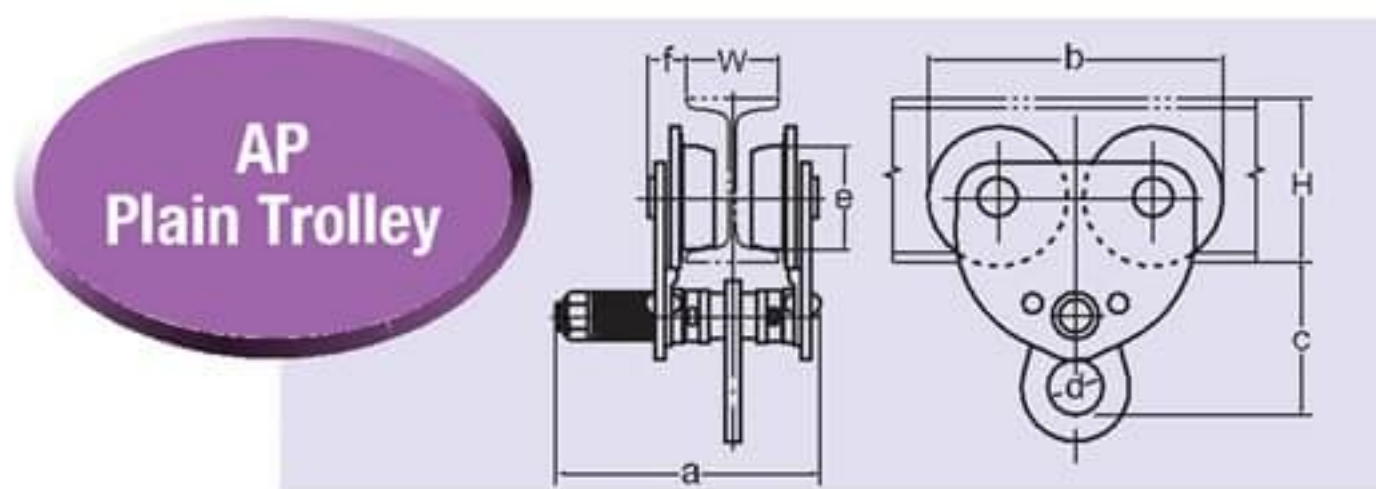
APD Plain Trolley (Drop Stop)



AGD Geared Trolley (Drop Stop)

VITAL brand is registered worldwide.

# Great for laterally transporting freight!



Type	Load Cap. (t)	Compatible Rail Size (mm)				Dimensions (mm)								min. Rotation Radius (mm)	N/W (kg)	Model Number
		Width (W)		Height (H)		a	b	c	d $\phi$	e $\phi$	f	k				
		min.	max.	min.	max.											
<b>Plain Trolley</b>																
AP	1/2	75	125	100	150	207	174	120	45	55	28.5	—	900	6.0	AP-05	
	1	75	125	125	250	207	230	120	45	80	28.5	—	1300	10.0	AP-10	
	2	100	150	150	400	241	271	155	60	100	33	—	1500	18.5	AP-20	
	3	100	150	180	400	252	311	185	70	113	40.5	—	2000	27.0	AP-30	
	5	125	175	250	450	284	351	220	80	125	42.5	—	2600	44.0	AP-50	
	10	150	175	250	450	284	721	165	63	125	42.5	—	—	96.0	AP-90	
APD	1/2	75	125	100	150	207	196	120	45	55	28.5	—	900	7.0	APD-05	
	1	75	125	125	250	207	253.5	120	45	80	28.5	—	1300	10.8	APD-10	
	2	100	150	150	400	241	300	155	60	100	33	—	1500	19.5	APD-20	
	3	100	150	180	400	252	349	185	70	113	40.5	—	2000	30.0	APD-30	
	5	125	175	250	450	284	395	220	80	125	42.5	—	2600	48.0	APD-50	
	10	150	175	250	450	284	765	165	63	125	42.5	—	—	100.0	APD-90	
<b>Geared Trolley</b>																
AG	1	75	125	125	250	207	230	120	45	80	28.5	108	1300	14.0	AG-10	
	2	100	150	150	400	241	271	155	60	100	33	109.5	1500	23.5	AG-20	
	3	100	150	180	400	252	311	185	70	113	40.5	113	2000	33.5	AG-30	
	5	125	175	250	450	284	351	220	80	125	42.5	113	2600	53.5	AG-50	
	10	150	175	250	450	284	721	165	63	125	42.5	113	—	101.0	AG-90	
AGD	1	75	125	125	250	207	253.5	120	45	80	28.5	108	1300	15.0	AGD-10	
	2	100	150	150	400	241	300	155	60	100	33	109.5	1500	25.0	AGD-20	
	3	100	150	180	400	252	349	185	70	113	40.5	113	2000	35.9	AGD-30	
	5	125	175	250	450	284	395	220	80	125	42.5	113	2600	57.6	AGD-50	
	10	150	175	250	450	284	765	165	63	125	42.5	113	—	105.0	AGD-90	

## Adjusting the Trolley for the Rail Size

Load Capacity (t)	Washer Combination Category Corresponding to Rail Width (W) (mm) (See drawings below.)									
	(min.)	A	B	C	D	E	F	G	H	(max.) I
1/2	75	81.3	87.5	93.8	100	106.3	112.5	118.8	125	
1	75	81.3	87.5	93.8	100	106.3	112.5	118.8	125	
2	100	106.3	112.5	118.8	125	131.3	137.5	143.8	150	
3	100	106.3	112.5	118.8	125	131.3	137.5	143.8	150	
5	125	131.3	137.5	143.8	150	156.3	162.5	168.8	175	
10	150	156.3	162.5	168.8	—	—	—	—	175	

Measure the rail width. Locate the rail width in the row corresponding to the trolley size to find the washer combination category (A to I) for that trolley size. Then refer to the illustration corresponding to the washer combination category for the number of washers and washer placement needed to adjust the trolley size. (See the separate table for 10-ton trolleys.)

	i	ii	iii
A	8	0	0
B	6	1	1
C	4	2	2
D	2	3	3
I	0	4	4

※Improvements and modifications may be made to this product without notification.



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坤溢企業®  
KYEC

連續型安全輸電軌道  
Safe Power Rails

適用於：吊車系統 · 自動倉儲 · 遊樂場供電 · 生產測試系統

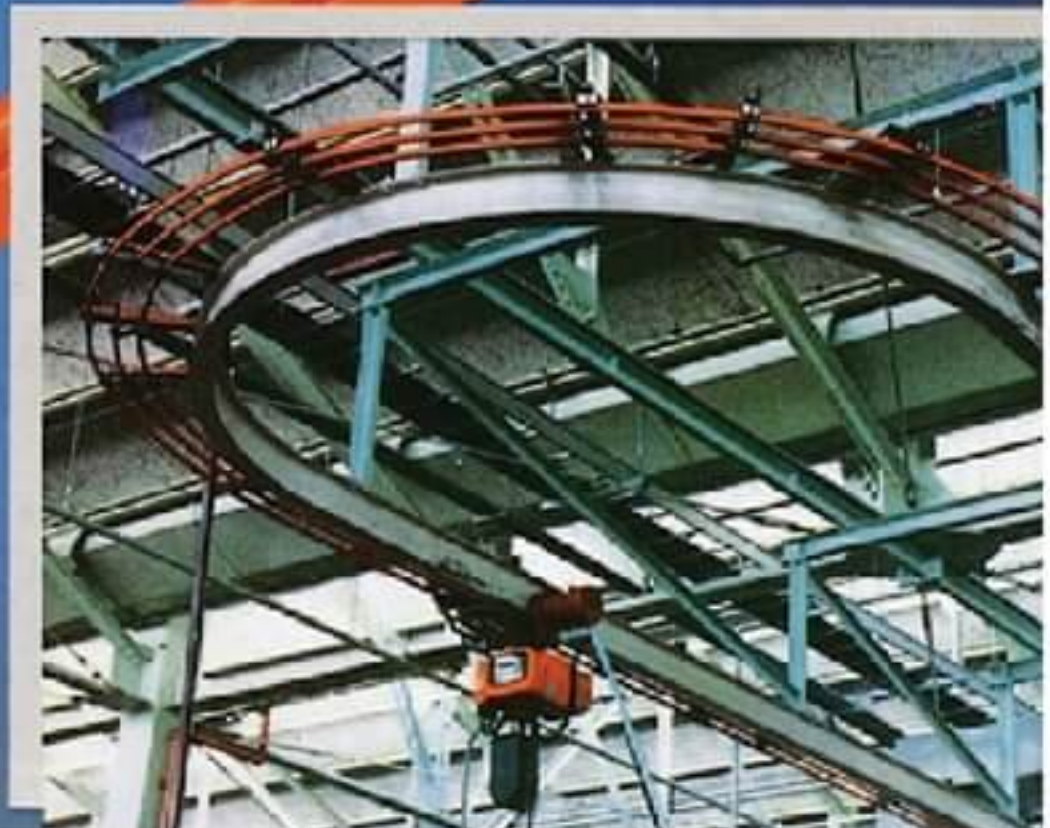
新產品  
**200A**  
20噸吊車專用

注意銅導體之厚度  
100A標準為2.8mm X 10mm



請指定品牌  
**KYEC**

本公司於  
2000年通過  
ISO 9001  
認證



簡介 壹：如何選用安培數	p.1~3	參：3P~6P 施工圖	p.11~14
貳：3P、4P、5P、6P 零件圖	p.4~7	工字型零件圖	p.15~16
※新產品 3P 200A 零件圖	p.8	工字型施工圖	p.17~19
4P 200A 零件圖	p.9		
耐高溫鐵殼盒型電軌	p.10	肆：尾頁施工實績圖片	

SIRIMONGKOL CORPORATION CO., LTD.



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## 公司簡介：

連續性安全電軌，在公司已累積有35年的生產技術經驗，經驗就是信心。

本公司自1974年創立以來，即秉持著技術、服務、可靠的理念，專業從事吊車修理及相關工程改善，並因屢次的零件取得不易，受制於國外的價格，且進口費時，故致力於零組件之生產及改良，而有幸榮獲多項專利，並將之標準化、本土化，目標是一律以現貨供應，縮短工程備料時間，回饋業界。

據知，德國自1912年即開始使用安全電軌，更鑑於裸銅線的安全性差，開始著手研發，進而量產60A~150連續性軌道，現已擴充至800A規格，深獲業界的支持與愛護。

連續性安全電軌，永不斷電，以無氧銅輸送電源、壓降小、導電率倍佳；且適用於曲線及高低行走的設計，在自動化生產的行列中，絕對是供電系統最佳的選擇。

業界的支持與肯定，是公司繼續研究發展的原動力及努力的進而於2000年通過ISO 9001認證，讓我們一起為各位提供安全性與自動化的相關工程服務。

**坤溢企業有限公司**  
譚中雄 暨全體員工上

## INTRODUCTION :

Being specialized in hoist repair and related engineering innovation, we provide our customers with excellent services backed up by persistent devotion, responsibility and advanced technology. In order to overcome the difficulties that we have been confronted with during part importing, we are dedicating ourselves to the production and innovation of parts and components. Also, we have obtained numerous patents approved either by the ROC or overseas countries. We supply our customers with readily available engineering materials and technical assistance to shorten your preparation time.

### Power Rails

Knowing that Germany has been using safe power rails since 1912 and bare conductor simply doesn't guarantee safety, we began to research, develop, and then mass produce 60-150 amp continuous rails, and have been highly recommended by our business partners.

With support and affirmation from our customers, we will continue our research and development work, offering our clients safe and automated engineering services.

With five years of experience in manufacturing continuous safety power rails, we feel confident that we will achieve more in the industry than what we have accomplished so far.

Featuring never running out of power, our continuous safety power rails conduct electricity transmission through oxygen-free copper with high conductivity and little pressure drop, suitable for either curve or high/low path design. We believe that our products are the best choice for power supply systems in the automated production industry.



● 附記：  
進口的鐵，要比國內的銅導電率，要好嗎？

● 評論：  
這怎麼可能，翻開電工法則，導電材料物理性質，鐵的導電率為17%銅為99%無氧銅更可達99.99%，莫非應證了外國的月亮比較圓，飄洋過海就等於鍍金，價值非凡。其實大家都知道台灣無開採價值的銅礦，根本銅就是進口的，也算是飄洋過海，故聰明的業主做工程設備決策時，請別忽視您知的權益，比價、比料、比材質、導體銅的厚薄度，更比施工品質，及廠商信譽，指定品牌KYEC，可確保品質水準及您的權益。

● 銅單線安全載流量表

直徑 (mm)	安全載流量 (A)			直徑 (mm)	安全載流量 (A)			註：第一種即單層紗包線 第二種即雙層紗包線 第三種即雙紗單層漆線 第四種即雙紗漆層漆線		
	裸	第一第二種	第三第四種		裸	第一第二種	第三第四種	燈線安全載流量表		
1.0		12	8	3.5	01	65	40	粗度(mm <sup>2</sup> )	導線根數 / 每根直徑	安全載流量(A)
1.2		15	10	4.0(7/1.0)	110	65	50			
1.4		18	12	4.5	125	60	55	5.5	133/0.23	30
1.6	31	21	15	5.0	150	90	65	3.5	84/0.23	20
1.8	37	25	18	5.5(7/2.0)	170	105	75	2.0	79/0.18	15
2.0	44	30	20	6.0(7/2.3)	190	130	90	1.4	55/0.18	12
2.3	52	35	25	6.0(13/1.8)	270	140	100	0.9	35/0.18	8
2.6	61	40	30	10.0(19/2.3)	360	230	165			
2.9	71	45	32	12.0	450	300	210			
3.2	81	50	35							

● 壹：選用何種安培數 General technical information

一、總負載電流量 I<sub>G</sub> : Total Currents [A.]

- ① 負荷的全載電流量 I: 50A. down 以下 I<sub>G</sub> = I × 1.25up 以上 [A.]
- 負荷的全載電流量 I: 50A. up 以上 I<sub>G</sub> = I × 1.1up 以上 [A.]

● 三相交流三相電動機之全載電流表  
I: Motor nominal Currents [A]

電動機 型式	感應型及捲線型 (Amp)					同步型 × 功率因數及效率 (Amp)			
	110V	220V	440V	550V	2300V	220V	440V	550V	2300V
1/2	4	2	1	0.5					
3/4	5.8	2.8	1.4	1.1					
1	7	3.5	1.8	1.4					
1 1/2	10	5	2.5	2.0					
2	13	6.5	3.3	2.5					
3		9	4.5	4					
5		15	7.5	6					
7 1/2		22	11	8					
10		27	14	11					
15		40	20	16					
20		52	26	21					
25		64	32	26	7	54	27	22	54
30		78	39	31	8.5	65	33	28	65
40		104	52	41	11.5	88	43	35	88
50		125	63	50	13	108	54	44	108
60		150	75	60	16	128	64	51	128
75		180	90	74	19	151	76	60	151
100		240	120	98	25	211	106	80	211
125		310	155	124	31	254	132	108	254
150		360	180	144	37		158	127	360
200		480	240	192	48		210	165	480

註：1. 額定電壓為 208 及 230 者可選 220V 之相當值各增加百分之 6 及 10 的負載。  
2. 如功率因數為 0.9 及 0.8 者，上表有關數值應分別乘以 1.1 × 1.25 倍。  
3. 極數超過 6 極，及起動轉矩特別大者其全載電流大於本表之標準值，以該牌之標示值為準。  
4. 採自電工法則 p.514。

● 安培容量

磁珠磁夾板配線 (依絕緣物溫度) 之安培容量表 (周溫 35°C 以下)

銅導線		60°C 絕緣物	75°C 絕緣物	80°C 絕緣物	90°C 絕緣物	
線別	公稱截面積 (mm <sup>2</sup> )	安培容量 (A)				
	根數 / 直徑 (mm)					
單線	1.6	20				
	2.0	30				
	2.6	40				
	2.0	7/0.6	20			
	3.5	7/0.8	30			
	5.5	7/1.0	40			
	8	7/1.2	55	65	70	80
	14	7/1.6	80	95	100	110
	22	7/2.0	100	125	135	145
	30	7/2.3	125	150	160	170
絞線	38	7/2.6	145	180	190	205
	50	19/1.8	175	210	220	245
	60	19/2.0	200	240	250	280
	80	19/2.3	230	285	300	330
	100	19/2.6	270	330	350	380
	125	19/2.9	310	380	400	440
	150	37/2.3	360	440	480	505
	200	37/2.6	425	520	550	600
	250	61/2.3	505	615	650	600
	325	61/2.6	590	720	760	830
線	400	61/2.9	680	825	870	955
	500	61/3.2	785	930	985	1,080

② 依照計算出來的總負荷電流量 I<sub>G</sub>

- 選擇使用下列安全電軌 3p. 4p. 5p. 6p — 90A. 200A
- 工字型 — 150A.
- W型 — 120A. 320A. 500A. 800A

二、電壓降 ΔU 的計算：

ΔU = √3 · ℓ · I<sub>G</sub> (請參照 W 型目錄 p.3)



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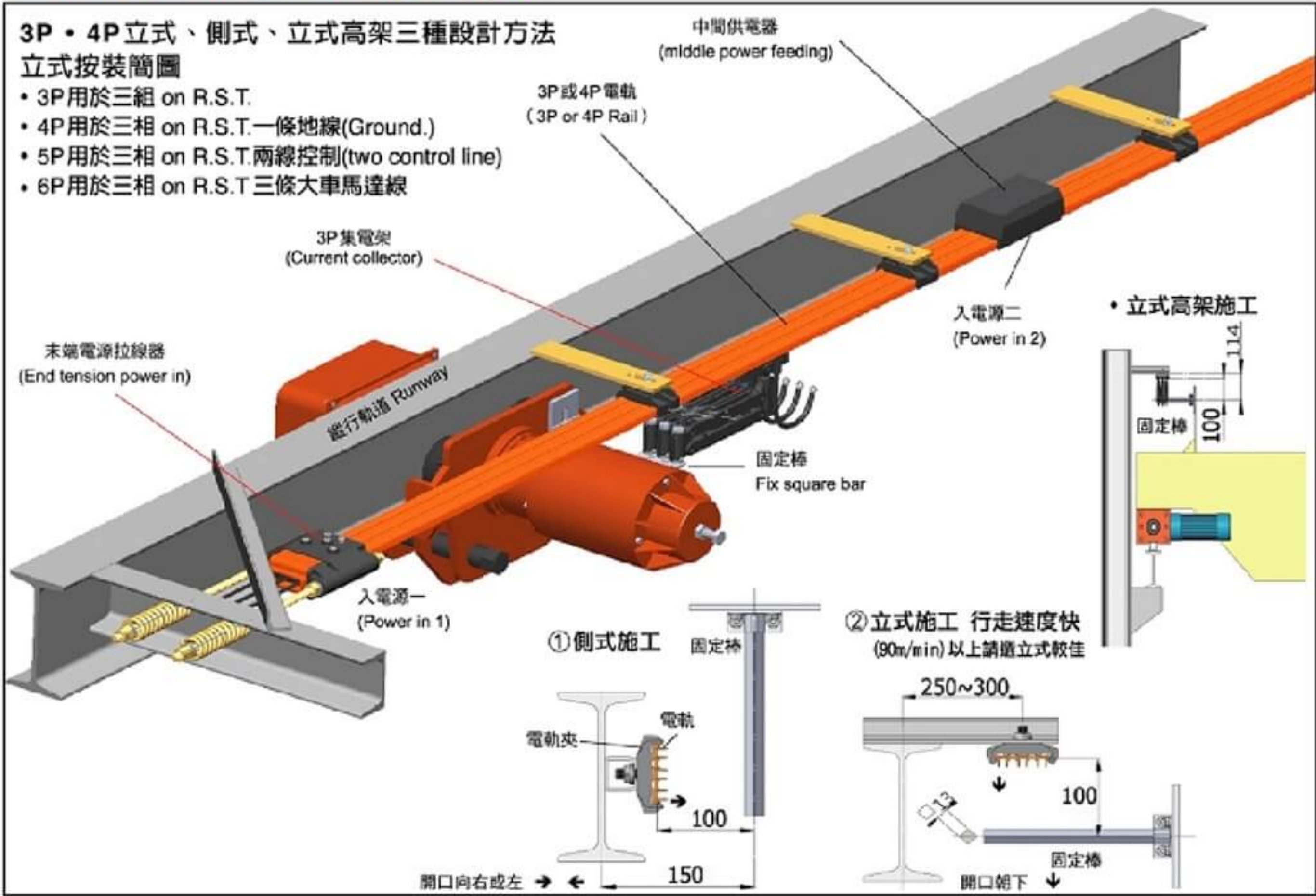
39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

## 3P&4P&5P 施工設計 (Design)

### 3P・4P 立式、側式、立式高架三種設計方法

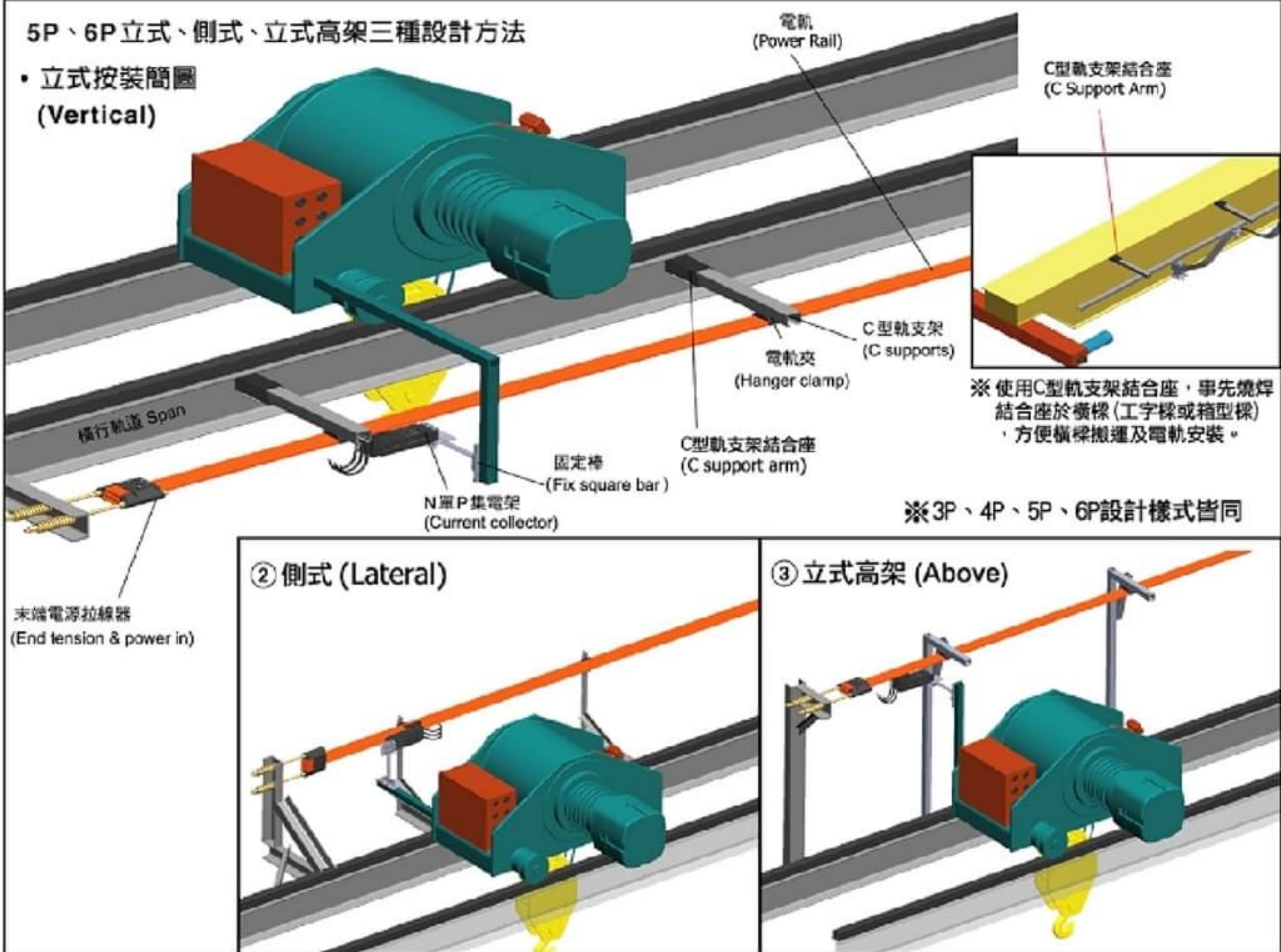
#### 立式安裝簡圖

- 3P用於三組 on R.S.T.
- 4P用於三相 on R.S.T.一條地線(Ground.)
- 5P用於三相 on R.S.T.兩線控制(two control line)
- 6P用於三相 on R.S.T.三條大車馬達線



### 5P、6P 立式、側式、立式高架三種設計方法

#### • 立式安裝簡圖 (Vertical)



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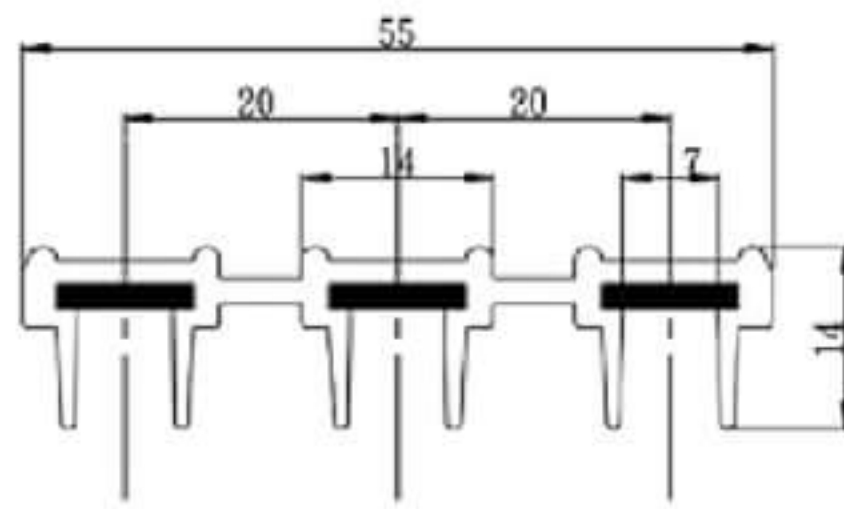


39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

PAGE

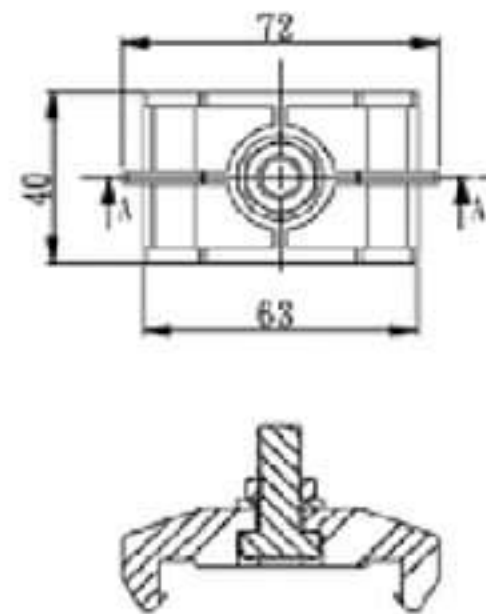
- 168 -

# 3P安全電軌零件圖 Parts Diagram

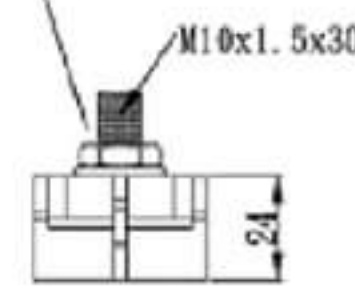


無氧銅99.9% Cu以上含銅量  
100%以上導電率(Good Conductor rate)  
(依 CNS 273-H2010 規範)

三合一電軌 Three in one				
料號	安培容量 (A)	厚度 (mm)	寬度 (mm)	重量 (Kg/m)
KY-AN3007	75	2	10	0.8
KY-AN3010	100	2.8	10	1.03
KY-AN3015	150	3	10	1.14



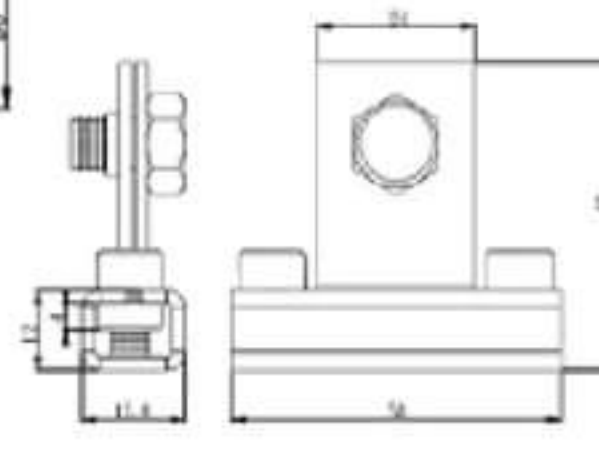
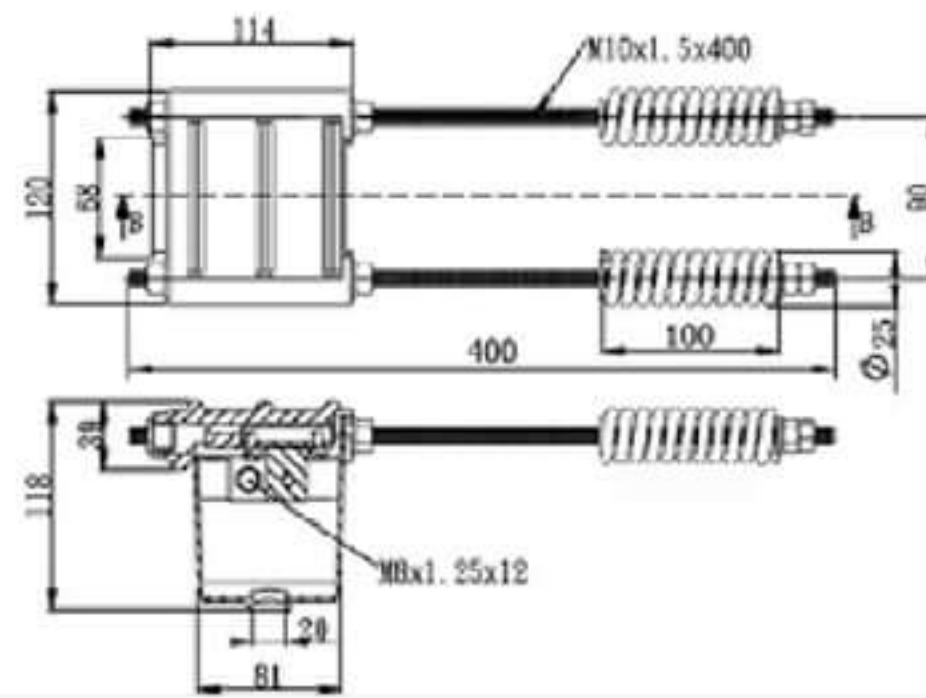
配合 C 型軌支架及 C 夾片  
可使用螺母片 M10  
30×20×5 t



**KY-AN3100**

3P 電軌夾  
Hanger clamp

0.075 kg / 只

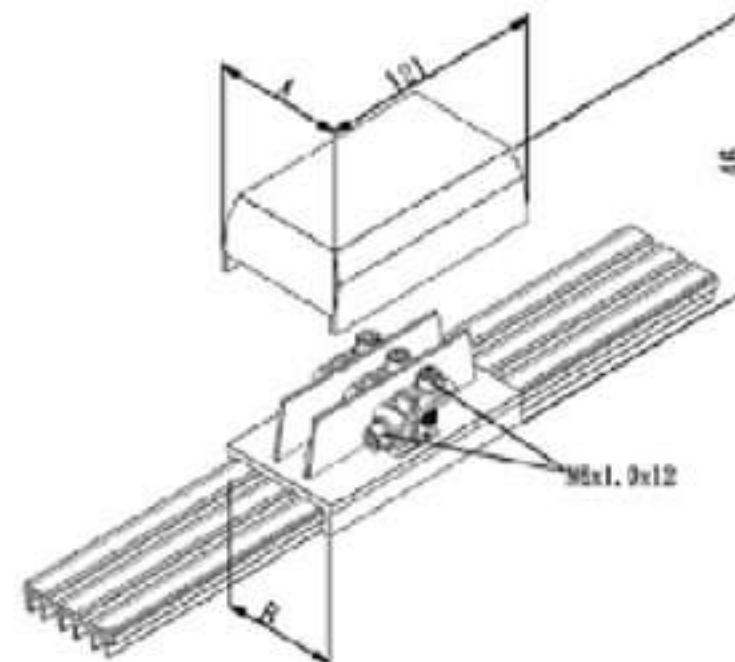


固定塊

**KY-AN3200**

3P 末端電源拉線器  
End tension & Power in  
鑷型要剝皮

1.73 kg / 支

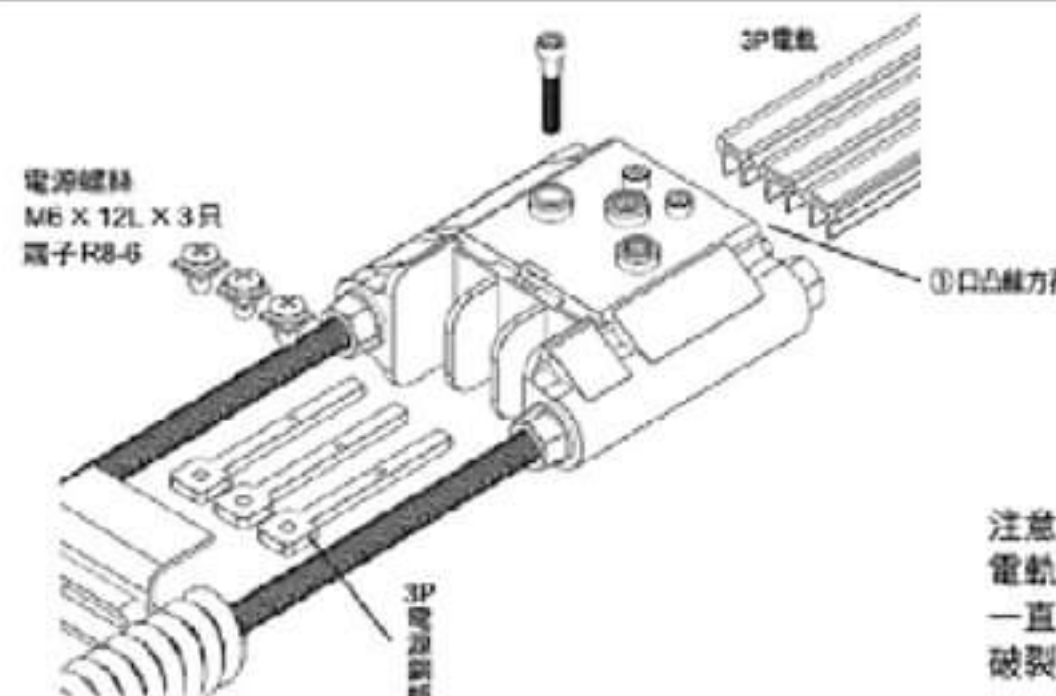


型式	尺寸	A	B
3P		70	62
4P		90	82
6P		130	122

**KY-AN3300**

3P 中間供電器(接頭)  
Middle power feed-in

0.21 kg / 只



按裝步驟:

1. 將電軌由①凸緣方孔插入到底。
2. 電軌定位螺絲鎖緊固定拉直電軌。
3. 電源線夾端子，鎖上電源銅板即完成。

**KY-AN3200N**

免剝皮 3P 拉線器  
End tension & Power in

1.5 kg / 支

注意：電軌定位螺絲下旋，碰到電軌時再下旋 2 圈半即可，切勿一直不停下旋，開口會撐開甚至破裂。



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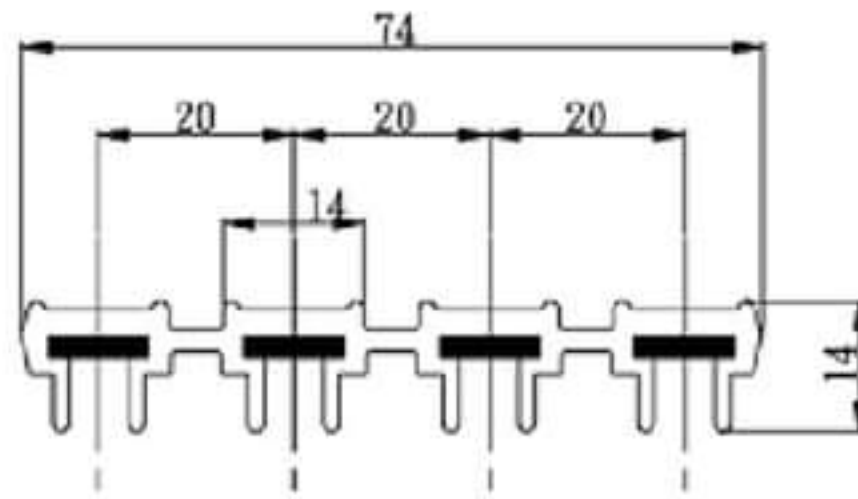


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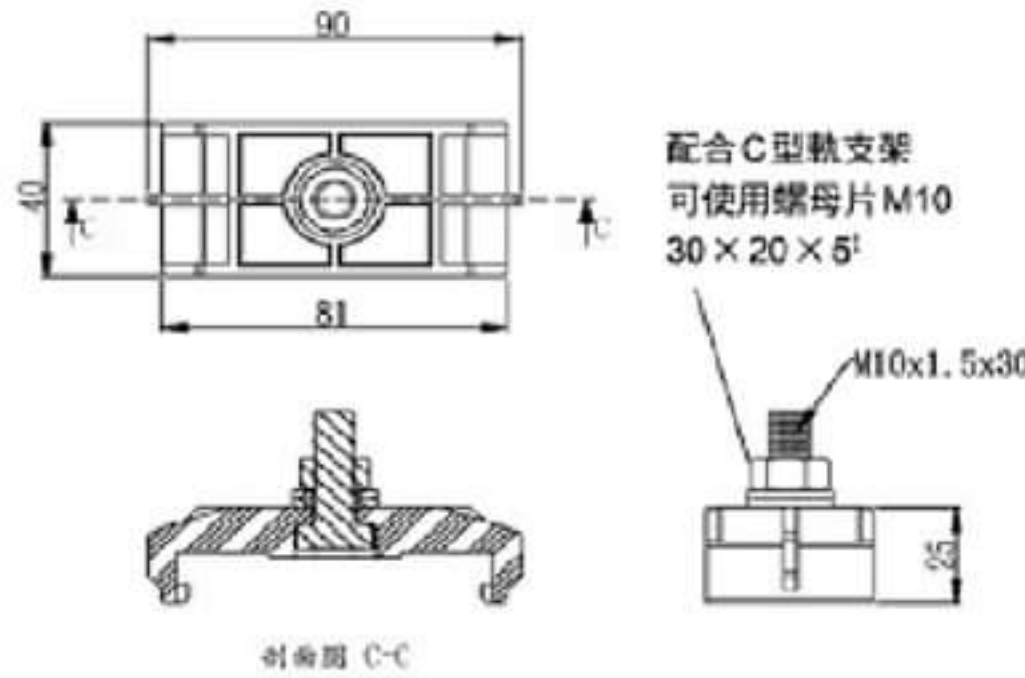
39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

# 4P安全電軌零件圖 Parts Diagram



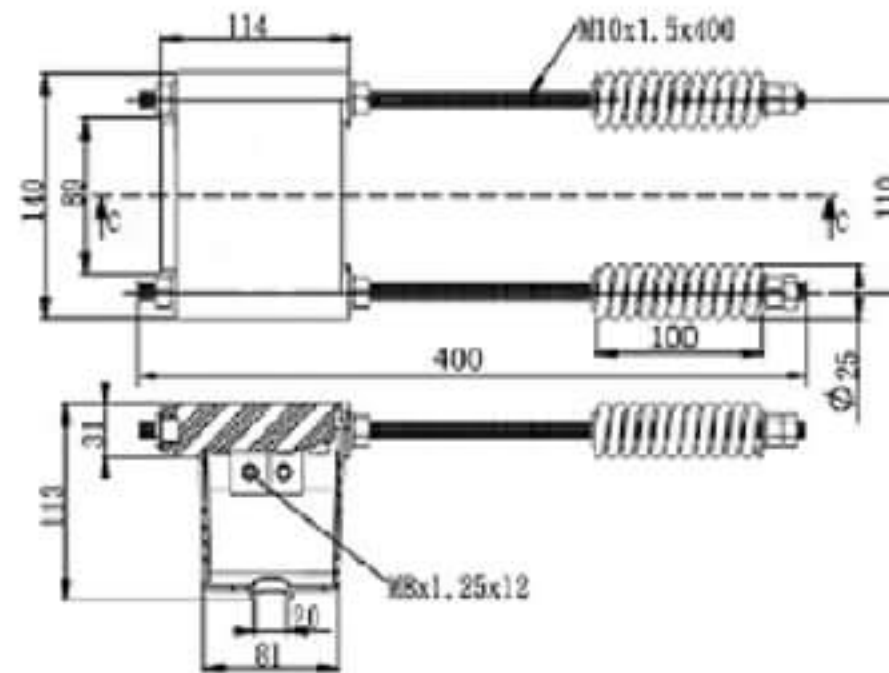
無氧銅 99.9% Cu 以上含銅量  
100% 以上導電率 (Good Conductor rate)  
(依 CNS 273-H2010 規範)

四合一電軌 Four in one				
料號	安培容量 (A)	厚度 (mm)	寬度 (mm)	重量 (Kg/m)
KY-AN4007	75	2	10	1.1
KY-AN4010	100	2.8	10	1.4



配合 C 型軌支架  
可使用螺絲片 M10  
30 x 20 x 5'

**KY-AN4100**  
4P 電軌夾  
(Hanger Clamp)  
0.083 kg / 只

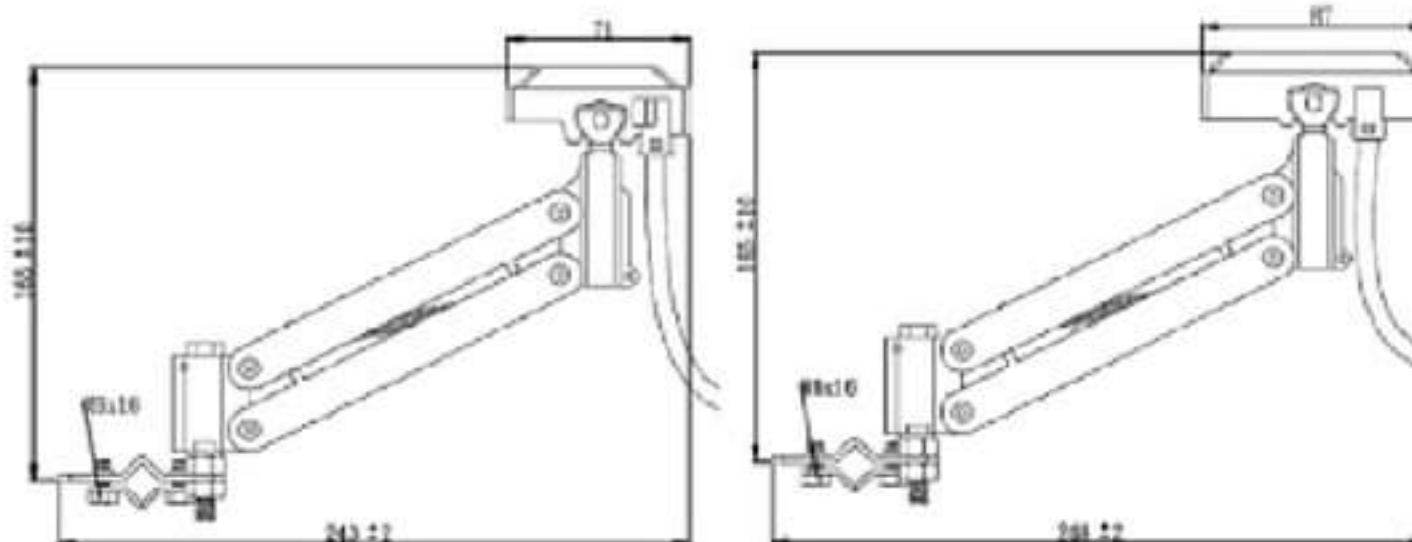


**KY-AN4200**  
4P 末端電源拉線器  
End Tension & Power in  
1.74 kg / 支



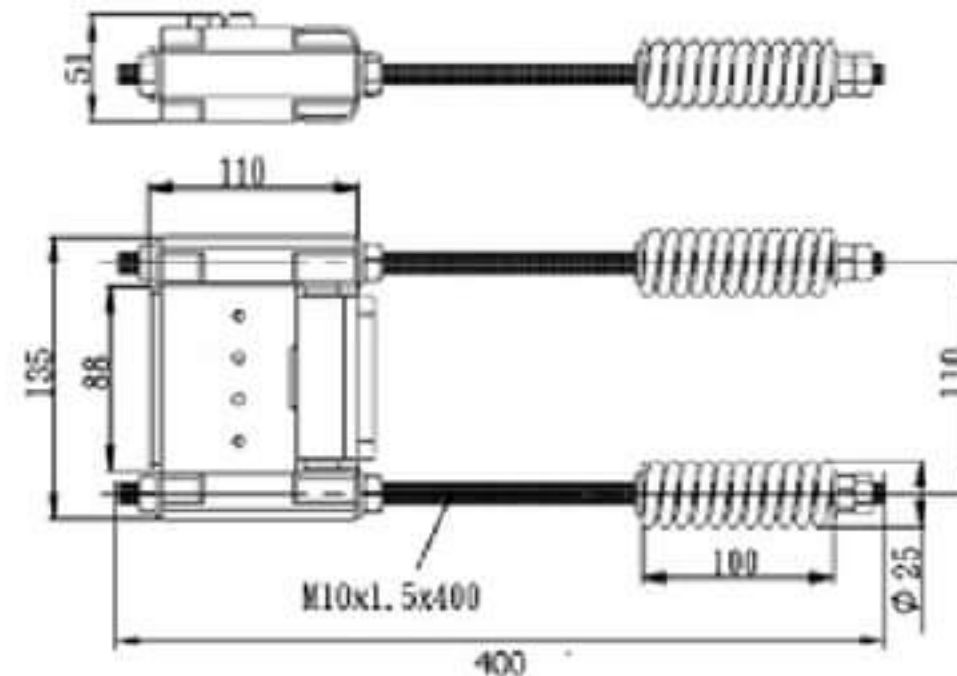
KY-AN3703 30Amp

KY-AN3706 60Amp



※ N 雙臂集電架較  
N 單臂集電架  
1. 耐用、結構強  
2. 靈活、裕度大

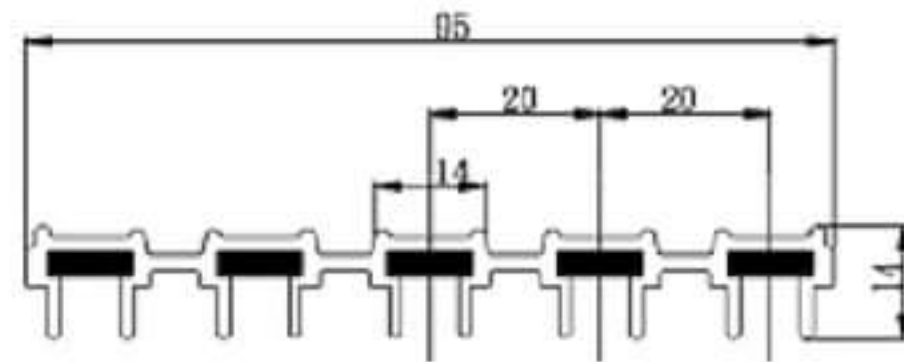
**KY-AN3703**  
**KT-AN3706**  
N 雙臂集電器  
Current Collector  
0.24 kg / 支  
0.27 kg / 支



**KY-AN4200N**  
4P 免剝皮拉線器  
End Tension & Power in  
1.28 kg / 支



## 5P 安全電軌零件圖 Parts Diagram

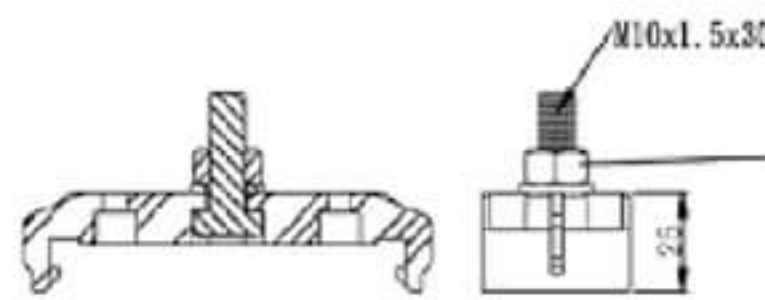
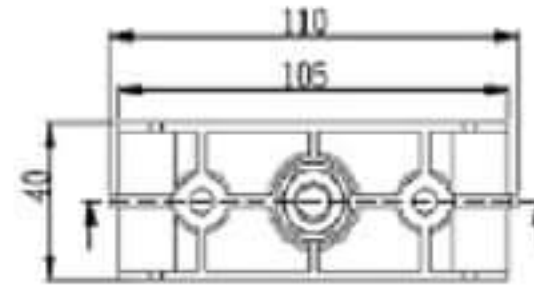


無氧銅 99.9% Cu 以上含銅量  
100% 以上導電率 (Good Conductor rate)

五合一電軌 Five in one

料號	安培容量 (A)	厚度 (mm)	寬度 (mm)	重量 (Kg/m)
KY-AN5010	100	2.8	10	1.7

※ 5P 中間供電器 (接頭) 與 6P 共用

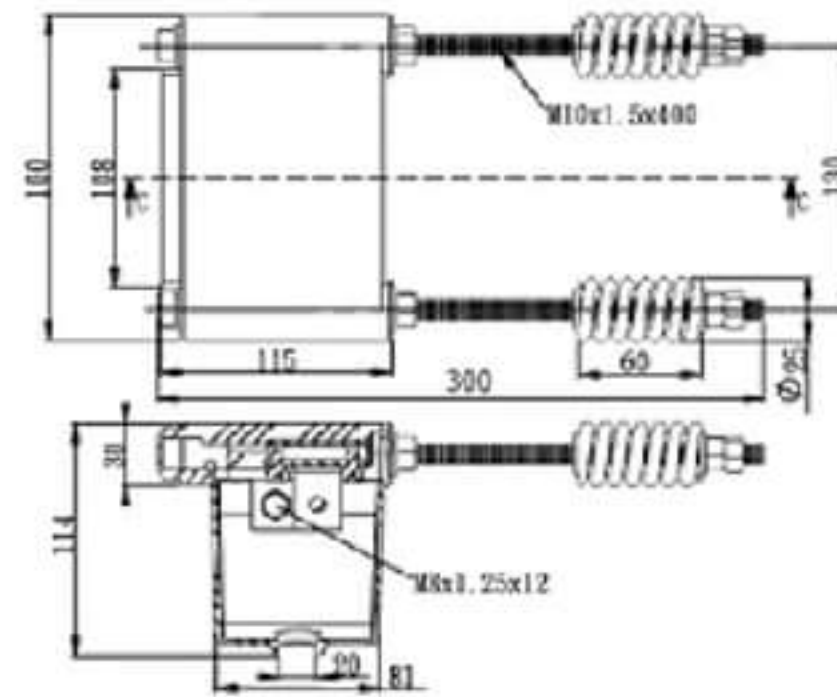


配合 C 型軌支架  
可使用螺母片 M10  
30 × 20 × 5t

**KY-AN5100**

5P 電軌夾  
(Hanger Clamp)

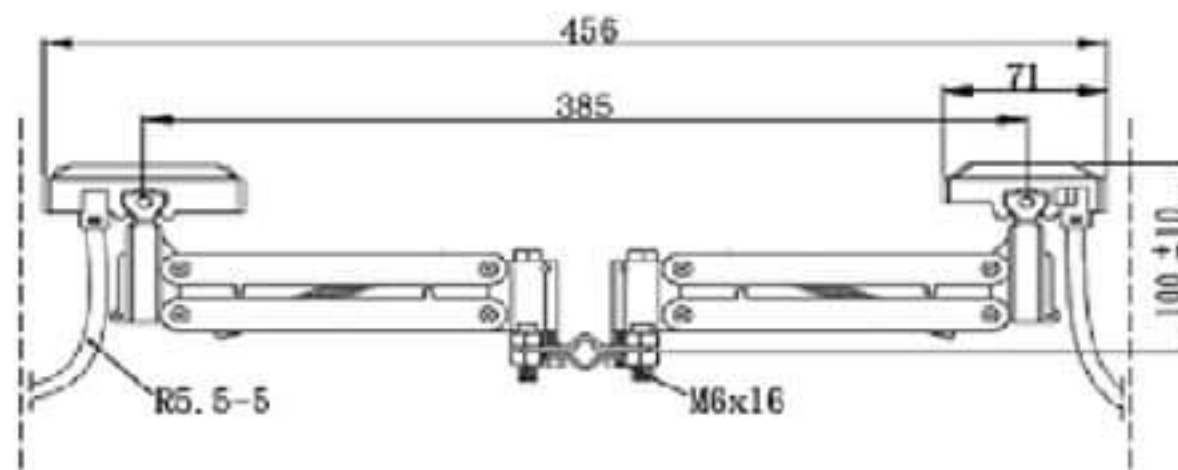
0.09 kg / 只



**KY-AN5200**

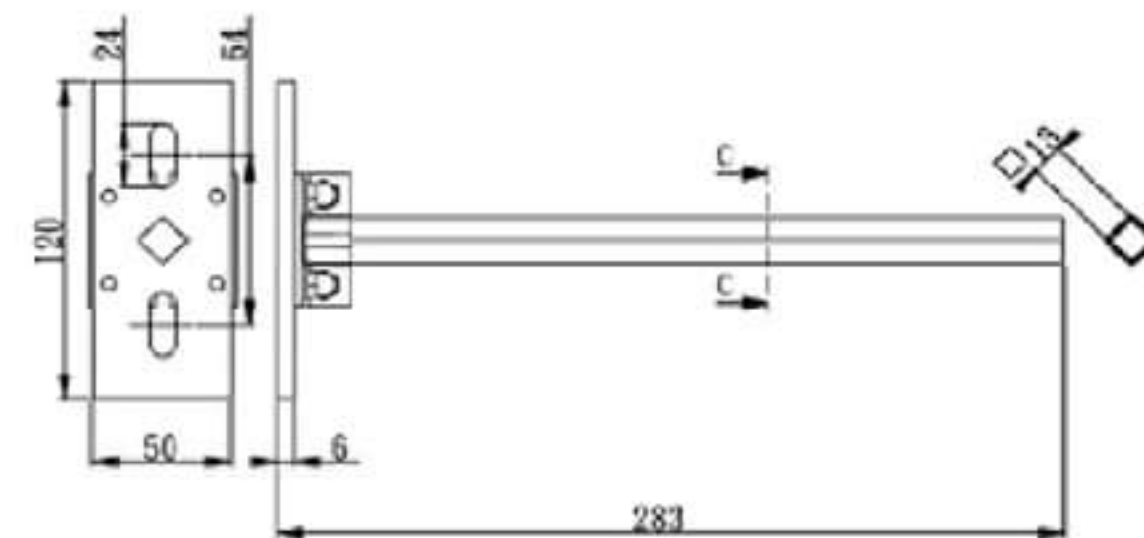
5P 末端電源拉線器  
End Tension &  
Power in

1.75 kg / 支



訂製品

N 雙臂雙支組  
集電架



**KY-AN3800**

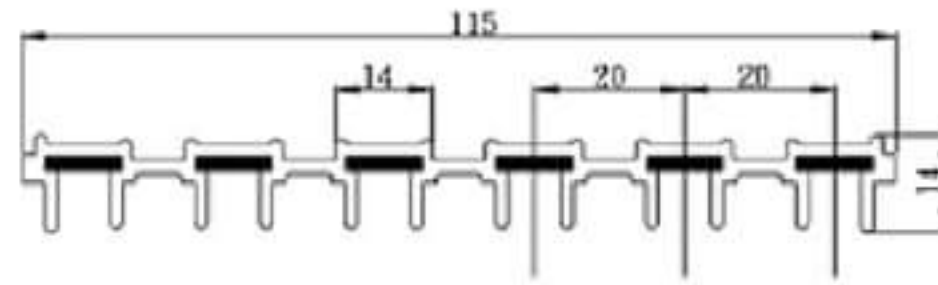
N 單 P 固定桿  
(Fix square bar)

0.7 kg / 支

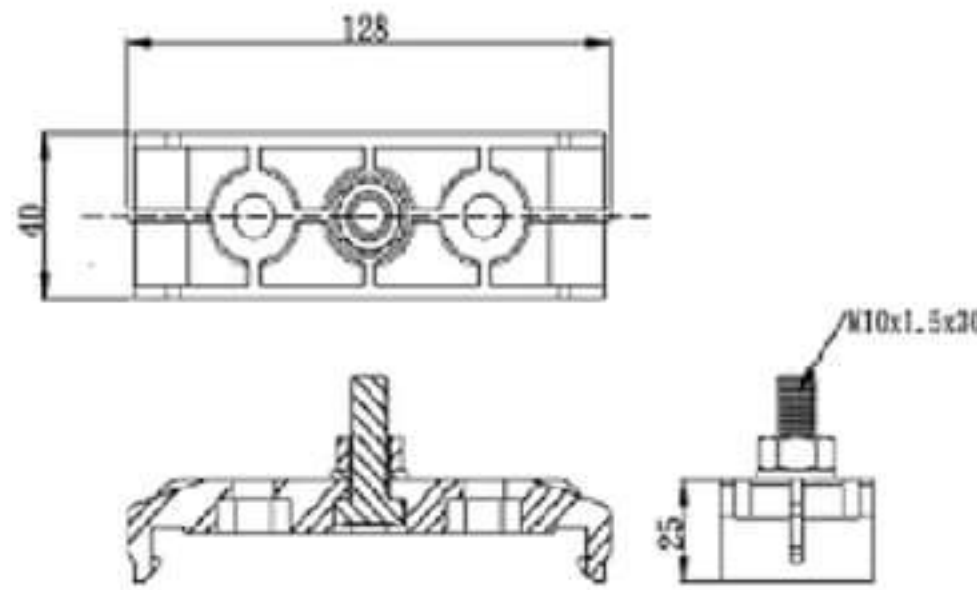




無氧銅99.9%Cu以上含銅量  
100%以上導電率(Good Conductor rate)

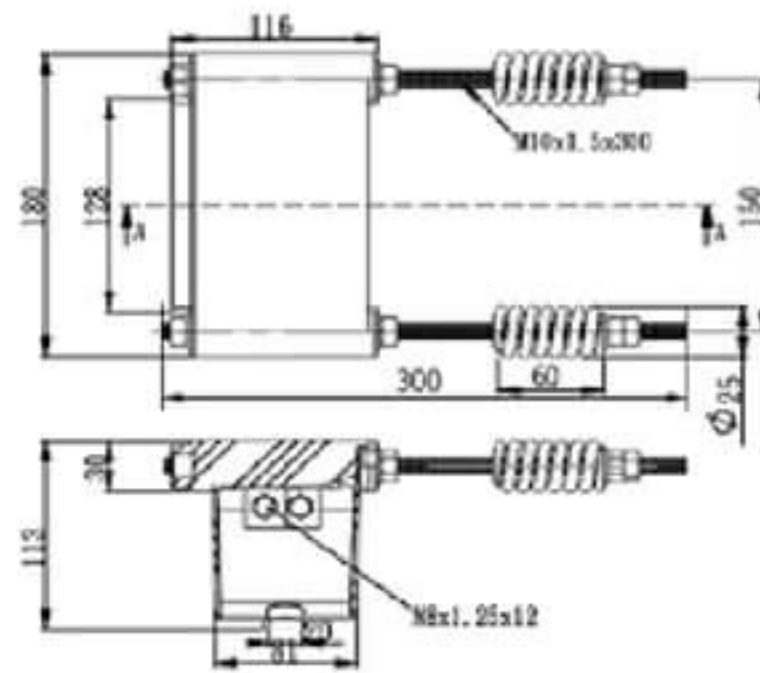


六合一電軌 Four in one				
料號	安培容量 (A)	厚度 (mm)	寬度 (mm)	重量 (Kg/m)
KY-AN6007	75	2	10	1.64
KY-AN6010	100	2.8	10	2.06

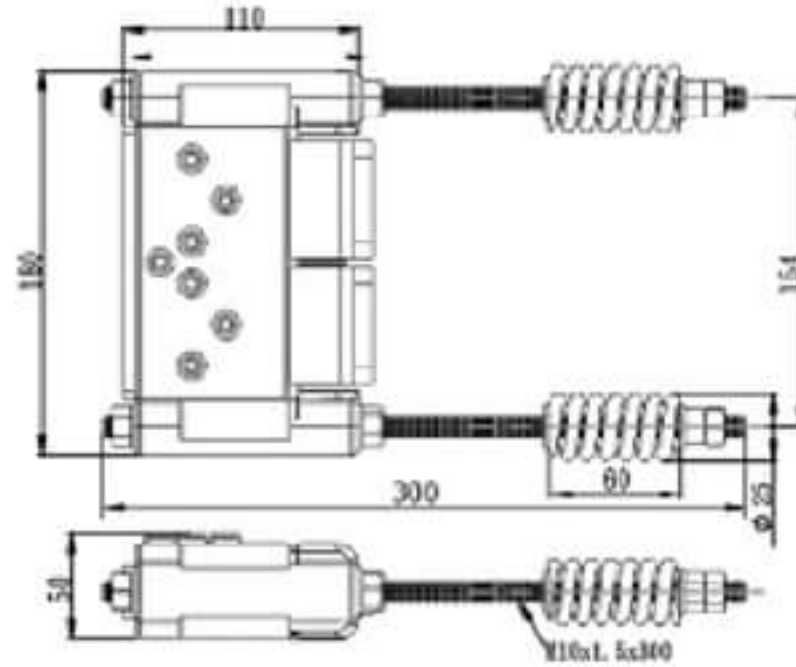


配合C型軌支架  
可使用螺母片M10  
30×20×5t

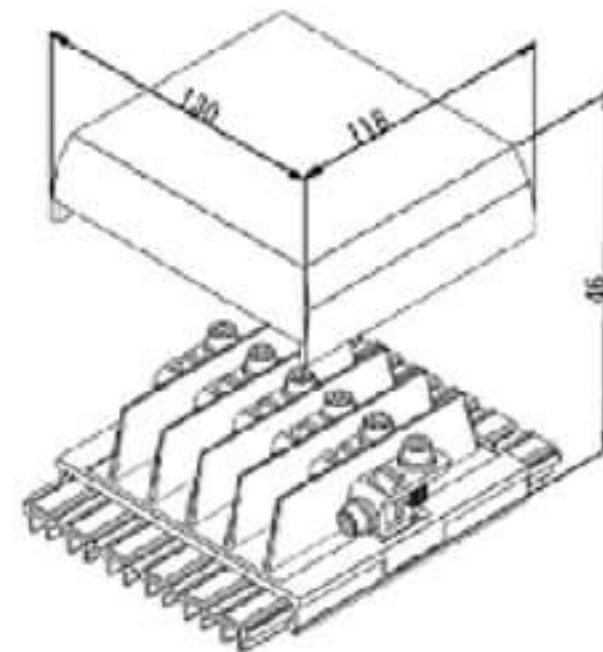
**KY-AN6100**  
6P電軌夾  
(Hanger Clamp)  
0.1 kg / 只



**KY-AN6200**  
6P末端電源拉線器  
End Tension & Power in  
1.9 kg / 支



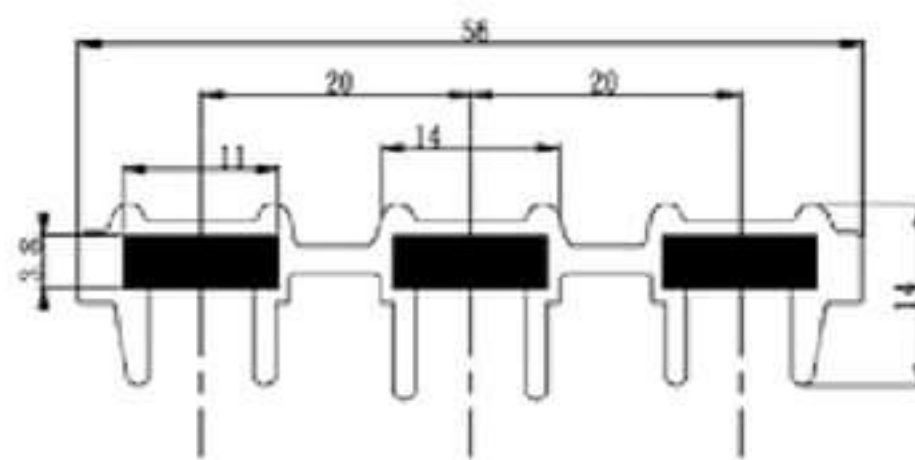
**KY-AN6200N**  
6P免剝皮拉線器  
End Tension & Power in  
1.9 kg / 支



**KY-AN6300**  
6P中間供電器(接頭)  
End tension & Power in  
0.38 kg / 支



## 3P 200A 零件圖 Parts Diagram



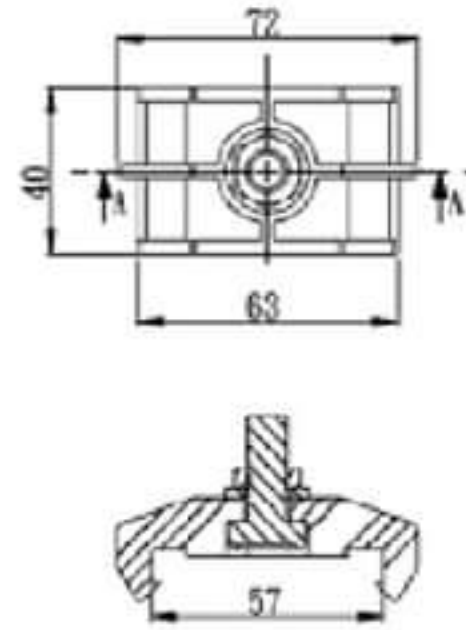
無氧銅99.9% Cu 以上含銅量  
100%以上導電率(Good Conductor rate)  
(依 CNS 273-H2010 規範)

