

# SMS

# LIFTING

# EQUIPMENT

# CATALOG



In 1974 a section of the Kobe based ship inspection company Marine Enterprise Co., Ltd. Was incorporated as an independent company- Martec Co., Ltd. We tied business relations with companies in several European countries and in 1978 became the sole agent for lifting products from Swedish manufacturer Gunnebo Lifting. With products made of unique materials and ideas yet unknown to Japan, we were able to continue

## "Safe, Labor-saving and Convenient Solutions"

to our customers and their production sites.

Furthermore, we developed the manufacturing side of our company. In 2001 we opened a production site at our head office in Kobe to manufacture safety attachments for the construction machinery industry. In 2008 we started a joint-venture in Samutprakarn / Thailand (Siam Martec Co., Ltd. , SMC) where we transferred a part of our production.

In 2016 we set up a sales company, Siam Martec Sales Co., Ltd. , aiming for Thailand market. We have various kinds of lifting equipments in stock, select components and assemble lifting sling on customer's request. We specialize in selling highly functional products such as multi-rotating eyebolt and advanced chain sling with built-in shortening function, which is becoming standard in Japan market but is not known much in Thailand. Besides, basic products such as wire rope, synthetic sling, shackle are also available. We believe that we can offer you a solution of safety, cost, delivery.

Not only selling lifting equipments, we can provide customers with inspection service, and make-to-order products such as lifting beam and special hook with the association of Martec Japan, as well. If you have any problem, request or question about lifting work and lifting equipments, feel free to contact us.



**● Multi-rotating Eyebolt** ...P.4 ~ P.7

• Freno Linkbolt ...P.4, 6, 7

• RE Bolt / MY Bolt ...P.5, 6, 7



**● Chain Sling** ...P.8 ~ P. 25

• Standard Model ...P.8, 10 ~ 14

• Advanced Model ...P.9, 15 ~ 25



**● Synthetic Sling** ...P.26 ~ P.27



**● Wire Rope Sling** ...P.28 ~ P.29



**● Others** ...P.30 ~ P.31

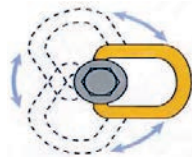


# Multi-Rotating Eyebolt FRENO LINKBOLT

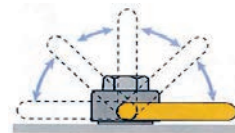
Size:M8 ~ M100 WLL:0.3t ~ 20.0t Safety factor: 5:1 in all direction

## Feature

### •Multi-rotating link function



articulation 180° up from the surface



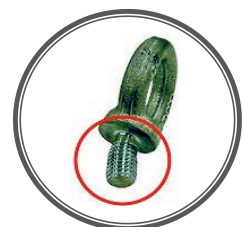
axil link rotation 360°

## Great Benefit from Freno Linkbolt

① Setting				
		<p>The link aligns itself to the correct direction when load is applied.</p> <p>As for conventional eyebolt, the eye should be aligned to load direction using washer.</p>		<p>Using conventional eyebolt...</p> <p>Manual adjustment required</p>
② Safety				
		<p>Freno Linkbolt is an ideal solution for side lifting and turnover lifting, on the other hand conventional eyebolts is not allowed.</p>		<p>Using conventional eyebolt...</p> <p>Side lifting is not allowed</p>
③ Capacity				
※Thread size 12mm, Lifting angle 90°				
eyebolt	<p>0.22t</p>	<p>0.22t</p>	<p>WLL is higher by 3 times or more compared with conventional eyebolt. Plus, WLL increases by multi-leg lifting, although conventional eyebolt doesn't. (※ WLL of 3, 4-leg lifting with conventional eyebolt is not standardized by JIS)</p>	
Freno-A	<p>0.8t</p>	<p>1.12t</p>		
※Thread size 10mm, Lifting angle 90°				
			<p>WLL is always the same.</p>	

As you may know, side lifting and turn lifting using conventional eyebolt are really dangerous since eyebolt can be bent or even break easily.

Are you still going to use conventional eyebolt?



# Rotating Eyebolt

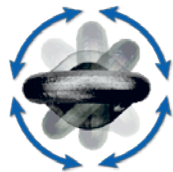
## ROTARY EYEBOLT

Size: M12 ~M36 WLL: 0.6t ~5.6t Safety factor: 5:1 in all direction



### Feature

#### •Rotating link function



Rotary eyebolt rotates 360° around its axis.  
And it can be mounted on a limited space thanks to small turning radius.

### Great Benefit from Rotary Linkbolt

① Setting					
		<p>The link aligns itself to the correct direction when load is applied. With tightening / inspection gauge, it can be easily mounted.</p>	<p>Using optional gauge...</p> <p>can be easily mounted</p>		
② Safety					
		<p>Freno Linkbolt is an ideal solution for side lifting, although normal eyebolts is not allowed.</p>	<p>In case of turn lifting...</p> <p>Freno Linkbolt must be used.</p>		
③ Capacity					
<p>※ Thread size 12mm, Lifting angle 90°</p>					
Freno-A eyebolt		0.22t		0.22t	
		0.6t		0.8t	
<p>Using conventional eyebolt...</p> <p>※ Thread size 12mm, Lifting angle 90°</p> <p>WLL is always the same.</p>		<p>WLL is higher by 2.5 times or more than conventional eyebolt. WLL increases by multi-leg lifting, though conventional eyebolt doesn't. (※ WLL of 3, 4-leg lifting with eyebolt is not standardized by JIS)</p>			0.22t

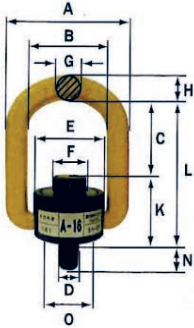
## Multi-rotating Eyebolt

# FRENO LINKBOLT

WLL: 0.3t ~ 20.0t

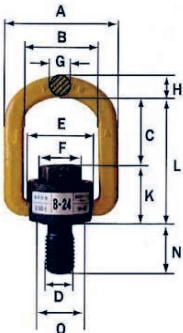
Working load limit  
safety factor 1:5

### A-TYPE strong compact type



Product Code	WLL (t)	Thread size (mm)	Dimension (mm)											Adjusting Torque (Nm) Min/Max	Weight (kg)
			A	B	C	E	F	G	H	K	L	N	O		
A-8	0.3	M8	60	42	34	40	13	8	11	27	61	14	24	8 ~ 15	0.23
A-10	0.5	M10	60	42	33	40	17	8	11	28	61	19	24	12 ~ 20	0.24
A-12	0.8	M12	89	57	56	51	19	13	17	39	95	19	37	18 ~ 29	0.7
A-16	1.6	M16	89	57	54	51	24	13	17	41	95	24	37	30 ~ 49	0.8
A-20	2.8	M20	126	82	78	80	30	19	23	56	134	32	51	49 ~ 78	2.2
A-24	3.7	M24	126	82	76	80	36	19	23	58	134	37	51	59 ~ 196	2.4
A-30	6.3	M30	179	117	103	111	46	27	32	79	182	50	73	108 ~ 294	7.1
A-36	8.0	M36	179	117	99	111	55	27	32	83	182	60	73	177 ~ 392	7.4
A-42	10.0	M42	220	142	127	136	65	31	39	102	229	65	95	230 ~ 450	13.0
A-48	12.0	M48	220	142	123	136	75	31	39	106	229	69	95	294 ~ 585	13.9
A-48L	15.0	M48	246	152	120	145	75	35	43	112	232	78	95	294 ~ 585	15.6
A-36S	7.5	M36	179	117	76	111	55	27	32	106	182	61	73	177 ~ 392	8.1
A-48S	12.0	M48	220	142	96	136	75	31	39	132	229	69	95	294 ~ 585	15.0

### B-TYPE thread sizes correspond to Japanese JIS standard



Product Code	WLL (t)	Thread size (mm)	Dimension (mm)											Adjusting Torque (Nm) Min/Max	Weight (kg)
			A	B	C	E	F	G	H	K	L	N	O		
B-24	0.95	M24	89	57	52	51	30	13	17	43	95	38	36	18 ~ 29	0.85
B-30	1.5	M30	89	57	52	51	30	13	17	45	97	45	43	20 ~ 39	1.0
B-36	2.3	M36	126	82	72	80	46	19	23	63	135	55	51	34 ~ 49	2.7
B-42	3.4	M42	126	82	72	80	46	19	23	65	137	65	59	49 ~ 98	2.9
B-48	4.3	M48	126	82	72	80	46	19	23	65	137	70	68	59 ~ 147	3.4
B-64	9.0	M64	179	117	94	111	65	27	32	91	184	90	89	88 ~ 392	9.3
BB-64	15.0	M64	246	152	115	145	85	35	43	120	235	90	110	137 ~ 785	15.0
B-80	15.0	M80	246	152	115	145	85	35	43	120	235	105	110	137 ~ 785	17.0
B-100	15.0	M100	246	152	115	145	85	35	43	120	235	130	130	137 ~ 785	20.0
MB-64	20.0	M64	272	174	127	163	85	42	49	148	275	82	150	196 ~ 785	28.0
MB-80	20.0	M80	272	174	127	163	85	42	49	148	275	105	150	196 ~ 785	30.0
MB-100	20.0	M100	272	174	127	163	85	42	49	148	275	130	150	196 ~ 785	34.0

### C-TYPE weld-on type



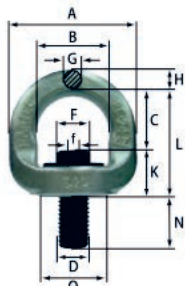
Product Code	WLL (t)	a	Dimension (mm)										Weight (kg)
			A	B	C	E	G	H	K	L	P	S	
C-10	0.5	3	60	42	32	40	8	11	32	64	45	5	0.29
C-16	1.6	5	89	57	52	51	13	17	48	100	60	7	0.95
C-24	4.0	8	126	82	71	80	19	23	71	142	85	10	2.8
C-36	8.0	12	179	117	94	111	27	32	99	192	120	14	8.4

## Rotating Eyebolt

# ROTARY EYEBOLT

WLL: 0.6t ~ 5.6t

Working load limit  
safety factor 1:5



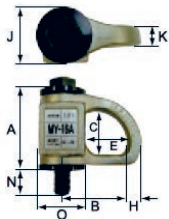
Product Code	WLL (t)	Thread size (mm)	Dimension (mm)											Adjusting Torque (Nm) Min/Max	Weight (kg)
			A	B	C	E	F	G	H	K	L	N	O		
RE-12	0.6	M12	56	32	24	10	5	10	12	18	42	18	36	4 ~ 15	0.25
RE-16	1.2	M16	64	36	28	13	6	12	14	20	48	24	42	8 ~ 30	0.4
RE-20	2.0	M20	76	42	31	19	8	15	17	25	56	30	44	16 ~ 50	0.7
RE-24	2.6	M24	90	52	40	24	10	17	19	30	70	36	48	25 ~ 80	1.0
RE-30	3.6	M30	112	62	54	24	10	24	25	35	90	45	64	40 ~ 150	2.1
RE-36	5.6	M36	134	74	67	27	10	28	30	39	107	54	72	60 ~ 210	3.5

