

1. Shackles

M Class Straight Shackles - SA

with Flat Head Pin

(Ref. JIS B 2801-1996)

Grilletes Rectos Cabeza Cilindrica con Clavija

SA型シャックル 直型鉚克



Drop forged carbon steel shackle with flat head pin and split pin hole on the other end. Used for heavy work. Please specify Ungalvanized (Black) or Galvanized shackle is required.

CODE		Type	Body Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 37 01	23 37 21	34	50	116	40	7.0	
02	22	36	54	123	42	8.0	
03	23	38	57	129	46	9.0	
04	24	40	60	136	48	10.0	
05	25	42	63	142	51	11.0	
23 37 06	23 37 26	44	66	149	54	12.5	
07	27	46	68	156	56	13.0	
08	28	48	72	163	58	14.0	
09	29	50	75	170	60	16.0	
10	30	55	83	187	65	18.0	
23 37 11	23 37 31	60	90	205	70	20.0	
12	32	65	98	221	77	25.0	
13	33	70	105	238	83	31.5	
14	34	75	112	255	90	35.0	
15	35	80	120	272	96	40.0	
23 37 16	23 37 36	85	128	289	102	45.0	
17	37	90	135	306	108	50.0	

M Class Straight Shackles - SB

with Hexagon Head Bolt

(Ref. JIS B 2801-1996)

Grilletes Rectos Pasador Tornillo con Tuerca

SB型シャックル SB型六角螺栓的直型鉚克



Drop forged carbon steel shackle with a hexagon, metric coarse threaded bolt, which has a split pin hole at the end and a securing nut. Please specify Ungalvanized (Black) or galvanized shackle is required.

CODE		Body Diam. mm	Opening mm	Thread Bolt and Nut	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 37 41	23 37 66	20	31	M24	68	24	2.5
42	67	22	34	M24	75	26	3.15
43	68	24	39	M30	81	30	3.6
44	69	26	41	M30	88	32	4.0
45	70	28	43	M33	95	34	4.8
23 37 46	23 37 71	30	45	M36	102	36	5.0
47	72	32	48	M36	109	38	6.3
48	73	34	50	M39	116	40	7.0
49	74	36	54	M42	123	42	8.0
50	75	38	57	M45	129	46	9.0
23 37 51	23 37 76	40	60	M48	136	48	10.0
52	77	42	63	M48	142	51	11.0
53	78	44	66	M48	149	54	12.5
54	79	46	68	M48	156	56	13.0
55	80	48	72	M56	163	58	14.0
23 37 56	23 37 81	50	75	M56	170	60	16.0
57	82	55	83	M64	187	65	18.0
58	83	60	90	M64	205	70	20.0
59	84	65	98	M 72×6	221	77	25.0
60	85	70	105	M 80×6	238	83	31.5
23 37 61	23 37 86	75	112	M 80×6	255	90	35.0
62	87	80	120	M 90×6	272	96	40.0
63	88	85	128	M 90×6	289	102	45.0
64	89	90	135	M100×6	306	108	50.0

M Class Straight Shackles - SC

with Eye Bolt

(Ref. JIS B 2801-1996)

Grilletes Rectos Cabeza Punzón "Jis" Roscado

SC型シャックル SC型帶孔螺栓的直型鉚克



A drop forged, carbon steel shackle with an eye bolt which has a metric coarse thread on one end. Please specify Ungalvanized (Black) or Galvanized shackle is required.

CODE		Body Diam. mm	Opening mm	Thread Bolt and Nut	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 38 01	23 38 16	16	26	M18	54	19	1.6
02	17	18	29	M20	61	21	2.0
03	18	20	31	M24	68	24	2.5
04	19	22	34	M24	75	26	3.15
05	20	24	39	M30	81	30	3.6
23 38 06	23 38 21	26	41	M30	88	32	4.0
07	22	28	43	M33	95	34	4.8
08	23	30	45	M36	102	36	5.0
09	24	32	48	M36	109	38	6.3
10	25	34	50	M39	116	40	7.0
23 38 11	23 38 26	36	54	M42	123	42	8.0
12	-	38	57	M45	129	46	9.0
13	-	40	60	M48	136	48	10.0

M Class Straight Shackles - SD

with Eye Bolt

(Ref. JIS B 2801-1996)

Grilletes Rectos Cabeza Punzón "Jis" Roscado

SD型シャックル SD型帶孔螺栓的直型鉚克



A drop forged, carbon steel shackle with an eye bolt which has metric coarse threads at one end. Please specify Ungalvanized (Black) or Galvanized shackles is required.

CODE		Body Diam. mm	Opening mm	Screw Pin Thread	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
-	23 38 41	16	32	M20	53	21	1.0
-	42	20	40	M24	68	24	1.6
-	43	22	44	M27	74	27	2.0
-	44	24	48	M27	81	29	2.5
-	45	26	52	M30	88	32	3.15
-	23 38 46	28	56	M33	95	34	3.5
23 38 31	47	30	60	M36	102	36	4.0
32	48	34	68	M42	115	42	5.0
33	49	38	76	M45	129	45	6.3
34	50	40	80	M48	136	48	7.0
23 38 35	23 38 51	42	84	M48	142	51	8.0
36	52	48	96	M56	163	58	10.0
37	53	52	104	M56	177	62	12.5
38	54	58	116	M64	198	68	16.0

Note: Both SC, SD shackles are similar in type, but opening and SWL differ in the same size. Sizes of the opening in SD type are double the body size.

M Class Bow Shackles - BA

with Flat Head Pin

(Ref. JIS B 2801-1996)

Grillete Lira Cabeza Cilindrica con Clavija

BA型シャックル BA型帶六角螺栓的弓型鉚克



A weldless, drop forged, carbon steel shackle with a flathead pin which has a hole for a securing pin at one end. Please specify Ungalvanized (Black) or Galvanized shackles is required.

Unit Per Pc.