3.8mm 厚 × 11mm 寬  
斷面積 41.8mm<sup>2</sup>

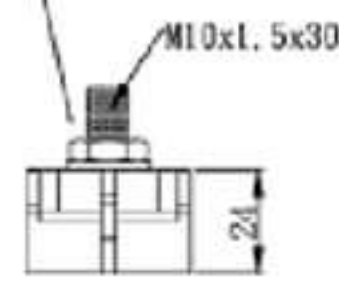
**KY-AN3020**

三合一電軌  
Three in one

1.42 kg / M



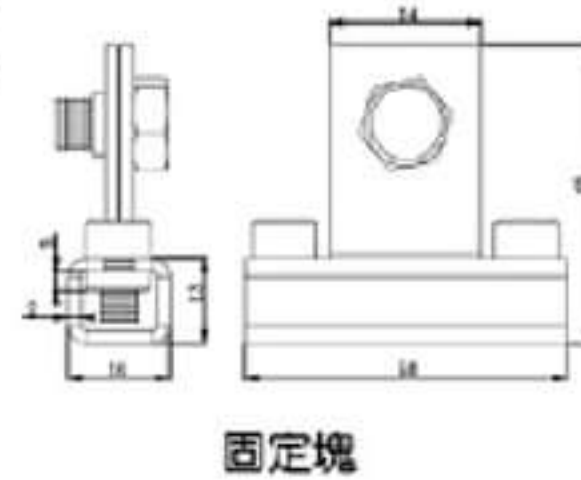
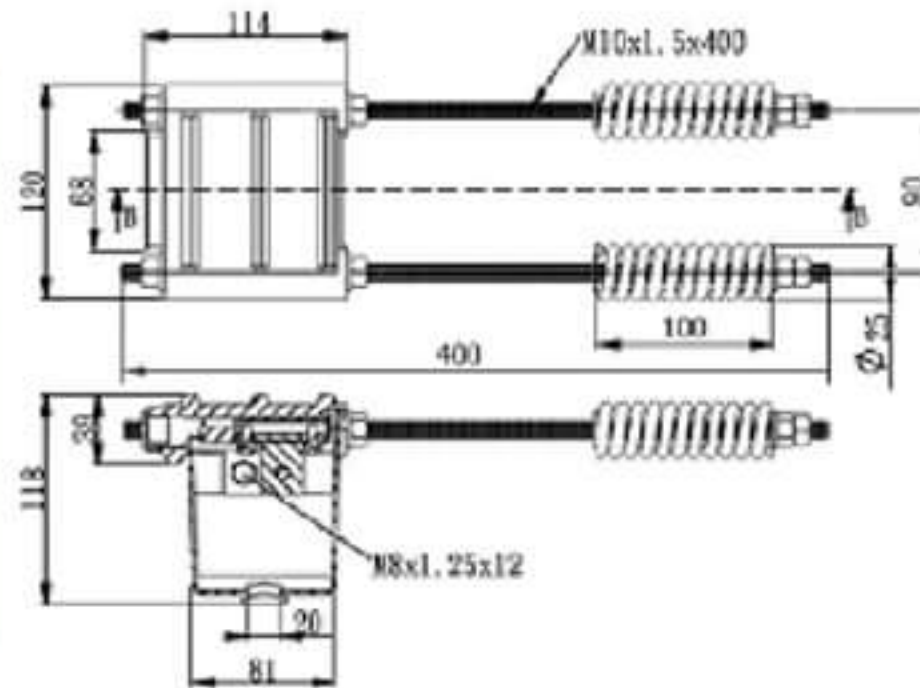
配合C型軌支架及C夾片  
可使用螺母片M10  
30 × 20 × 5t



**KY-AN3120**

3P 電軌夾  
Hanger clamp

0.075 kg / 只



**KY-AN3220**

3P 末端電源拉線器  
End tension & Power in

1.75 kg / 支

### 電軌測試結果報告書

測試項目	材質	測試內容(R/M)	測試內容(V)	滿載壓降(V/M)	220V/100M 壓降率	溫度℃	備註		
W型電軌 800A	鋁	電阻係數	0.000100	耐壓	6KV × 30min	0.08	3.6%	23	
W型電軌 500A	鋁	電阻係數	0.000107	耐壓	6KV × 30min	0.054	2.5%	23	
W型電軌 320A	鋁+紅銅	電阻係數	0.000184	耐壓	6KV × 30min	0.059	2.7%	23	
3P電軌 100A	紅銅	電阻係數	0.000630	耐壓	6KV × 30min	0.057	2.6%	23	
3P電軌 100A	紅銅+白鐵	電阻係數	0.000512	耐壓	6KV × 30min	0.047	2.1%	23	
3P電軌 75A	紅銅	電阻係數	0.000882	耐壓	6KV × 30min	0.066	3.0%	23	

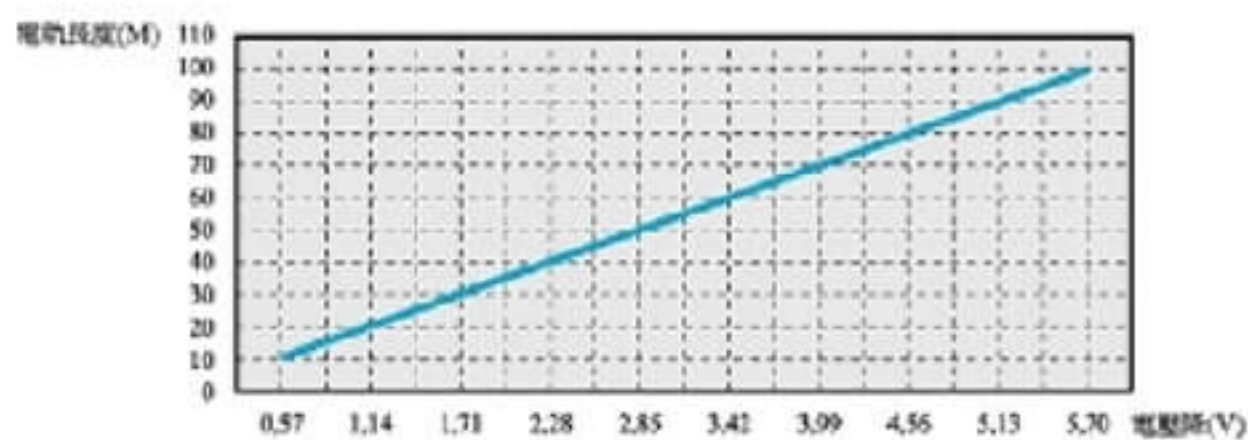
量測機構：工業技術研究院(量測中心)  
測試儀器請參照附件

製造廠及型號：  
ESI 242D  
KIKUSUI TOS-8700  
TAMA-TDV-20ADS

儀器名稱：  
PRECISION RES. MEASUREMENT SYSTEM  
WITHSTANDING VOLTAGE TESTER  
HIGH VOLTAGE DIGITAL METER

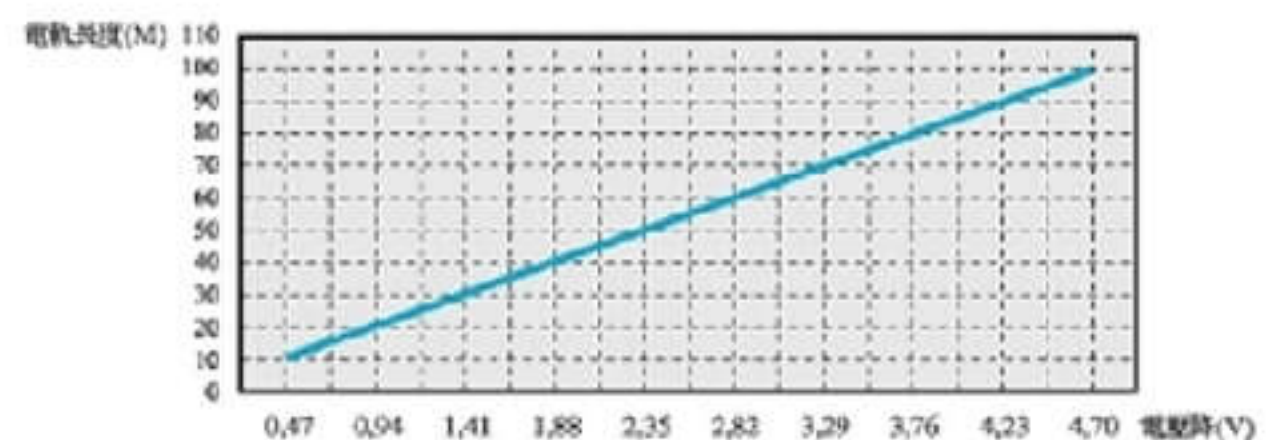
### 3P 100A(銅)

長度(M)	10	20	30	40	50	60	70	80	90	100
電壓降(V)	0,57	1,14	1,71	2,28	2,85	3,42	3,99	4,56	5,13	5,70



### 3P 100A(白鐵)

長度(M)	10	20	30	40	50	60	70	80	90	100
電壓降(V)	0,47	0,94	1,41	1,88	2,35	2,82	3,29	3,76	4,23	4,70



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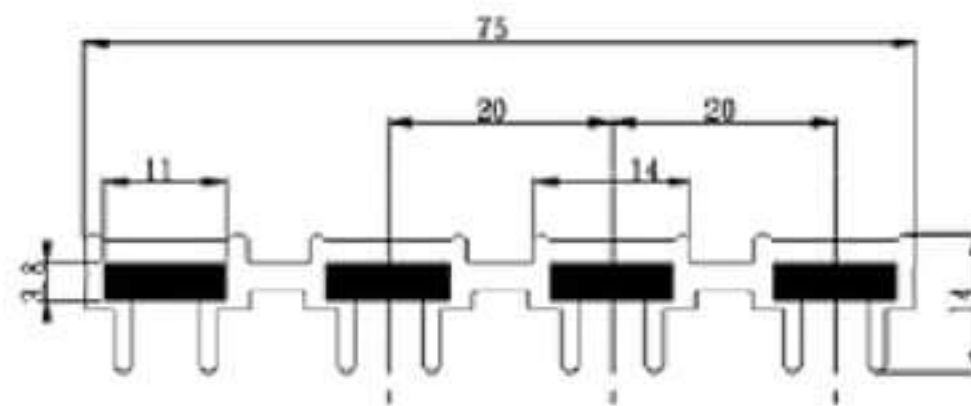
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39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

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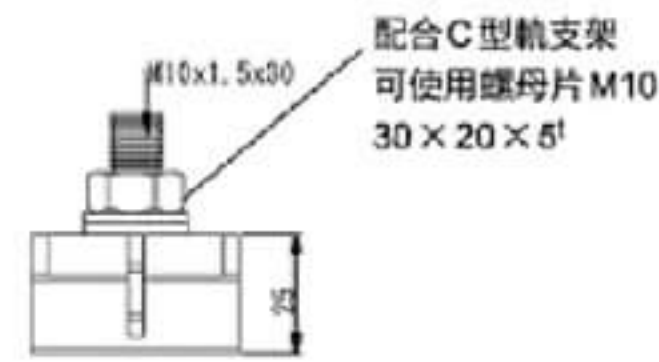
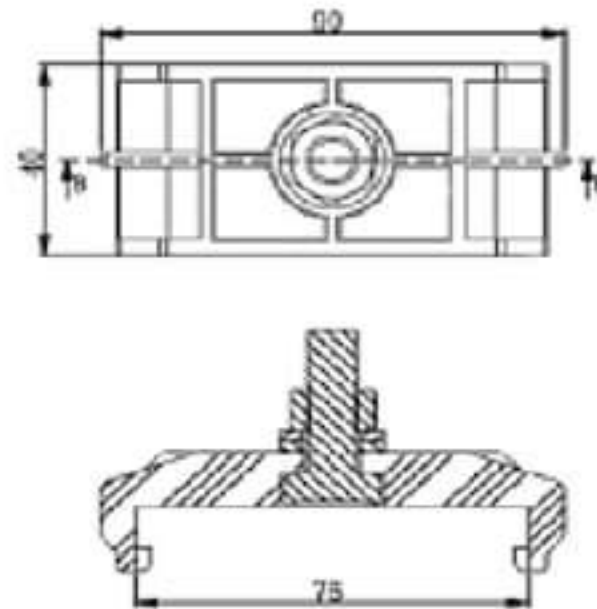
無氧銅 99.9%Cu以上含銅量  
100%以上導電率(Good Conductor rate)  
(依 CNS 273-H2010 規範)

3.8t厚 × 11寬  
斷面積41.8mm<sup>2</sup>

**KY-AN4020**

四合一電軌  
(Four in one)

1.9 kg / M

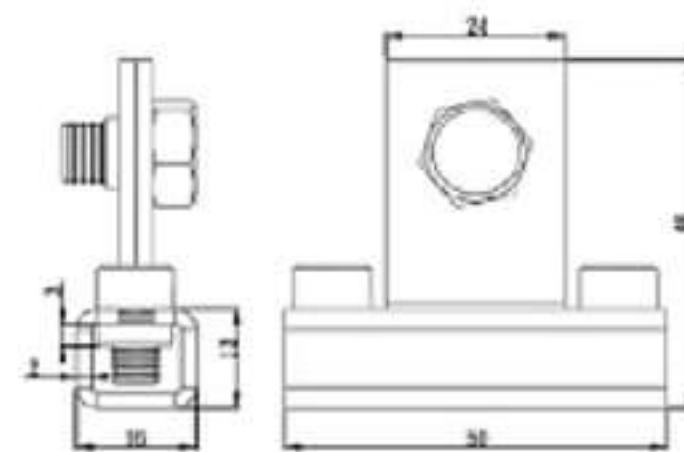
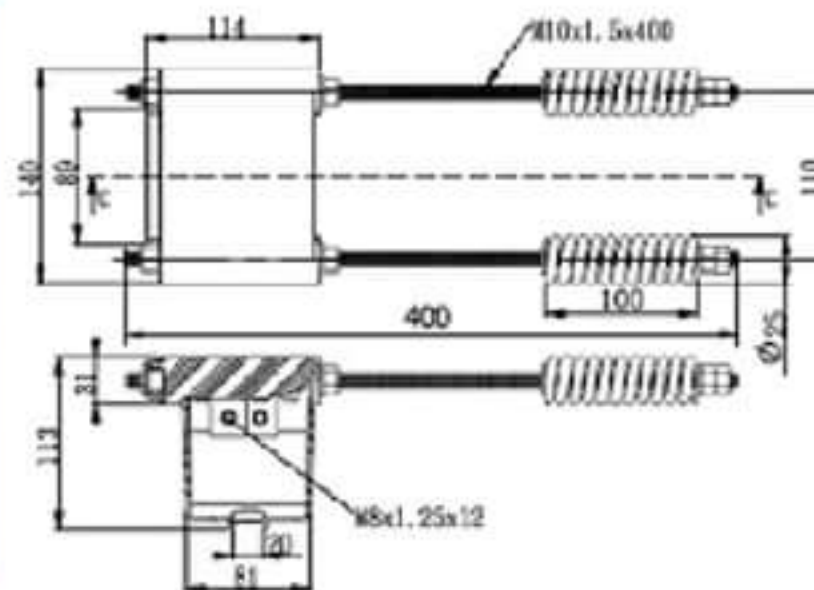


配合C型軌支架  
可使用螺母片M10  
30 × 20 × 5<sup>t</sup>

**KY-AN4120**

4P 電軌夾  
Hanger clamp

0.083 kg / 只

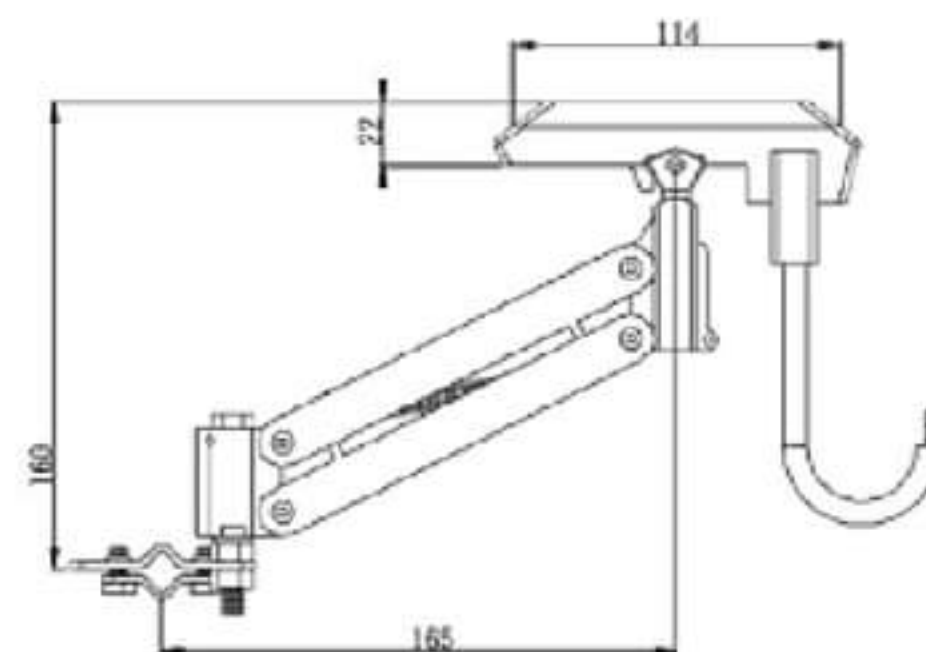


固定塊

**KY-AN4220**

4P 末端電源拉線器  
End tension & Power in

1.75 kg / 支



**KY-AN3710**

N 雙臂集電器 100A  
Current Collector



**KY-AN4300**

4P 中間供電器(接頭)  
End tension & Power in

0.34 kg / 只



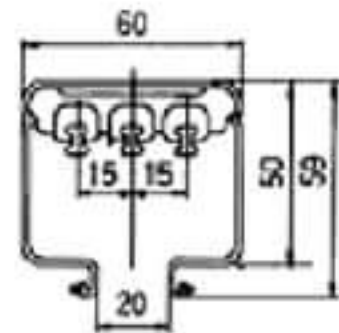
※可配合另一含碳刷  
之集電器，組成雙支  
組，移動清潔電軌

清潔刷  
訂製品





Straight line duct

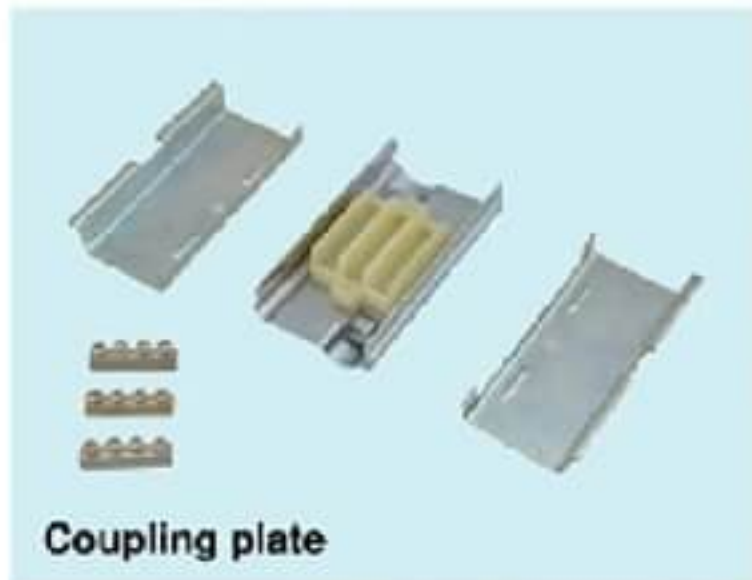


**KY-D3003 (6133)**  
ND3P 盒型電軌  
3 kg / M

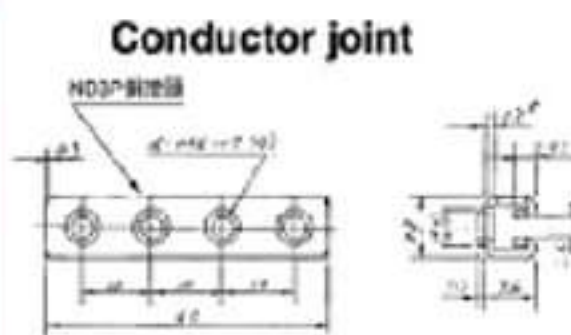
**KY-D3702 (6175)**  
ND3P 集電滑車  
20A  
0.7 kg / 只



Trolley 3P20A



Coupling plate



**KY-D3500(61331)**  
ND3P 電軌接頭  
0.3 kg / 只

**KY-D3704(6276)**  
ND3P 集電滑車  
40A  
0.8 kg / 只



Trolley 3P40A



Hanger



**KY-D3100(6111)**  
ND3P 電軌吊夾  
0.3 kg / 只

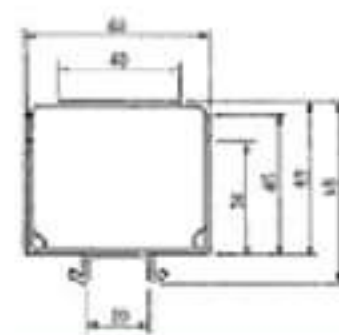
**KY-D3600(6117)**  
ND3P 滑車撥桿



Trolley-pulling bracket



End cap



**KY-D3201(6112)**  
ND3P 電軌末端蓋  
0.4 kg / 只

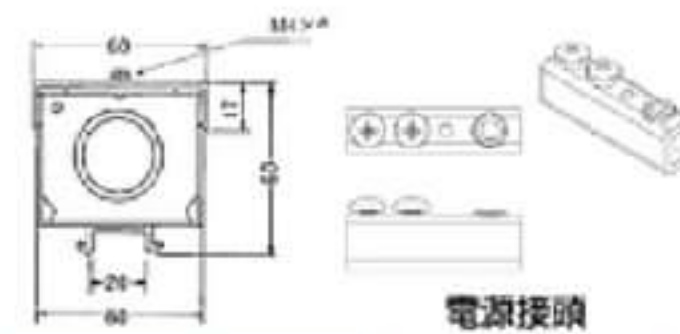
**K-YD3001(6001)**  
ND3P 滾動電刷  
**KY-D3902(6102)**  
ND3P 集電刷 20A  
**KY-D3904(6104)**  
ND3P 集電刷 40A



ND3P 滾動電刷 20A 40A  
Trolley collectors



Feed-in boxes



**KY-D3200(6173)**  
ND3P 末端入電盒  
1.2 kg / 只

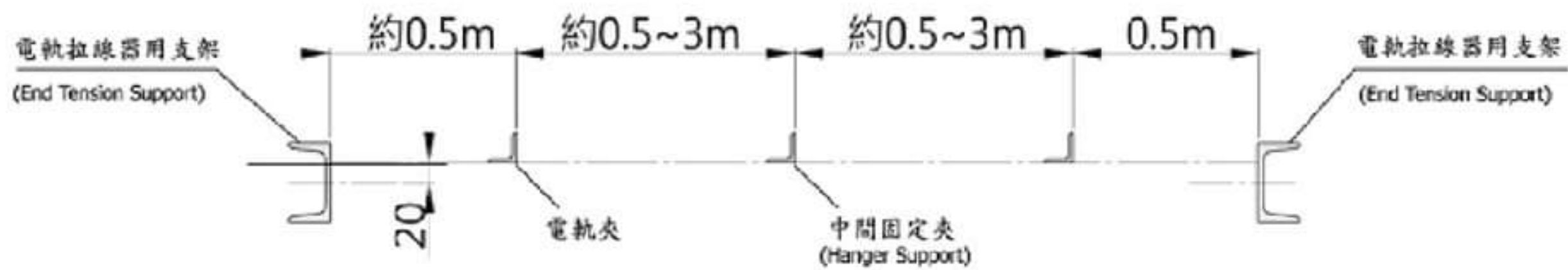
特殊定製品  
水平彎曲電軌



Curved ductc



第一步 按裝設計 (Supports design)



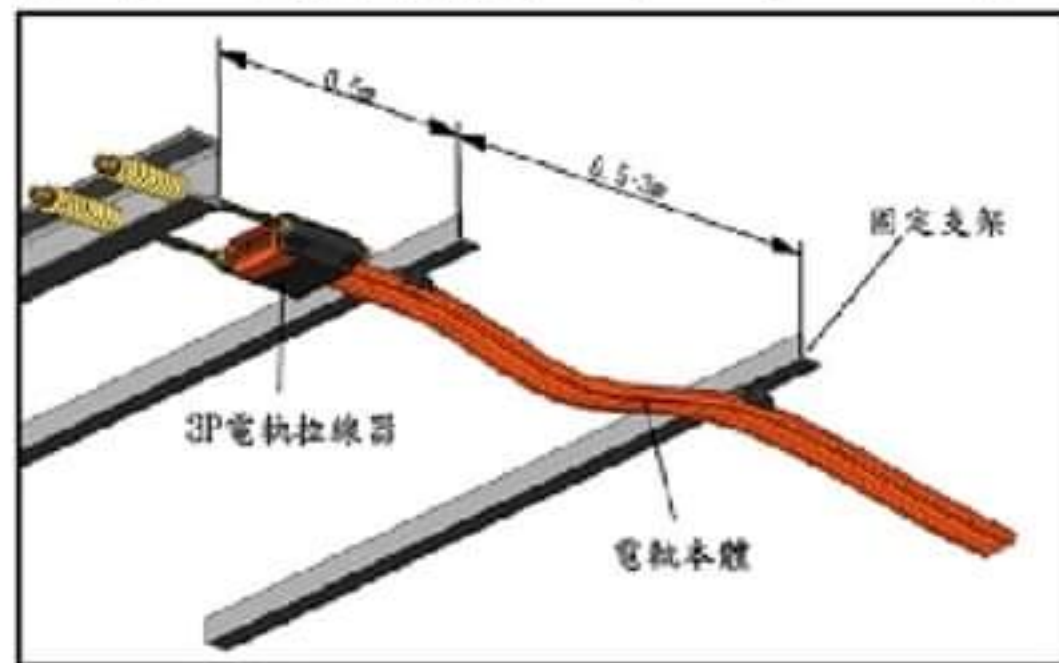
附註：  
 • 3P · 4P · 5P · 6P 電軌配有弧度時，必須採用側式施工。  
 • 在轉彎處起點開始算，每 0.5M 配一只電軌夾。

• 3P · 4P · 5P · 6P 電軌拉線器架設須比電軌夾高約 5mm，以防順電軌而下至電源拉線器處，造成短路現象。  
 ★ 註：拉線器與電軌接合處應塗上矽膠  
 ★ 3P · 4P · 5P · 6P · 7P 電軌不適用於室外或鹼鹼成份高之場所，易短路。

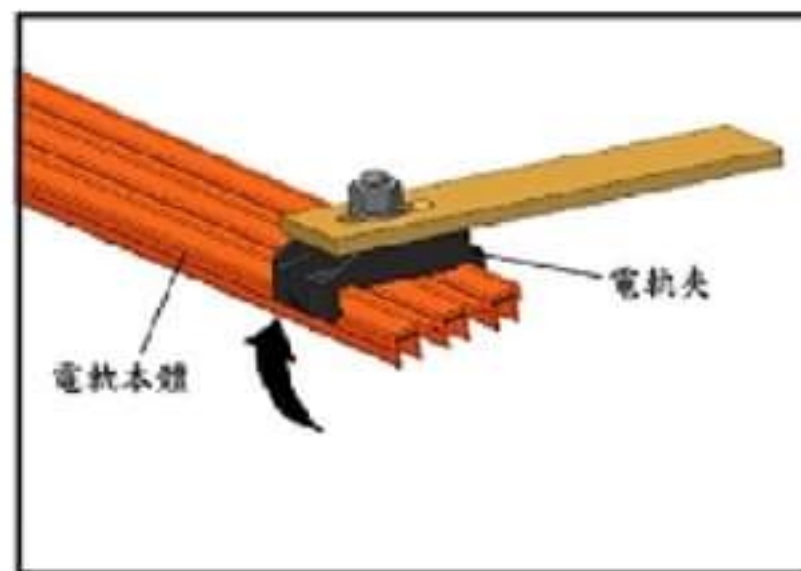
第二步 末端拉線器按裝 (End tension & power in parts)

\* 於地面先裝好一端

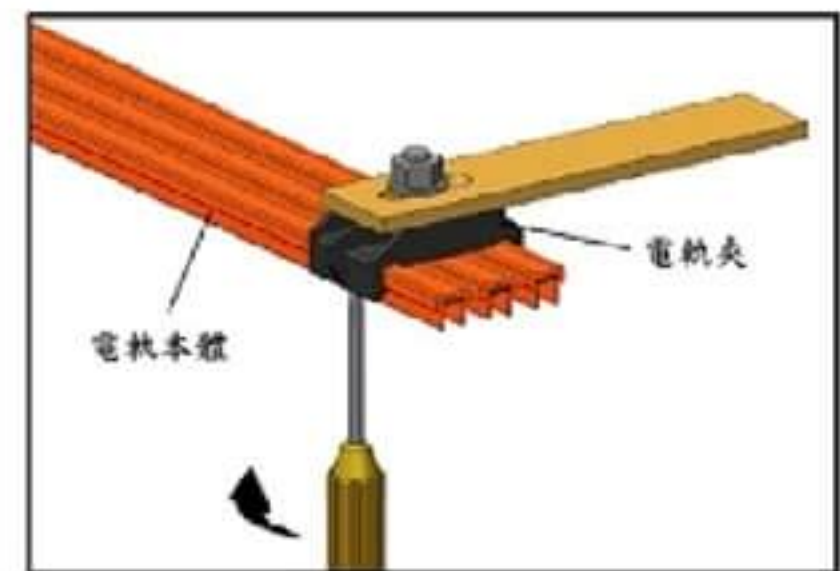
第三步 電軌夾部分 (Set, Hanger clamp)



• 電軌本體一邊對準電軌吊夾向上推進即可完成  
 • 若電軌裝上如要拆下時，利用一平口起子，在電軌夾兩側凹槽處輕輕挑起即可。



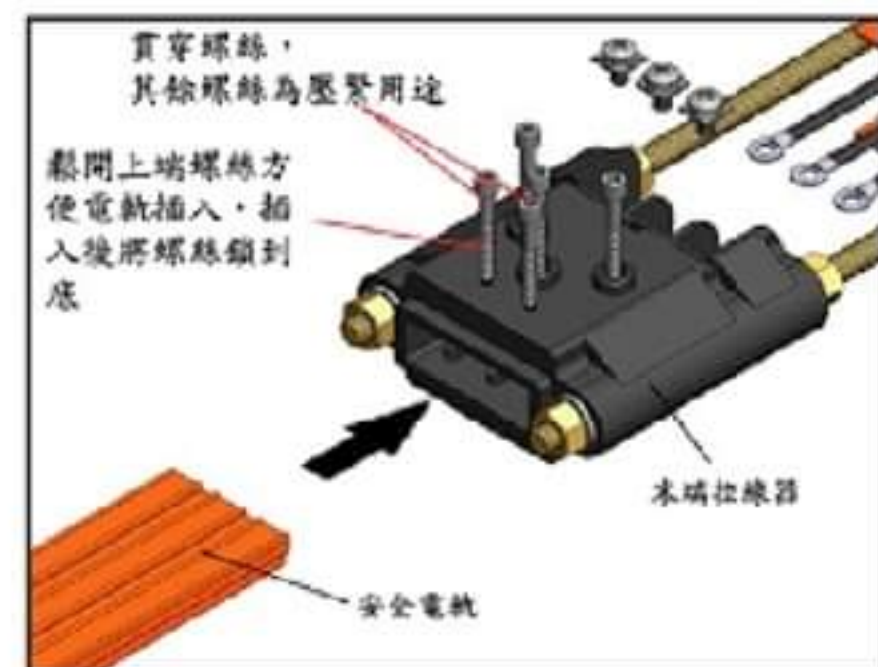
• 電軌本體一邊對準電軌吊夾向上推進即可完成



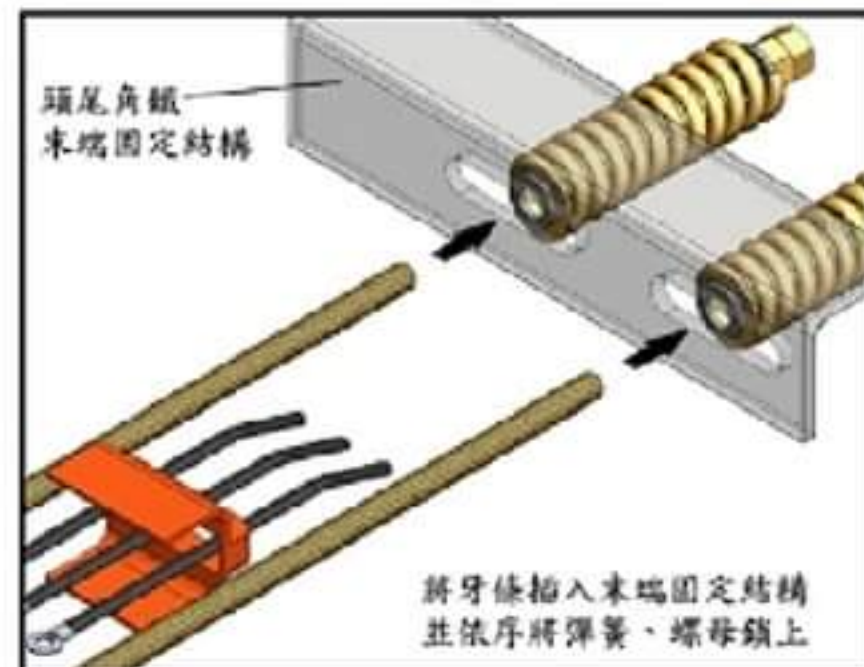
• 若電軌裝上如要拆下時，利用一平口起子，在電軌夾兩側凹槽處輕輕挑起即可。

第四步 末端拉線器按裝 (End tension & power in parts)