## Rotating Eyebolt

### MY BOLT

WLL: 0.5t ~ 1.0t

Working load limit  
safety factor 1:5



Product Code	WLL (t)	Thread size (mm)	Dimension (mm)										Adjusting Torque (Nm) Min/Max	Weight (kg)
			A	B	C	E	H	J	K	N	O			
MY-12A	0.5	M12 x 85	68	57	37	37	11.5	42	16	17	42	18 ~ 29	0.93	
MY-16A	1.0	M16 x 90	68	57	37	37	11.5	42	16	22	42	34 ~ 49	0.98	

## Working Load Limits for Various Lifting Applications (Safety Factor = 1:5)

Lifting Mode											
Lifting Angle	0	90	0	90	α=0-60	α=60-90	α=90-120	α=0-60	α=60-90	α=90-120	
Mode Coefficient	1	1	2	2	1.72	1.4	1	2.58	2.1	1.5	
Product Code	Working Load Limit (t)										
Freno A	A-8	0.3	0.3	0.6	0.6	0.51	0.42	0.3	0.77	0.63	0.45
	A-10	0.5	0.5	1.0	1.0	0.8	0.7	0.5	1.2	1.0	0.75
	A-12	0.8	0.8	1.6	1.6	1.3	1.12	0.8	2.0	1.6	1.2
	A-16	1.6	1.6	3.2	3.2	2.7	2.2	1.6	4.1	3.3	2.4
	A-20	2.8	2.8	5.6	5.6	4.8	3.9	2.8	7.2	5.8	4.2
	A-24	3.7	3.7	7.4	7.4	6.3	5.1	3.7	9.5	7.7	5.5
	A-30	6.3	6.3	12.6	12.6	10.8	8.8	6.3	16.2	13.2	9.4
	A-36	8.0	8.0	16.0	16.0	13.7	11.2	8.0	20.6	16.8	12.0
	A-42	10.0	10.0	20.0	20.0	17.2	14.0	10.0	25.8	21.0	15.0
	A-48	12.0	12.0	24.0	24.0	20.6	16.8	12.0	30.9	25.2	18.0
	A-48L	15.0	15.0	30.0	30.0	25.8	21.0	15.0	38.7	31.5	22.5
	A-36S	7.5	7.5	15.0	15.0	12.9	10.5	7.5	19.3	15.7	11.2
A-48S	12.0	12.0	24.0	24.0	20.6	16.8	12.0	30.9	25.2	18.0	
Freno B	B-24	0.95	0.95	1.9	1.9	1.6	1.33	0.95	2.4	1.9	1.4
	B-30	1.5	1.5	3.0	3.0	2.5	2.1	1.5	3.8	3.1	2.2
	B-36	2.3	2.3	4.6	4.6	3.9	3.2	2.3	5.9	4.8	3.4
	B-42	3.4	3.4	6.8	6.8	5.8	4.7	3.4	8.7	7.1	5.1
	B-48	4.3	4.3	8.6	8.6	7.3	6.0	4.3	11.0	9.0	6.4
	B-64	9.0	9.0	18.0	18.0	15.4	12.6	9.0	23.2	18.9	13.5
	BB-64	15.0	15.0	30.0	30.0	25.8	21.0	15.0	38.7	31.5	22.5
	B-80	15.0	15.0	30.0	30.0	25.8	21.0	15.0	38.7	31.5	22.5
	B-100	15.0	15.0	30.0	30.0	25.8	21.0	15.0	38.7	31.5	22.5
	MB-64	20.0	20.0	40.0	40.0	34.4	28.0	20.0	51.6	42.0	30.0
MB-80	20.0	20.0	40.0	40.0	34.4	28.0	20.0	51.6	42.0	30.0	
MB-100	20.0	20.0	40.0	40.0	34.4	28.0	20.0	51.6	42.0	30.0	
Freno C	C-10	0.5	0.5	1.0	1.0	0.8	0.7	0.5	1.2	1.0	0.75
	C-16	1.6	1.6	3.2	3.2	2.7	2.2	1.6	4.1	3.3	2.4
	C-24	4.0	4.0	8.0	8.0	6.8	5.6	4.0	10.3	8.4	6.0
	C-36	8.0	8.0	16.0	16.0	13.7	11.2	8.0	20.6	16.8	12.0
RE	RE-12	0.6	0.6	1.2	1.2	1.0	0.8	0.6	1.5	1.2	0.9
	RE-16	1.2	1.2	2.4	2.4	2.0	1.6	1.2	3.1	2.5	1.8
	RE-20	2.0	2.0	4.0	4.0	3.4	2.8	2.0	5.1	4.2	3.0
	RE-24	2.6	2.6	5.2	5.2	4.4	3.6	2.6	6.7	5.5	3.9

# Standard & Advanced model of **CHAIN SLING**

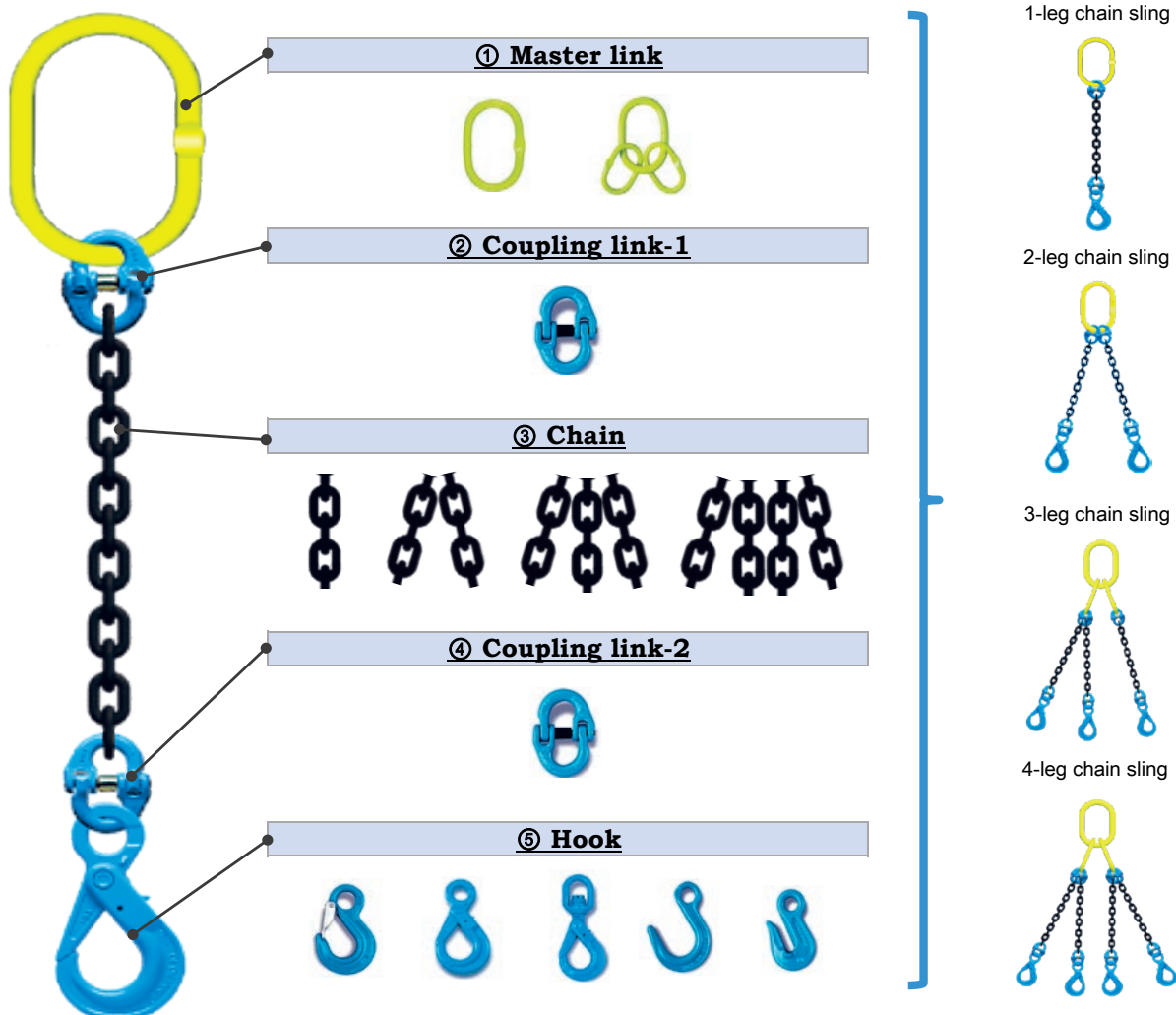
Size: 6mm ~ 32mm WLL: 0.9t ~ 100.0t Safety factor: 5:1

**STANDARD MODEL** Size: 6mm ~ 16mm WLL: 0.9t ~ 25.0t Safety factor: 5:1

Standard model chain sling comes in 5 sizes, and composed of basic components. We have all components in stock to assemble chain sling on customer's request. 1 ~ 4-leg chain sling is available at any length you like. There are several options for hook such as self locking hook, swivel locking hook etc. Of course we can help you select appropriate chain sling components of chain sling that suits your needs.

**[How to order]** Please give us the following information.

- Capacity (t) Number of leg (1 ~ 4-leg) Lifting method (straight / basket / choke lifting)
- Size (mm) Chain length or Total length (mm) Hook type Any other condition






**ADVANCED MODEL** Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

## Feature

- Chain shortening function
- Less components solution
- Other unique function

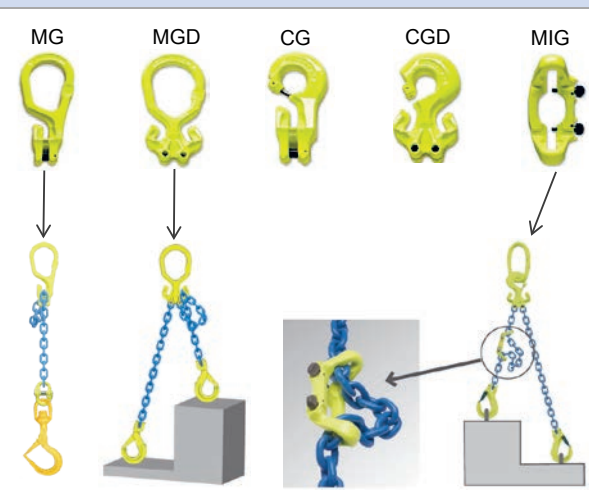


**① Chain shortening function**

Master link MG(D), coupling link CG(D), have built-in shortening function, which enables you to adjust chain length on the spot without any extra tool.