CODE		Oval Body Small Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.					
23 38 61	23 38 81	34	50	156	40	7.0
62	82	36	54	169	42	8.0
63	83	38	57	175	46	9.0
64	84	40	60	188	48	10.0
65	85	42	63	194	51	11.0
23 38 66	23 38 86	44	66	203	54	12.5
67	87	46	68	212	56	13.0
68	88	48	72	219	58	14.0
69	89	50	75	227	60	16.0
70	90	55	83	247	65	18.0
23 38 71	23 38 91	60	90	275	70	20.0
72	92	65	98	299	77	25.0
73	93	70	105	318	83	31.5
74	94	75	112	342	90	35.0
75	95	80	120	366	96	40.0
23 38 76	23 38 96	85	128	389	102	45.0
77	97	90	135	419	108	50.0

M Class Bow Shackles - BB with Hexagon Head Bolt (Ref. JIS B 2801-1996)

Grillete Lira Pasador Tornillo con Tuerca
BB 型シャックル BB 型六角螺栓的弓型卸克



A weldless, drop forged, carbon steel shackle with a hexagon, metric coarse threaded bolt, nut, and a split pin hole at the other end. Please specify Ungalvanized (Black) or Galvanized shackle is required.

Unit Per Pc.

CODE		Oval Body Small Diam. mm	Opening mm	Thread Bolt and Nut	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 39 01	23 39 26	20	31	M24	92	24	2.5
02	27	22	34	M24	104	26	3.15
03	28	24	39	M30	111	30	3.6
04	29	26	41	M30	119	32	4.0
05	30	28	43	M33	127	34	4.8
23 39 06	23 39 31	30	45	M36	135	36	5.0
07	32	32	48	M36	148	38	6.3
08	33	34	50	M39	156	40	7.0
09	34	36	54	M42	169	42	8.0
10	35	38	57	M45	175	46	9.0
23 39 11	23 39 36	40	60	M48	188	48	10.0
12	37	42	63	M48	194	51	11.0
13	38	44	66	M48	203	54	12.5
14	39	46	68	M48	212	56	13.0
15	40	48	72	M56	219	58	14.0
23 39 16	23 39 41	50	75	M56	227	60	16.0
17	42	55	83	M64	247	65	18.0
18	43	60	90	M64	275	70	20.0
19	44	65	98	M 72×6	299	77	25.0
20	45	70	105	M 80×6	318	83	31.5
23 39 21	23 39 46	75	112	M 80×6	342	90	35.0
22	47	80	120	M 90×6	366	96	40.0
23	48	85	128	M 90×6	389	102	45.0
24	49	90	135	M100×6	419	108	50.0

M Class Bow Shackles - BC with Eye Bolt (Ref. JIS B 2801-1996)

Grillete Lira Cabeza Ponzón "Jis" Perno Roscado
BC 型シャックル BC 型带孔螺栓的弓型卸克



Weldless, drop forged, carbon steel shackle with an eye bolt which has a metric coarse threaded end. Please specify Ungalvanized (Black) or Galvanized shackle is required.

Unit Per Pc.

CODE		Oval Body Small Diam. mm	Opening mm	Screw Pin Thread	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 39 51	23 39 66	16	26	M18	70	19	1.6
52	67	18	29	M20	84	21	2.0
53	68	20	31	M24	92	24	2.5
54	69	22	34	M24	104	26	3.15
55	70	24	39	M30	111	30	3.6
23 39 56	23 39 71	26	41	M30	119	32	4.0
57	72	28	43	M33	127	34	4.8
58	73	30	45	M36	135	36	5.0
59	74	32	48	M36	148	38	6.3
60	75	34	50	M39	156	40	7.0
23 39 61	23 39 76	36	54	M42	169	42	8.0
62	77	38	57	M45	175	46	9.0
63	78	40	60	M48	188	48	10.0

M Class Bow Shackles - BD with Eye Bolt (Ref. JIS B 2801-1996)

Grillete Lira Cabeza Ponzón "Jis" Perno Roscado
BD 型シャックル BD 型带孔螺栓的弓型卸克



A weldless, drop forged, carbon steel shackle with an eye bolt which has metric coarse threads on the end. Please specify Ungalvanized (Black) shackle or Galvanized shackle is required.

Unit Per Pc.

CODE		Oval Body Small Diam. mm	Opening mm	Screw Pin Thread	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 39 81	23 39 86	16	32	M20	69	21	1.2
82	87	18	36	M20	89	21	1.3
83	88	20	40	M24	100	24	1.8

Note: Both BC and BD shackles are similar in type, but the opening and SWL differ in the same size. Sizes of the openings in the BD types are double the smaller diams. of the oval body.

Straight Shackles - SA with Flat Head Pin (Ref. JIS B 2801-1977)

Grilletes Rectos Cabeza Cilindrica con Clavija
SA 型シャックル 不锈钢 SA 型卸克



Drop forged carbon steel shackle with flat head pin and split pin hole on the other end. Used for heavy work. Please specify Ungalvanized (Black) shackle or Galvanized shackle is required.

Unit Per Pc.

CODE		Body Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.					
23 01 01	23 13 01	34	50	116	40	7.0
02	02	36	54	123	42	8.0
03	03	38	57	129	46	9.0
04	04	40	60	136	48	10.0
05	05	42	63	142	51	11.0
23 01 06	23 13 06	44	66	149	54	12.0
07	07	46	68	156	56	13.0
08	08	48	72	163	58	14.0
09	09	50	75	170	60	15.0
10	10	55	83	187	65	18.0
23 01 11	23 13 11	60	90	205	70	22.0
12	12	65	98	221	77	26.0
13	13	70	105	238	83	30.0
14	14	75	112	255	90	35.0
15	15	80	120	272	96	40.0
23 01 16	23 13 16	85	128	289	102	45.0
17	17	90	135	306	108	50.0

Straight Shackles - SB

with Hexagon Head Bolt

(Ref. JIS B 2801-1977)

Grillettes Rectos Pasador Tornillo con Tuerca

SB 型シャックル SB 型六角螺栓的直型卸克



Drop forged carbon steel shackle with a hexagon, metric coarse threaded bolt, which has a split pin hole at the end and a securing nut. Please specify Ungalvanized (Black) shackle or Galvanized shackle is required.