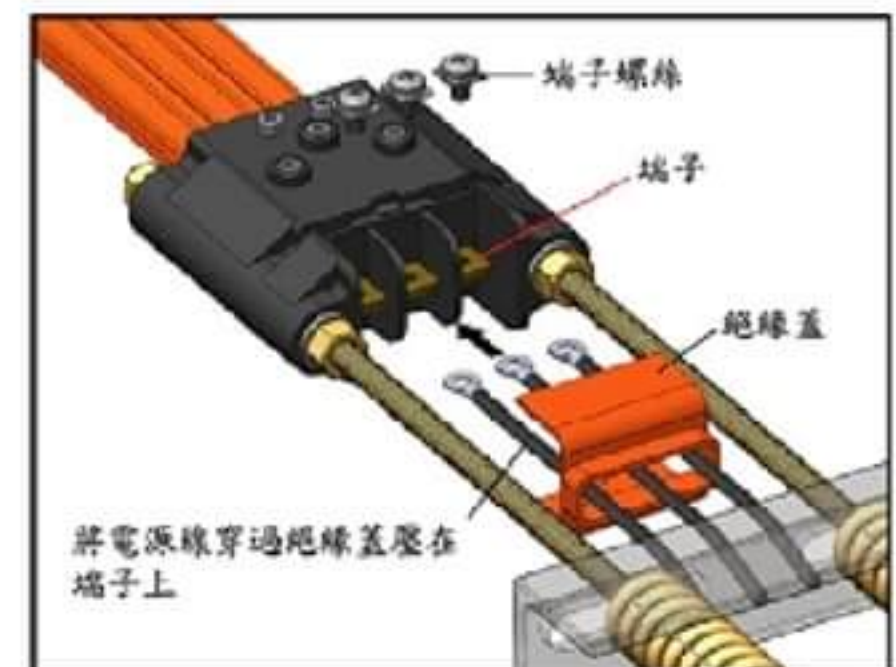
\* 待上好電軌，再行按裝另一端



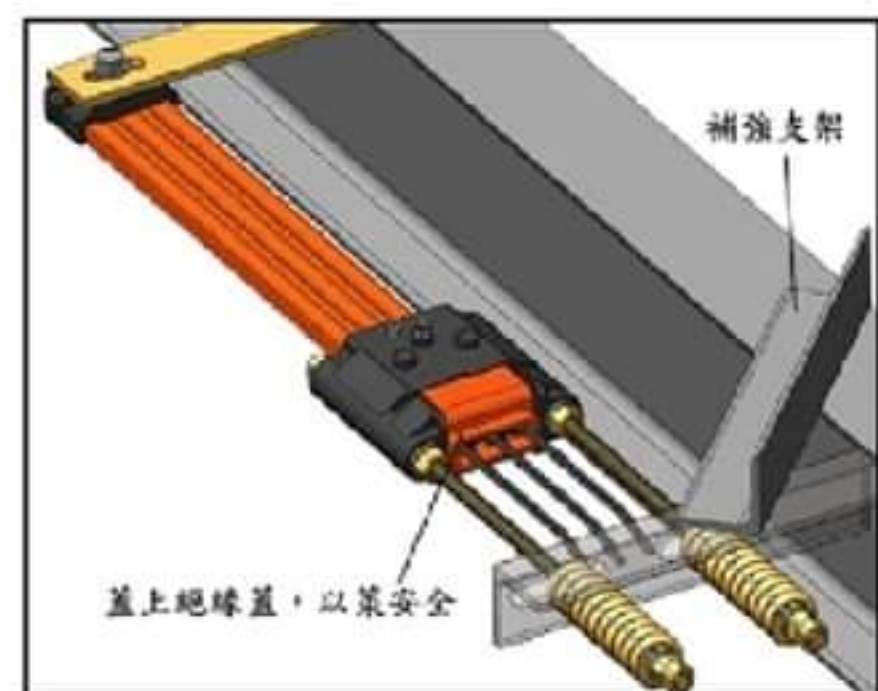
4-1 以 3P 電軌作為安裝範例



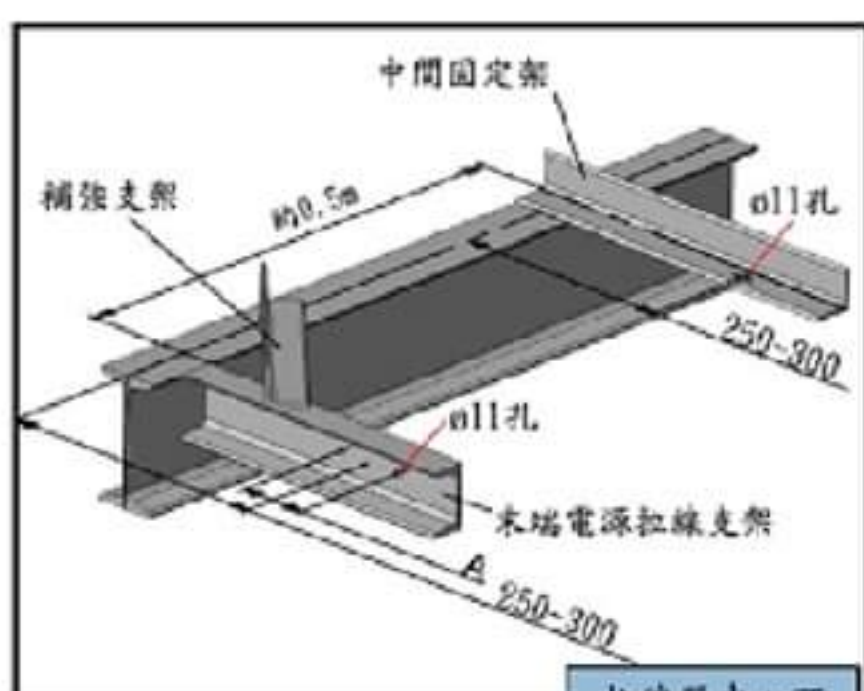
4-2



4-3



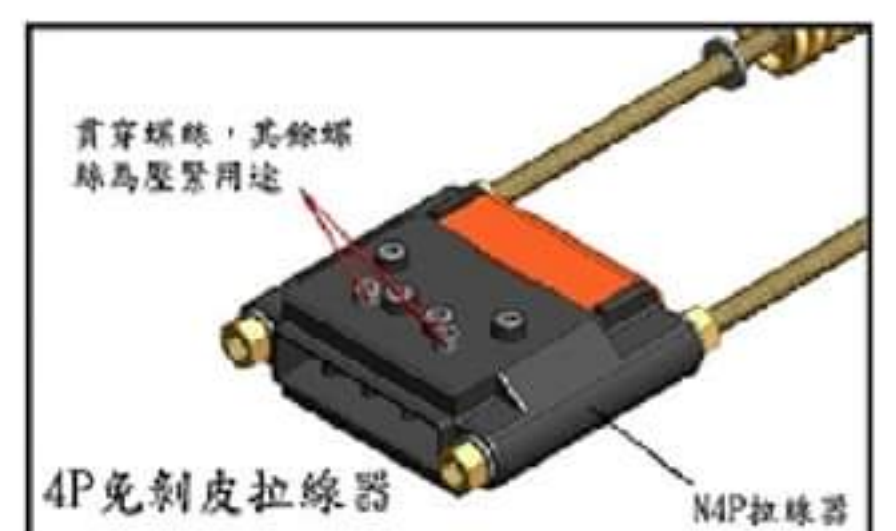
4-4



4-5

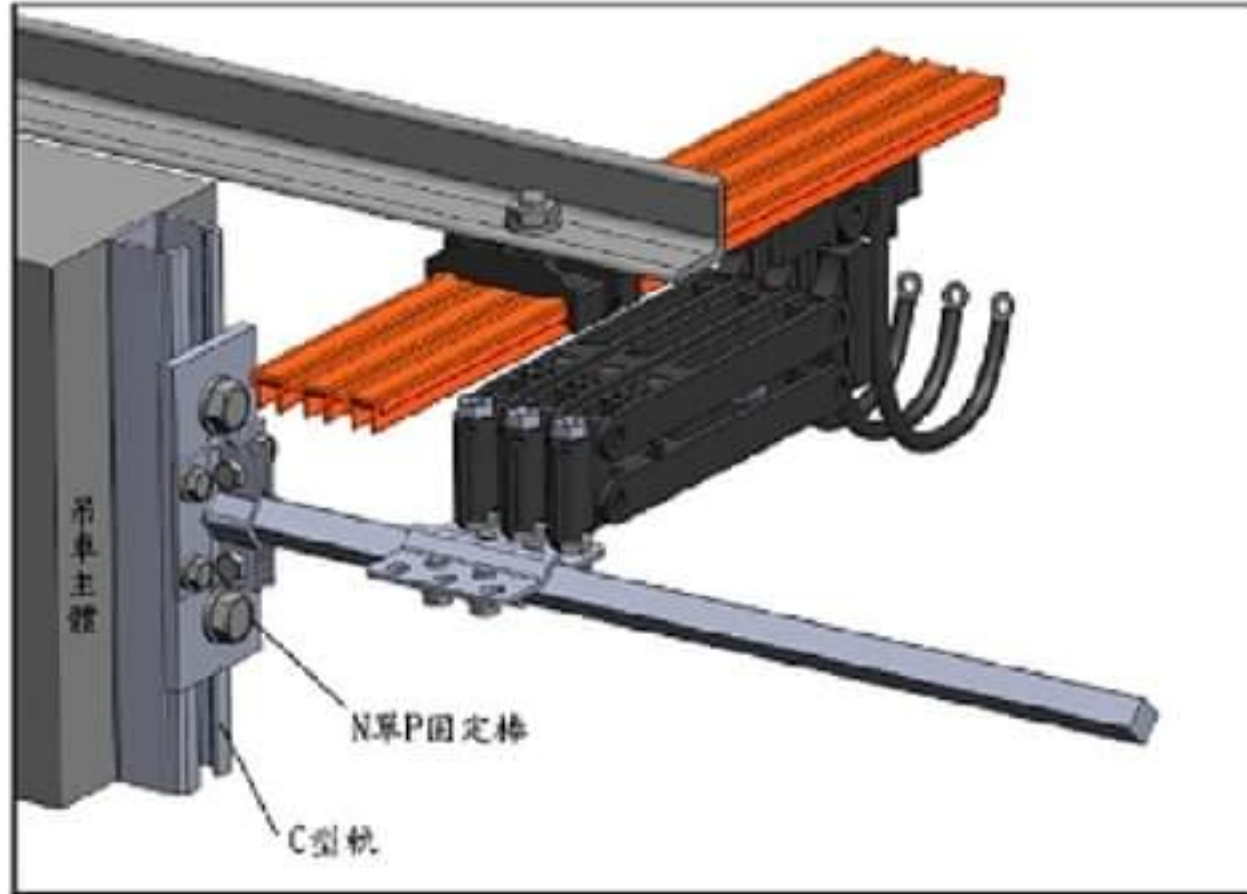
★ 請注意兩頭電源拉線器內三個端子板螺絲 M8 × 16 務必鎖緊，以防鬆脫短路。

拉線器中心距	A
3P	90
4P	110
5P	130
6P	150
7P	170



### 第五步 N單P固定桿與集電架按裝 (Fix square bar/current collector)

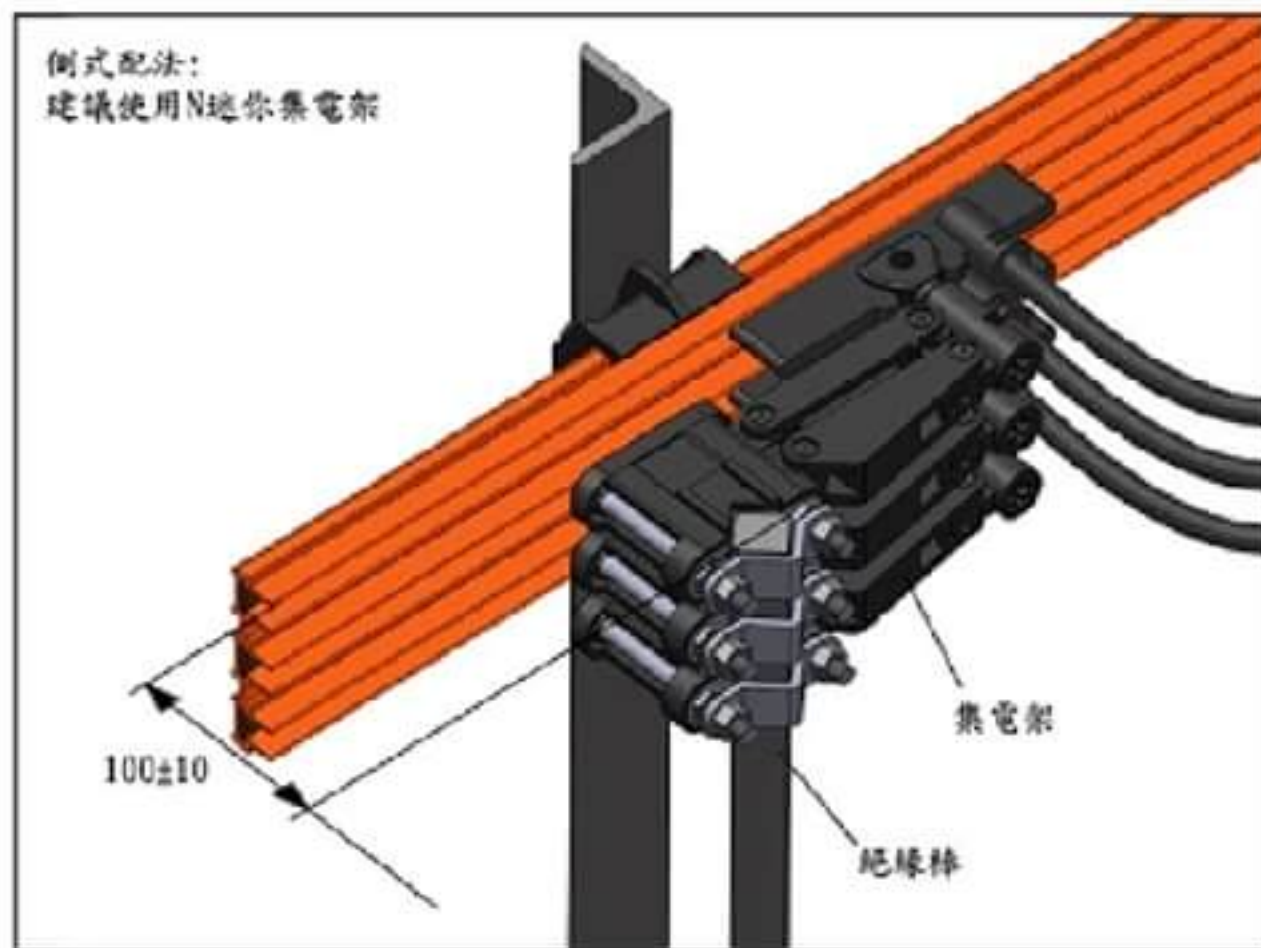
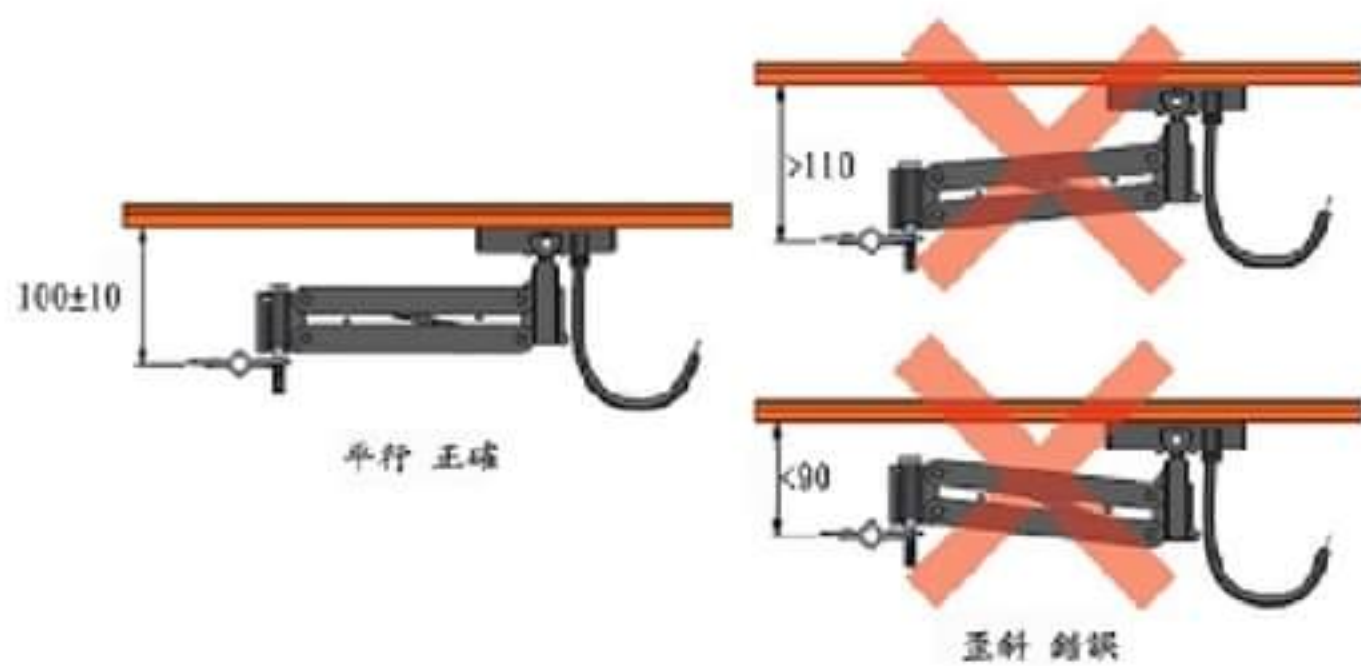
- 棒固定於主體可電焊或鎖螺絲
- 棒固定其角度，為角棒兩對角線正視為水平及垂直
- 棒裝設應與電軌平行
- 長度可視需要切短



- \* 電刷片磨耗時，僅需換上新電刷片即可。
- \* 雙支組集電架被選擇於上下起伏或環形等特別設計上。

### 集電架按裝法

(Three or Four or Five in one Current Collector)

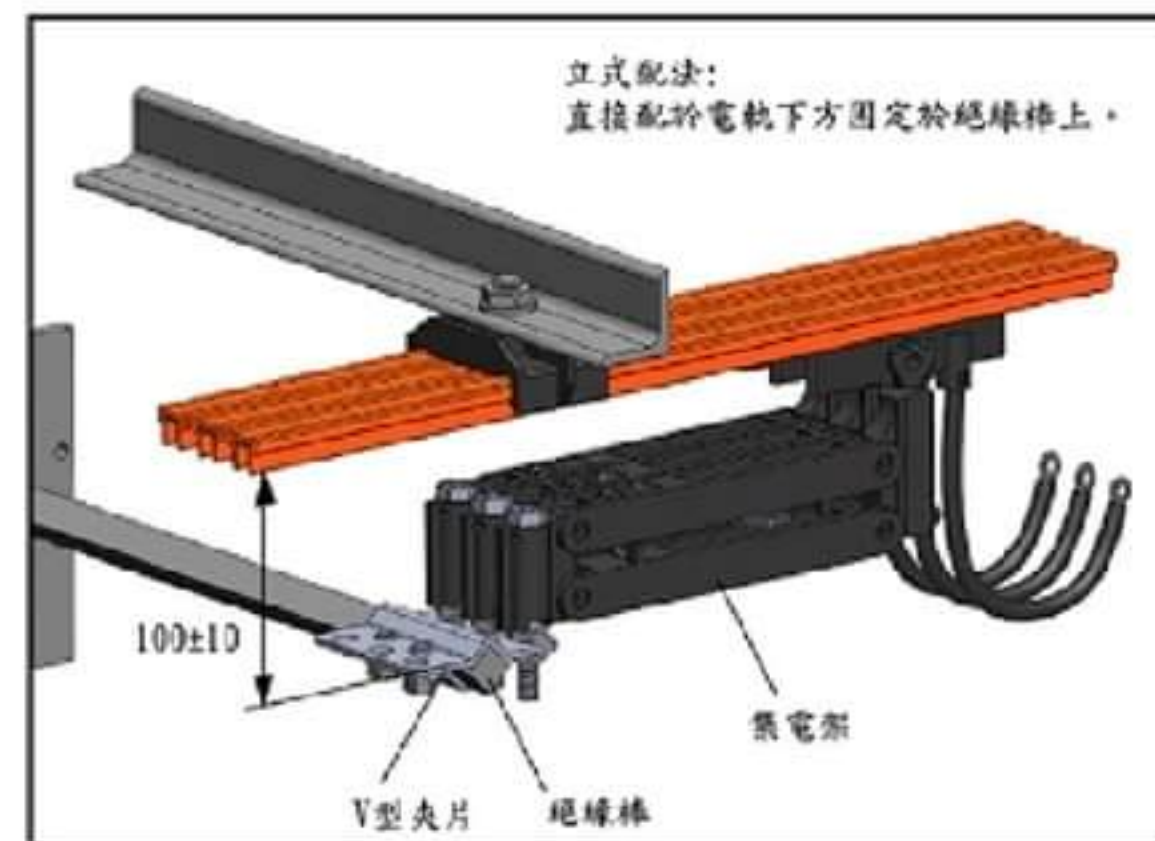


您車間的桁車使用管道式滑觸線時，  
有突然斷電或接觸不良的困擾嗎？

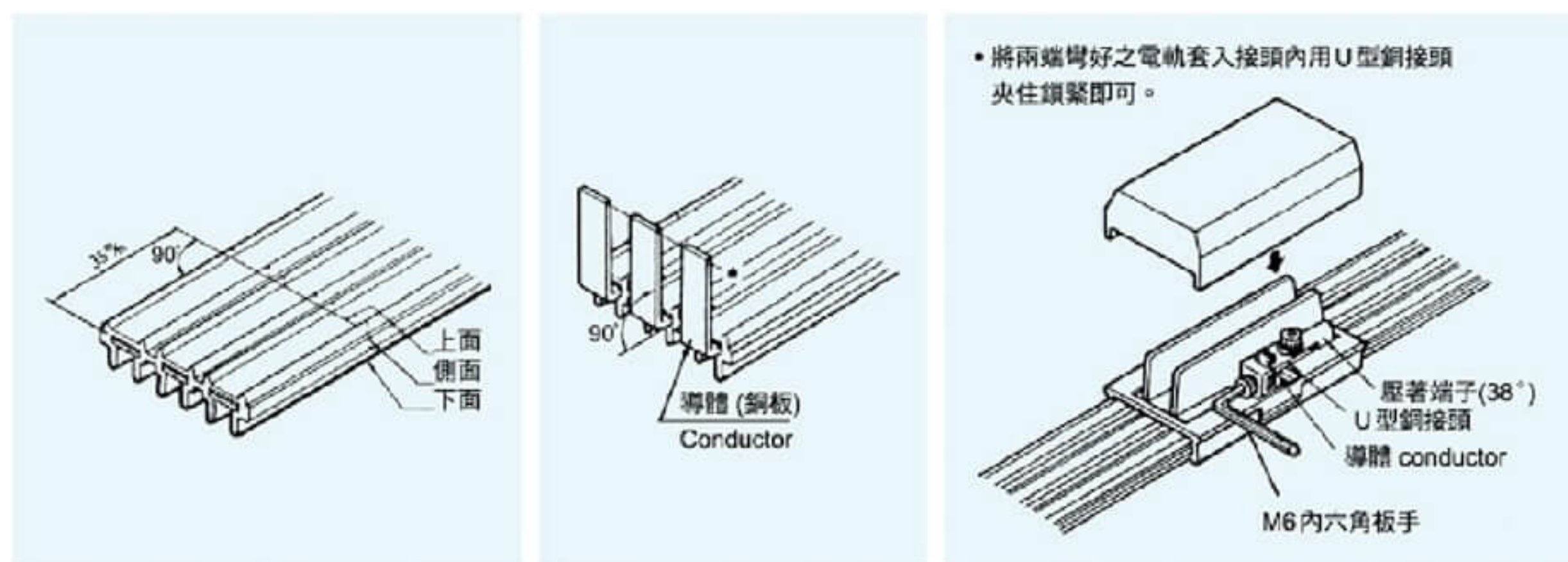
此種吊在半空中的危險畫面，  
請改用連續型無接頭式四合一安全電軌，  
馬上解決您上述頭痛的問題！

• 此參考表適用於大陸地區 •

KYEC 連續型無接頭電軌	他牌管道式滑觸線
1. 導體為無氧銅、導電佳、質純、色均面亮	1. 表面色暗不均勻
2. 銅與塑膠密合接觸，不因振動而接觸不良	2. 鋼與塑膠間隙大，易因行走振動而接觸不良
3. 絕緣體為氯乙烯+耐衝擊、抗紫外線、特殊配方、物理性佳	3. PVC+滑石粉過多，易脆及不耐衝擊
4. 無接頭、壓降小	4. 4M銜接、接頭多、故障多、降壓大
5. 零件少電動夾為卡入式按裝易，按裝時間可省1/2	5. 零件多、需調整、按裝繁瑣、按裝費時
6. 集電架、臂長、獨立拉簧、活動弧度大	6. 活動空間小，稍有起伏易接觸不良



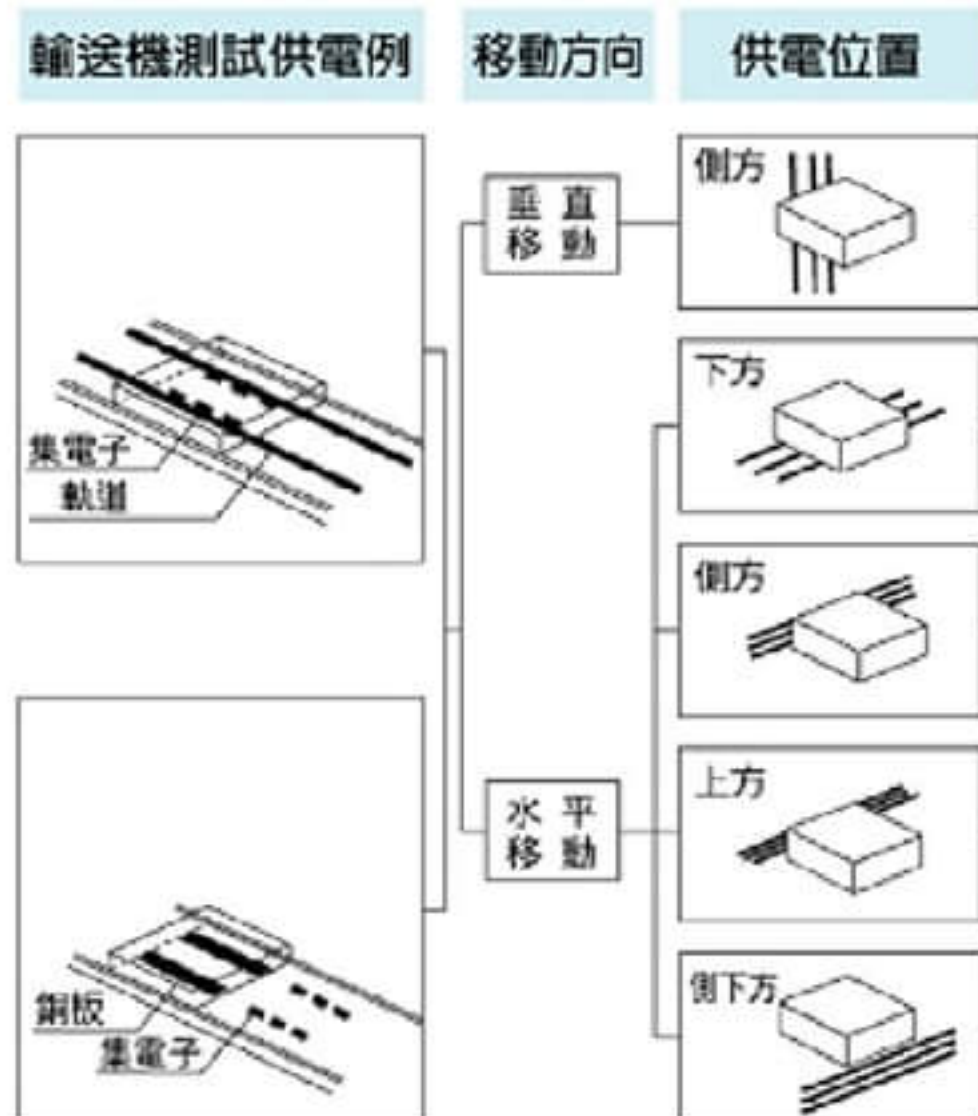
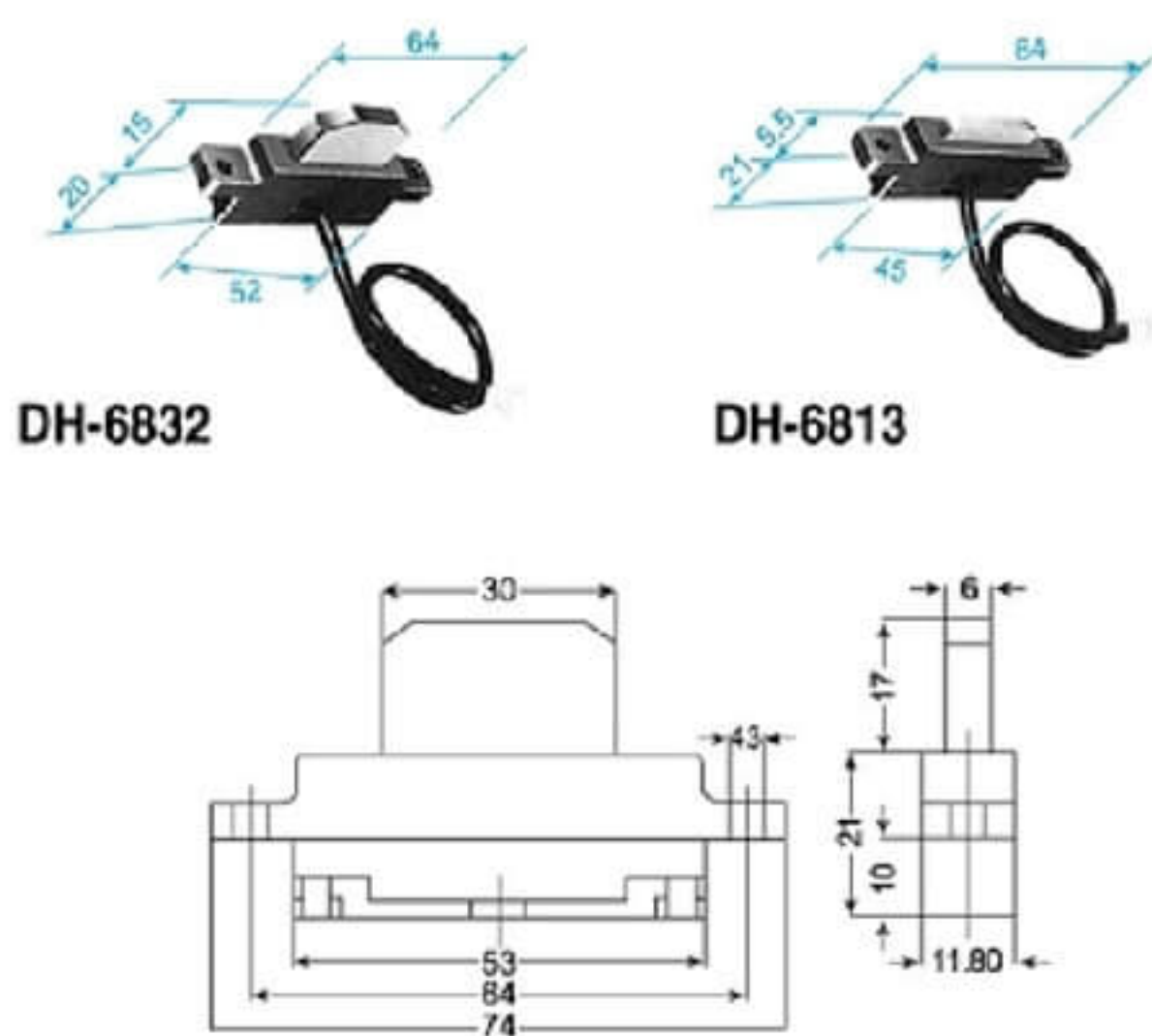
### 3P電軌接頭 (3P Connector & Middle power feed in)