NO WLL reduction is required, unlike chain shortening by Grab hook. Chain shortner MIG is also available.

Therefore you can cut the number of components and the weight.



**② Less components solution**


②-1 **Clevis type connection**  
 This function allows you to combin components directly with chain, NO coupling link needed.

②-2 **flexi-leg function**  
 With advanced model chain sling, you can switch the chain legs from 1 leg to 4 leg instantly.

It greatly helps you to cut the number of chain sling.


②-3 **Greater WLL**  
 Compared with standard model, WLL is higher by 20% or more in the same size.

Standard model



6mm: 0.9t  
8mm: 1.6t  
10mm: 2.5t

Advanced model



6mm: 1.1t  
8mm: 2.0t  
10mm: 3.2t

## Working Load Limits for Various Lifting Applications (Safety Factor = 1:5)

### STANDARD MODEL

Lifting Method	1-leg	2-leg			3 or 4-leg		
Lifting Angle	—	60°	90°	120°	60°	90°	120°
Chain Diameter (mm)	Working Load Limit (t)						
6	0.9	1.5	1.2	0.9	2.3	1.9	1.3
8	1.6	2.7	2.2	1.6	4.1	3.3	2.4
10	2.5	4.3	3.5	2.5	6.4	5.3	3.7
13	4.2	7.2	5.9	4.2	10.9	8.9	6.3
16	6.4	11.0	9.0	6.4	16.6	13.5	9.6

Lifting Method	1-leg Choke Hitch	2-leg Choke Hitch			1-leg 2-point Basket Hitch			2-leg 4-point Basket Hitch		
Lifting Angle	—	60°	90°	120°	60°	90°	120°	60°	90°	120°
Chain Diameter (mm)	Working Load Limit (t)									
6	0.7	1.2	1.0	0.7	1.2	1.0	0.7	1.8	1.5	1.0
8	1.2	2.2	1.8	1.2	2.2	1.8	1.2	3.3	2.7	1.9
10	2.0	3.4	2.8	2.0	3.4	2.8	2.0	5.1	4.2	3.0
13	3.3	5.8	4.7	3.3	5.8	4.7	3.3	8.7	7.1	5.0
16	5.1	8.8	7.2	5.1	8.8	7.2	5.1	13.3	10.8	7.6

## Working Load Limits for Various Lifting Applications (Safety Factor = 1:5)

### ADVANCED MODEL

Lifting Method	1-leg	2-leg			3 or 4-leg		
Lifting Angle	—	60°	90°	120°	60°	90°	120°
Chain Diameter (mm)	Working Load Limit (t)						
6	1.1	1.9	1.5	1.1	2.8	2.3	1.6
8	2.0	3.4	2.8	2.0	5.1	4.2	3.0
10	3.2	5.5	4.5	3.2	8.3	6.7	4.8
13	5.2	9.0	7.3	5.2	13.5	11.0	7.8
16	8.0	13.8	11.3	8.0	20.7	16.9	12.0
20	12.8	22.1	18.1	12.8	33.2	27.1	19.2
22	12.0	20.7	16.9	12.0	31.1	25.4	18.0
26	17.0	29.4	24.0	17.0	44.1	36.0	25.5
32	25.0	43.3	35.3	25.0	64.9	53.0	37.5

Lifting Method	1-leg Choke Hitch	2-leg Choke Hitch			1-leg 2-point Basket Hitch			2-leg 4-point Basket Hitch		
Lifting Angle	—	60°	90°	120°	60°	90°	120°	60°	90°	120°
Chain Diameter (mm)	Working Load Limit (t)									
6	0.8	1.5	1.2	0.8	1.5	1.2	0.8	2.2	1.8	1.3
8	1.6	2.7	2.2	1.6	2.7	2.2	1.6	4.1	3.3	2.4
10	2.5	4.4	3.6	2.5	4.4	3.6	2.5	6.6	5.4	3.8
13	4.1	7.2	5.8	4.1	7.2	5.8	4.1	10.8	8.8	6.2
16	6.4	11.0	9.0	6.4	11.0	9.0	6.4	16.6	13.5	9.6
20	10.2	17.7	14.4	10.2	17.7	14.4	10.2	26.6	21.7	15.3
22	9.6	16.6	13.5	9.6	16.6	13.5	9.6	24.9	20.3	14.4
26	13.6	23.5	19.2	13.6	23.5	19.2	13.6	35.3	28.8	20.4
32	20.0	34.6	28.2	20.0	34.6	28.2	20.0	51.9	42.4	30.0

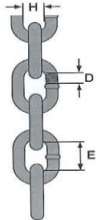
## STANDARD MODEL Size: 6mm ~ 16mm WLL: 0.9t ~ 6.4t Safety factor: 5:1

### Chain

#### Grade 8 Chain

### KLW(KL)

WLL: 0.9t ~ 6.4t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)			Weight (kg/m)
			D	E	H	
KLW-6-8	0.9	6	6	18	7.8	0.8
KLW-8-8	1.6	8	8	24	10.4	1.5
KLW-10-8	2.5	10	10	30	13.0	2.3
KLW-13-8	4.2	13	13	39	16.9	3.9
KLW-16-8	6.4	16	16	48	20.8	5.8

※ For larger size, Please refer to advanced model.

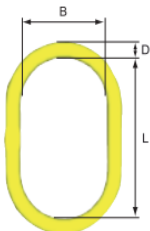
Working load limit  
safety factor 1:5

### Master Link

#### Grade 10 Master Link

### MFA

WLL: 1.0t ~ 25.0t



Product Code	WLL (t)	Chain Diameter (mm)			Dimension			Weight (kg)
		1 leg	2 leg	3/4 leg	L	B	D	
MFA-6-10	1.0	6	—	—	100	60	11	0.2
MFA-8-10	2.0	8	6	6	125	70	14	0.4
MFA-10-10	3.2	10	8	8	140	80	17	0.8
MFA-1310-10	6.4	13	10	10	160	95	22	1.5
MFA-1613-10	10.0	16	13	13	190	110	28	2.8
MFA-2016-10	16.0	20	16	16	240	140	34	5.2
MFA-2220-10	25.0	—	20	20	250	150	40	7.3

※ Chain diameter is based on Coupling link X-015.

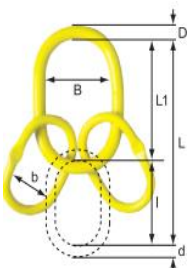
※ For larger size, Please refer to advanced model.

Working load limit  
safety factor 1:5

#### Grade 10 Master Link with Sub Links

### MT

WLL: 2.6t ~ 21.0t



Product Code	WLL (t)	Chain D (mm)	3/4 leg	Dimension (mm)							Weight (kg)
				L	B	φD	I	b	φd	L1	
MT-6-10	2.6	6		270	90	19	120	70	14	150	1.8
MT-8-10	4.2	8		300	95	22	140	80	17	160	3.0
MT-10-10	8.3	10		360	120	30	160	95	22	200	6.4
MT-13-10	15.6	13		440	150	40	190	110	28	250	14.2
MT-16-10	21.0	16		500	200	50	200	120	32	300	23.0

※ For larger size, Please refer to advanced model.

Working load limit  
safety factor 1:5

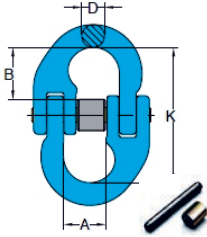
## STANDARD MODEL Size: 6mm ~ 16mm WLL: 0.9t ~ 25.0t Safety factor: 5:1

### Coupling Link

#### Grade 10 Connecting link

## X-015

WLL: 1.1t ~ 8.0t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)				Weight (kg)
			K	A	D	B	
X-015-06	1.1	6	45	15	7	18	0.1
X-015-07	2.0	8	59	18	9	25	0.2
X-015-10	3.2	10	69	25	11	28	0.3
X-015-13	5.3	13	92	30	16	38	0.7
X-015-16	8.0	16	101	36	19	41	1.2

※ For larger size, Please refer to advanced model.

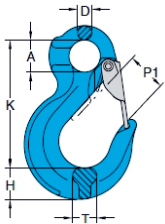
Working load limit  
safety factor 1:5

### Hook

#### Grade 10 Eye Sling Hook

## X-044/S

WLL: 1.1t ~ 8.0t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)						Weight (kg)
			K	P1	A	D	T	H	
X-044/S-06	1.1	6	80	23	20	10	17	19	0.3
X-044/S-07	2.0	8	98	28	25	12	20	23	0.5
X-044/S-10	3.2	10	121	36	32	15	23	31	1.0
X-044/S-13	5.3	13	152	40	40	18	27	38	1.8
X-044/S-16	8.0	16	185	44	50	22	32	45	3.4

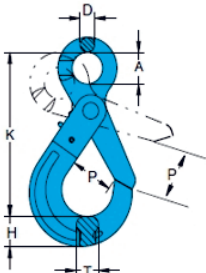
※ For larger size, Please refer to advanced model.

Working load limit  
safety factor 1:5

#### Grade 10 Eye Self Locking Hook

## X-025

WLL: 1.1t ~ 8.0t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)						Weight (kg)
			K	P1	A	D	T	H	
X-025-06	1.1	6	110	28	21	10	15	19	0.5
X-025-07	2.0	8	136	34	25	11	20	24	0.8
X-025-10	3.2	10	167	44	32	13	26	30	1.5
X-025-13	5.3	13	207	51	40	16	30	39	3.0
X-025-16	8.0	16	252	60	50	21	36	49	5.8

※ For larger size, Please refer to advanced model.

Working load limit  
safety factor 1:5

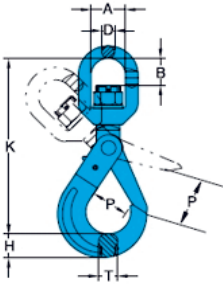
## STANDARD MODEL Size: 6mm ~ 16mm WLL: 0.9t ~ 25.0t Safety factor: 5:1

### Hook

#### Grade 10 Swivel Self Locking Hook

### X-027

WLL: 1.1t ~ 8.0t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)							Weight (kg)
			K	P	B	A	D	T	H	
X-027-06	1.1	6	149	28	22	32	12	15	19	0.6
X-027-07	2.0	8	186	34	29	36	13	20	24	1.2
X-027-10	3.2	10	218	44	34	41	16	26	30	2.0
X-027-13	5.3	13	276	51	43	46	21	30	39	4.1
X-027-16	8.0	16	329	60	50	61	23	36	49	6.8

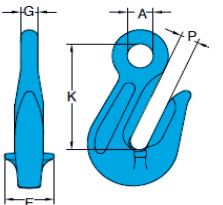
※ For larger size, Please refer to advanced model.