CODE		Body Diam. mm	Opening mm	Thread Bolt and Nut	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 01 21	23 13 21	20	31	M24	68	24	2.5
22	22	22	34	M24	75	26	3.0
23	23	24	39	M30	81	30	3.6
24	24	26	41	M30	88	32	4.2
25	25	28	43	M33	95	34	4.8
23 01 26	23 13 26	30	45	M36	102	36	5.4
27	27	32	48	M36	109	38	6.2
28	28	34	50	M39	116	40	7.0
29	29	36	54	M42	123	42	8.0
30	30	38	57	M45	129	46	9.0
23 01 31	23 13 31	40	60	M48	136	48	10.0
32	32	42	63	M48	142	51	11.0
33	33	44	66	M48	149	54	12.0
34	34	46	68	M48	156	56	13.0
35	35	48	72	M56	163	58	14.0
23 01 36	23 13 36	50	75	M56	170	60	15.0
37	37	55	83	M64	187	65	18.0
38	38	60	90	M64	205	70	22.0
39	39	65	98	M 72×6	221	77	26.0
40	40	70	105	M 80×6	238	83	30.0
23 01 41	23 13 41	75	112	M 80×6	255	90	35.0
42	42	80	120	M 90×6	272	96	40.0
43	43	85	128	M 90×6	289	102	45.0
44	44	90	135	M100×6	306	108	50.0

Straight Shackles - SC

with Eye Bolt

(Ref. JIS B 2801-1977)

Grillettes Recto Cabeza Punzón

SC 型シャックル SC 型带孔螺栓的直型卸克



A drop forged, carbon steel shackle with an eye bolt which has a metric coarse thread on one end. Please specify Ungalvanized (Black) or Galvanized shackle is required.

CODE		Body Diam. mm	Opening mm	Thread Bolt and Nut	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 13 51	23 01 51	6	11	M 8	20	8	0.2
52	52	8	14	M10	27	10	0.35
53	53	10	17	M12	34	12	0.6
23 01 54	23 13 54	12	20	M14	40	15	0.9
55	55	14	24	M16	47	17	1.2
23 01 56	23 13 56	16	26	M18	54	19	1.5
57	57	18	29	M20	61	21	2.0
58	58	20	31	M24	68	24	2.5
59	59	22	34	M24	75	26	3.0
60	60	24	39	M30	81	30	3.6
23 01 61	23 13 61	26	41	M30	88	32	4.2
62	62	28	43	M33	95	34	4.8
63	63	30	45	M36	102	36	5.4
64	64	32	48	M36	109	38	6.2
65	65	34	50	M39	116	40	7.0
23 01 66	23 13 66	36	54	M42	123	42	8.0
67	67	38	57	M45	129	46	9.0
68	68	40	60	M48	136	48	10.0

Straight Shackles - SD

with Eye Bolt

(Ref. JIS B 2801-1977)

Grillettes Recto Cabeza Punzón

SD 型シャックル SD 型带孔螺栓的直型卸克



A drop forged, carbon steel shackle with an eye bolt which has metric coarse threads at one end. Please specify Ungalvanized (Black) or Galvanized shackles is required.

CODE		Body Diam. mm	Opening mm	Screw Pin Thread	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 13 71	23 01 71	10	20	M12	34	12	0.4
23 01 72	23 13 72	12	24	M14	40	15	0.6
73	73	14	28	M16	47	17	0.8
74	74	16	32	M20	54	20	1.0
75	75	20	40	M24	68	24	1.5
23 01 76	23 13 76	22	44	M27	74	27	2.0
77	77	24	48	M27	81	29	2.5
78	78	26	52	M30	88	32	3.0
79	79	28	56	M33	95	34	3.5
80	80	30	60	M36	102	36	4.0
23 01 81	23 13 81	34	68	M42	115	42	5.0
82	82	38	76	M45	129	45	6.0
83	83	40	80	M48	136	48	7.0
84	84	42	84	M48	142	51	8.0
85	85	48	96	M56	163	58	10.0
23 01 86	23 13 86	52	104	M56	177	62	12.0
87	87	58	116	M64	198	68	15.0

Note: Both SC, SD shackles are similar in type, but opening and SWL differ in the same size. Sizes of the opening in SD type are double the body size.

Bow Shackles - BA

with Flat Head Pin

(Ref. JIS B 2801-1977)

Grillettes Lira Cabeza cilindrica con Clavija

BA 型シャックル BA 型平头销的弓型卸克



A weldless, drop forged, carbon steel shackle with a flathead pin which has a hole for a securing pin at one end. Please specify Ungalvanized (Black) or galvanized shackle is required.

CODE		Oval Body Small Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.					
23 02 01	23 14 01	34	50	156	40	7.0
02	02	36	54	169	42	8.0
03	03	38	57	175	46	9.0
04	04	40	60	188	48	10.0
05	05	42	63	194	51	11.0
23 02 06	23 14 06	44	66	203	54	12.0
07	07	46	68	212	56	13.0
08	08	48	72	219	58	14.0
09	09	50	75	227	60	15.0
10	10	55	83	247	65	18.0
23 02 11	23 14 11	60	90	275	70	22.0
12	12	65	98	299	77	26.0
13	13	70	105	318	83	30.0
14	14	75	112	342	90	35.0
15	15	80	120	366	96	40.0
23 02 16	23 14 16	85	128	389	102	45.0
17	17	90	135	419	108	50.0

Bow Shackles - BB

with Hexagon Head Bolt

(Ref. JIS B 2801-1977)

Grillete Lira Pasador Tornillo con Tuerca

BB 型シャックル BB 型六角螺栓的弓型卸克



A weldless, drop forged, carbon steel shackle with a hexagon, metric coarse threaded bolt, nut, and a split pin hole at the other end. Please specify Ungalvanized (Black) shackle or Galvanized shackle is required.

Unit Per Pc.