### 結合 (Fixing Parts for N&P Current Collector)

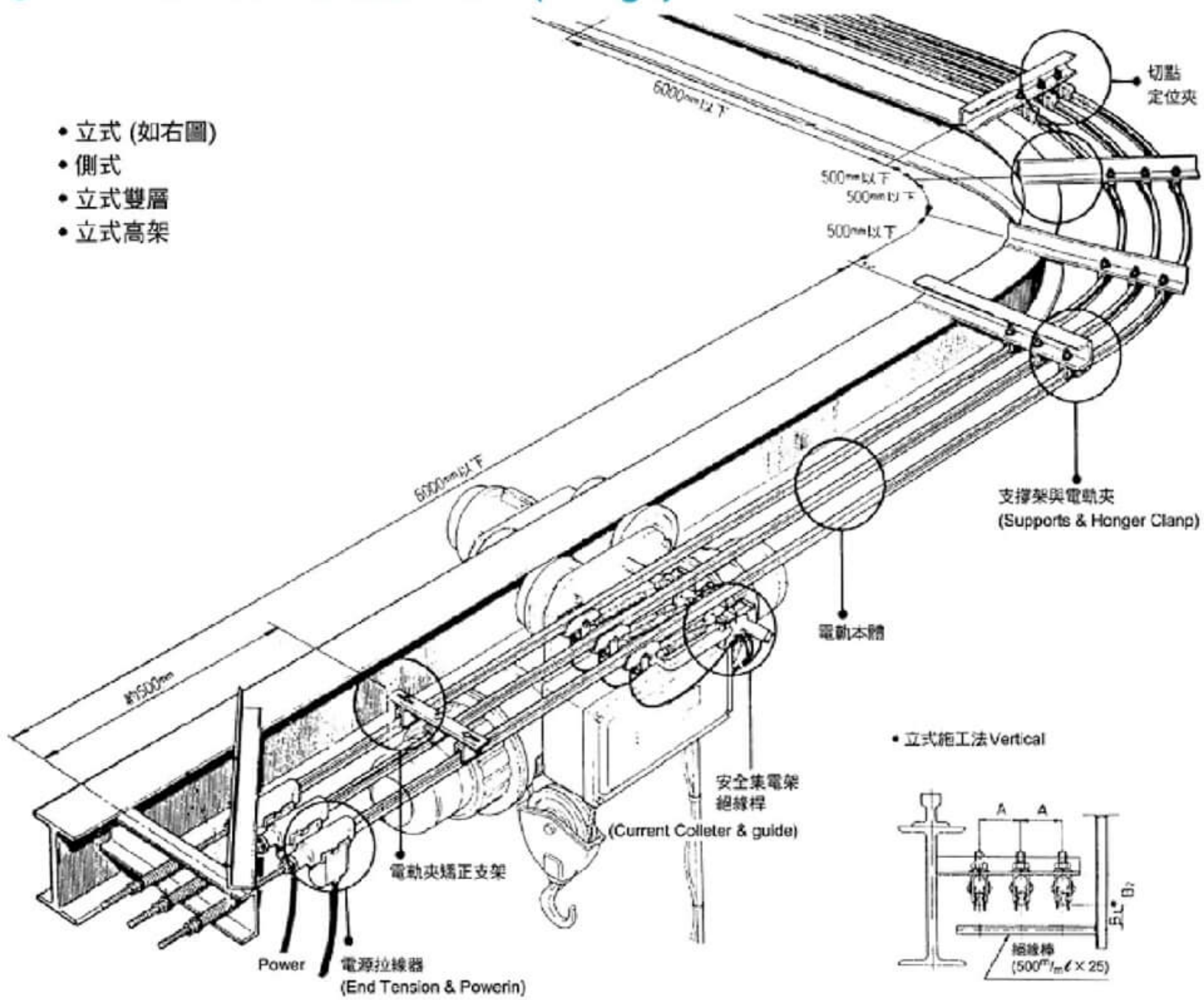


### 集電子 輸送機測試系統用

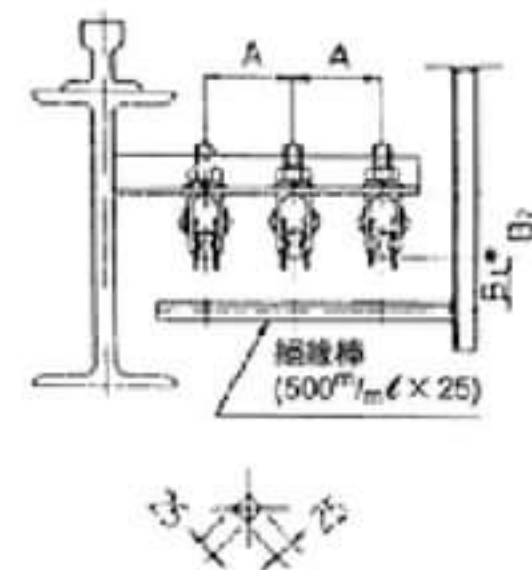


## 參：工字型安全電軌施工設計 (Design)

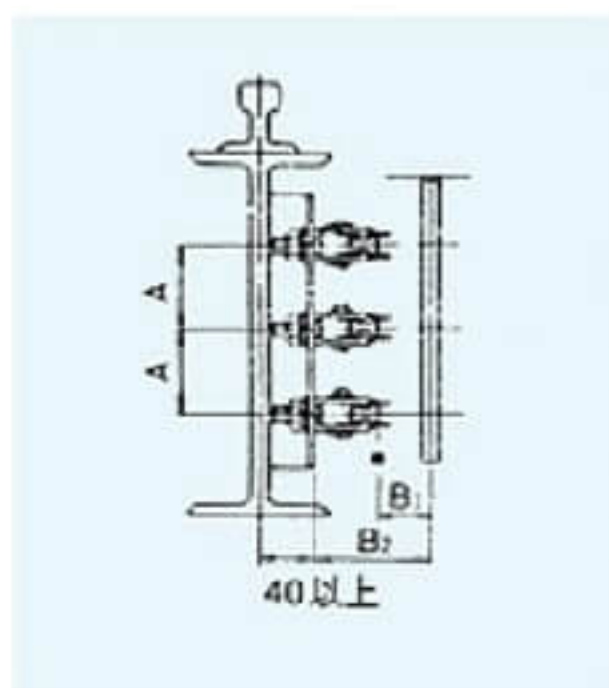
- 立式 (如右圖)
- 側式
- 立式雙層
- 立式高架



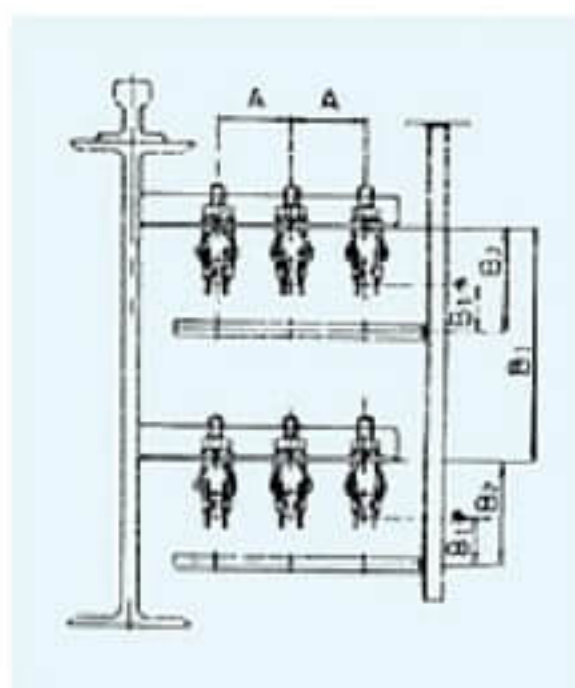
• 立式施工法 Vertical



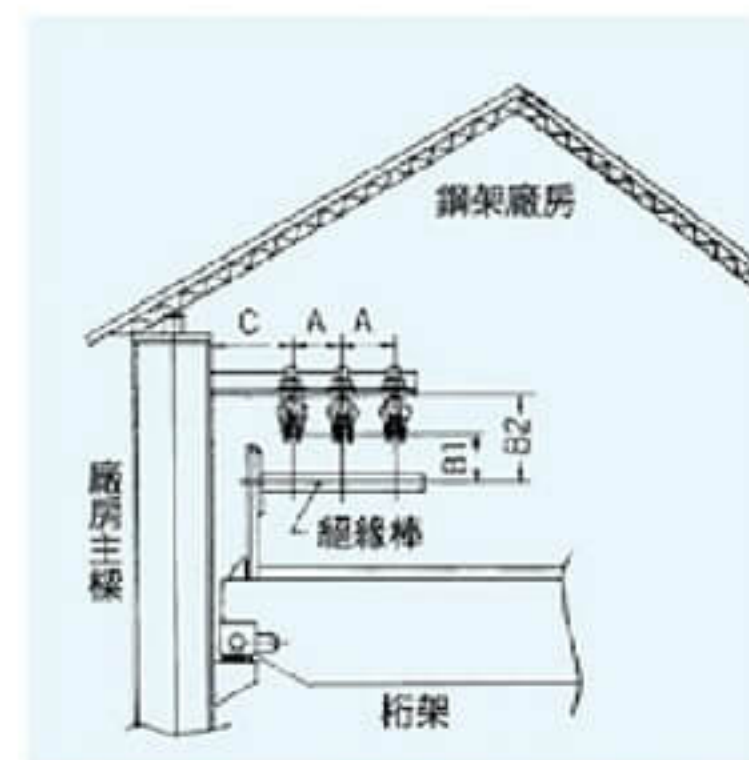
• 側式施工法 (On Side)



• 立式雙層施工法 Vertical (Double)



• 立式高架施工法 (Above)



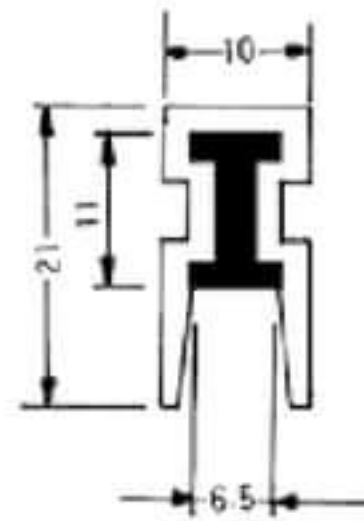
A	最小 min	75
	標準 standard	100

B	B 1	95
	B 2	130
	B 3	290

C	最小 (min)	150
	標準 standard	200



工字型安全電軌零件圖(Parts Diagram)

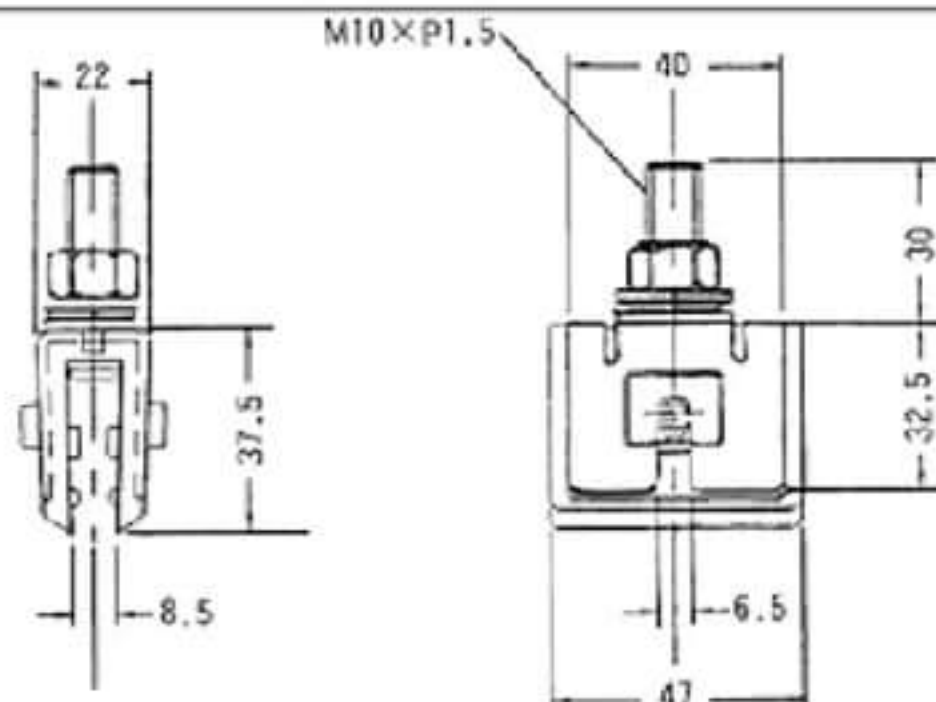


無氧銅99.9%Cu以上含銅量  
100%以上導電率(Good Conductor rate)  
(依CNS 273-H2010規範)

**KY-AN1015**

工字型電軌  
"I" Type

0.47 kg / M

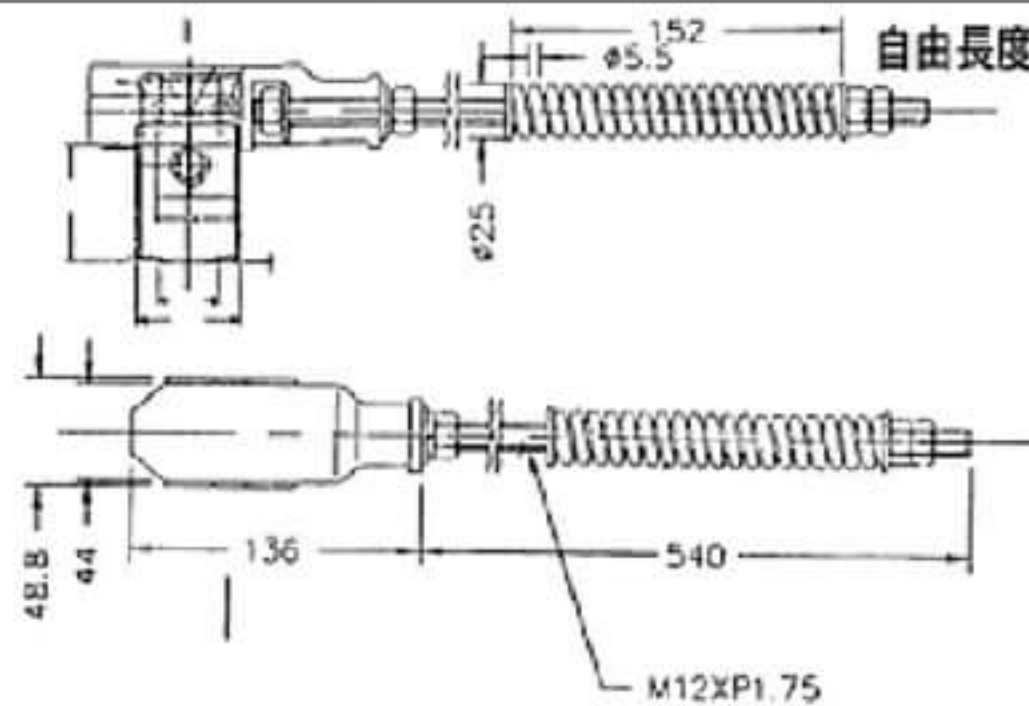


配合C型軌支架  
可使用螺母片M10  
30x20x5

**KY-AN1100**

工電軌夾  
"I" Hanger Clamp

0.11 kg / 只

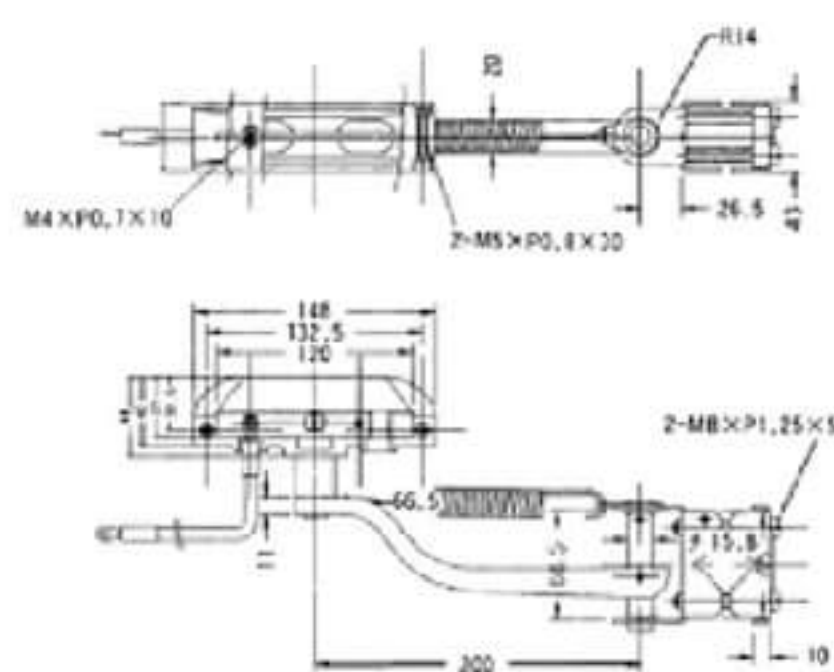


自由長度

**KY-AN1200**

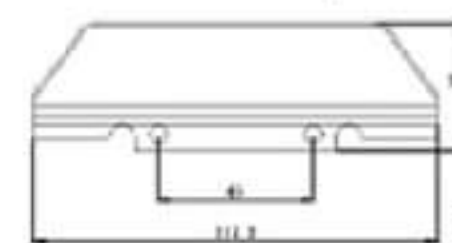
工末端電源拉線器  
End Tension &  
Power in

1.1 kg / 支



•100Amp

•40Amp



電刷片



舊型電刷座要鎖螺絲，  
拆裝不便已停產，  
現已改卡入式一體成型

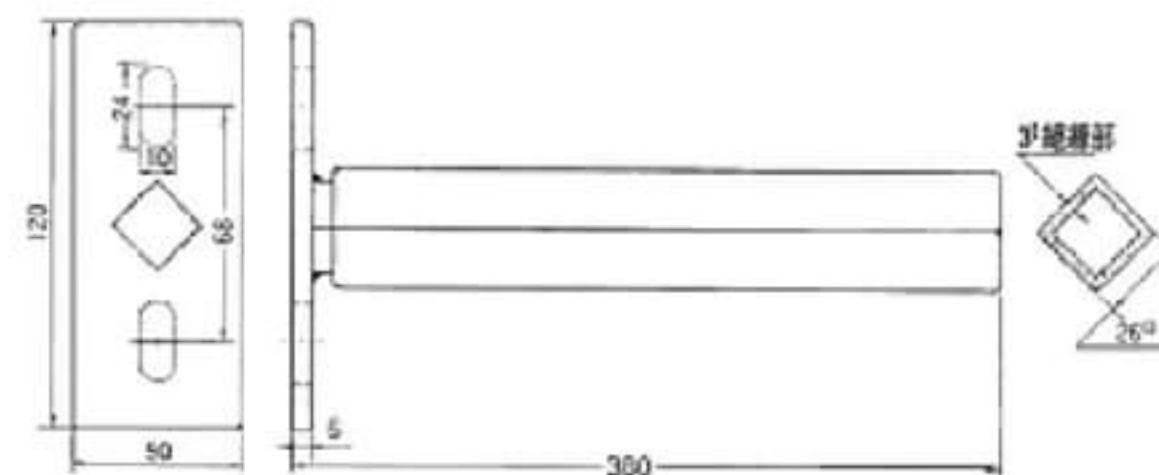
0.83 kg / 支

1.17 kg / 支

**KY-AN1704**

**KY-AN1710**

工集電架40Amp  
100Amp



**KY-AN1800 380L**

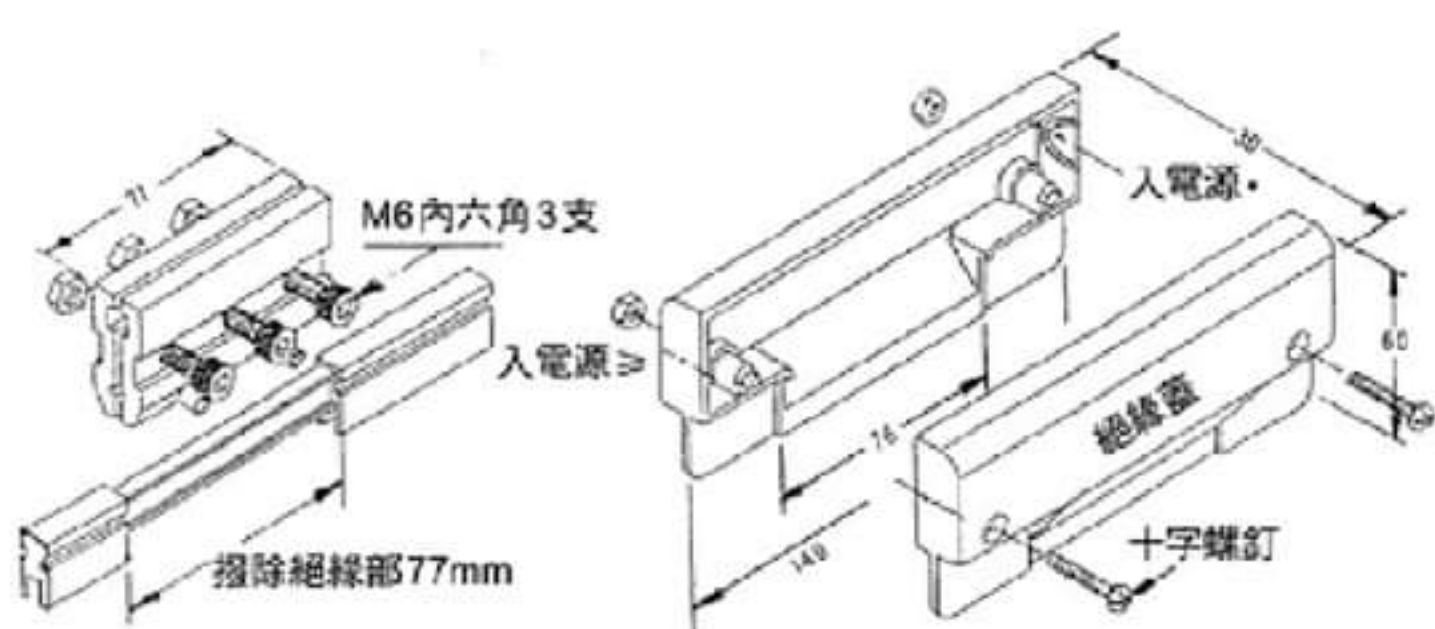
**KY-AN6800 500L**

絕緣棒  
Insulator guide

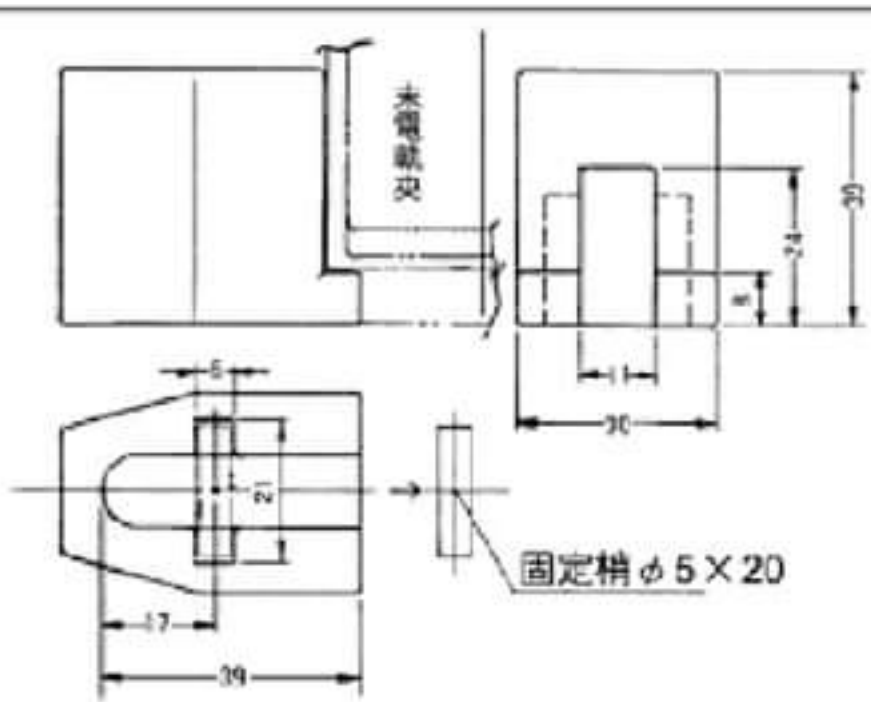
1.45 kg / 支

1.82 kg / 支

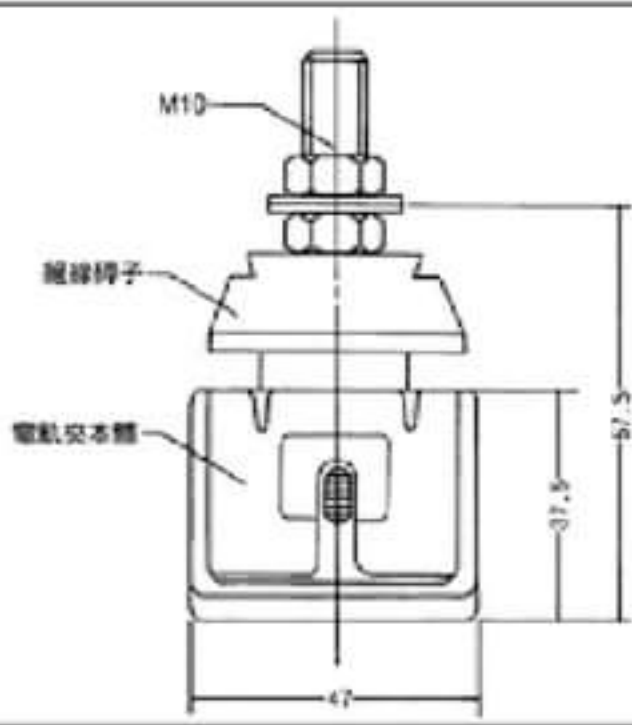




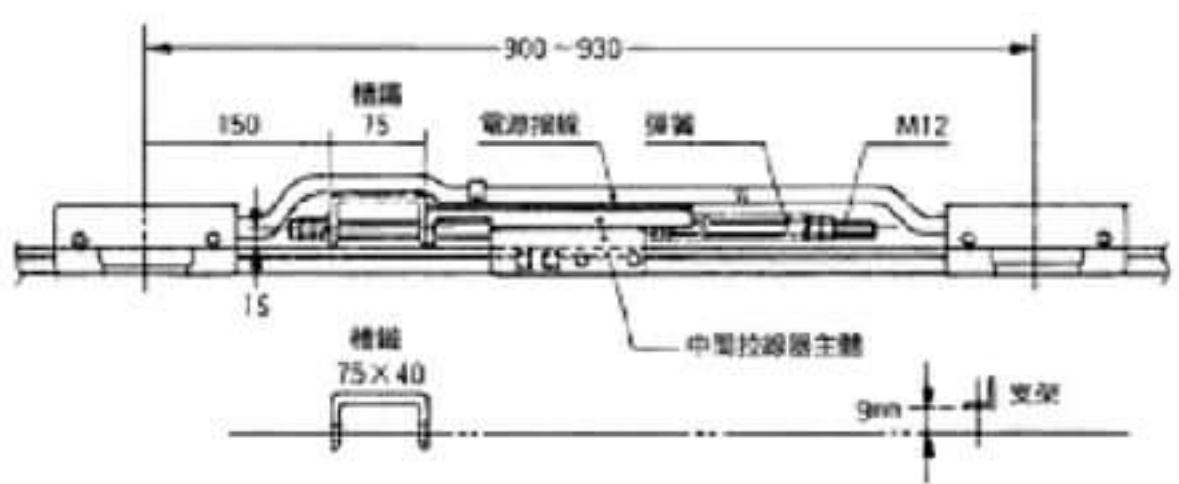
**KY-AN1300**  
工中間供電器工接頭  
Middle power feed in  
0.28kg / 只



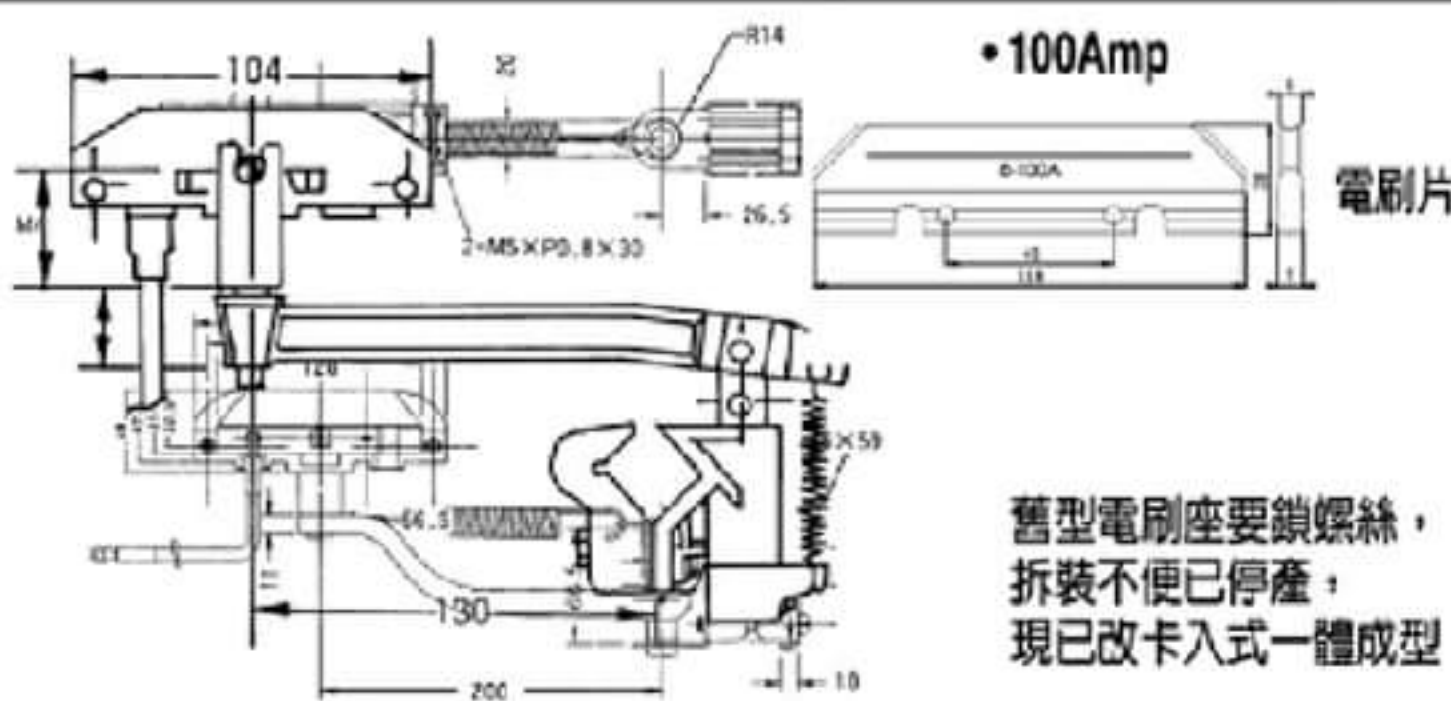
**KY-A1600**  
末端擋頭  
Fixed end insulator  
0.07kg / 只