Working load limit  
safety factor 1:5

#### Grade 10 Eye Grab Hook

### X-041

WLL: 1.1t ~ 8.0t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)					Weight (kg)
			P	A	G	K	F	
X-041-06	1.1	6	8	13	8	50	26	0.2
X-041-07	2.0	8	10	16	9	62	30	0.3
X-041-10	3.2	10	13	20	13	82	40	0.6
X-041-13	5.3	13	17	26	16	107	52	1.4
X-041-16	8.0	16	21	30	20	132	57	2.4

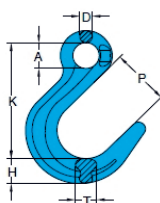
※ For larger size, Please refer to advanced model.  
※ When using X-041 for choke lifting, WLL should be reduced to 80%.

Working load limit  
safety factor 1:5

#### Grade 10 Eye Foundry Hook

### X-047

WLL: 2.0t ~ 8.0t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)						Weight (kg)
			K	P	A	D	T	H	
X-047-07	2.0	8	123	62	24	12	19	30	0.8
X-047-10	3.2	10	149	74	32	15	29	35	1.6
X-047-13	5.3	13	180	88	40	19	32	39	2.5
X-047-16	8.0	16	213	98	50	25	41	47	4.4

※ For larger size, Please refer to advanced model.

Working load limit  
safety factor 1:5

## ADVANCED MODEL Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

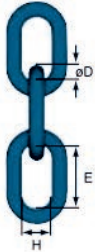
### Chain

Grade 10 & 8 Chain

### KLA(KL)

WLL: 1.1t ~ 25.0t

Working load limit  
safety factor 1:5



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)			Weight (kg/m)
			φD	E	H	
KLA-6-10	1.1	6	6	18	8.9	0.8
KLA-8-10	2.0	8	8	24	11	1.4
KLA-10-10	3.2	10	10	30	14	2.3
KLA-13-10	5.2	13	13	39	18	3.8
KLA-16-10	8.0	16	16	48	22	5.6
KLA-20-10	12.8	20	20	60	29	9.4
KL-22-8	12.0	22	22	66	30	11.0
KL-26-8	17.0	26	26	78	35	14.8
KL-32-8	25.0	32	32	96	43	23.0

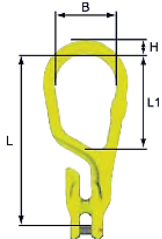
### Master Link

Grade 10 Single Master Link

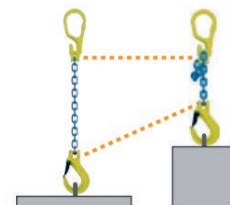
### MG

WLL: 1.1t ~ 8.0t

Working load limit  
safety factor 1:5



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)				Weight (kg)
			L	L1	B	H	
MG-6-10	1.1	6	145	88	60	15	0.5
MG-8-10	2.0	8	171	92	60	18	0.9
MG-10-10	3.2	10	211	113	75	22	1.8
MG-13-10	5.2	13	261	136	90	26	3.5
MG-16-10	8.0	16	311	157	105	31	6.1

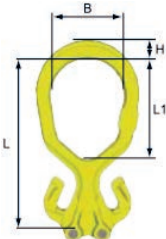


Grade 10 Double Master Link

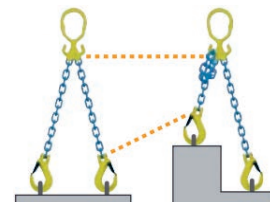
### MGD

WLL: 1.5t ~ 13.8t

Working load limit  
safety factor 1:5



Product Code	WLL (t)		Chain D (mm)	Dimension (mm)				Weight (kg)
	60°	90°		L	L1	B	H	
MGD-6-10	1.9	1.5	6	144	90	60	17	0.7
MGD-8-10	3.4	2.8	8	170	100	75	21	1.3
MGD-10-10	5.5	4.5	10	211	124	90	24	2.3
MGD-13-10	9.0	7.3	13	262	148	105	29	5.0
MGD-16-10	13.8	11.3	16	309	175	120	35	7.9



## ADVANCED MODEL Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

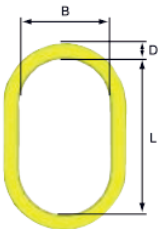
### Master Link

#### Grade 10 Master Link

**M**

WLL: 5.0t ~ 100.0t

Working load limit  
safety factor 1:5



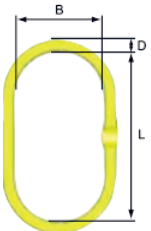
Product Code	WLL (t)	Chain D (mm)		Dimension (mm)			Weight (kg)
		1-leg	2-leg	L	B	D	
M-13-10	5.0	13	10	150	90	19	1.0
M-1613-10	10.0	16	13	190	110	28	2.8
M-19-10	12.0	20	16	200	120	30	3.5
M-2622-10	28.0	26	22	250	150	42	7.8
M-32-10	30.0	32	22	300	180	45	11.7
M-3226-10	40.0	32	26	300	200	50	15.0
M-3632-10	50.0	32	32	350	200	55	20.7
M-4536-10	63.0	32	32	375	210	60	26.0
M-90T-10	80.0	-	-	450	250	70	42.8
M-125T-10	100.0	-	-	450	260	80	57.0

#### Grade 10 Master Link for Large Cran Hook

**MFX**

WLL: 3.2t ~ 11.5t

Working load limit  
safety factor 1:5



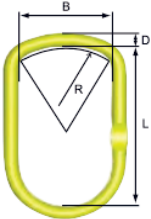
Product Code	WLL (t)	Chain D (mm)		Dimension (mm)			Weight (kg)
		1-leg	2-leg	L	B	D	
MFX-108-10	3.2	8/10	8	340	180	25	3.7
MFX-1310-10	5.2	13	10	340	180	28	4.7
MFX-1613-10	8.0	16	13	340	180	34	7.1
MFX-2016-10	11.5	20	16	340	180	40	9.7

#### Grade 10 Master Link for Large Cran Hook

**MFH**

WLL: 5.0t ~ 22.0t

Working load limit  
safety factor 1:5



Product Code	WLL (t)	Chain Diameter (mm)			Dimension				Weight (kg)
		1 leg	2 leg	3/4 leg	L	B	D	R	
MFH-1310-10	5.0	13	8/10	8	230	125	22	118	2.0
MFH-1613-10	10.0	16	13	10	250	135	28	132	3.6
MFH-2016-10	14.0	20	16	13	280	135	32	100	5.2
MFH-2220-10	22.0	-	20	16	320	175	40	120	9.6
MFAW-2220-10	18.0	-	20	16	355	225	40	160	10.9



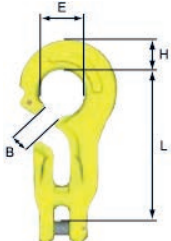
### Coupling Link

#### Grade 10 Single Grab with Built-in Shortening Function

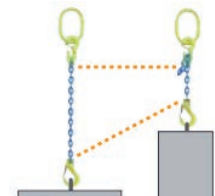
**CG**

WLL: 1.1t ~ 8.0t

Working load limit  
safety factor 1:5



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)				Weight (kg)
			L	B	E	H	
CG-6-10	1.1	6	80	11	24	19	0.3
CG-8-10	2.0	8	107	12	32	24	0.8
CG-10-10	3.2	10	134	15	40	29	1.5
CG-13-10	5.2	13	172	18	52	38	3.2
CG-16-10	8.0	16	215	22	64	47	6.1





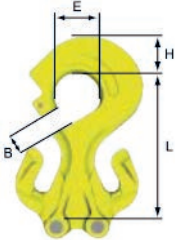
## ADVANCED MODEL Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

### Coupling Link

#### Grade 10 Double Grab with Built-in Shortening Function

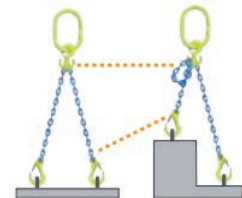
#### CGD

WLL: 1.5t ~ 13.8t



Product Code	WLL ( t )		Chain D (mm)	Dimension (mm)				Weight (kg)
	60°	90°		L	B	E	H	
CGD-6-10	1.9	1.5	6	79	11	24	21	0.5
CGD-8-10	3.4	2.8	8	107	12	32	28	1.3
CGD-10-10	5.5	4.5	10	134	15	40	37	2.5
CGD-13-10	9.0	7.3	13	173	18	52	46	5.5
CGD-16-10	13.8	11.3	16	215	22	64	57	10.2

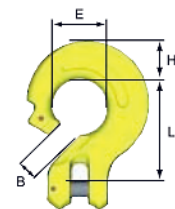
Working load limit  
safety factor 1:5



#### Grade 10 Single Lock

#### CL

WLL: 1.1t ~ 8.0t



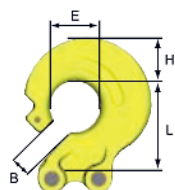
Product Code	WLL ( t )	Chain D (mm)	Dimension (mm)				Weight (kg)
			L	B	E	H	
CL-6-10	1.1	6	43	11	24	18	0.2
CL-8-10	2.0	8	59	12	32	23	0.5
CL-10-10	3.2	10	73	15	40	29	0.9
CL-13-10	5.2	13	95	18	52	37	2.0
CL-16-10	8.0	16	118	22	64	47	3.8

Working load limit  
safety factor 1:5

#### Grade 10 Double Lock

#### CLD

WLL: 1.5t ~ 13.8t



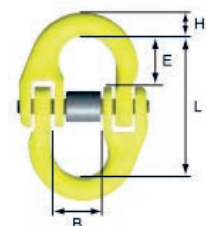
Product Code	WLL ( t )		Chain D (mm)	Dimension (mm)				Weight (kg)
	60°	90°		L	B	E	H	
CLD-6-10	1.9	1.5	6	43	11	24	21	0.3
CLD-8-10	3.4	2.8	8	57	12	32	28	0.8
CLD-10-10	5.5	4.5	10	71	15	40	36	1.5
CLD-13-10	9.0	7.3	13	94	18	52	46	3.2
CLD-16-10	13.8	11.3	16	115	25	64	56	5.5