CODE		Oval Body Small Diam. mm	Opening mm	Thread Bolt and Nut	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 02 21	23 14 21	20	31	M24	92	24	2.5
22	22	22	34	M24	104	26	3.0
23	23	24	39	M30	111	30	3.6
24	24	26	41	M30	119	32	4.2
25	25	28	43	M33	127	34	4.8
23 02 26	23 14 26	30	45	M36	135	36	5.4
27	27	32	48	M36	148	38	6.2
28	28	34	50	M39	156	40	7.0
29	29	36	54	M42	169	42	8.0
30	30	38	57	M45	175	46	9.0
23 02 31	23 14 31	40	60	M48	188	48	10.0
32	32	42	63	M48	194	51	11.0
33	33	44	66	M48	203	54	12.0
34	34	46	68	M48	212	56	13.0
35	35	48	72	M56	219	58	14.0
23 02 36	23 14 36	50	75	M56	227	60	15.0
37	37	55	83	M64	247	65	18.0
38	38	60	90	M64	275	70	22.0
39	39	65	98	M 72×6	299	77	26.0
40	40	70	105	M 80×6	318	83	30.0
23 02 41	23 14 41	75	112	M 80×6	342	90	35.0
42	42	80	120	M 90×6	366	96	40.0
43	43	85	128	M 90×6	389	102	45.0
44	44	90	135	M100×6	419	108	50.0

Bow Shackles - BC

with Eye Bolt
(Ref. JIS B 2801-1977)

Grillete Lira cabeza Punzón "Jis" Perno Roscado
BC 型シャックル BC 型帶孔螺栓的弓型卸克



BC

Weldless, drop forged, carbon steel shackle with an eye bolt which has a metric coarse threaded end. Please specify Ungalvanized (Black) or Galvanized shackle is required.

Unit Per Pc.

CODE		Oval Body Small Diam. mm	Opening mm	Screw Pin Thread	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 14 51	23 02 51	6	11	M 8	32	8	0.2
52	52	8	14	M10	40	10	0.35
53	53	10	17	M12	48	12	0.6
23 02 54	23 14 54	12	20	M14	55	15	0.9
55	55	14	24	M16	63	17	1.2
23 02 56	23 14 56	16	26	M18	70	19	1.5
57	57	18	29	M20	84	21	2.0
58	58	20	31	M24	92	24	2.5
59	59	22	34	M24	104	26	3.0
60	60	24	39	M30	111	30	3.6
23 02 61	23 14 61	26	41	M30	119	32	4.2
62	62	28	43	M33	127	34	4.8
63	63	30	45	M36	135	36	5.4
64	64	32	48	M36	148	38	6.2
65	65	34	50	M39	156	40	7.0
23 02 66	23 14 66	36	54	M42	169	42	8.0
67	67	38	57	M45	175	46	9.0
68	68	40	60	M48	188	48	10.0

Bow Shackles - BD

with Eye Bolt
(Ref. JIS B 2801-1977)

Grillete Lira cabeza Punzón "Jis" Perno Roscado
BD 型シャックル BD 型帶孔螺栓的弓型卸克



BD

A weldless, drop forged, carbon steel shackle with an eye bolt which has metric coarse threads on the end. Please specify Ungalvanized (Black) shackle or Galvanized shackle is required.

Unit Per Pc.

CODE		Oval Body Small Diam. mm	Opening mm	Screw Pin Thread	Clear Length mm	Pin Diam. mm	S.W.L. Ton
Ungalv. (Black)	Galv.						
23 14 71	23 02 71	6	12	M 8	32	8	0.15
72	72	8	16	M10	40	10	0.3
73	73	10	20	M12	48	12	0.5
23 02 74	23 14 74	12	24	M14	55	15	0.7
75	75	14	28	M16	63	17	0.9
23 02 76	23 14 76	16	32	M20	70	20	1.2
77	77	18	36	M20	89	21	1.3
78	78	20	40	M24	100	24	1.8

Note: Both BC and BD shackles are similar in type, but the opening and SWL differ in the same size. Sizes of the openings in the BD types are double the smaller diam. of the oval body.

Straight Shackles - SE

with Eye Bolt

Grillete Recto Cabeza Punzón

旧 JIS-SE 型シャックル SE 型帶孔螺栓的直型卸克



SE

Drop forged steel shackle with eye bolt. Please specify whether you require galvanized or ungalvanized shackles.

Unit Per Pc.

CODE	Body Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. ton
Black					
23 03 01	22	34	75	26	3
02	24	39	81	30	3.6
03	26	41	88	32	4.2
04	28	43	95	34	4.8
05	30	45	102	36	5.4
23 03 06	32	48	109	38	6.2
07	34	50	116	40	7
08	36	54	123	42	8
09	38	57	129	46	9
10	40	60	136	48	10
Galvanized					
23 03 11	22	34	75	26	3
12	24	39	81	30	3.6
13	26	41	88	32	4.2
14	28	43	95	34	4.8
15	30	45	102	36	5.4
23 03 16	32	48	109	38	6.2
17	34	50	116	40	7
18	36	54	123	42	8
19	38	57	129	46	9
20	40	60	136	48	10

Screw Pin "D" Shackles

Grilletes Recto Cabeza Punzón "D"

D 型雜用シャックル "D" 型螺柱銷卸扣 (黑的)



Made of drop forged steel. When ordering, please specify whether you require galvanized or ungalvanized shackles.

Unit Per Pc.

CODE	Body Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. ton
Black					
23 03 21	6	12	22	6.5	0.138
22	8	17	27	8.5	0.216
23	9	18	31	10	0.284
24	12	24	40	13	0.468
25	16	30	50	17	0.8

(to be continued)

Unit Per Pc.					
CODE	Body Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. ton
23 03 26	19	36	64	20	1.0
27	22	43	74	23	1.5
28	25	47	82	27	2.0
29	28	55	95	30	2.5
30	32	58	103	34	3.2
23 03 31	38	73	125	40	4.2
Galvanized					
23 03 41	6	12	22	6.5	0.138
42	8	17	27	8.5	0.216
43	9	18	31	10	0.284
44	12	24	40	13	0.468
45	16	30	50	17	0.8
23 03 46	19	36	64	20	1.0
47	22	43	74	23	1.5
48	25	47	82	27	2.0
49	28	55	95	30	2.5
50	32	58	103	34	3.2
23 03 51	38	73	125	40	4.2

Screw Pin Countersink Shackles (Carver Shackles)

Grilletes Recto Cabeza Ranura

沈みシャックル 沉头螺柱销卸扣 (黒的)



Made of drop forged steel with countersink and slotted pins. The shackle pins are also galvanized above the threading. When ordering, please specify whether galvanized or black shackles are required.