**KY-AN1100S**  
工碼子電軌夾  
I° Insulator hanger  
0.15kg / 只



中間拉線器(訂製品)  
Intermediate tension insulator

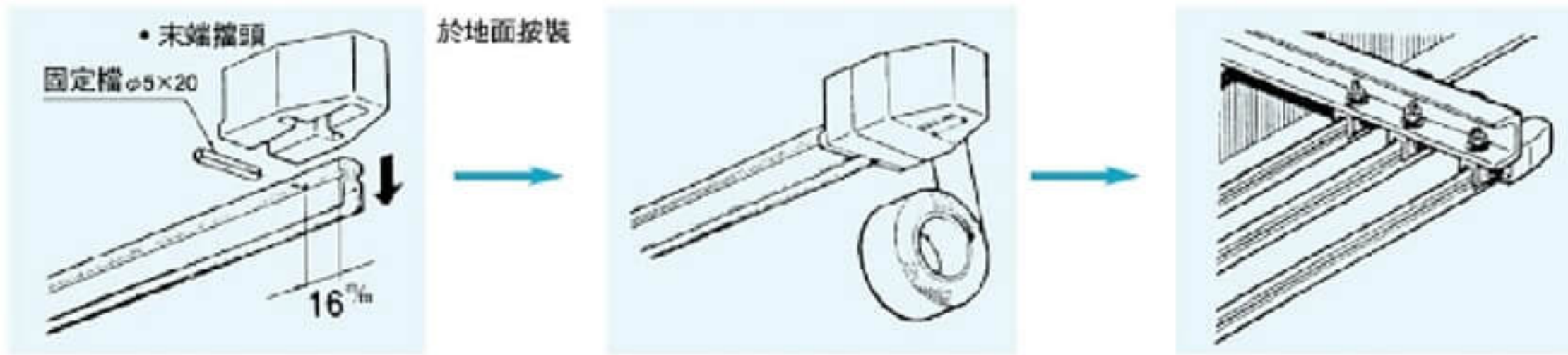


舊型電刷已停產  
**KY-AXE0804**  
**KY-AXE0810**  
8字集電架40Amp  
100Amp  
鋁單臂集電架

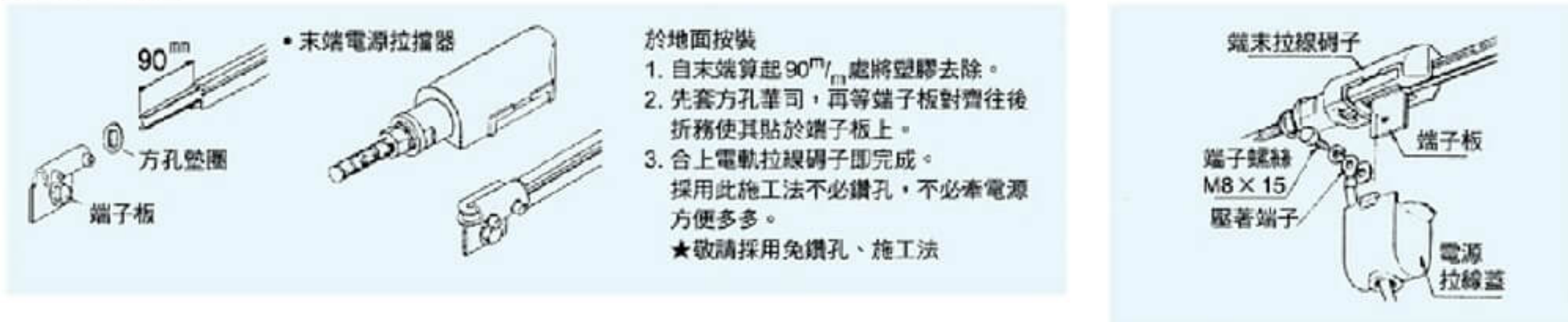


## 第二步

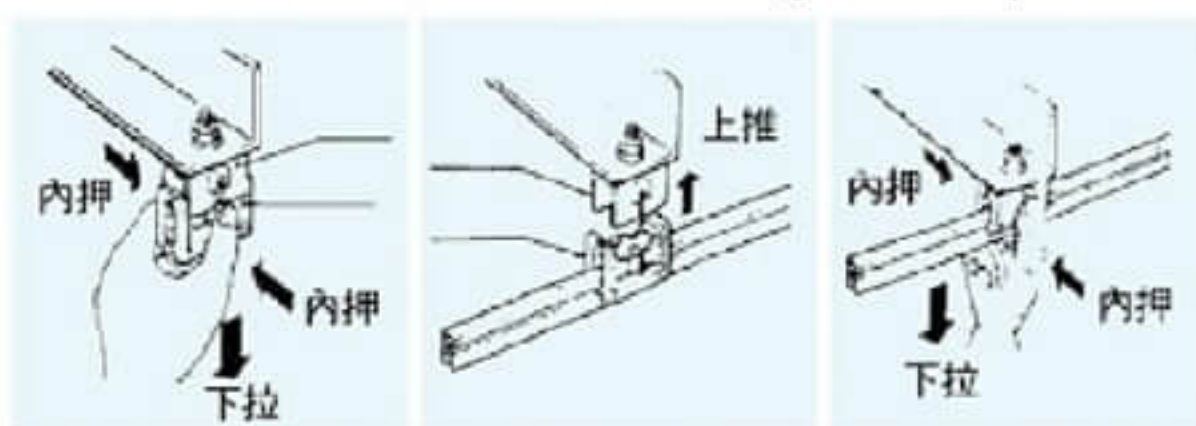
### 按裝 30<sup>M</sup> 以內



### 按裝 30<sup>M</sup> 以上



## 第三步 電軌夾按裝 Set, Hanger Clamp



• 由PC夾兩側向內押下拉即可取出

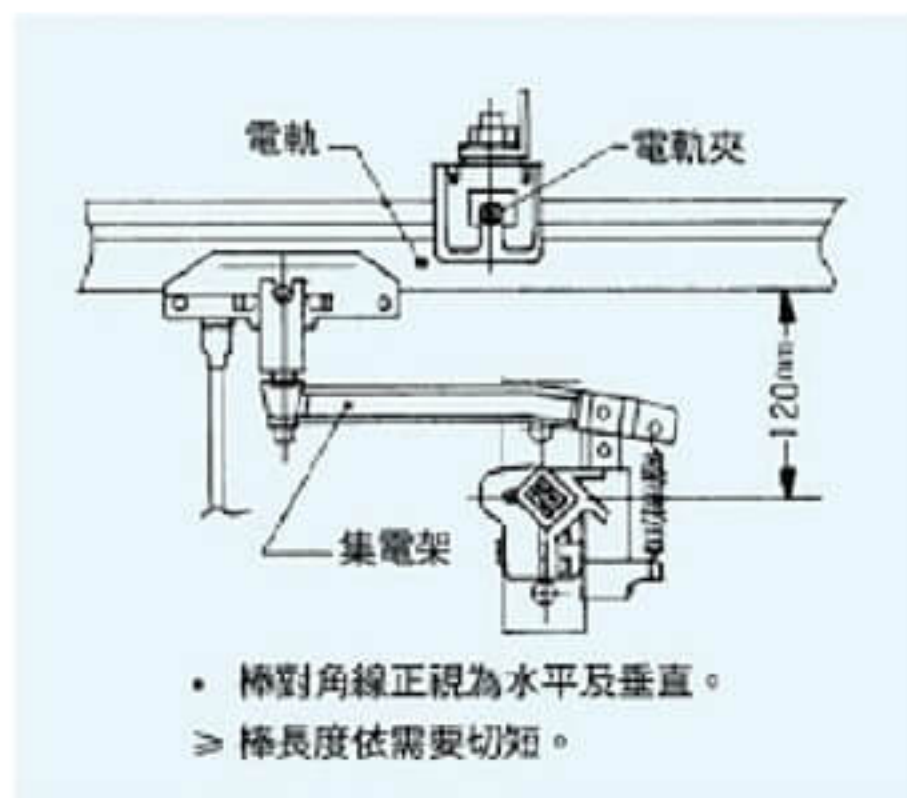
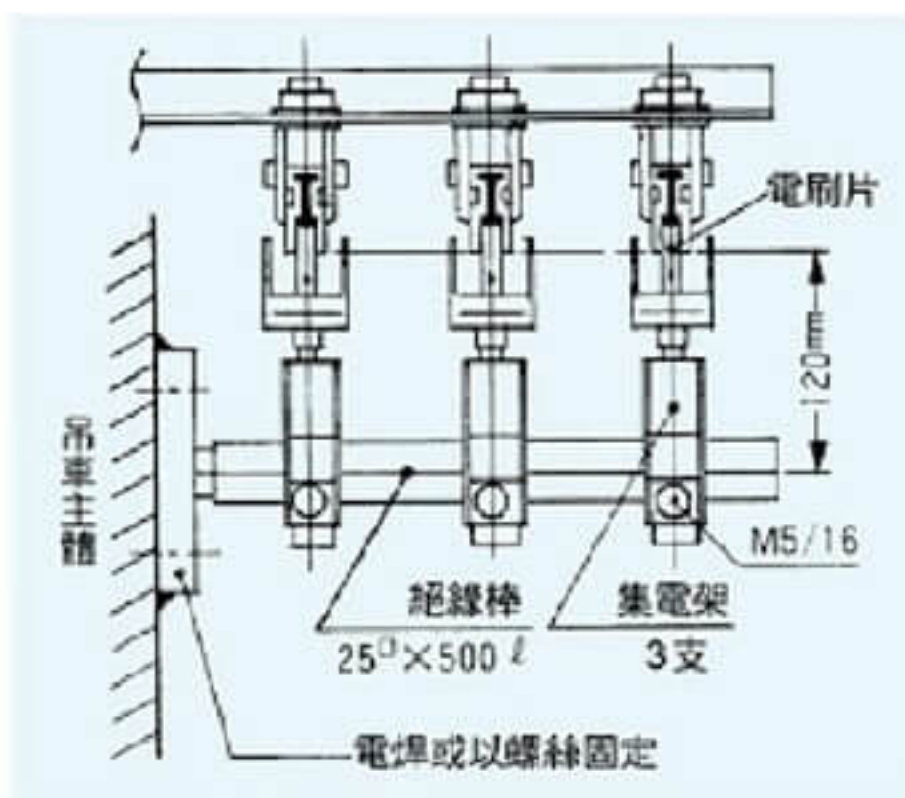
## 中間供電部份 (Middle power feed in)



- 中間供電處 80mm 將膠切之。
- 用兩片銅夾板合於工字鋼上並旋緊。
- 在  $\phi 5\text{mm}$  鑽頭在端子板下方凹處鑽穿電軌，打入固定梢即可。

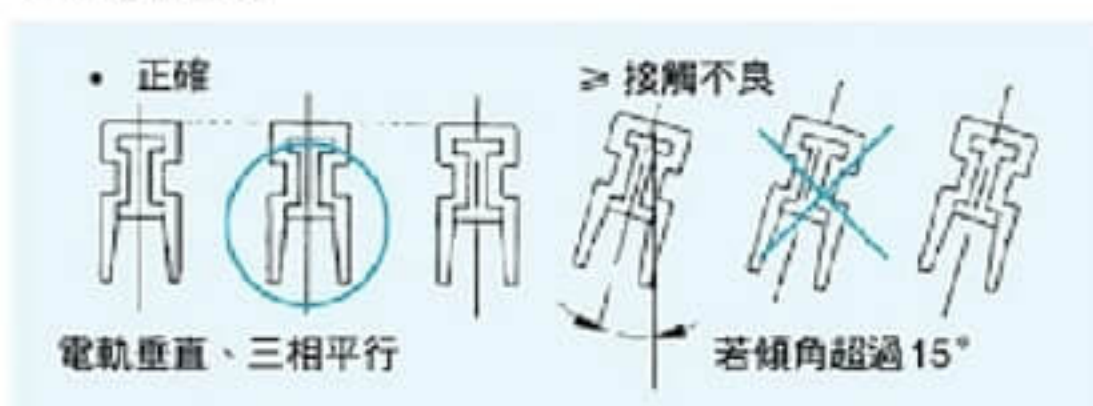
## 第四步 另一端電源拉線器按裝 (Set, End Tension & Powerin) 於軌道上按裝，同第二步驟。

## 第五步 絕緣棒與工集電架按裝 (Set, guide & Current Collector)



- 棒對角線正視為水平及垂直。
- 棒長度依需要切短。

### \* 注意事項



- 電軌裝置設誤差不得傾斜 15° 以上，如超過須以矯正支架附電軌夾矯正之架否則會接觸不良。
- 拉好電軌後，要以強迫方式調整傾斜部份。



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39/1 MOO 2 BANGPOOD, PAKKRED  
NONTHABURI III20, THAILAND



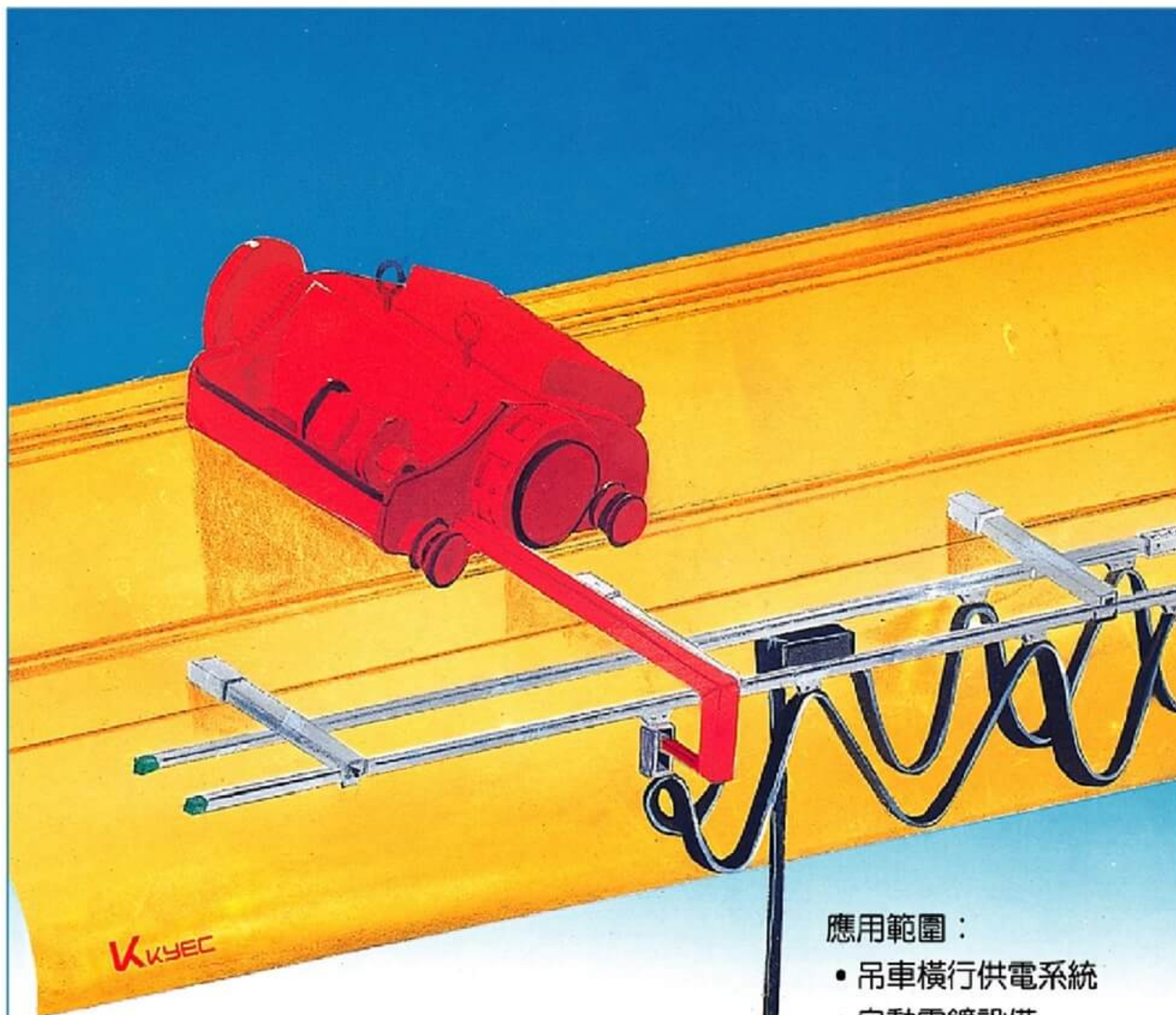
※本公司另備有各機種零組件及各項相關工程技術服務，歡迎來電查詢——工程技術部。

- 說明① 安全集電架組    ② 三合一實例  
 ③ 環型轉盤配電    ④ 五合一實例  
 ⑤ 遊樂設施工程    ⑥ 自動倉儲工程



感謝：中鋼、台船、台電、台塑關係企業、奇美、友達、廣運、盟立、中華汽車、裕隆等公司採用





- 壹、設計 (P1)
- 貳、PVC移動式扁電纜線 (P4)
- 參、C30軌道零件圖 (P5)
- 肆、C40軌道零件圖 (P7)
- 伍、鋁軌道零件圖 (P8)
- 陸、安裝示意圖 (P10)

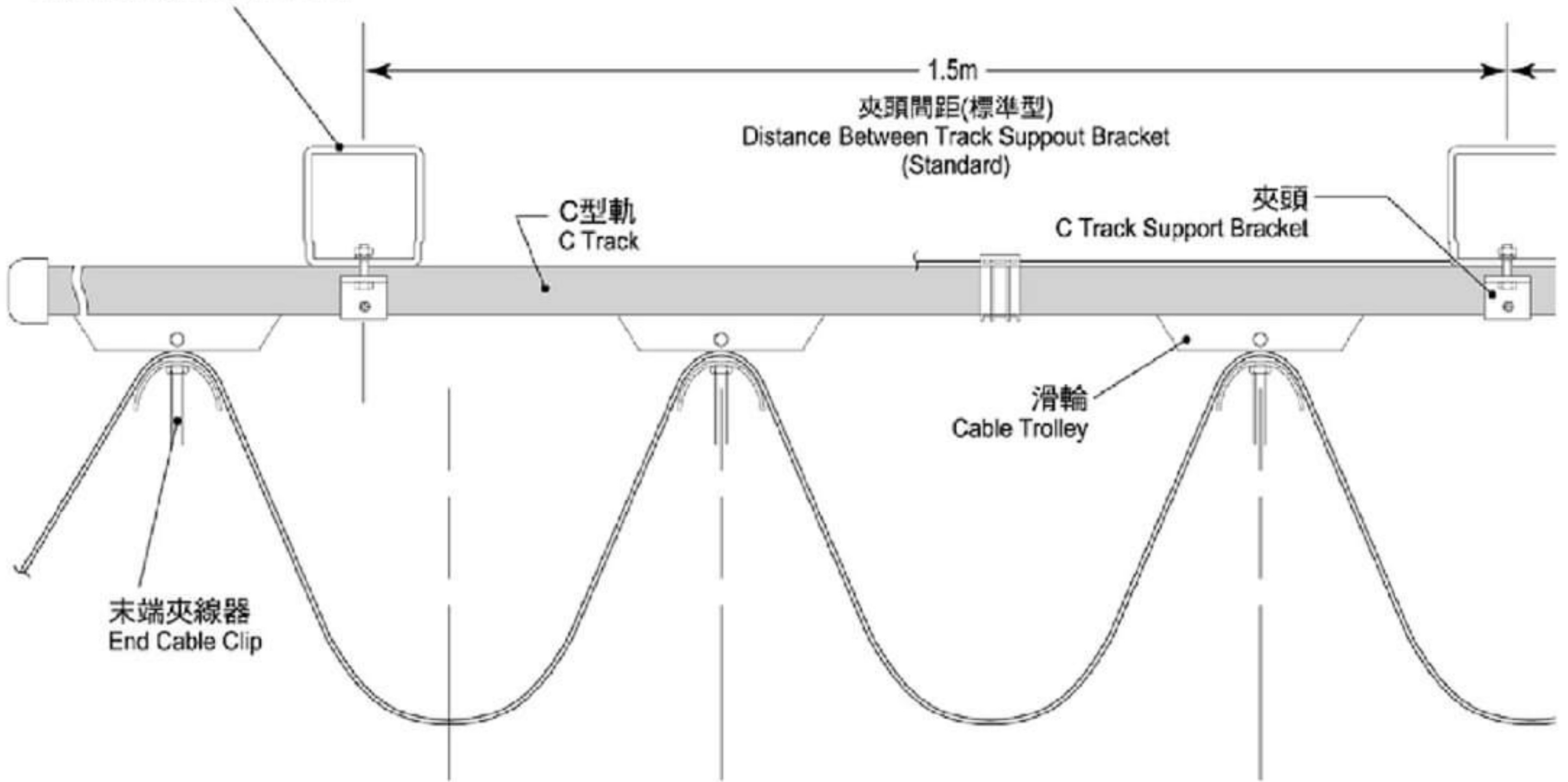
應用範圍：

- 吊車橫行供電系統
- 自動電鍍設備
- 污水處理廠供電系統
- 石材機械、移動式  
控制系統
- 一般重工機械吊車  
移動式供電

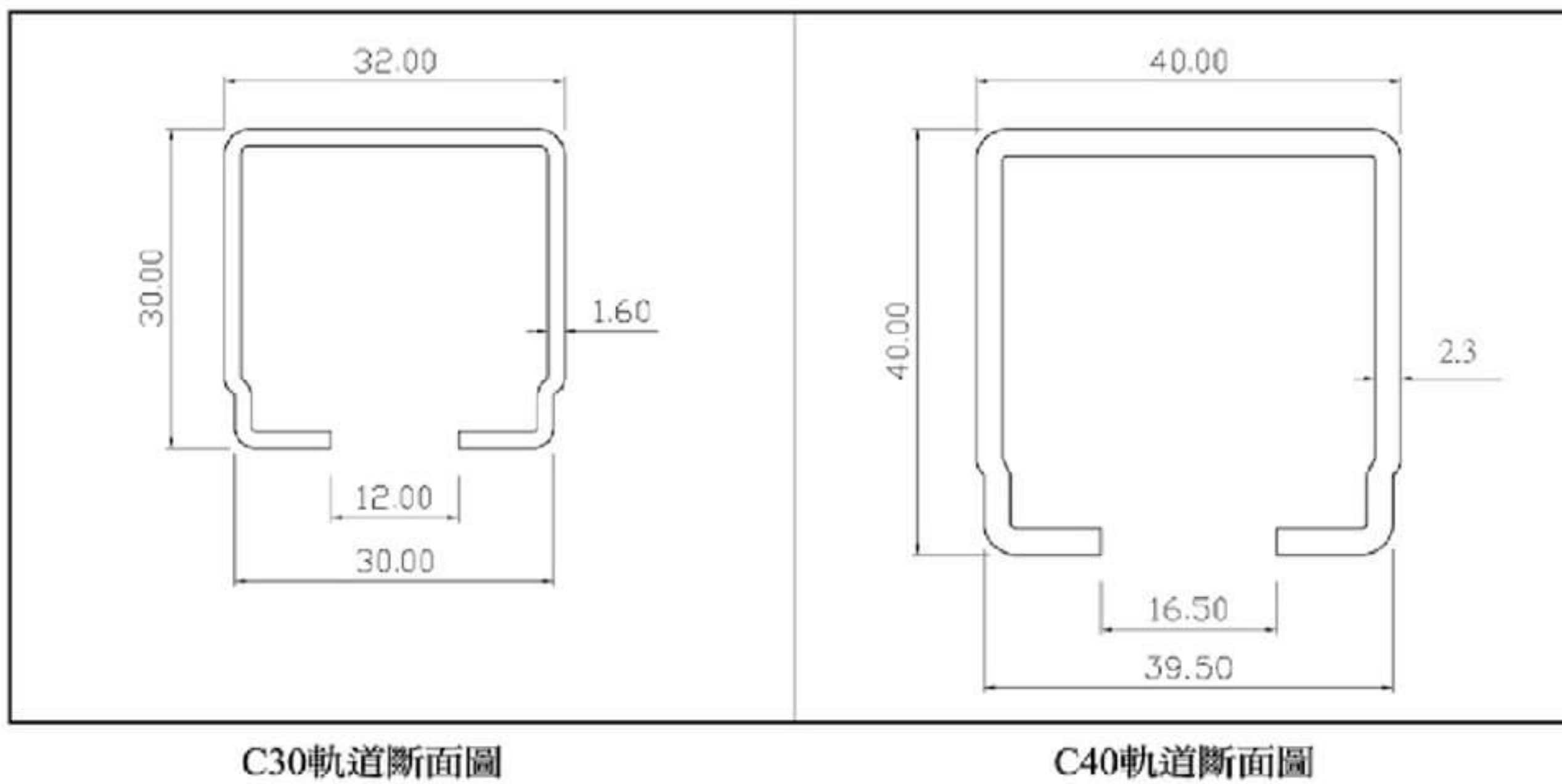


# 壹、設計 Design

C型軌固定架 (可使用C型軌截短代替)  
Support arm (use short c-track)



## 一、結構數據



編號	材質	長度 (mm)	長度公差 (mm)	厚度S (mm)	物理性質			單位重量 (Kg/m)
					Ix (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	e (mm)	
KYEC-BC3030	鍍鋅鋼板	3000	±5	1.6±0.1	1.97	1.23	16	1.15±0.1
KYEC-BC4030	鍍鋅鋼板	3000	±5	2.3±0.1	6.74	3.08	21.6	2.23±0.1



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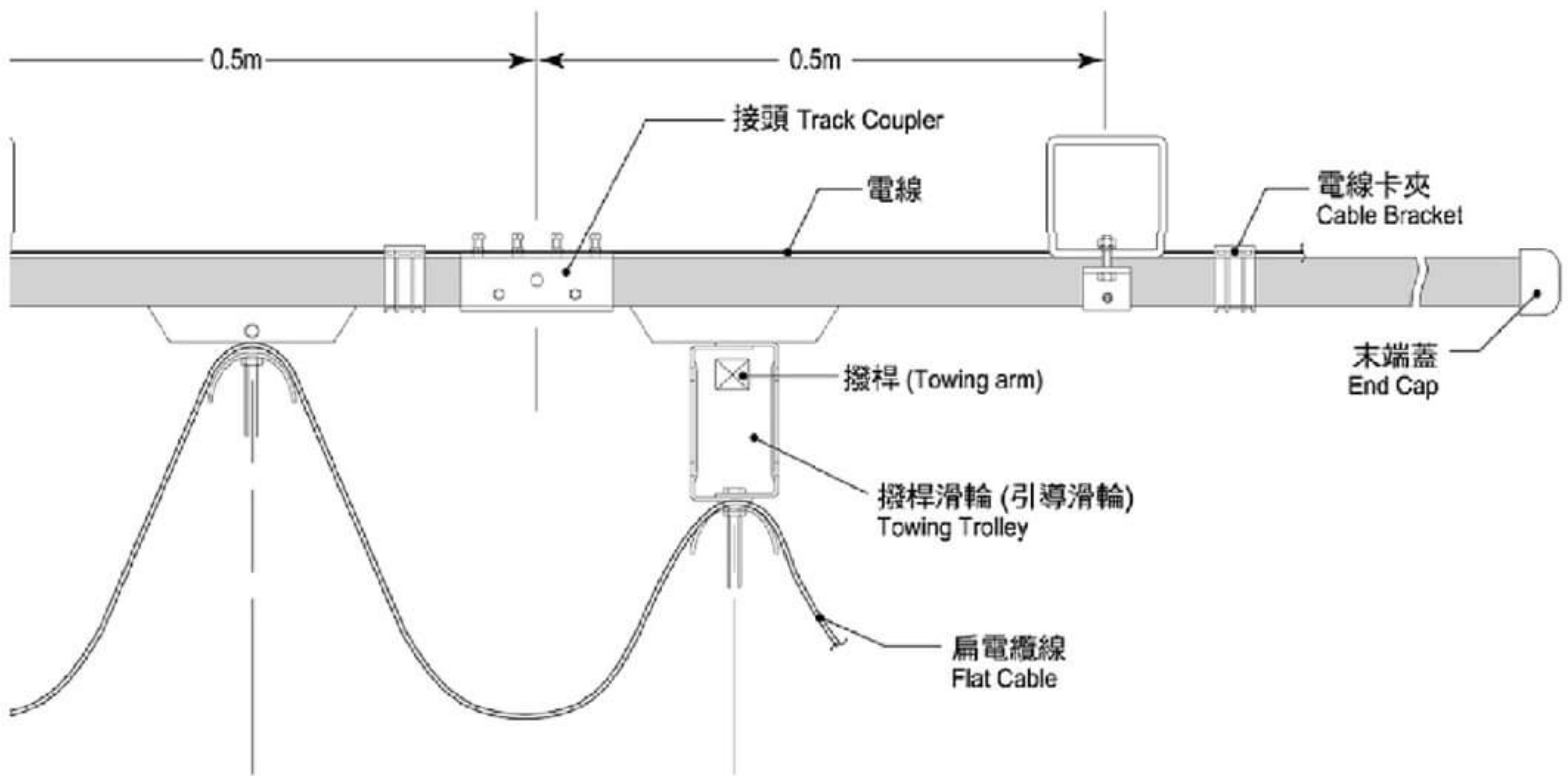
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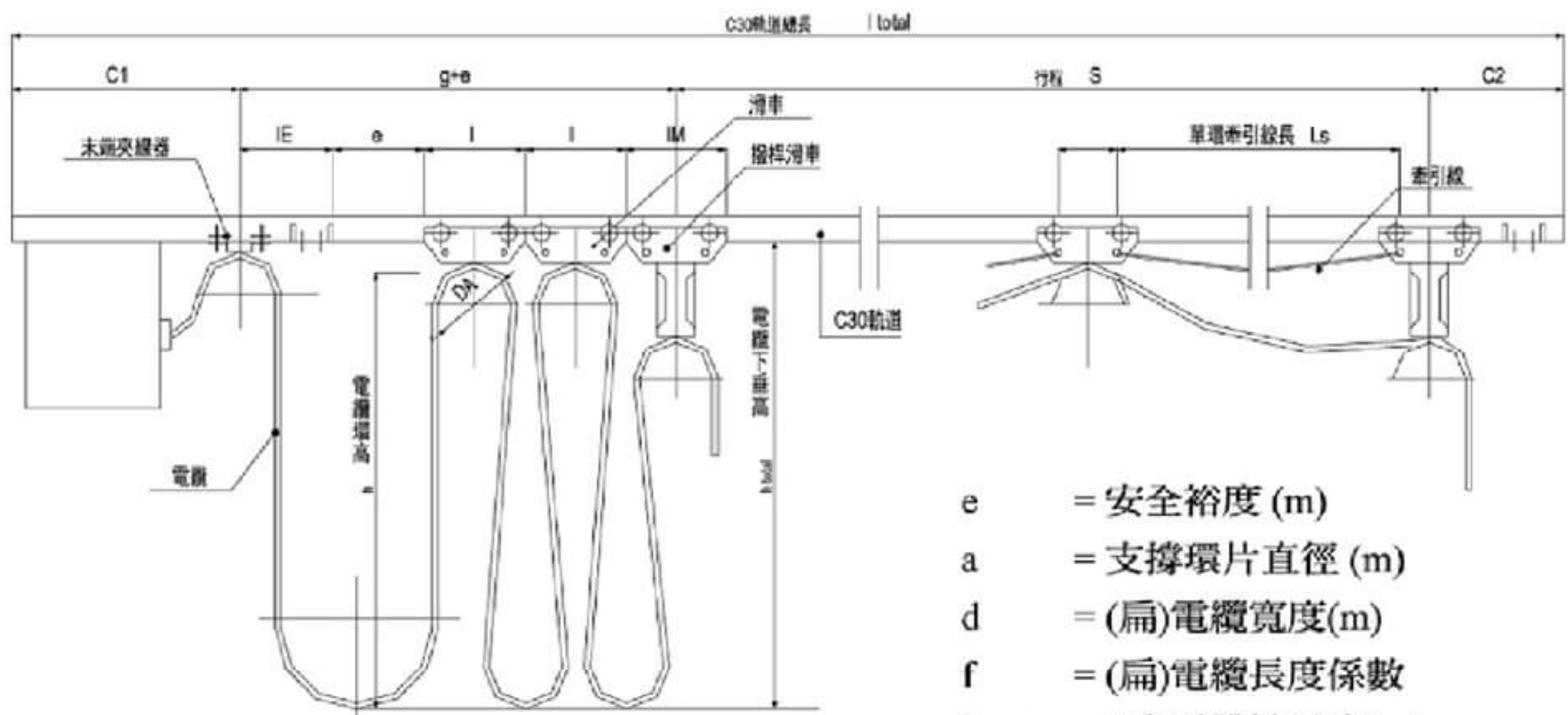
39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

PAGE

- 186 -



## 二、規劃



- e = 安全裕度 (m)
- a = 支撐環片直徑 (m)
- d = (扁)電纜寬度(m)
- f = (扁)電纜長度係數
- L tota = (扁)電纜總長度(m)
- L loop = (扁)電纜總單環長度(m)
- Ls = 單環牽引線長(m)

- I total = C30或C40軌道總長(m)
- s = L 行程(m)
- h = 電纜環高(m)
- h total = 電纜下垂高(m)
- n = 電纜的環數(環)
- g = 滑車及配件需求長(m)
- l = 滑車長(m)

$$n = f \times \frac{s+g}{2h}$$

$$h = f \times \frac{s+g}{2n}$$

f=1.1 (滑行速度50 m/min)



### 三、C30、C40軌道設計資料

1. C30軌道 已知---

P = 4 單組滑車承載重量(Kg)

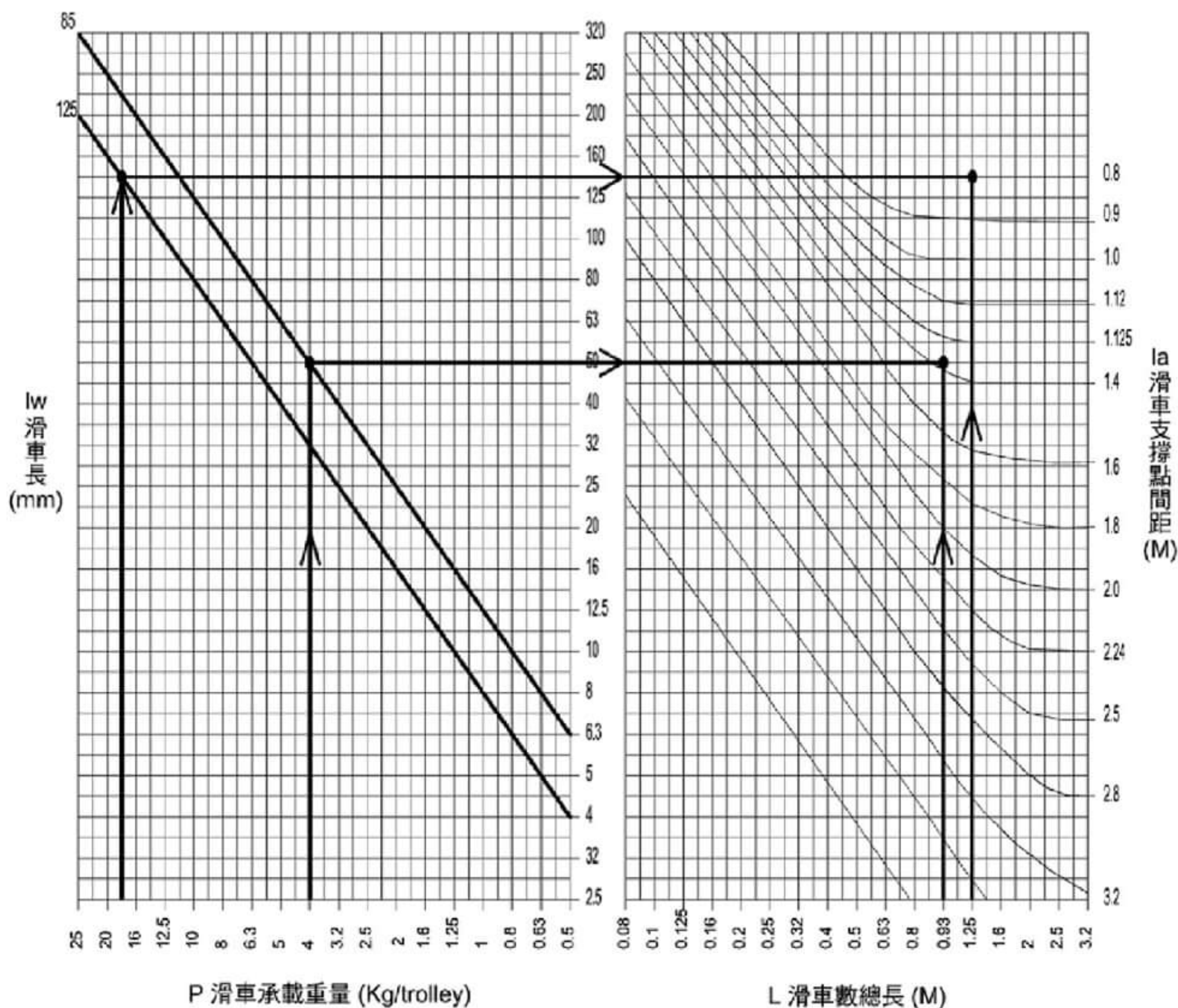
Iw = 85 滑車長 (mm)