Working load limit  
safety factor 1:5

#### Grade 10 & 8 Coupling Link

#### GA(G)

WLL: 1.1t ~ 25.0t



Product Code	WLL ( t )	Chain D (mm)	Dimension (mm)				Weight (kg)
			L	B	H	E	
GA-6-10	1.1	6	45	15	8	16	0.1
GA-8-10	2.0	8	56	18	11	20	0.2
GA-10-10	3.2	10	68	25	13	23	0.3
GA-13-10	5.2	13	89	30	17	31	0.7
GA-16-10	8.0	16	106	36	20	38	1.2
GA-20-10	12.8	20	125	43	26	44	2.2
G-22-8	12.0	22	152	50	26	57	3.0
G-26-8	17.0	26	161	58	32.5	56	4.6
G-32-8	25.0	32	200	70	40	72	8.6

Working load limit  
safety factor 1:5

## ADVANCED MODEL Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

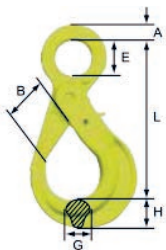
### Hook

#### Grade 10 & 8 Eye Self Locking Hook

#### BK

WLL: 1.2t ~ 20.0t

Working load limit  
safety factor 1:5



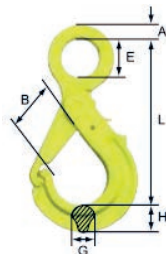
Product Code	WLL (t)	Chain D (mm)	Dimension (mm)						Weight (kg)
			L	B	E	A	G	H	
BK-6-10	1.2	6	109	29	22	11.5	15	21	0.5
BK-7/8-10	2.0	8	137	37	28	14	17	25	0.9
BK-10-10	3.2	10	168	45	34	16	21	30	1.5
BK-13-10	5.3	13	207	55	44	20	30	39	3.0
BK-16-10	8.0	16	254	62	56	26	37	48	5.5
BK-18/20-10	10.0	20	289	68	60	30	46	63	9.0
BK-22-10	12.0	22	320	80	70	32	50	62	11.3
BK-26-10	17.0	26	342	100	80	35	54	68	16.4
BK-32-8	20.0	32	400	120	90	40	62	86	23.3

#### Grade 10 & 8 Eye Grip Latch Hook

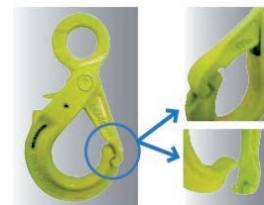
#### OBK

WLL: 1.2t ~ 12.0t

Working load limit  
safety factor 1:5



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)						Weight (kg)
			L	B	E	A	G	H	
OBK-6-10	1.2	6	103	26	22	11.5	15	17	0.4
OBK-7/8-10	2.0	8	139	37	28	13.5	20	22	0.8
OBK-10-10	3.2	10	170	47	34	15.5	22	29	1.3
OBK-13-10	5.3	13	206	53	44	20.5	28	37	2.6
OBK-16-10	8.0	16	251	68	56	25	29	45	4.4
OBK-18/20-10	10.0	20	294	74	60	28	44	56	7.5
OBK-22-8	12.0	22	335	87	70	30	40	57	10.2

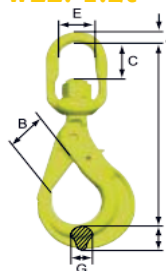


#### Grade 10 Swivel Self Locking Hook

#### BKL

WLL: 1.2t ~ 10.0t

Working load limit  
safety factor 1:5



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)						Weight (kg)	
			L	B	C	E	A	G		H
BKL-6-10	1.2	6	149	29	22.5	33	11	15	21	0.7
BKL-7/8-10	2.0	8	183	37	27	38	12	17	25	1.2
BKL-10-10	3.2	10	218	45	37	44	15	21	30	2.0
BKL-13-10	5.3	13	281	55	47	47	19	30	39	4.0
BKL-16-10	8.0	16	341	62	65	62	23	37	48	7.2
BKL-18/20-10	10.0	20	368	68	69	72	31	46	63	11.2

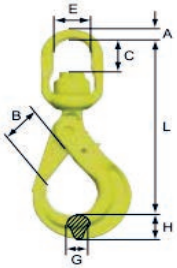
## ADVANCED MODEL Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

### Hook

#### Grade 10 Bearing Swivel Self Locking Hook

### BKLK

WLL: 1.2t ~ 17.0t



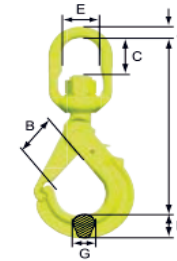
Product Code	WLL (t)	Chain D (mm)	Dimension (mm)								Weight (kg)
			L	B	C	E	A	G	H		
BKLK-6-10	1.2	6	149	29	23	33	11	15	21	0.7	
BKLK-7/8-10	2.0	8	183	37	27	38	12	17	25	1.2	
BKLK-10-10	3.2	10	218	45	35	44	15	21	30	2.0	
BKLK-13-10	5.3	13	280	55	45	48	19	30	39	4.0	
BKLK-16-10	8.0	16	339	62	61	61	23	37	48	7.2	
BKLK-18/20-10	10.0	20	367	68	60	72	31	46	63	11.3	
BKLK-22-10	12.0	22	436	79	80	80	35	50	62	16.8	
BKLK-26-10	17.0	26	486	100	110	102	45	54	68	26.4	

Working load limit  
safety factor 1:5

#### Grade 10 Swivel Grip Latch Hook

### LBK

WLL: 2.0t ~ 8.0t



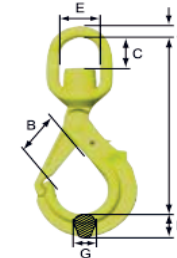
Product Code	WLL (t)	Chain D (mm)	Dimension (mm)								Weight (kg)
			L	B	C	E	A	G	H		
LBK-8-10	2.0	8	178	37	27	38	12	20	22	1.1	
LBK-10-10	3.2	10	214	47	36	44	15	22	29	1.8	
LBK-13-10	5.2	13	265	54	47	48	19	29	35	3.8	
LBK-16-10	8.0	16	324	68	66	61	25	29	45	6.1	

Working load limit  
safety factor 1:5

#### Grade 10 Bearing Swivel Grip Latch Hook

### LKBK

WLL: 2.0t ~ 8.0t



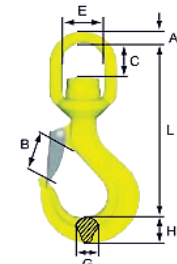
Product Code	WLL (t)	Chain D (mm)	Dimension (mm)								Weight (kg)
			L	B	C	E	A	G	H		
LKBK-8-10	2.0	8	179	37	27	38	12	20	22	1.2	
LKBK-10-10	3.2	10	214	47	35	44	15	22	29	1.8	
LKBK-13-10	5.2	13	264	54	46	48	19	29	35	3.8	
LKBK-16-10	8.0	16	319	68	61	61	25	29	45	6.0	

Working load limit  
safety factor 1:5

#### Grade 10 & 8 Bearing Swivel Sling Hook

### LKNK

WLL: 2.0t ~ 8.0t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)								Weight (kg)
			L	B	C	E	A	G	H		
LKNK-7/8-10	2.0	8	154	28	28	38	12	18	23	0.9	
LKNK-10-10	3.2	10	191	35	35	44	15	23	30	1.6	
LKNK-13-8	4.2	13	234	40	43	48	19	28	35	3.1	
LKNK-16-10	8.0	16	293	53	62	61	25	34	43	5.5	

Working load limit  
safety factor 1:5

## ADVANCED MODEL Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

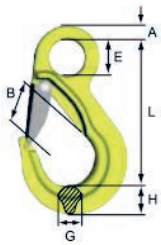
### Hook

#### Grade 10 & 8 Eye Sling Hook

#### EKN

WLL: 1.2t ~ 25.0t

Working load limit  
safety factor 1:5



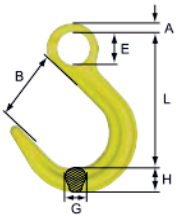
Product Code	WLL (t)	Chain D (mm)	Dimension (mm)						Weight (kg)
			L	B	E	A	G	H	
EKN-6-10	1.2	6	93	22	23	10	17	20	0.4
EKN-7/8-10	2.0	8	109	26	28	13	17	23	0.6
EKN-10-10	3.2	10	134	36	34	15	23	30	1.0
EKN-13-10	5.3	13	166	42	44	19	28	38	2.1
EKN-16-10	8.0	16	203	52	56	25.5	36	47	4.0
EKN-18/20-10	10.0	20	229	61	61	26	42	59	6.4
EKN-22-10	16.0	22	267	74	64	32	47	67	8.9
EKN-26-10	22.0	26	301	82	66	32	55	75	13.1
EKN-32-8	25.0	32	333	93	76	38	61	80	19.4

#### Grade 10 & 8 Eye Foundry Hook

#### OKE

WLL: 2.0t ~ 25.0t

Working load limit  
safety factor 1:5



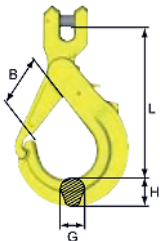
Product Code	WLL (t)	Chain D (mm)	Dimension (mm)						Weight (kg)
			L	B	E	A	G	H	
OKE-8-10	2.0	8	124	63	28	11	21	26	0.8
OKE-10-10	3.2	10	151	76	34	14	26	29	1.4
OKE-13-10	5.3	13	184	90	44	18	33	39	2.8
OKE-16-10	8.0	16	218	102	56	22	40	46	4.9
OKE-18/20-10	10.0	20	247	114	60	29	46	60	7.1
OKE-26-8	17.0	26	300	113	66	38	64	73	16.4
OKE-32-8	25.0	32	384	145	80	48	77	93	35.0

#### Grade 10 Clevis Griplatch Hook

#### GBK/BKG

WLL: 1.2t ~ 8.0t

Working load limit  
safety factor 1:5



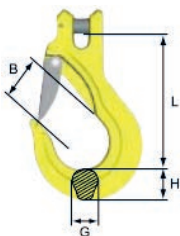
Product Code	WLL (t)	Chain D (mm)	Dimension (mm)				Weight (kg)
			L	B	G	H	
GBK-6-10	1.1	6	87	26	15	17	0.4
GBK-8-10	2.0	8	119	37	20	22	0.8
GBK-10-10	3.2	10	149	47	22	29	1.3
GBK-13-10	5.2	13	172	53	29	38	2.7
BKG-16-10	8.0	16	219	62	37	48	5.5

#### Grade 10 Clevis Sling Hook

#### EGKNA

WLL: 1.1t ~ 12.8t

Working load limit  
safety factor 1:5



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)				Weight (kg)
			L	B	G	H	
EGKNA-6-10	1.1	6	86	24.5	17	20	0.4
EGKNA-8-10	2.0	8	95	28	17	23	0.5
EGKNA-10-10	3.2	10	121	35	23	30	1.0
EGKNA-13-10	5.2	13	145	42	28	38	2.0
EGKNA-16-10	8.0	16	170	52	36	46	3.8
EGKNA-20-10	12.8	20	209	61	42	59	7.6