Unit Per Pc.					
CODE	Body Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. ton
Black					
23 03 63	9	18	32	9	0.3
64	12	26	40	12	0.5
65	16	32	52	16	0.8
66	19	38	64	19	1.0
67	22	44	75	22	1.5
23 03 68	25	50	83	25	2.0
69	28	43	95	34	4.8
70	32	48	109	38	6.2
71	38	57	129	46	9.0
Galvanized					
23 03 83	9	18	32	9	0.3
84	12	26	40	12	0.5
85	16	32	52	16	0.8
86	19	38	64	19	1.0
87	22	44	75	22	1.5
23 03 88	25	50	83	25	2.0
89	28	43	95	34	4.8
90	32	48	109	38	6.2
91	38	57	129	46	9.0

Roller Shackles

Grillete con Rodillo

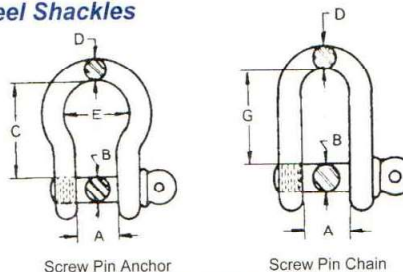
ローラーシャックル 滚轮卸扣



Drop forged roller shackle with a hexagon bolt pin and nut. A cotter pin hole is located at the end of the pin thread to prevent the nut from loosening and coming off. Commonly used as lashing equipment for lumber vessels and log carriers.

Unit Per Pc.			
CODE	Body Diam. mm	Roller Width x Diam mm	S.W.L. ton
23 04 01	25	44 x 63	3
03	32	60 x 85	5

U.S. Federal Specification (RR-C-271b) Mild Steel Shackles



Screw Pin Anchor

Screw Pin Chain

Nominal Size	Pin Dia (D)	Inside Length (C)	Inside Length (G)	Inside Width (A)	SWL Short Ton
1/4	5/16	1-1/8	7/8	15/32	0.2
5/16	3/8	1-1/4	1	17/32	0.3
3/8	7/16	1-7/16	1-1/4	21/32	0.4
7/16	1/2	1-11/16	1-1/2	23/32	0.6
1/2	5/8	1-15/16	1-11/16	13/16	0.9
9/16	5/8	2-1/8	1-13/16	7/8	1.2
5/8	3/4	2-1/2	2	1-1/16	1.4
3/4	7/8	3	2-5/16	1-1/4	2.0
7/8	1	3-1/4	2-7/8	1-7/16	2.7
1	1-1/8	3-3/4	3-1/4	1-11/16	3.6
1-1/8	1-1/4	4-1/4	3-1/2	1-13/16	4.9
1-1/4	1-3/8	4-1/2	3-11/16	2	6.3
1-3/8	1-1/2	5-1/4	4-1/2	2-1/4	7.6
1-1/2	1-5/8	5-3/4	5	2-3/8	9.4
1-5/8	1-3/4	6-1/4	5-1/4	2-5/8	11
1-3/4	2	7	5-7/8	2-7/8	13
2	2-1/4	7-3/4	6-3/4	3-1/4	16
2-1/4	2-1/2	8-3/4	7-1/8	3-3/4	18
2-1/2	2-3/4	10	8	4-1/8	24

Stainless Steel Screw Pin "D" Shackles

Grillete con Perno Roscado Tipo D de Acero Inoxidable
ステンレス雑用シャックル 不锈钢 D 型卸扣



Made of stainless steel which is suitable for using in corrosive surroundings.

Unit Per Pc.					
CODE	Body Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. ton
23 35 01	7	14	23	7	0.17
02	8	17	29	8	0.23
03	9	18	32	9	0.3
04	12	24	40	12	0.5
05	13	26	40	12.6	0.65
23 35 06	16	32	52	16	0.8
07	19	38	64	19	1.0
08	22	44	75	22	1.5
09	25	50	83	25	2.0
10	28	56	97	28	2.5
23 35 11	32	64	102	32	3.2
12	38	76	125	38	4.5

Stainless Steel Straight Shackles-SB

with Hexagon Head Bolt
(Ref. JIS B 2801-1977)

Grillete con Perno Cabeza Hexagonal Tipo de Acero Inoxidable
ステンレス SB 型シャックル 不锈钢 SB 型卸扣



Stainless steel shackle with a hexagon, metric coarse threaded bolt, which has a split pin hole at the end and a securing nut.

23

Rigging Equipment & General Deck Items

Stainless Steel Straight Shackles-SC**with Eye Bolt**
(Ref. JIS B 2801-1977)Grillete con Perno de Ojo Tipo SC de Acero Inoxidable
ステンレス SC 型シャックル 不锈钢 SC 型卸克

Made of stainless steel which is suitable for using in corrosive surroundings.



Unit Per Pc.					
CODE	Body Diam. mm	Opening mm	Clear Length mm	Pin Diam. mm	S.W.L. ton
23 35 51	6	11	20	8	0.2
52	8	14	27	10	0.32
53	10	17	34	12	0.6
54	12	20	40	15	1.0
55	14	24	47	17	1.25
23 35 56	16	26	54	19	1.6
57	18	29	61	21	2.0
58	20	31	68	24	2.5
59	22	34	75	26	3.15
60	24	39	81	30	3.6
23 35 61	26	41	88	32	4.0
62	28	43	95	34	4.8
63	30	45	102	36	5.0
64	32	48	109	38	6.2
65	34	50	116	40	7.0
23 35 66	36	54	123	42	8.0
67	38	57	129	46	9.0
68	40	60	136	48	10.0

Stainless Steel Bow Shackles-BB
with Hexagon Head Bolt
(Ref. JIS B 2801-1977)Grillete con Perno de Cabeza Hexagonal Tipo BB de Acero Inoxidable
ステンレス BB 型シャックル 不锈钢 BB 型卸克

A stainless steel shackle with a hexagon, metric coarse threaded bolt, nut, and a split pin hole at the other end.