Z = 11 滑車數量 (組)

所以滑車數總長  $L = Z \times Iw / 1000 = 0.93$  (M)

☆☆ 所以可從下表求得---

**la = 1.3** C30夾頭支撐點間距 (M)



2. C40軌道 已知---

P = 18 單組滑車承載重量(Kg)

Iw = 125 滑車長 (mm)

Z = 10 滑車數量 (組)

所以滑車數總長  $L = Z \times Iw / 1000 = 1.25$

☆☆ 所以可從表求得---

$= 10 \times 125 / 1000 = 1.25$  (M)

**la = 0.8** C40夾頭支撐點間距 (M)



## 貳、PVC移動性扁電纜線 PVC Flat Cable



### DESCRIPTION:

- Bare Stranded copper conductor.
- PVC insulation, Rated temp 60°C, 80°C or 1105% available.
- PVC jacket, Acid bafe resistance available or UL Type

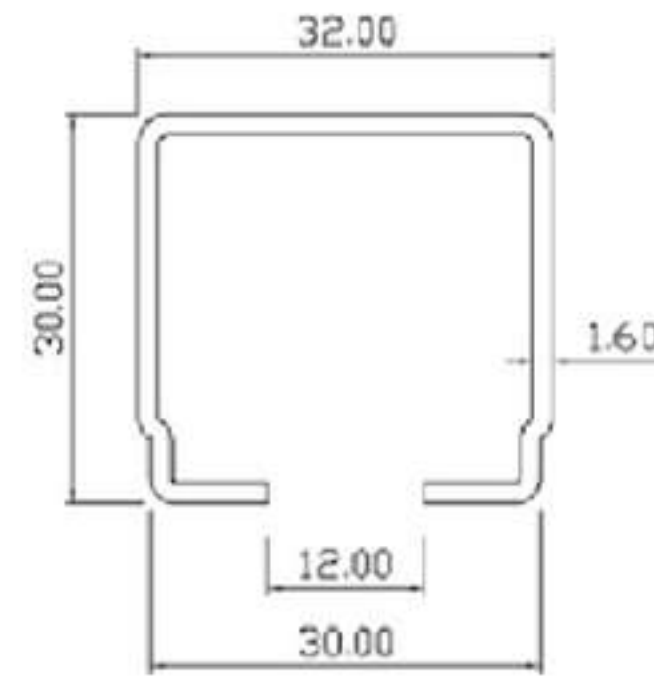
### 產品說明：

- 導體：裸軟銅線絞合。
- 蕊線：PVC材質，耐溫60°C，80°C或指定105°C
- 外被：PVC被覆，亦可指定耐酸鹼材質或UL規範。

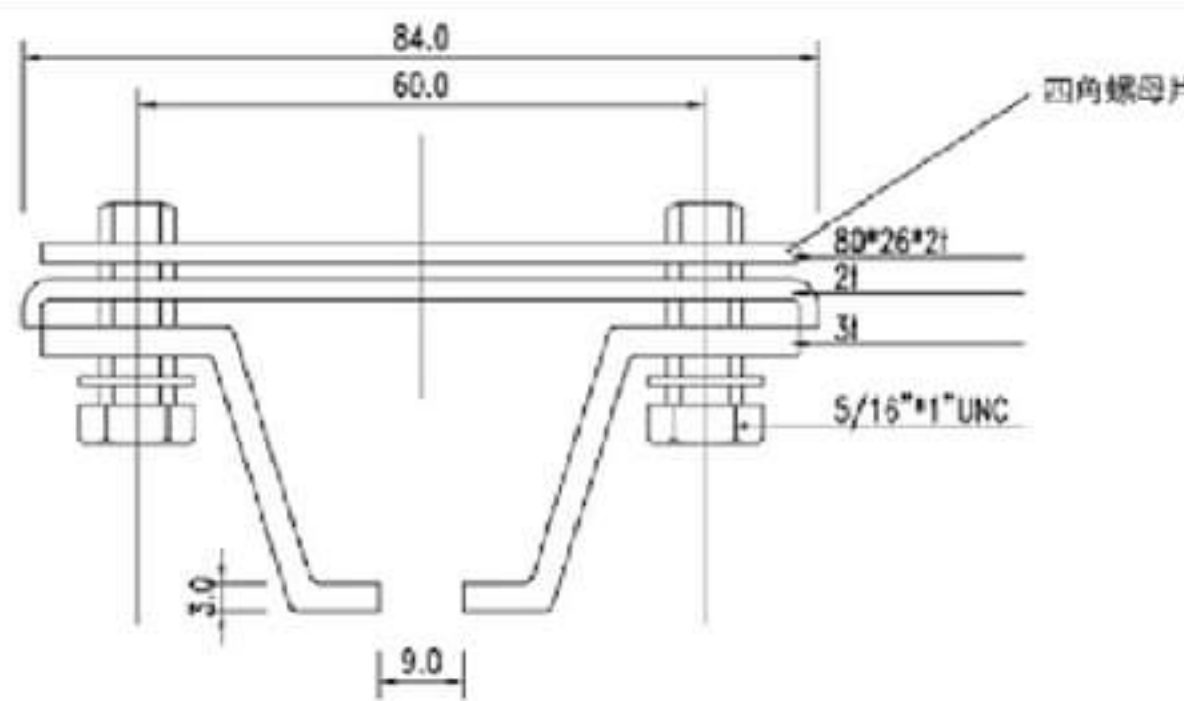
導體		蕊線數	絕緣厚度	蕊線外徑	完成外徑	導體電阻	試驗電壓	絕緣電阻	備註
Conductor		No. of Core	Insulation thickness	Insulation Diameter	Overall Diameter	Characteristica			
斷面積 MM <sup>2</sup>	線數 / 線徑 No. / mm					mm	No. / mm	mm	
0.75	30/0.18	24	0.6	2.3	8.3×40.3	25.8	1500	50	
0.75	30/0.18	36	0.6	2.3	11×51	25.8	1500	50	
0.75	30/0.18	60	0.43	2.0	11.6×74	25.8	1500	50	
1.25	50/0.18	3	0.8	3.0	5.0×11.2	16	1500	50	
1.25	50/0.18	4	0.8	3.0	5.8×15.7	16	1500	50	
1.25	50/0.18	5	0.8	3.0	6.1×18.8	16	1500	50	
1.25	50/0.18	8	0.8	3.0	5.0×28.7	16	1500	50	
1.25	50/0.18	10	0.8	3.0	5.1×34.6	16	1500	50	
1.25	50/0.18	13	0.8	3.0	5.2×43	16	1500	50	
1.25	24/0.18								
2.0	37/0.26	3	0.8	3.2	5.0×11.4	10.2	1500	50	
2.0	37/0.26	4	0.8	3.2	6.8×18.6	10.2	1500	50	
2.0	37/0.26	8	0.8	3.2	6.0×29.5	10.2	1500	50	
3.5	140/0.18	3	0.8	4.2	6.3×16.2	5.54	1500	50	
3.5	140/0.18	4	0.8	4.2	7.5×19.5	5.54	1500	40	
3.5	140/0.18	8	0.8	4.2	6.8×39	5.54	1500	40	
5.5	217/0.18	3	1.0	5.2	7.5×20	3.56	1500	40	
5.5	217/0.18	4	1.0	5.2	8.0×23	3.56	1500	40	
8	315/0.18	3	1.0	6.2	9.0×21.6	2.54	1500	40	
8	315/0.18	4	1.0	6.2	10×30	2.45	1500	40	
14	550/0.18	3	1.0	7.6	12×28.8	1.43	1500	40	
14	550/0.18	4	1.0	7.6	10.6×33	1.46	1500	40	
22	855/0.18	3	1.2	10.0	15×35	0.919	1500	40	
22	855/0.18	4	1.2	10.2	13×47	0.919	1500	40	
38	1480/0.18	3	1.2	12.5	17.8×42.5	0.75	1500	40	
38	1480/0.18	4	1.2	12.5	20×53	0.75	1500	40	



# 參、C30軌道零件圖 C30 Track Design



**KY-BC3030**  
C30型軌 3M/支  
C Track  
KY-BCS3030白鐵



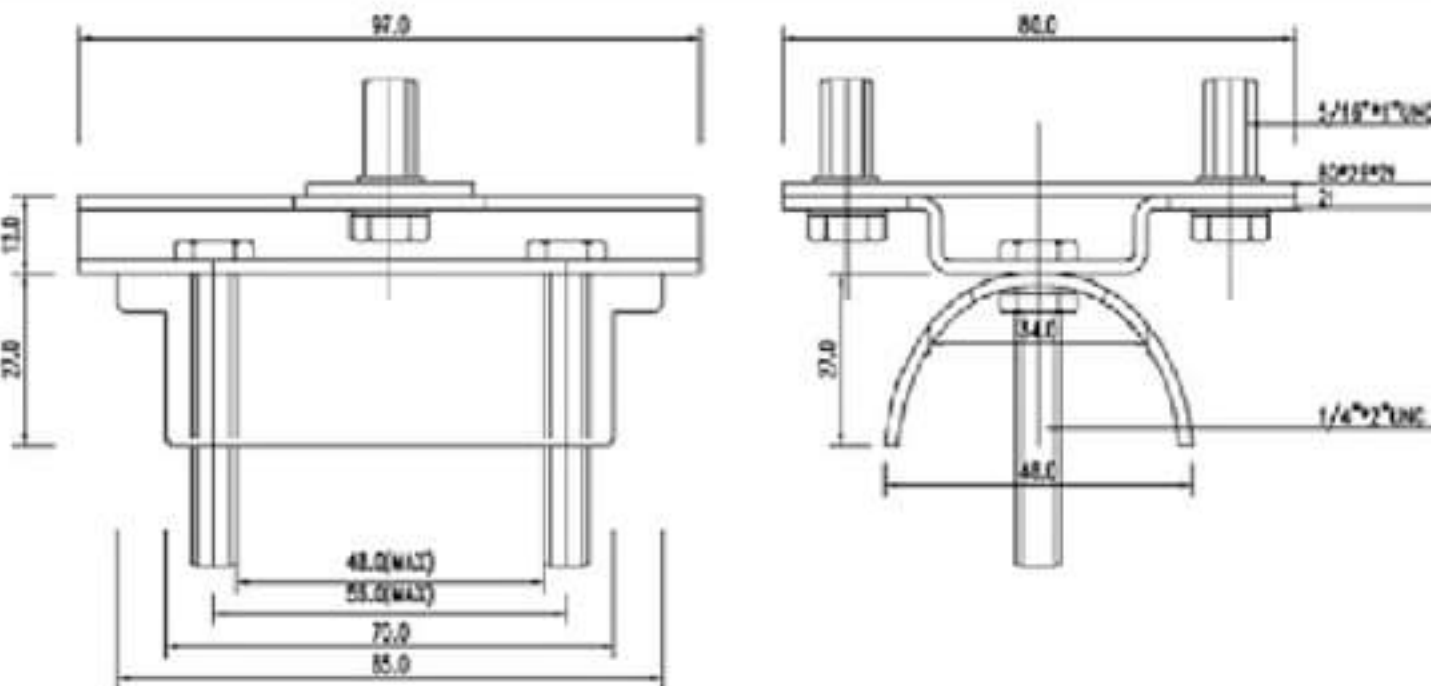
**KY-BC3100**  
C30夾頭  
C Track Support  
Bracket  
KY-BCS3100白鐵



**KY-BC3103**  
C夾片  
Track Clip



**KY-BC3102**  
C30支架結合座  
Support Arm



**KY-BC3200**  
C30末端夾線器  
End Cable Clip  
KY-BCS3200白鐵

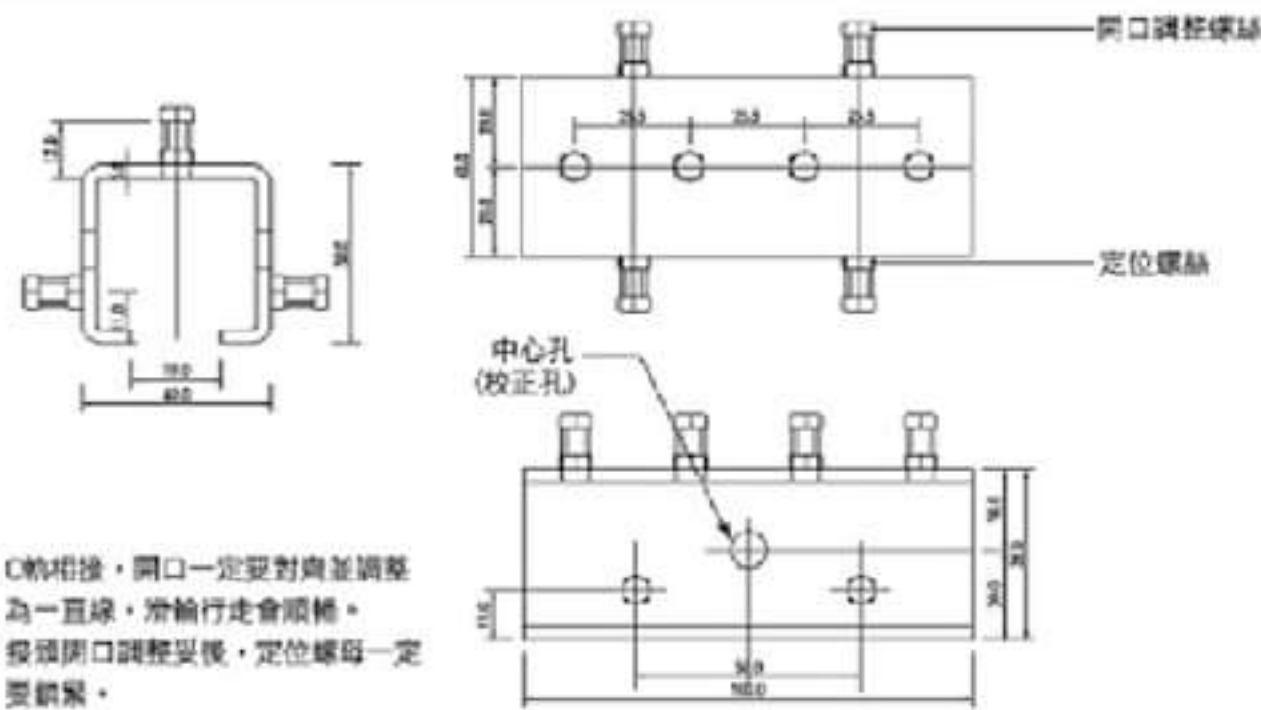


**KY-BC3201**  
C30末端蓋  
End Cap



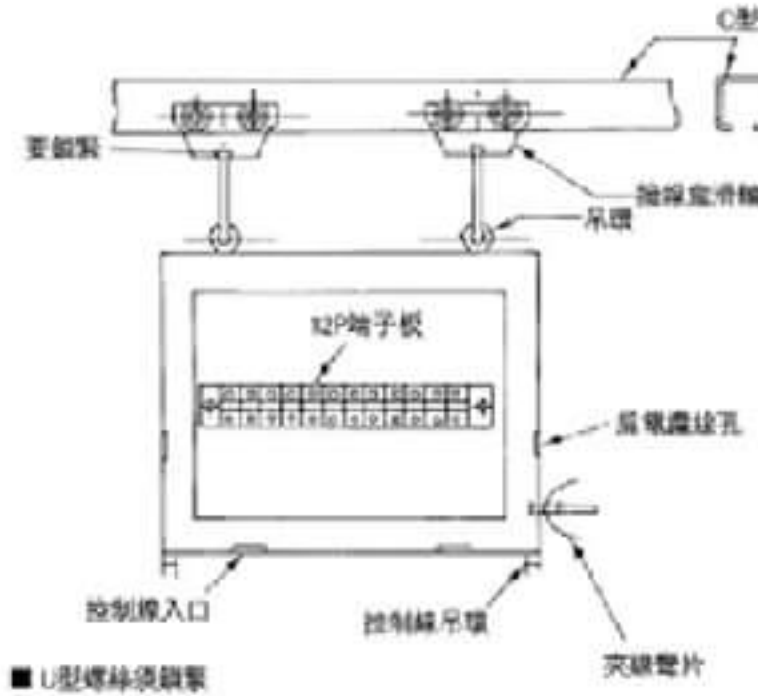
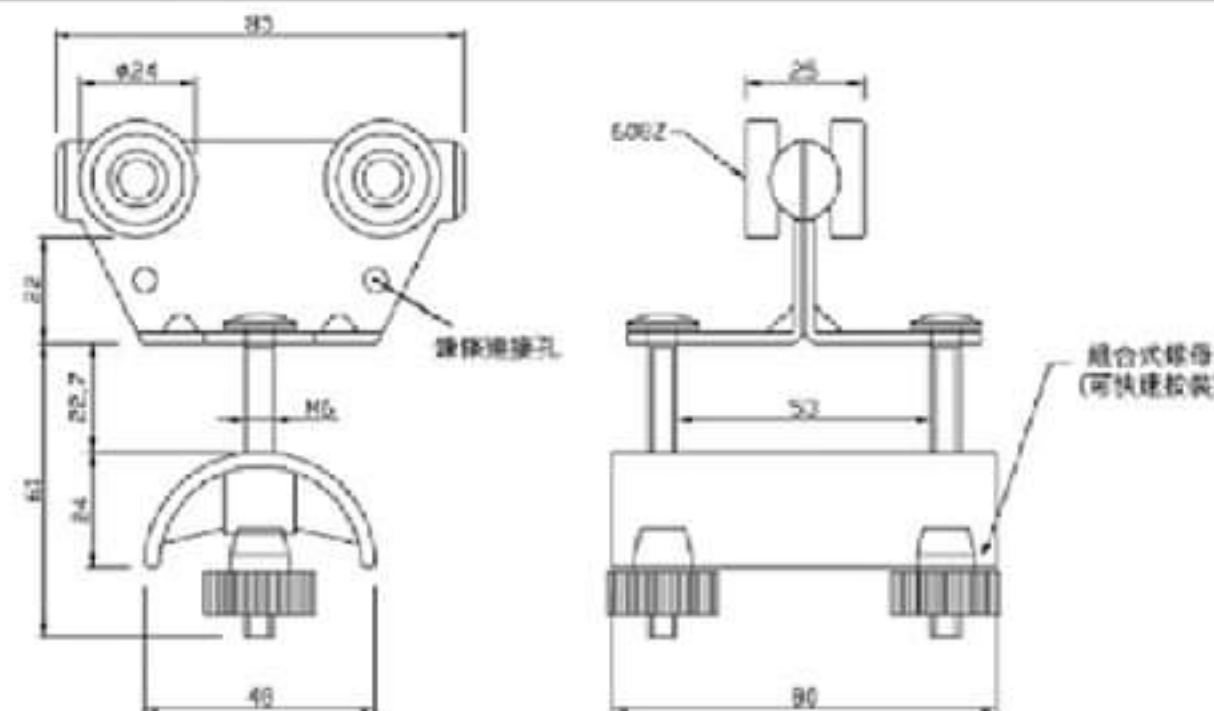
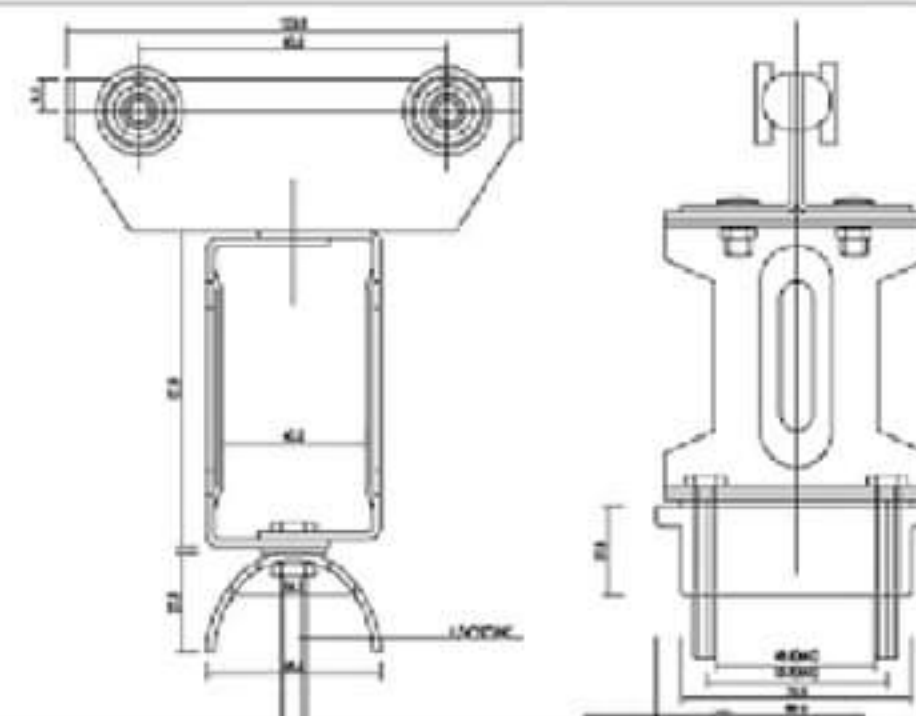
**KY-BC3202**  
C30電線卡夾  
Cable Bracket





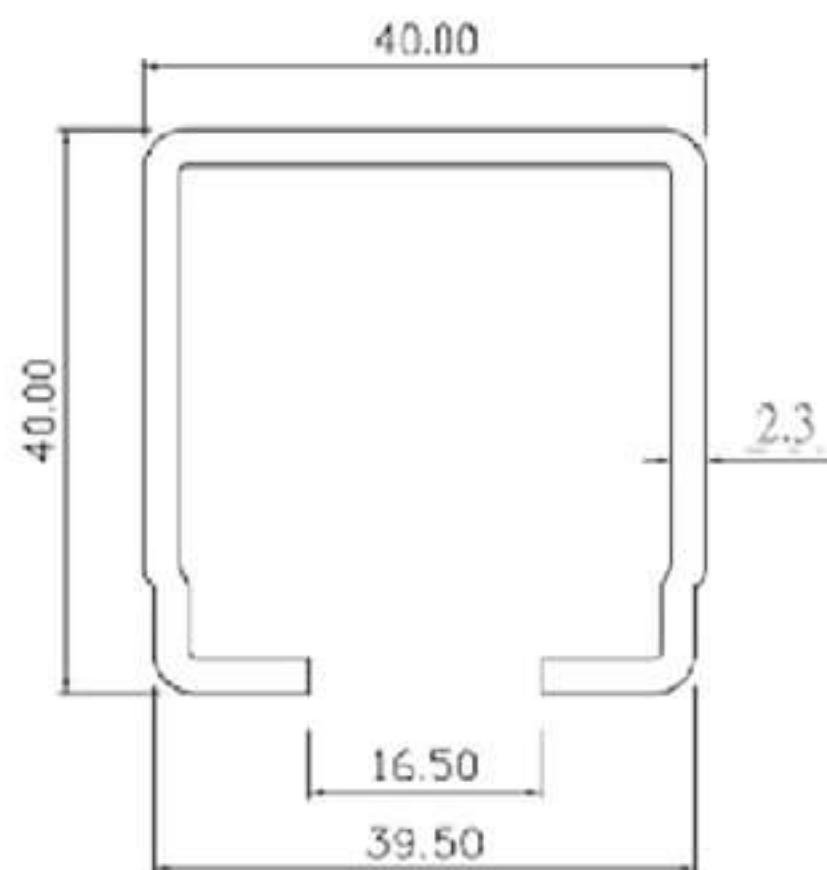
- 1. C軌相接，開口一定要對齊並調整為一直線，若輪行走會傾斜。
- 2. 調整開口調整螺絲後，定位螺絲一定要鎖緊。

**KY-BC3300**
**C30接頭**  
**Track Coupler**
**KY-BCS3300白鐵**

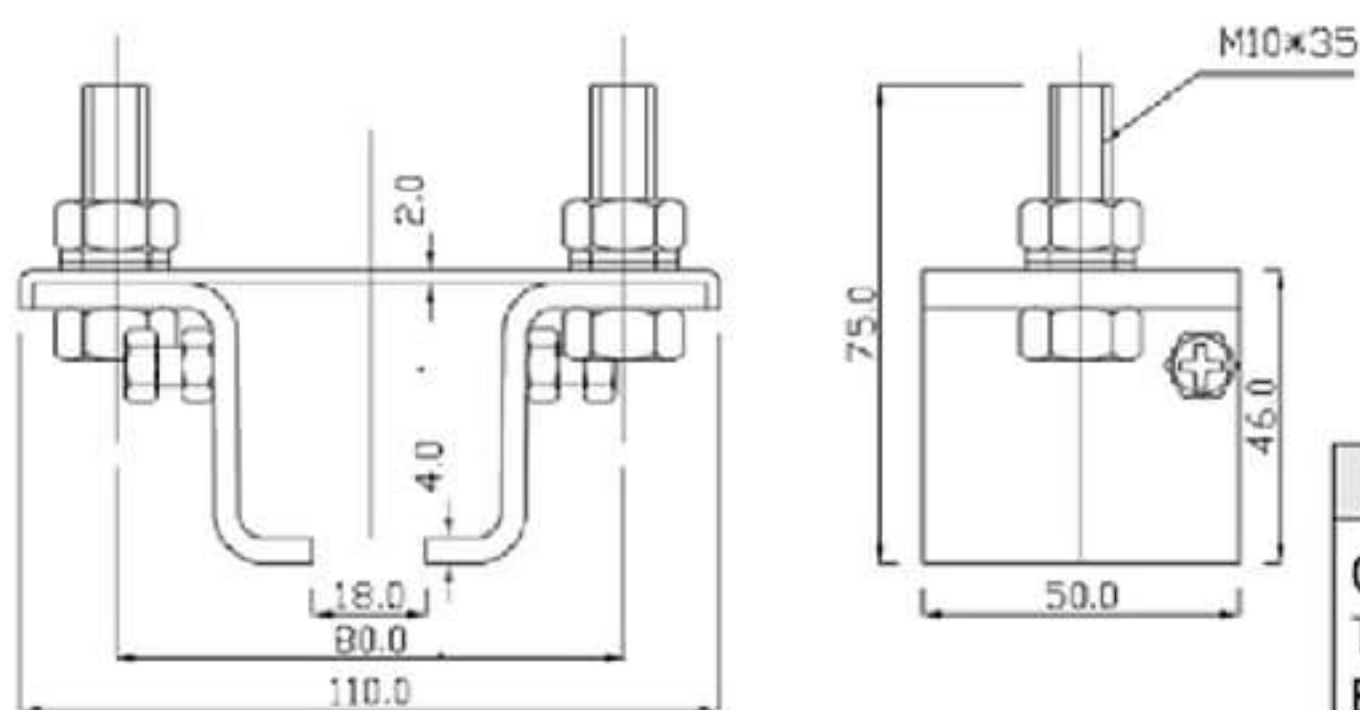
**KY-BC3412A**  
**快速接頭滑車(火車頭)**

**KY-BC3412**
**盒型接線盒**
**KY-BC3412**
**C30接線盒**  
**C Connect Box.**

**KY-BC35250**
**C30大C滑輪**  
**Cable**  
**Trolley/Wide**
**KY-BC3525**
**C30滑輪**  
**Cable Trolley**
**KY-BCS3525白鐵**

**KY-BC3625**
**C30撥桿滑輪**  
**(引導滑輪)**  
**Towing Trolley**
**KY-BCS3625白鐵**

**KY-BGNL20X2**
**扁電纜抗拉帶**  
**寬度x厚度**  
**45mmx1.8mm**

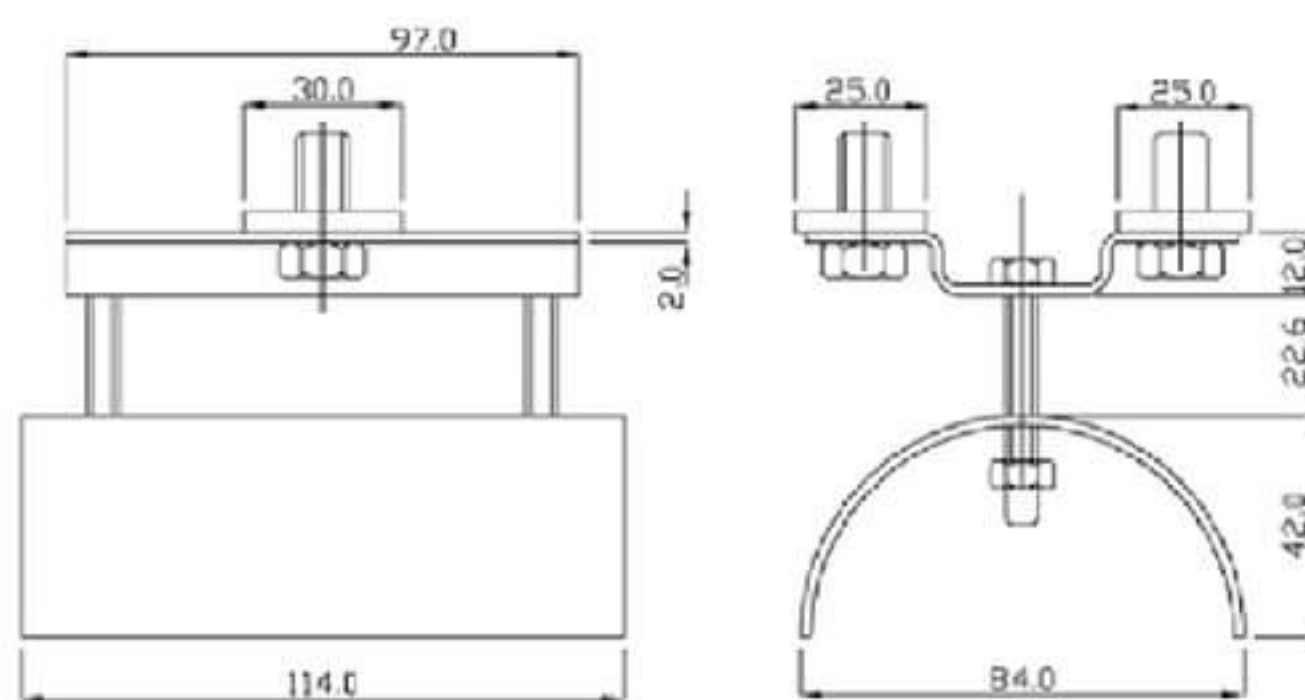

# 肆、C40軌道零件圖 C40 Track Design



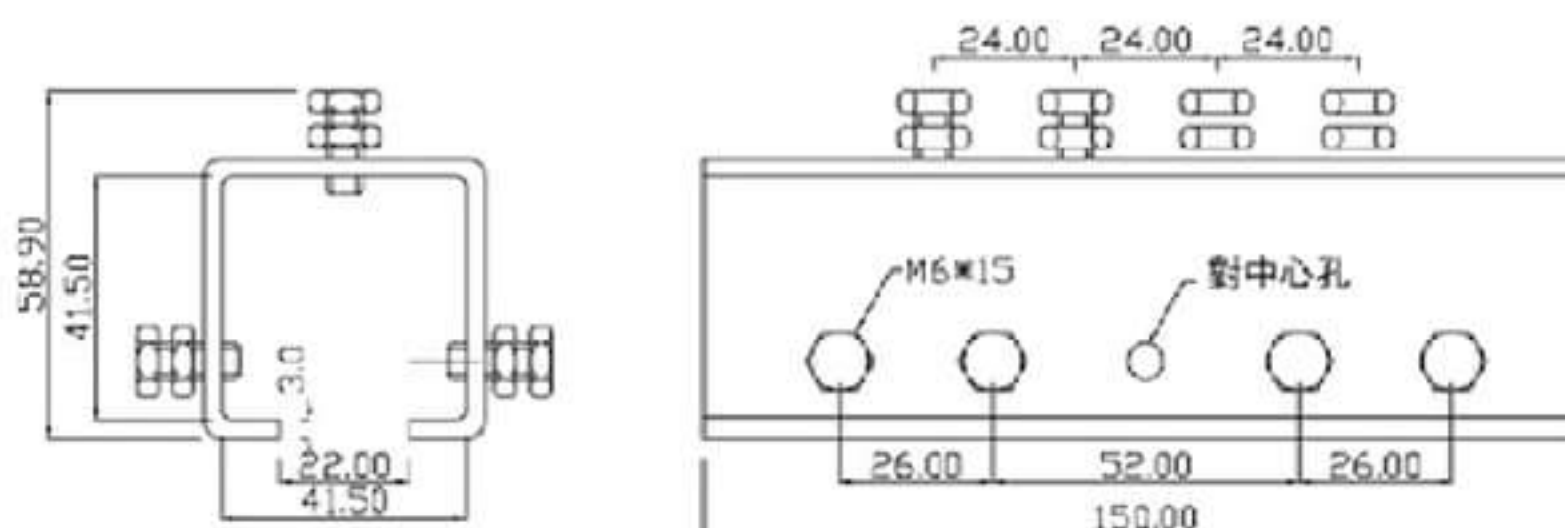
**KY-BC4030**  
C40型軌道  
C Track  
KY-BCS4030白鐵