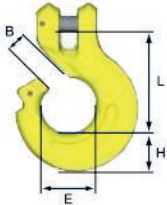
## ADVANCED MODEL Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

### Hook

#### Grade 10 Single Lock

#### CL

WLL: 1.1t ~ 8.0t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)				Weight (kg)
			L	B	E	H	
CL-6-10	1.1	6	43	11	24	18	0.2
CL-8-10	2.0	8	59	12	32	23	0.5
CL-10-10	3.2	10	73	15	40	29	0.9
CL-13-10	5.2	13	95	18	52	37	2.0
CL-16-10	8.0	16	118	22	64	47	3.8

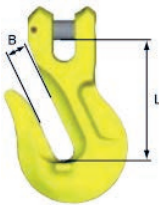
Working load limit  
safety factor 1:5



#### Grade 10 Clevis Grab Hook

#### GGA

WLL: 2.0t ~ 12.8t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)		Weight (kg)
			L	B	
GGA-8-10	2.0	8	56	10.5	0.4
GGA-10-10	3.2	10	76	12	0.9
GGA-13-10	5.2	13	97	16	1.7
GGA-16-10	8.0	16	113	20	3.1
GGA-20-10	12.8	20	147	26	7.0

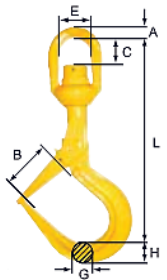
Working load limit  
safety factor 1:5

※ When using GGA for choke lifting, WLL should be reduced to 80%.

#### Big Mouth Swivel Hook

#### MBS

WLL: 3.0t



Product Code	WLL (t)	Dimension (mm)							Weight (kg)
		L	B	E	C	A	G	H	
BMS-3	3.0	302	75	46	39	20	30	32	4.2

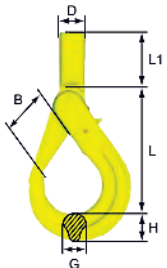
Working load limit  
safety factor 1:5



#### Grade 10 Straight Hook

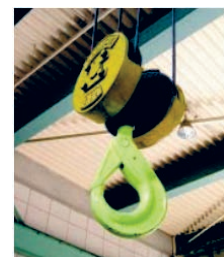
#### BKT

WLL: 1.2t ~ 8.0t



Product Code	WLL (t)	Dimension (mm)						Weight (kg)
		L	B	L1	D	G	H	
BKT-6-10	1.2	89	29	39	20	15	21	0.5
BKT-7/8-10	2.0	111	37	47	24	17	25	0.9
BKT-10-10	3.2	133	45	51	29	21	30	1.6
BKT-13-10	5.3	170	55	65	34	30	39	3.9
BKT-16-10	8.0	202	62	76	37	37	48	7.1

Working load limit  
safety factor 1:5



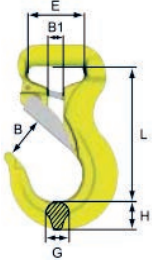
## ADVANCED MODEL Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

### Hook

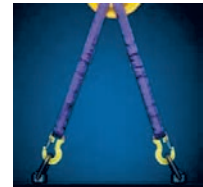
Grade 10 Sling Hook for Soft Sling

**RH**

WLL: 0.8t ~ 2.4t



Product Code	WLL (t)	Dimension (mm)						Weight (kg)
		L	B	B1	E	G	H	
RH-1-10	0.8	84	24	8	35	17	19	0.4
RH-2-10	1.6	96	28	11	40	17	22	0.7
RH-3-10	2.4	117	33	12	47	24	30	1.4



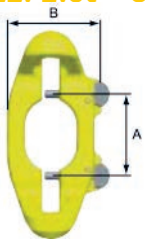
Working load limit safety factor 1:5

### Others

Grade 10 Mid Grb Shortner

**MIG**

WLL: 2.0t ~ 5.2t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)		Weight (kg)
			A	B	
MIG-8	2.0	8	51	60	0.7
MIG-10	3.2	10	64	77	1.1
MIG-13	5.2	13	84	80	2.6

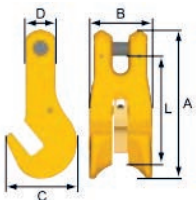


Working load limit safety factor 1:5

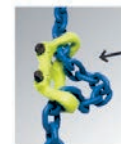
Grade 8 Shortening Clutch

**GKL**

WLL: 0.9t ~ 6.4t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)					Weight (kg)
			A	B	C	D	L	
GKL-6-8	0.9	6	75	34	38	15	53	0.3
GKL-7-8	1.2	7	93	42	42	20	66	0.5
GKL-8-8	1.6	8	93	42	42	20	65	0.5
GKL-10-8	2.5	10	120	55	58	25	84	1.0
GKL-13-8	4.2	13	151	66	74	32	103	2.4
GKL-16-8	6.4	16	179	79	90	40	122	3.4

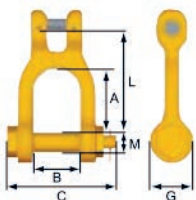


Working load limit safety factor 1:5

Grade 8 Clevis Shackle

**GSA**

WLL: 1.6t ~ 6.4t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)						Weight (kg)
			A	B	C	G	L	M	
GSA-7/8-8	1.6	8	36	32	79	34	60	16	0.5
GSA-10-8	2.5	10	48	34	93	40	80	20	0.9
GSA-13-8	4.2	13	65	50	118	44	98	22	1.7
GSA-16-8	6.4	16	70	60	141	54	114	27	3.0

Working load limit safety factor 1:5

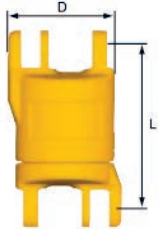
## ADVANCED MODEL Size:6mm ~ 32mm WLL:1.1t ~ 100.0t Safety factor: 5:1

### Others

Grade 8 Insulating Swivel up to 1000V

## SKLI

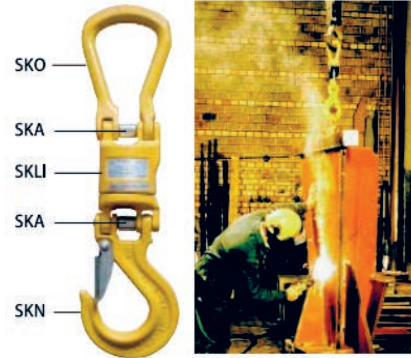
WLL: 1.6t ~ 10.0t



Product Code	WLL (t)	Chain D (mm)	Dimension (mm)		Weight (kg)
			L	D	
SKLI-7/8-8	1.6	8	76	48	0.7
SKLI-10-8	2.5	10	97	59	1.3
SKLI-13-8	4.2	13	120	75	2.8
SKLI-16-8	6.4	16	137	90	4.6
SKLI-18/20-8	10.0	20	159	104	7.3

- Electrically insulated, lubricated, sealed roller bearing swivel with SK connection-fully rational even at maximum load.
- Tested to resist 1000V, therefore suitable for protection of overhead cranes during welding operations on suspended loads.

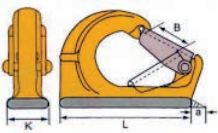
Working load limit safety factor 1:5



Weld-on hook for Hydraulic Excavator lifting operation

## MT BUCKET HOOK

WLL: 1.0t ~ 8.0t

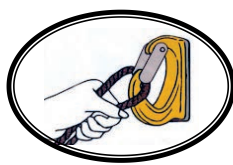


Product Code	Bucket size (m <sup>2</sup> )	WLL(t)	Dimension (mm)				Weight (kg)
			a	B	K	L	
MT10	~ 0.25	1.0	5	21	28	98	0.6
MT30	0.3~0.55	3.0	8	30	36	132	1.2
MT50	0.6~0.9	5.0	11	36	50	166	3.1
MT80	1.0~	8.0	12	34	54	170	4.0

Maximum loading limit is calculated as below...

Bucket size (m<sup>2</sup>) x 1,800 (kg/m<sup>2</sup>)

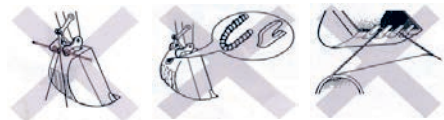
Working load limit safety factor 1:5



one-touch connection of wires and lifting components!



These lifting methods are dangerous!



attaching wires or other slings to the bucket teeth

using a piece of iron cut to hook shape or using a bent rod as hook

lifting by using a rod inserted into the bucket ears

Hook for hydraulic excavator lifting operation

## KURUKURU - Anti-twist Set -

WLL: 1.6t ~ 6.4t



Product Code	WLL (t)	Dimension (mm)		Weight (kg)
		L	B	
KURUKURU-S	1.6	310	37	1.6
KURUKURU-M	2.5	379	45	2.8
KURUKURU-L	4.2	469	55	5.4
KURUKURU-LL	6.4	566	62	9.5



- A bearing inside reduces the twisting of chains, wires etc, and allows exact positioning of suspended load.
- Hook can be opened from outside, even thick wires and belt slings can be attached easily.
- Highly secure locking hook that does not open when load prevents slings falling off during lifting.

Working load limit safety factor 1:5

## INSTRUCTIONS FOR USE

### 1. Slinging work

Slinging work must be done properly by a certified person.

**CAUTION!** Do NOT use chain sling the wrong way as below, which can cause a serious accident.



### 2. Operating temperature limit

Atmosphere temperature	Reduction of WLL		Reduction after cooling	
	Chain diameter 6mm ~ 20mm	Chain diameter 22mm ~ 32mm	Chain diameter 6mm ~ 20mm	Chain diameter 20mm ~ 32mm
-40°C ~ 200°C	0%	0%	0%	0%
200°C ~ 300°C	Not allowed	10%	Not allowed	0%
300°C ~ 400°C	Not allowed	25%	Not allowed	0%
400°C ~	Not allowed to use chain beyond 400°C			

### 3. Acid atmosphere

Avoid using chain slings and other metal products in acidic conditions .

### 4. Plating

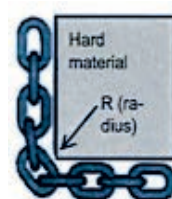
Plating is not allowed beyond the manufacture's controll. If you want to, please contact us.

### 5. Basket hitch, Choke hitch

Sharp edges should be protected with padding to protect the sling from damage.

Chain sling WLL is to be reduced in the condition below.

Edge load	R > 2 x chainD	R > chainD	R < chainD
Reduction Factor	0.8	0.56	0.4





## INSTRUCTIONS FOR INSPECTION

### Inspection of chain, Masterlink, coupling link, hook

All the lifting equipments are should be inspected periodically.