Unit Per Pc.						
CODE	Oval Body Small Diam. mm	Opening mm	Thread Bolt and Nut	Clear Length mm	Pin Diam. mm	S.W.L. ton
23 35 71	10	17	M12	34	12	0.6
72	12	20	M14	40	15	1.0
73	14	24	M16	47	17	1.25
74	16	26	M18	54	19	1.6
75	18	29	M20	61	21	2.0

(to be continued)

23 35 76	20	31	M24	68	24	2.5
77	22	34	M24	75	26	3.15
78	24	39	M30	81	30	3.6
79	26	41	M30	88	32	4.0

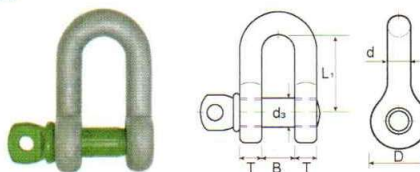
Stainless Steel Bow Shackles-BC
with Eye Bolt
(Ref. JIS B 2801-1977)Grillete con Perno de Ojo Tipo BC de Acero Inoxidable
ステンレス BC 型シャックル 不锈钢 BC 型卸克

Stainless steel shackle with an eye bolt which has a metric coarse threaded end.

Unit Per Pc.						
CODE	Oval Body Small Diam. mm	Opening mm	Screw Pin Thread	Clear Length mm	Pin Diam. mm	S.W.L. ton
23 36 01	6	11	M 8	20	8	0.2
02	8	14	M10	27	10	0.32
03	10	17	M12	34	12	0.6
04	12	20	M14	40	15	1.0
05	14	24	M16	47	17	1.25
23 36 06	16	26	M18	54	19	1.6
07	18	29	M20	61	21	2.0
08	20	31	M24	68	24	2.5
09	22	34	M24	75	26	3.15
10	24	39	M30	81	30	3.6
23 36 11	26	41	M30	88	32	4.0

Green Pins Standard ShacklesGrilletes estándar Green Pin
グリーンピン標準シャックル Green Pin® 标准卸扣

High quality, high tensile "Green Pin" shackle can be identified by the green coloured pin and the marking on the shackle body and pin. Green pin shackles meet all relevant requirements of the Machinery Directive 2006/42/EC and all latest amendments.

Dee Shackles with Screw Collar Pin
G-4151

Material: Body and pin high tensile steel, Grade 6, quenched and tempered

Safety Factor: MBL equals 6 x WLL (Working Load Limit)

Standard: EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 2, Grade A

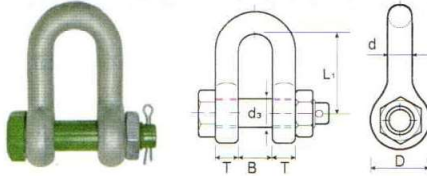
Finish: Hot dipped galvanized

Temperature Range: -20°C to + 200°C

Certification: At no extra charges this product can be supplied with a works certificate, material certificate, manufacturer test certificate, EC Declaration of Conformity and all shackles starting from 2 t can be supplied with DNV 2.7-1 certificate.

CODE	Diameter			Width Inside	Length Inside	Working Load Limit	Weight
	Body	Pin	Eye				
	d mm	d3 mm	D mm	B mm	L mm	Ton	kg
23 45 01	5	6	12	8	22	0.33	0.02
02	7	8	16	10	26	0.5	0.05
03	9	10	20	12	31	0.75	0.09
04	10	11	22	15	37	1	0.14
05	11	13	26	17	43	1.5	0.19
23 45 06	13	16	34	20	51	2	0.32
07	16	19	39	25	60	3.25	0.54
08	19	22	46	28	70	4.75	0.87
09	22	25	52	33	85	6.5	1.34
10	25	28	59	40	99	8.5	2.08
23 45 11	28	32	66	44	106	9.5	2.77
12	32	35	72	47	111	12	3.72
13	35	38	80	53	134	13.5	5.14
14	38	42	88	56	148	17	6.85
15	45	50	103	70	174	25	11.5
23 45 16	50	57	111	78	199	35	16.9
17	57	65	130	90	222	42.5	24.7
18	65	70	145	100	238	55	32.7

Name of Mfr.: Van Beest BV

Dee Shackles with Safety Bolt G-4153

Material: Body and pin high tensile steel, Grade 6, quenched and tempered

Safety Factor: MBL equals 6 x WLL (Working Load Limit)

Standard: EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 3, Grade A

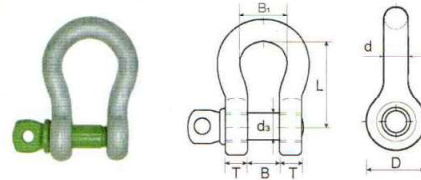
Finish: Hot dipped galvanized

Temperature Range: -20°C to + 200°C

Certification: At no extra charges this product can be supplied with a works certificate, material certificate, manufacturer test certificate, EC Declaration of Conformity and all shackles starting from 2 t can be supplied with DNV 2.7-1 certificate.