**KY-BC4100**  
C30夾頭  
Track Support  
Bracket  
KY-BCS4100白鐵

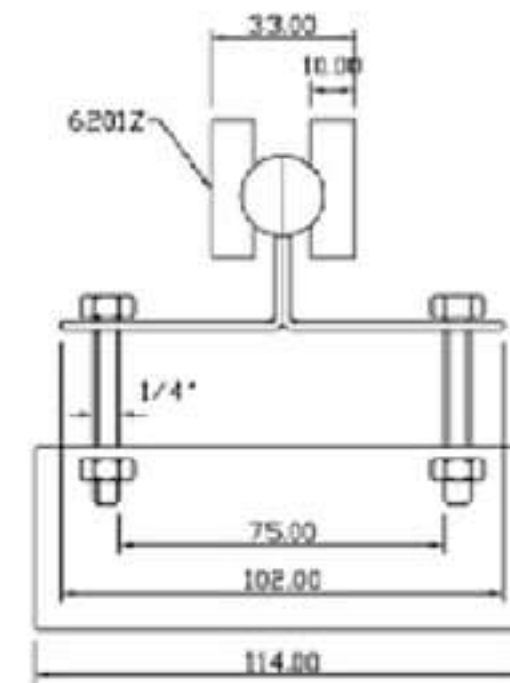
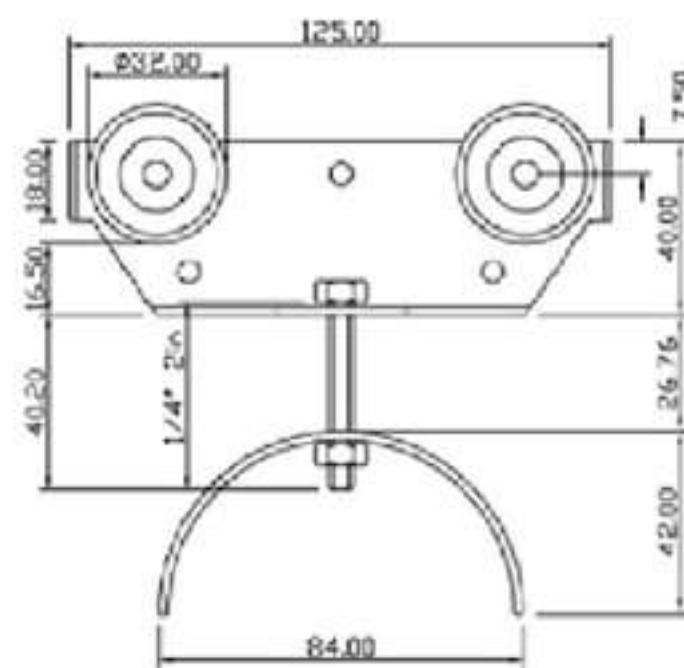


**KY-BC4200**  
C40末端夾線器  
End Cable Clip  
KY-BCS4200白鐵

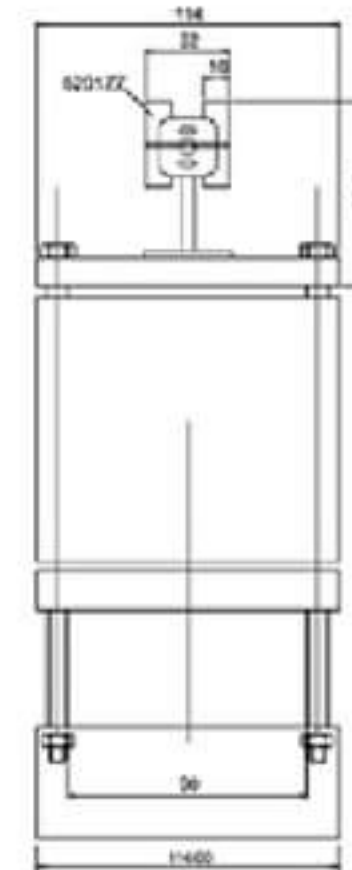
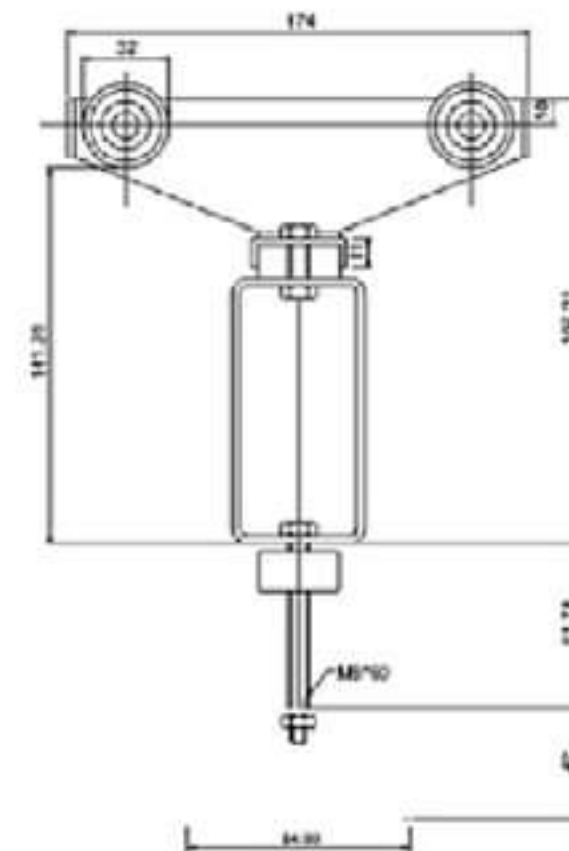


**KY-BC4300**  
C40接頭  
Track Coupler  
KY-BCS4300白鐵





**KY-BC4533**  
 C40滑輪  
 Cable Trolley  
 KY-BCS4533白鐵



**KY-BC4633**  
 C40撥桿滑輪  
 (引導滑輪)  
 Towing Trolley  
 KY-BCS4633白鐵

## 伍、鋁軌道零件圖 Aluminum Track Photog.



**KY-BD3030**  
 鋁軌道  
 Al. Track

**KY-BD3300**  
 鋁軌接頭  
 Coupler

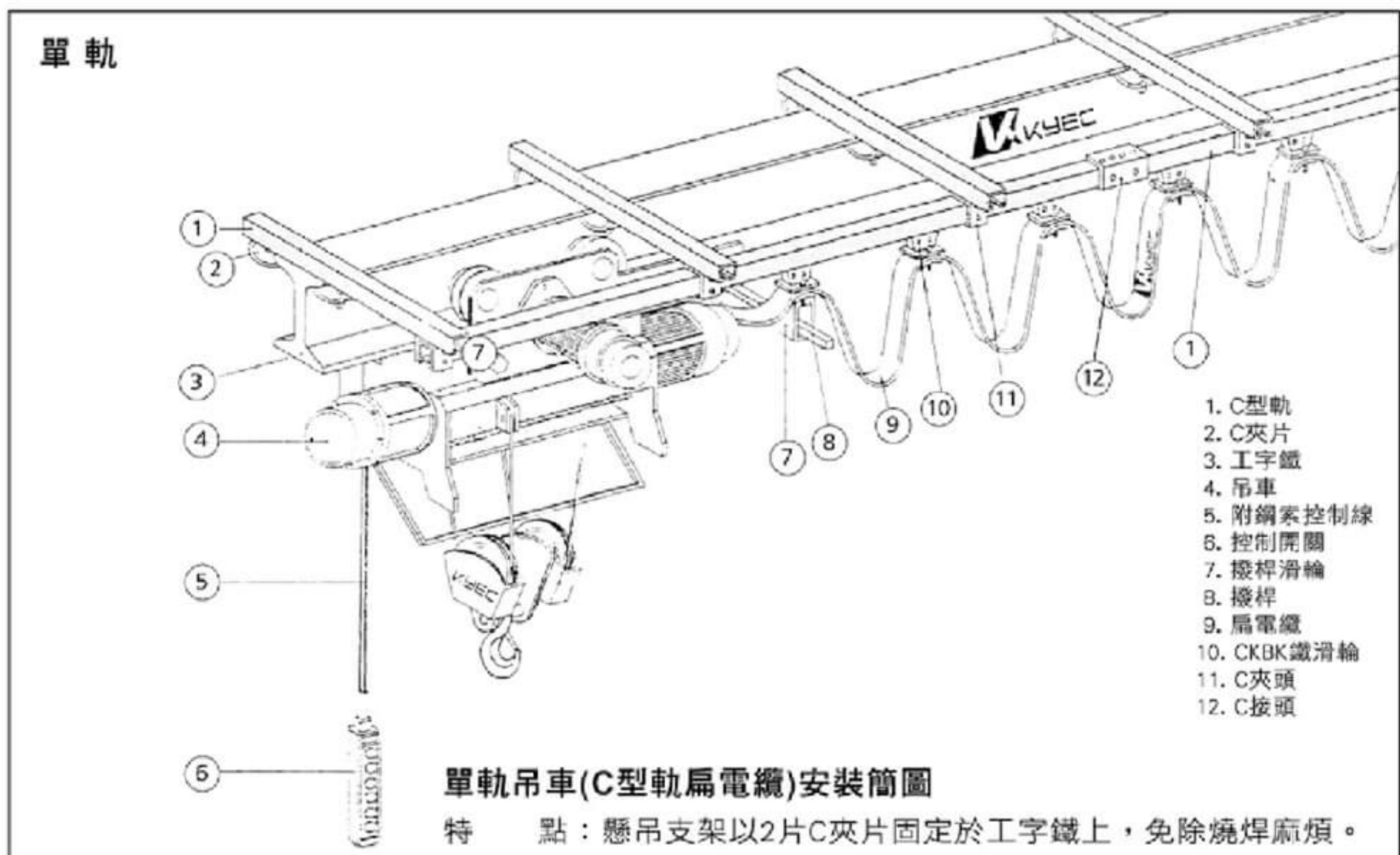
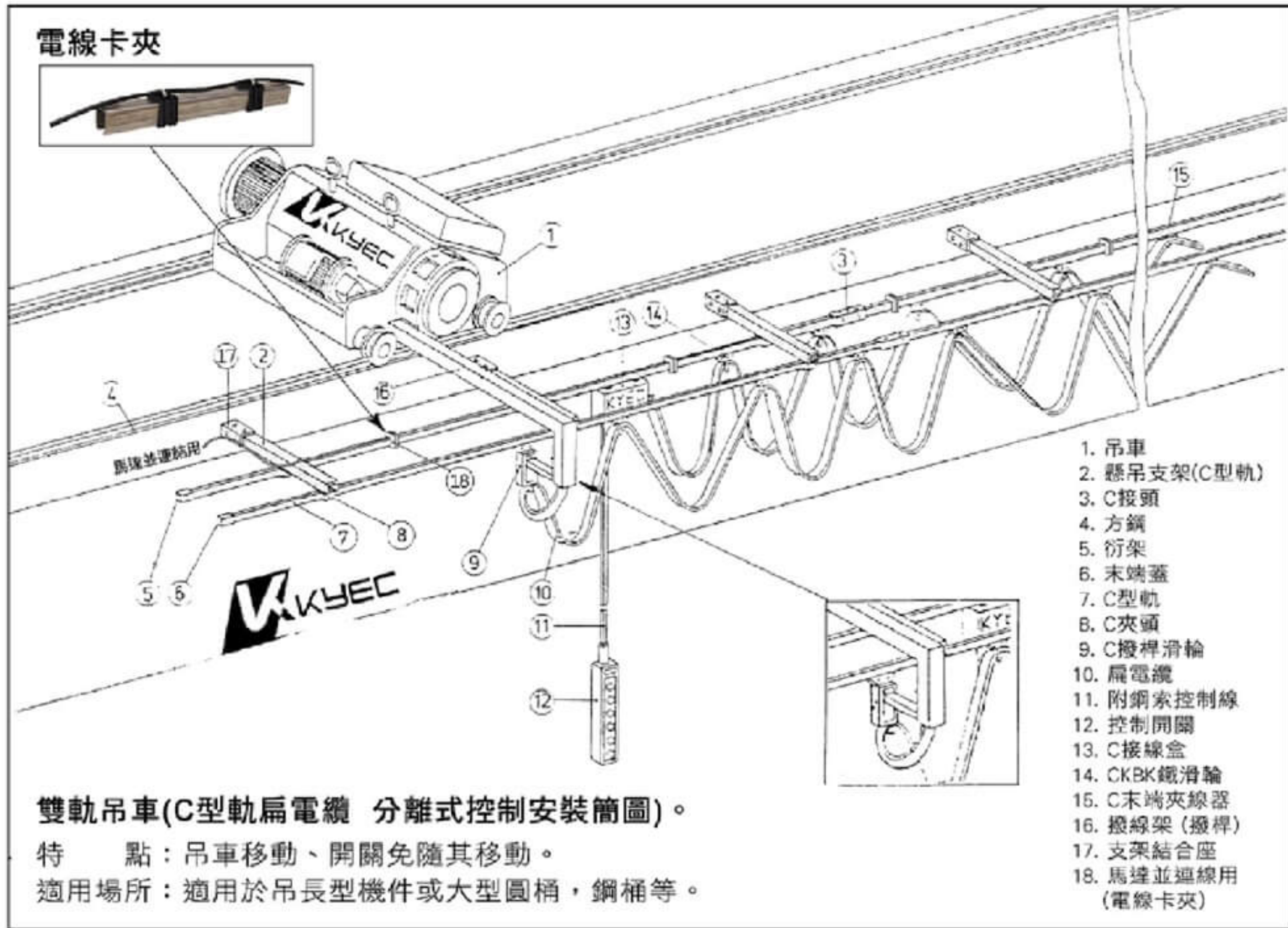


**KY-BD3100**  
 鋁軌夾頭  
 Support Bracket

**KY-BD3522**  
 鋁軌鐵滑輪  
 Cable Trolley



# 陸、安裝示意圖



S I R I M O N G K O L C O R P O R A T I O N C O . , L T D .



02-9630900-2  
081-815-1345



SRM.SLING@HOTMAIL.COM  
HTTP://SRMSLING.COM



39/1 MOO 2 BANGPOOD, PAKKRED  
NONTABURI III20, THAILAND

## 鋼索式滑車



KY-OWS005

鋼索鐵滑輪  
夾扁電纜

KY-OWS107

鋼索鐵滑輪

KY-OWP206

專利滑輪



## 工字鐵吊輪



KY-OIW125150

W型吊輪(大)  
工字鐵  
125~150mm

KY-OIW075150

W型吊輪(小)  
工字鐵  
75~100mm

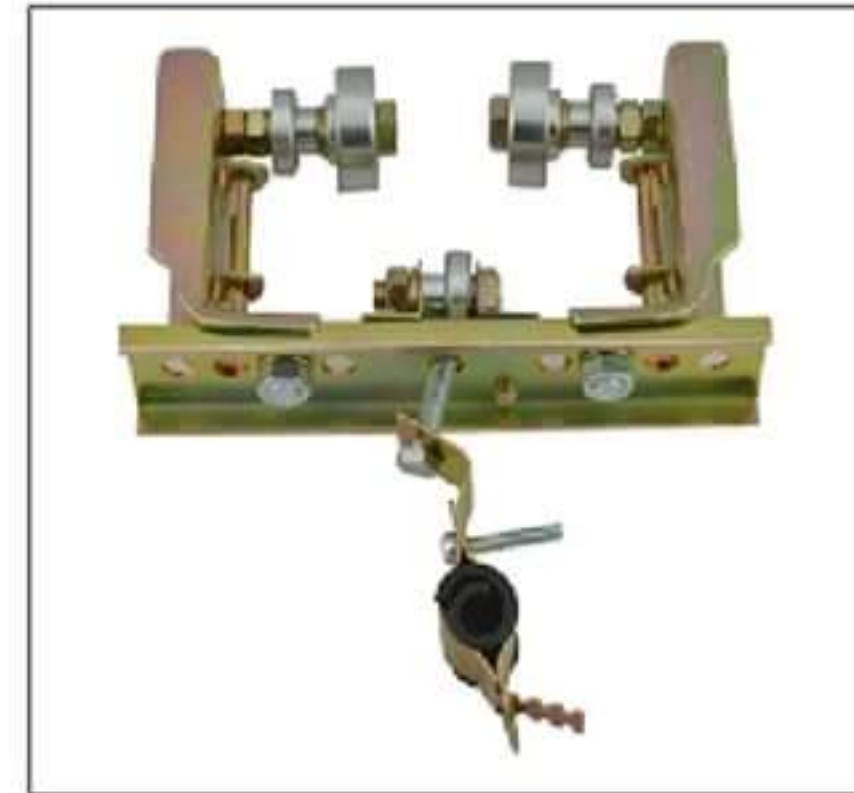


KY-OIU075125C

U型吊輪(彎)  
工字鐵  
75~125mm

KY-OIU075150

U型吊輪(直)  
工字鐵  
75~150mm



## 訂製品



H滑車  
(進口型式)

KY-OIH250W

H滑車



## 柒、彎曲方管

### 扁電纜搭配方管之彎曲式電源供應系統



Dim. 45×1.8L-100m

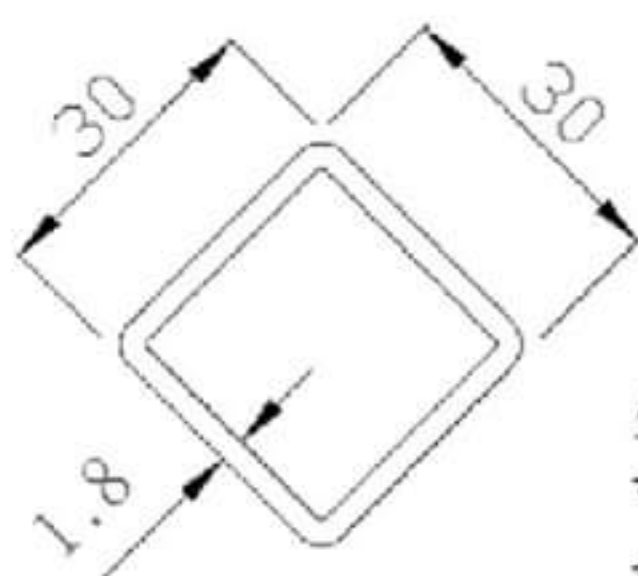
※ 增加一條抗拉帶可降低電纜斷裂的機率。

#### 產品應用：

- 彎曲式電源供應系統
- 防爆式電源供應系統
- 跨距式吊車供電系統
- 自動電鍍設備
- 污水處理工廠
- 重型機械供電系統
- 移動式電源供應系統

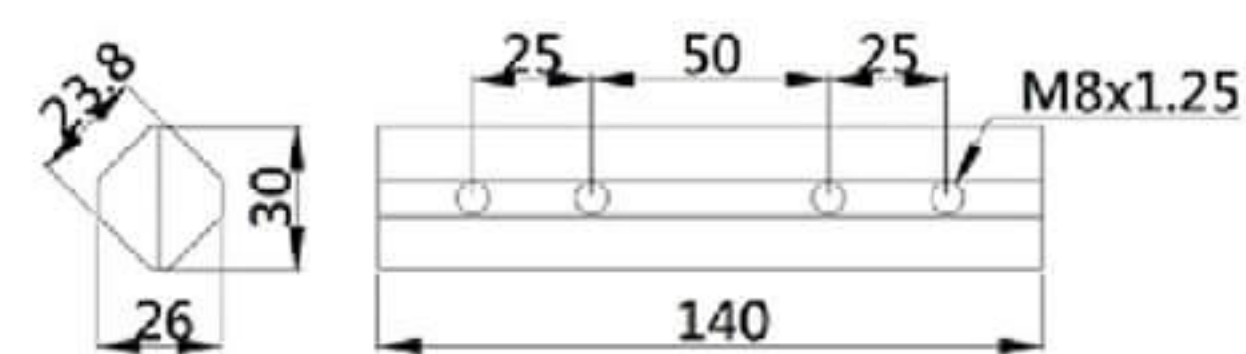


# 捌、方管軌道（普通鐵 / 白鐵）



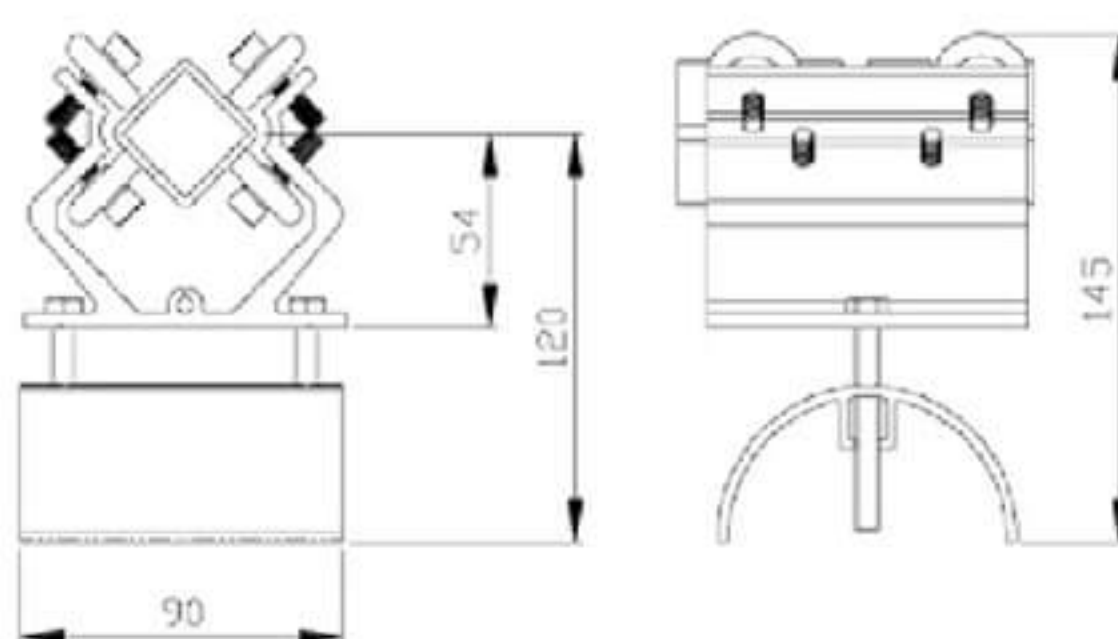
生產長度：6M/PC  
 可運送長度：3M/PC  
 訂購長度必須為6的倍數

**KY-OISP300**  
 方管軌道  
 30 X 30 X 2



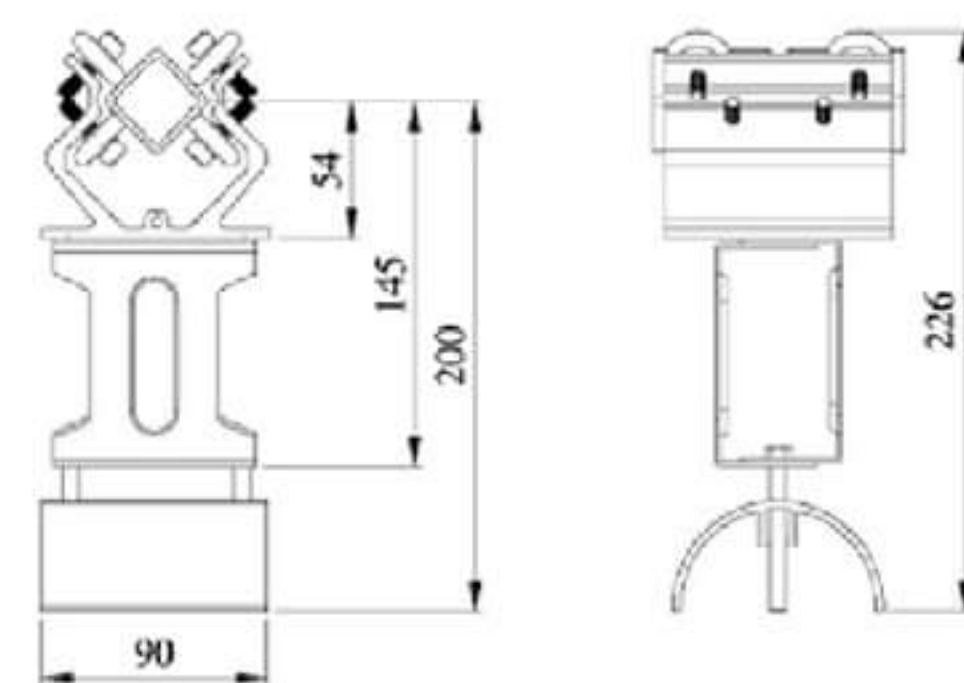
連接螺絲：  
 六角形螺絲 M8X50

**KY-OISP308**  
 方管接頭  
 鋁製



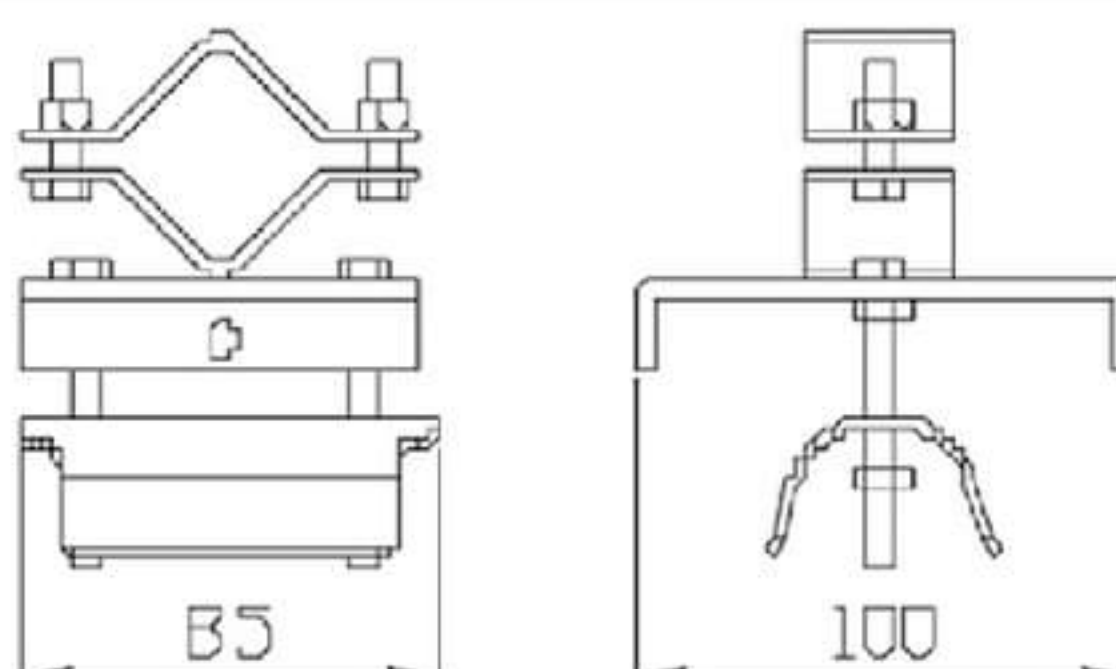
- 內六角平圓頭螺絲M6X35
- 六角形螺絲 M6X15
- 六角形螺絲 M6X50

**KY-OISP306**  
 方管滑車



- 內六角平圓頭螺絲M6X35
- 六角形螺絲 M6X50

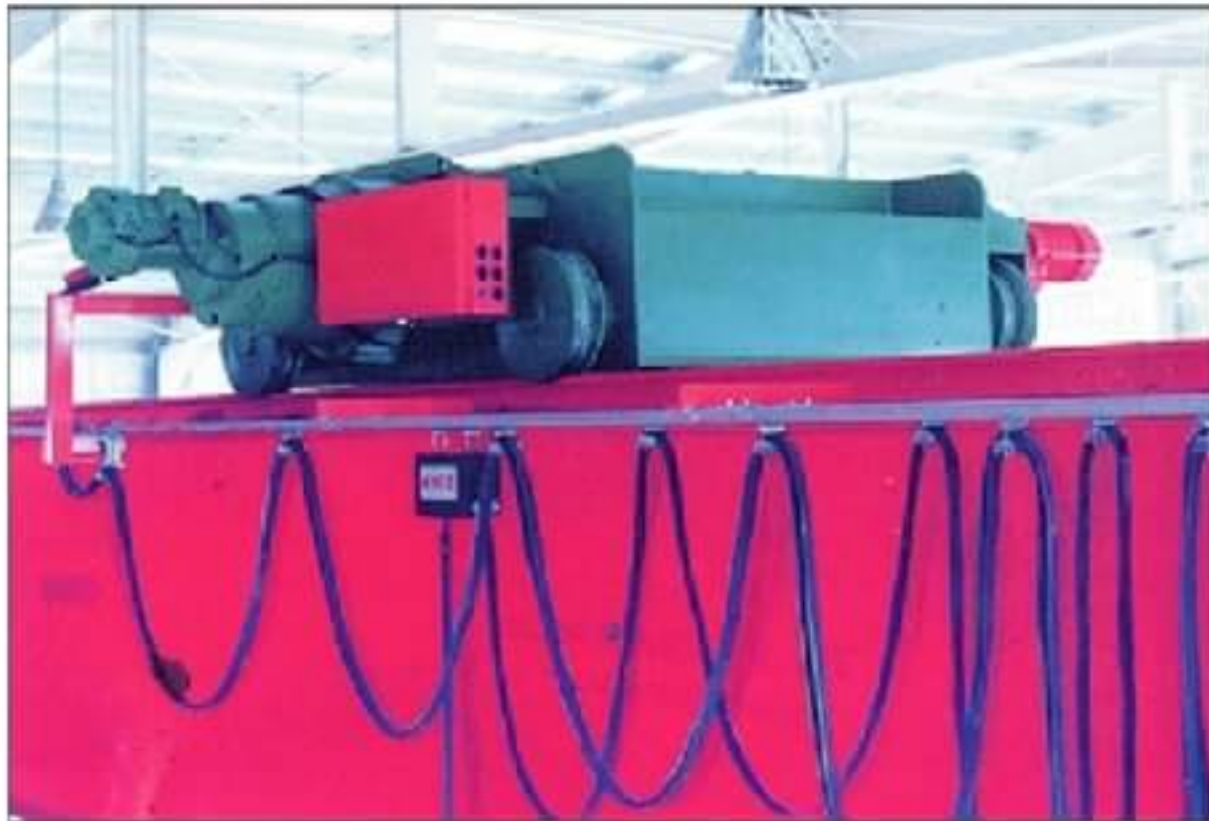
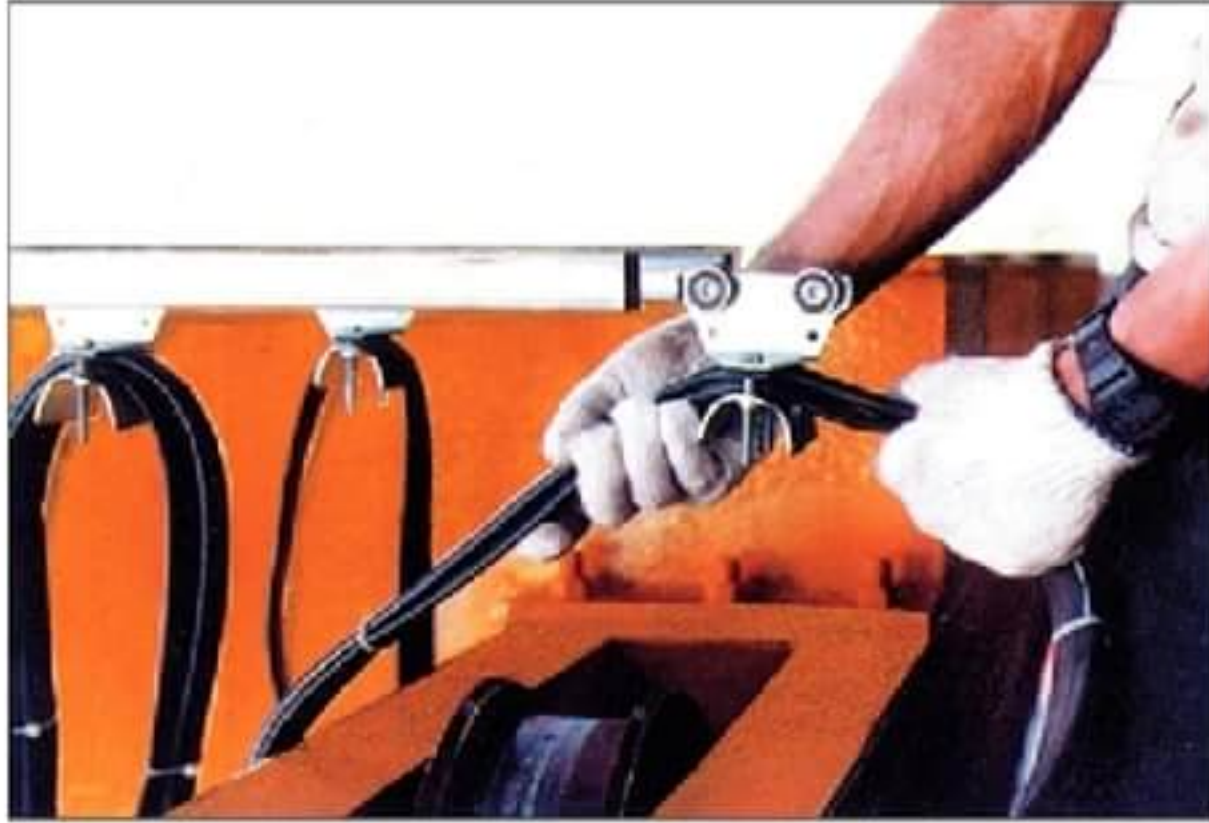
**KY-OISP326**  
 方管撥桿滑車



**KY-OISP346**  
 方管末端夾



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(Welcom, contact with us about all parts or technical information, Thanks! ) - 工程技術部 -



方型管走彎式滑車