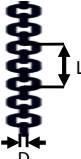
Service life of lifting equipment varies depending on use frequency, usage conditions, weight and shape of the load, etc. Taking this under consideration, users need to carry out daily, and regular inspection to repair or replace the defects.

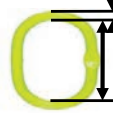
According to 「The Safety Ordinance for Cranes」 ,

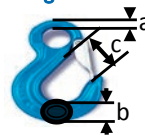
- (1) The employer shall, when carrying out the sling work using a wire rope, lifting chain, fiber rope, fiber belt or metallic implement such as a hook, shackle and ring (hereinafter referred to as "wire ropes, etc.", in this Article) which are used as the slinging equipment for a crane, mobile crane or derrick, check up abnormalities on the said wire ropes, etc. before commencing the work for the day.
- (2) The employer shall, when any abnormality is found based on the checkup set forth in the preceding paragraph, immediately repair.

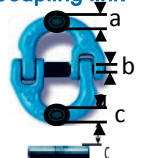
When that defective products are detected by inspection, make sure to remove them from the service and discard after cutting them off or something, in order not to be used again. It is important to leave nothing unchecked. For example, Vinyl tape helps you to tell ones you have already checked from ones you have not. If you use different-colored tapes based on the date of inspection, you can even tell old items from new ones on the spot. It is also important to keep track of inspection. for more information, Please contact us.

### Inspection criteria (EX)

Part	Damage	Method	Criteria
<b>Chain</b> 	wear	measuring (caliper)	D: 10% or more
	elongation	measuring (caliper)	L: 5% or more
	distortion	visual check	bend, twist
	corrosion	visual	sever corrosion
	crack	visual	any crack
	※Especially chain for choke hitch or basket hitch, watch its contact points with objects carefully.		

Part	Damage	Method	Criteria
<b>Master link</b> 	wear	measuring (caliper)	a: 5% or more
	elongation	measuring (caliper)	b: 5% or more
	distortion	visual check	bend, twist, bend, abrasion on pin
	corrosion	visual check	sever corrosion
	crack	visual check	any crack

Part	Damage	Method	Criteria
<b>Sling hook</b> 	wear	measuring (caliper)	a: 5% or more b: 5% or more
	distortion	measuring (caliper)	c: 5% or more difference bend, twist on the body or pin
	corrosion	visual check	severe corrosion
	crack	visual check	any crack

Part	Damage	Method	Criteria
<b>Coupling link</b> 	wear	measuring (caliper)	a: 5% or more b: 5% or more c: 5% or more
	distortion	measuring (caliper)	elongation, twist
	stiffness	operation check	collar, links
	& corrosion	& visual check	sever corrosion
	crack	visual check	any crack

## Synthetic sling Eye to Eye & Endless **WEBBING & ROUND SLING**

Accordance with EN standard

### Feature

- **Quality Assurance**

The manufacturer's group of textile webbing and round sling is located in Netherland with a history of 100 years in this industry. And they are one of the few manufacturers to produce slings right through from the basic yarn to the finished products. Moreover, with testing facilities and quality procedures. we assure all processes and products are controlled to comply with applicable standards and specifications.



- **European Quality**

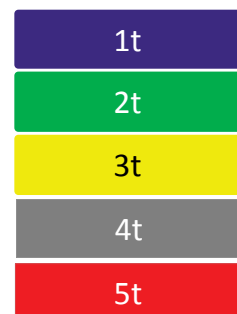
For all European manufacturers are the technical demands and the references how to produce textile lifting equipment like round slings and belt slings summarized in the EN 1492 -1 (belt sling) and EN 1492-2 (round sling). Additionally the textile lifting equipment is encoded with the CE mark according to the Machinery Directory 2006/42/EG. To guarantee the quality of this belt sling having safety factor 6:1, the standard belt slings and round slings are certified by the AIB Vincotte(VGS), Berufsgenossenschaft(GS) or Lloyds. Each sling comes with product certificate.



- **User-friendly**

This textile webbing sling and round sling is softer and lighter than wire sling and chain sling. It is easy to handle and it gives no damage to a load.

Plus, this sling is color-coded according to its capacity so that user can easily know what capacity it has. It prevents misuse. Of course, each sling has a specification tag which is stitched on **the bottom part of the eye**. **And it is covered with a vinyl stuff**. **It is very small things**, but it helps to keep tag clean and legible.

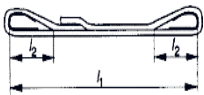


## Synthetic Webbing Sling Eye to Eye

### WEBBING SLING

WLL: 1.0t ~ 12.0t Length: 1m ~ 12m

Working load limit  
safety factor 1:6



Product Code	WLL (t)	Dimension (mm)		Weight (kg)		
		Width	l2 (eye)	If l1=1m	If l1=2m	If l1=3m
WS010	1.0	25	240	0.10	0.20	0.30
WS020	2.0	50	260	0.20	0.35	0.50
WS030	3.0	75	310	0.70	1.20	1.50
WS040	4.0	100	350	-	1.40	2.00
WS050	5.0	125	400	-	1.80	2.60
WS060	6.0	150	480	-	-	3.20
WS080	8.0	200	600	-	-	4.20
WS100	10.0	250	770	-	-	6.30
WS120	12.0	300	960	-	-	-

## Synthetic Round Sling

### ROUND SLING

WLL: 1.0t ~ 10.0t

Working load limit  
safety factor 1:7



Product Code	WLL (t)	Dimension (mm)		Weight (kg)	
		Width	Thick	If l1=0.5m	extra meter
RS010	1.0	47	12	0.12	0.10
RS020	2.0	48	18	0.19	0.17
RS030	3.0	54	20	0.26	0.25
RS040	4.0	70	22	0.36	0.33
RS050	5.0	72	28	0.43	0.41
RS060	6.0	74	30	0.53	0.50
RS080	8.0	90	32	0.70	0.67
RS100	10.0	91	35	0.84	0.81

## Synthetic Ratchet Strap with Double J Hook

### LASHINGS/ RACHET STRAP

WLL: 0.8t ~ 10.0t Width: 25mm ~ 75mm Length: 4m ~ 12m



For details, please contact us.

# Steel Wire Rope Eye to Eye WIRE ROPE SLING

Grade 1960N/mm<sup>2</sup> (EIPS or 200kgf/mm<sup>2</sup>)

## Feature

- **High tensile strength**...up to 1960 N/mm<sup>2</sup> (EIPS or 200 kgf/mm<sup>2</sup>)
- **Quality assurance**...meets JIS G 3525 or EN12385-4, certificate available
- **various options**...galvanization, thimble, ferrule, and other attachments

**[How to order]** Please give us the following information.

- Diameter (mm) □ Length (mm) □ Capacity (t) □ Galvanized or non-galvanized
- Soft eye or Thimble eye □ Ferrule type (Form A or C) □ Other request (construction, Lay etc)



Soft eye : Eye length is changeable on request.

Ferrule : There are 2 options;



FORM A : Alminum Ferrule Basic type



FORM C : Alminum Ferrule tapered type

Galvanization : works as rust prevention. non-galvanized one will be fine for indoor use.

Core : There is 2 options;



FC : Fiber core  
Soft but lower capacity



IWRC : Independent wire rope core  
Hard but higher capacity

Thimble : protect the sling from damage. Thimble eye will be smaller than soft eye. Available on request.



## Steel Wire Rope Sling Eye to Eye with Aluminum Ferrules

### WIRE ROPE SLING

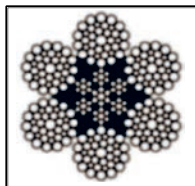
WLL: 0.6t ~ 31.05t

Working load limit  
safety factor 1:6

Construction: 6 x 36 (Warrington Seale) Grade: 1960N/mm2 (EIPS or 200 kgf/mm2)



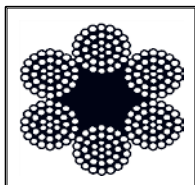
6 x WS(36) +FC



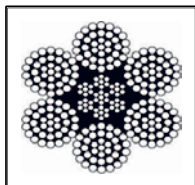
6 x WS(36) +IWRC

Diameter (mm)	WLL (t)		Eye		Ferrule		Weight (kg/m)
	FC core	IWRC core	Soft eye	Thimble eye	Form A	Form C	
8.0	0.60	0.70	250	26.9	✓	✓	0.28
9.0	0.80	1.10	250	28.7	✓	✓	0.35
10.0	1.00	1.15	250	28.7	✓	✓	0.39
11.0/11.2	1.25	1.40	250	31.8	✓	✓	0.43
12.0	1.40	1.65	300	38.1	✓	✓	0.54
12.0/12.5	1.50	1.80	300	38.1	✓	✓	0.62
14.0	1.90	2.25	300	44.5	✓	✓	0.84
16.0	2.50	2.90	300	44.5	✓	✓	1.10
18.0	3.15	3.70	400	44.5	✓	✓	1.39
19.0/19.1	3.55	4.15	400	50.8	✓	✓	1.57
20.0	3.90	4.60	400	50.8	✓	✓	1.72
22.0/22.4	4.90	5.75	400	57.2	✓	✓	2.16
24.0	5.65	6.60	450	63.5	✓	✓	2.48
26.0	6.60	7.75	450	63.5	✓	✓	2.91
28.0	7.70	9.00	500	73.2	✓	✓	3.37
32.0	10.30	11.40	500	88.9	✓	✓	4.40
35.0/35.5	12.70	14.55	500	88.9	✓	-	5.42
37.0/37.5	14.10	16.15	600	88.9	✓	✓	6.05
38.0	14.50	16.50	600	88.9	✓	✓	6.21
40.0	16.10	18.30	600	101.6	✓	-	6.88
44.0	19.40	22.30	600	114.3	✓	-	8.32
48.0	23.25	26.55	800	152.4	✓	-	9.91
52.0	27.30	31.05	800	177.8	✓	-	11.65

Construction: 6 x 37 Grade: 1960N/mm2 (EIPS or 200 kgf/mm2)



6 x 37 +FC



6 x 37 +IWRC

Diameter (mm)	WLL (t)		Eye Dimension(mm)		Ferrule		Weight (kg/m)
	FC core	IWRC core	Soft eye	Thimble eye	Form A	Form C	
8.0	0.60	0.65	250	26.9	✓	✓	0.26
9.0	0.75	0.85	250	28.7	✓	✓	0.32
10.0	0.90	1.05	250	28.7	✓	✓	0.40
11.0/11.2	1.15	1.30	250	31.8	✓	✓	0.50
12.0	1.35	1.50	300	38.1	✓	✓	0.57
12.0/12.5	1.45	1.60	300	38.1	✓	✓	0.62
14.0	1.80	2.00	300	44.5	✓	✓	0.78
16.0	2.35	2.65	300	44.5	✓	✓	1.00
18.0	3.00	3.40	400	44.5	✓	✓	1.29
19.0/19.1	3.40	3.80	400	50.8	✓	✓	1.45
20.0	3.70	4.20	400	50.8	✓	✓	1.60
22.0/22.4	4.65	5.25	400	57.2	✓	✓	2.00
24.0	5.35	5.80	450	63.5	✓	✓	2.30
26.0	6.00	7.10	450	63.5	✓	✓	2.68
28.0	7.30	8.25	500	73.2	✓	✓	3.13
31.5/32	9.25	10.45	500	88.9	✓	✓	3.87
35.0/35.5	11.75	13.30	500	88.9	✓	-	5.02
37.0/37.5	13.05	14.80	600	88.9	✓	✓	5.60
38.0	-	-	600	88.9	-	-	-
40.0	14.85	16.80	600	101.6	✓	-	6.40
44.0	-	-	600	114.3	-	-	-
47.5/48	16.85	23.50	800	152.4	✓	-	8.98
52.0	-	-	800	177.8	-	-	-

#### NOTICE

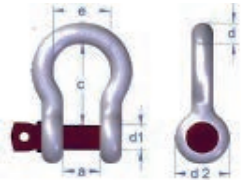
Wire rope sling in different construction or with various attachment is also available.  
As for the price and leadtime, Please contact us.