CODE	Diameter			Width Inside	Length Inside	Working Load Limit	Weight
	Body	Pin	Eye				
	d mm	d3 mm	D mm	B mm	L mm	Ton	kg
23 45 21	13	16	34	20	51	2	0.39
22	16	19	39	25	60	3.25	0.67
23	19	22	46	28	70	4.75	1.08
24	22	25	52	33	85	6.5	1.66
25	25	28	59	40	99	8.5	2.46
23 45 26	28	32	66	44	106	9.5	3.4
27	32	35	72	47	111	12	4.51
28	35	38	80	53	134	13.5	6.1
29	38	42	88	56	148	17	7.63
30	45	50	103	70	174	25	13.3
23 45 31	50	57	111	78	199	35	18.6
32	57	65	130	90	222	42.5	26
33	65	70	145	100	238	55	35.4
34	75	83	162	122	270	85	53

Name of Mfr.: Van Beest BV

Bow Shackles with Screw Collar Pin G-4161

Material: Body and pin high tensile steel, Grade 6, quenched and tempered

Safety Factor: MBL equals 6 x WLL (Working Load Limit)

Standard: EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, Grade A

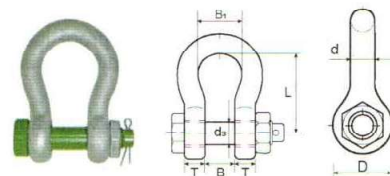
Finish: Hot dipped galvanized

Temperature Range: -20°C to + 200°C

Certification: At no extra charges this product can be supplied with a works certificate, material certificate, manufacturer test certificate, EC Declaration of Conformity and all shackles starting from 2 t can be supplied with DNV 2.7-1 certificate.

CODE	Diameter			Width Inside	Length Inside	Width Bow	Working Load Limit	Weight
	Body	Pin	Eye					
	d mm	d3 mm	D mm	B mm	L mm	B1 mm	Ton	kg
23 45 41	5	6	12	8	25	16	0.33	0.02
42	7	8	16	10	33	20	0.5	0.05
43	9	10	20	12	37	22	0.75	0.1
44	10	11	22	15	42	26	1	0.14
45	11	13	26	17	49	29	1.5	0.19
23 45 46	13	16	34	20	59	32	2	0.36
47	16	19	39	25	73	43	3.25	0.63
48	19	22	46	28	87	51	4.75	1.01
49	22	25	52	33	95	58	6.5	1.5
50	25	28	59	40	109	68	8.5	2.21
23 45 51	28	32	66	44	124	75	9.5	3.16
52	32	35	72	47	132	83	12	4.31
53	35	38	80	53	152	92	13.5	5.55
54	38	42	88	56	167	99	17	7.43
55	45	50	103	70	203	126	25	12.9
23 45 56	50	57	111	78	225	138	35	18.2
57	57	65	130	90	254	160	42.5	26.3
58	65	69	145	100	294	180	55	37.6

Name of Mfr.: Van Beest BV

Bow Shackles with Safety Bolt G-4163

Material: Body and pin high tensile steel, Grade 6, quenched and tempered

Safety Factor: MBL equals 6 x WLL (Working Load Limit)

Standard: EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A

Finish: Hot dipped galvanized

Temperature Range: -20°C to + 200°C

Certification: At no extra charges this product can be supplied with a works certificate, material certificate, manufacturer test certificate, EC Declaration of Conformity and all shackles starting from 2 t can be supplied with DNV 2.7-1 certificate.

CODE	Diameter			Width Inside	Length Inside	Width Bow	Working Load Limit	Weight
	Body	Pin	Eye					
	d	d3	D					
	mm	mm	mm					
23 45 61	7	8	16	10	33	20	0.5	0.06
62	9	10	20	12	37	22	0.75	0.11
63	10	11	22	15	42	26	1	0.16
64	11	13	26	17	49	29	1.5	0.22
65	13	16	34	20	59	32	2	0.42
23 45 66	16	19	39	25	73	43	3.25	0.74
67	19	22	46	28	87	51	4.75	1.18
68	22	25	52	33	95	58	6.5	1.77
69	25	28	59	40	109	68	8.5	2.58
70	28	32	66	44	124	75	9.5	3.66
23 45 71	32	35	72	47	132	83	12	4.91
72	35	38	80	53	152	92	13.5	6.54
73	38	42	88	56	167	99	17	8.19
74	45	50	103	70	203	126	25	14.3
75	50	57	111	78	225	138	35	19.9
23 45 76	57	65	130	90	254	160	42.5	28.4
77	65	70	145	100	295	180	55	39.6
78	75	83	162	122	370	190	85	62

Name of Mfr.: Van Beest BV

Green Pin Sling Shackles

Bow Shackles with Safety Bolt

Grilletes deeslingas Green Pin

グリーンピンスリングシャックル Green Pin® 吊索卸扣

These shackles cover a range from WLL 7 tons up to 1,500 tons. Compared to the standard Green Pin shackles they have an increased bow radius for saving slings and improving wearability. These shackles are ideal for use with wire rope and synthetic sling applications.

Material: Body and pin alloy steel, Grade 8, quenched and tempered

Safety Factor: MBL equals 5 × WLL

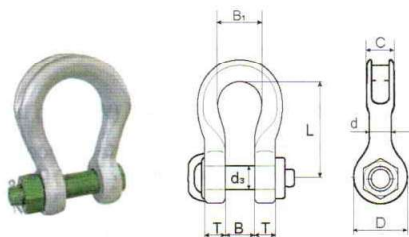
Finish: Shackle bow painted silver, pin painted green

Temperature Range: -20°C to + 200°C

Certification: Can be supplied with a works certificate, material certificate, manufacturer test certificate, EC declaration of Conformity and all shackles from 75 ton are supplied with a Lloyd's Register of Shipping Certificate on proof load. An MPI and/or US inspection certificate can be supplied on request.

Note: ± 5% forging tolerance on inside width and length

P-6033



Unit Per Pc.