## Standard Shackle Omega Type with Screw Pin

### **BOW SHACKLE with screw pin**

WLL: 0.33t ~ 55.0t

Working load limit  
safety factor 1:6

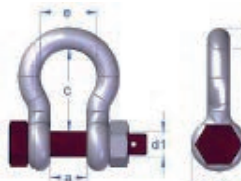


Product Code	WLL (t)	Dimension (mm)						Weight (kg)
		d1	d	a	c	e	d2	
A085405	0.33	6	5	10	22	16	13	0.02
A085406	0.5	8	6	12	29	20	16	0.06
A085408	0.75	10	8	13	32	21	20	0.11
A085409	1.0	11	9	16	36	26	22	0.15
A085411	1.5	13	11	18	43	29	26	0.21
A085413	2.0	16	13	21	47	33	33	0.37
A085416	3.25	19	16	27	60	42	40	0.65
A085419	4.75	22	19	31	71	51	47	1.1
A085422	6.5	25	22	37	84	58	50	1.5
A085425	8.5	28	25	43	95	68	58	2.2
A085428	9.5	32	28	46	108	74	64	3.1
A085432	12.0	35	32	52	119	83	72	4.2
A085435	13.5	38	35	57	132	89	74	6.0
A085438	17.0	42	38	60	146	98	84	8.0
A085445	25.0	50	45	74	178	127	105	13.5
A085452	35.0	57	50	83	197	138	127	19.0
-	42.5	65	57	95	222	160	140	-
A085464	55.0	70	65	105	255	185	152	38.0
-	85.0	83	75	127	330	190	165	-
-	120.0	95	89	146	380	235	203	-

## Standard Shackle Omega Type with Safety Bolt

### **BOW SHACKLE with safety bolt**

WLL: 0.5t ~ 120.0t



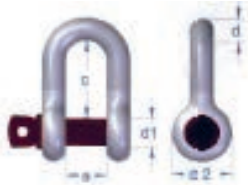
Product Code	WLL (t)	Dimension (mm)						Weight (kg)
		d1	d	a	c	e	d2	
-	0.33	6	5	10	22	16	13	-
A085506	0.5	8	6	12	29	20	16	0.07
A085508	0.75	10	8	13	32	21	20	0.13
A085509	1.0	11	9	16	36	26	22	0.17
A085511	1.5	13	11	18	43	29	26	0.25
A085513	2.0	16	13	21	47	33	33	0.42
A085516	3.25	19	16	27	60	42	40	0.70
A085519	4.75	22	19	31	71	51	47	1.2
A085522	6.5	25	22	37	84	58	50	1.7
A085525	8.5	28	25	43	95	68	58	2.5
A085528	9.5	32	28	46	108	74	64	3.4
A085532	12.0	35	32	52	119	83	72	4.8
A085535	13.5	38	35	57	132	89	74	7.0
A085538	17.0	42	38	60	146	98	84	9.0
A085545	25.0	50	45	74	178	127	105	15.0
A085552	35.0	57	50	83	197	138	127	21.0
A085556	42.5	65	57	95	222	160	140	29.0
A085564	55.0	70	65	105	255	185	152	41.0
A085576	85.0	83	75	127	330	190	165	62.0
A085589	120.0	95	89	146	380	235	203	110.0

## Standard Shackle Straight Type with Screw Pin

### DEE SHACKLE with screw pin

WLL: 0.33t ~ 55.0t

Working load limit  
safety factor 1:6



Product Code	WLL (t)	Dimension (mm)					Weight (kg)
		d1	d	a	c	d2	
A083405	0.33	6	5	10	22	13	0.02
A083406	0.5	8	7	12	25	12	0.06
A083408	0.75	10	9	14	27	16	0.11
A083409	1.0	11	10	17	31	20	0.15
A083411	1.5	12	11	19	37	22	0.21
A083413	2.0	16	1/2"-13	21	41	33	0.25
A083416	3.25	19	5/4"-16	27	51	40	0.55
A083419	4.75	22	3/4"-19	31	60	47	1.0
A083422	6.5	25	7/8"-22	37	71	50	1.3
A083425	8.5	28	1"-25	43	81	58	1.9
A083428	9.5	32	1.6/8"-28	46	90	64	2.8
A083432	12.0	35	1.1/4"-32	52	100	72	3.6
A083435	13.5	38	1.3/8"-35	57	111	74	4.6
A083438	17.0	42	1.1/2"-38	60	122	84	6.5
A083445	25.0	50	1.3/4"-45	74	149	105	11.5
A083452	35.0	57	2"-50	83	171	127	16.5
A083464	55.0	70	2.1/2"-65	105	203	152	32.5

## Lever Hoist

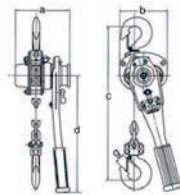
### LEVER HOIST

WLL: 0.5t ~ 6.0t

Working load limit  
safety factor 1:5



Product Code	WLL (t)	Chain Diameter (mm)	Standard Lift (m)	Pull on lever to Lift full load (kgf)	Dimension (mm)					Weight (kg)
					a	b	c	d	e	
VR2-08	0.8	6.3	1.5	15.0	110	82	260	267	27	6.9
VR2-15	1.6	7.1	1.5	18.0	148	128	295	256	27	9.7
VR2-30	3.2	9.0	1.5	38.0	148	128	310	256	30	16.3
VR2-60	6.3	9.0	1.5	39.0	191	244	550	368	47	26.7



And we also carry much more lifting equipments. Please feel free to contact us.



Chain Block

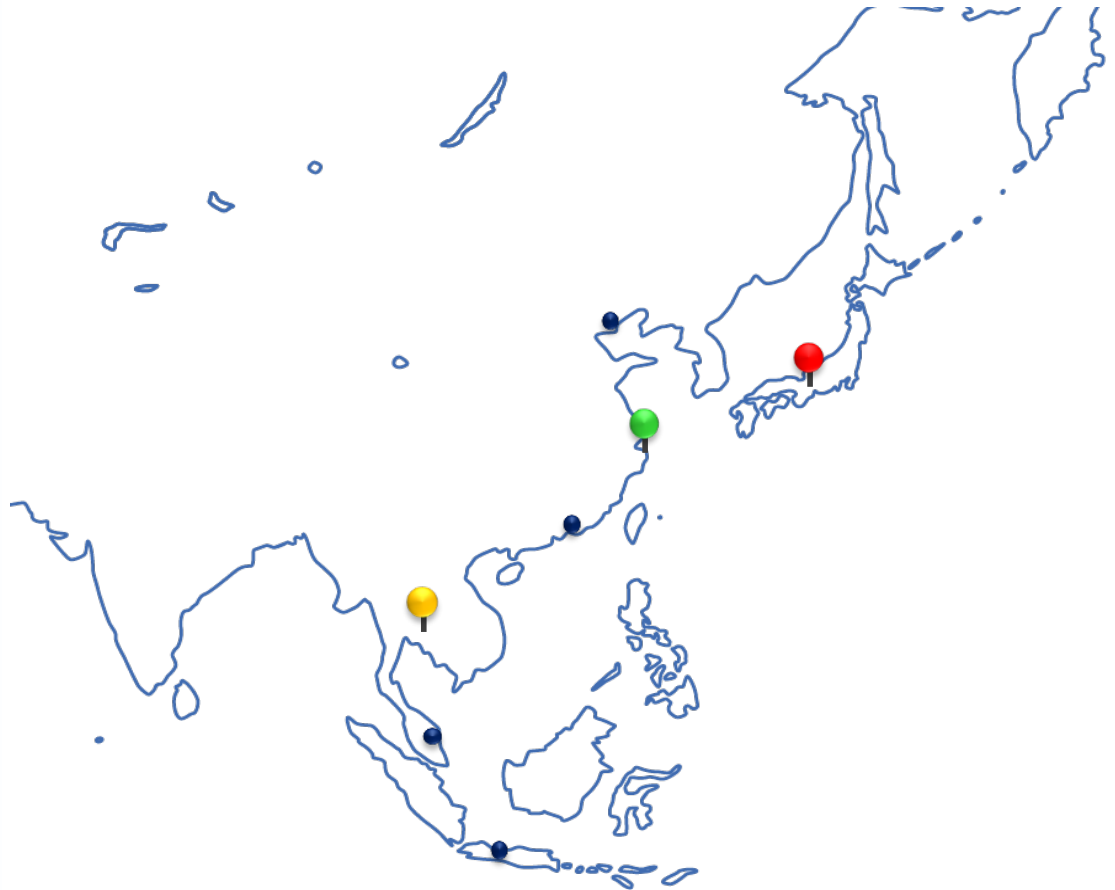


Simple Trolley




Geared Trolley

## Martec Group Office Location Map



 **MARTEC K.K. (Japan)**

 **SIAM MARTEC SALES CO., LTD. (Thailand)**  
**SIAM MARTEC CO., LTD. (Thailand)**

 **SUZHOU MARTEC TRADING LTD. (China)**

and now we keep expanding sales area to other asian countries...

### **Siam Martec Sales Co., Ltd**

129/1 Moo 17 Soi Winner, Tearak Rd, T. Bangsaothng,  
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