CODE	Size mm					WLL	Weight
	Body Diam.	Pin Diam.	Eye Diam.	Inside Width	Inside Length		
	d	d3	D	B	L		
	mm	mm	mm	mm	mm		
23 45 79	22	22	46	28	107	7	2
80	28	28	61	40	134	12.5	4
99	35	35	69	50	165	18	7
81	40	42	90	65	186	30	13
82	55	51	109	80	225	40	21
23 45 83	60	57	115	85	268	55	30
84	68	70	125	105	325	75	48
85	85	80	154	130	406	125	92
86	94	95	178	140	439	150	140
87	110	105	198	150	534	200	205
23 45 88	126	120	226	170	602	250	264
89	135	134	245	185	668	300	360
90	160	160	293	220	656	400	580
91	170	180	328	250	771	500	780
92	190	200	347	275	841	600	980
23 45 93	200	215	392	300	859	700	1,360
94	218	230	420	325	966	800	1,430
95	242	255	466	350	979	900	1,650
96	260	270	490	380	986	1,000	2,120
97	285	300	510	430	1,081	1,250	3,700
23 45 98	285	320	550	460	1,110	1,500	4,000

Name of Mfr.: Van Beest BV

Forged Screw Pin Shackles

G-210, G-209

Grilletes Forjados 鍛造スクリューピンシャックル 鍛造U形鏈鈎



G-210, Straight Type



G-209 Bow Type

Straight Shackle

Unit Per Pc.

CODE	Nominal Shackle Size Inches	Safe Working Load (t)	Weight (kg)
G-210 (Galv)			
23 41 01	1/4	0.5	0.05
02	5/16	0.75	0.08
03	3/8	1	0.13
04	7/16	1.5	0.20
05	1/2	2	0.27
23 41 06	5/8	3.25	0.57
07	3/4	4.75	1.20
08	7/8	6.5	1.43
09	1	8.5	2.15
10	1-1/8	9.5	3.06
23 41 11	1-1/4	12	4.11
12	1-3/8	13.5	5.28
13	1-1/2	17	7.23
14	1-3/4	25	12.10
15	2	35	19.20
23 41 30	2-1/2	55	32.50

Name of Mfr.: Crosby®

Bow Shackle

Unit Per Pc.

CODE	Nominal Shackle Size Inches	Safe Working Load (t)	Weight (kg)
G-209 (Galv)			
23 41 61	3/16	0.33	0.03
62	1/4	0.5	0.05
63	5/16	0.75	0.09
64	3/8	1	0.14
65	7/16	1.5	0.17

(to be continued)

Unit Per Pc.			
CODE	Nominal Shackle Size Inches	Safe Working Load (t)	Weight (kg)
G-209 (Galv)			
23 41 66	1/2	2	0.33
67	5/8	3.25	0.62
68	3/4	4.75	1.07
69	7/8	6.5	1.64
70	1	8.5	2.28
23 41 71	1-1/8	9.5	3.36
72	1-1/4	12	4.31
73	1-3/8	13.5	6.14
74	1-1/2	17	7.80
75	1-3/4	25	12.60
23 41 91	2	35	20.40
92	2-1/2	55	38.90

Name of Mfr.: Crosby®

Bolt Type Anchor & Chain Shackles

G-2130, G-2150

Grilletes Tipo Perno con Pasador y de Ancla

ボルト型アンカー及びチェーンシャックル 鍛造U形鏈鉤（帶螺帽）



G-2130 Anchor Shackle



G-2150 Chain Shackle

Anchor Shackle

Unit Per Pc.			
CODE	Nominal Shackle Size Inches	Safe Working Load (t)	Weight (kg)
G-2130 (Galv)			
23 42 74	3/16	0.33	0.03
75	1/4	0.5	0.05
88	5/16	0.75	0.10
89	3/8	1	0.15
90	7/16	1.5	0.22
23 42 31	1/2	2	0.36
32	5/8	3.25	0.62
33	3/4	4.75	1.23
34	7/8	6.5	1.79
35	1	8.5	2.28
23 42 36	1-1/8	9.5	3.75
37	1-1/4	12	5.31
38	1-3/8	13.5	7.18
39	1-1/2	17	8.62
40	1-3/4	25	15.40
23 42 41	2	35	23.70
42	2-1/2	55	44.60
43	3	85	70
44	3-1/2	120	120
45	4	150	153

Name of Mfr.: Crosby®

Chain Shackle

Unit Per Pc.			
CODE	Nominal Shackle Size Inches	Safe Working Load (t)	Weight (kg)
G-2150 (Galv)			
23 42 91	1/4	0.5	0.06
92	5/16	0.75	0.10
93	3/8	1	0.15
94	7/16	1.5	0.22
61	1/2	2	0.34

(to be continued)

Unit Per Pc.			
CODE	Nominal Shackle Size Inches	Working Load Limit(t)	Weight Each (kg)
23 42 62	5/8	3.25	0.67
63	3/4	4.75	1.14
64	7/8	6.5	1.74
65	1	8.5	2.52
66	1-1/8	9.5	3.45
23 42 67	1-1/4	12	4.90
68	1-3/8	13.5	6.24
69	1-1/2	17	7.72
70	1-3/4	25	14.20
71	2	35	21.20
23 42 72	2-1/2	55	38.60
73	3	85	56

Name of Mfr.: Crosby®

Anchor Shackles

Alloy Bolt Type G-2140

Grillete Lira de Ancla Crosby (Acero Forjado)

バウシャックル合金ボルト止タイプ

鍛造U形鏈鉤（帶合金螺帽）



G-2140

Meets the performance requirements of Federal Specification RR-C-271G, Type IVA, Grade B, Class 3. Quenched and tempered alloy bows and alloy bolts shackles.

Sizes from 3/8 to 5 are made from forged alloy steel, and sizes 6 & 7 are made from cast alloy steel.

Unit Per Pc.			
CODE	Nominal Shackle Size Inches	Working Load Limit(t)	Weight Each (kg)
G-2140 (Galv)			
23 43 59	3/8	2	0.15
60	7/16	2.67	0.22
68	1/2	3.33	0.36
69	5/8	5	0.76
70	3/4	7	1.23
23 43 86	7/8	9.5	1.79
87	1	12.5	2.57
88	1-1/8	15	3.75
89	1-1/4	18	5.31
90	1-3/8	21	7.18
23 43 01	1-1/2	30	8.52
02	1-3/4	40	15.4
03	2	55	23.6
04	2-1/2	85	43.5
05	3	120	81
23 43 06	3-1/2	150	120
07	4	175	153
16	4-3/4	200	209
17	5	250	276
18	6	300	362
23 43 19	7	400	500

Note : Name of Mfr.: Crosby®

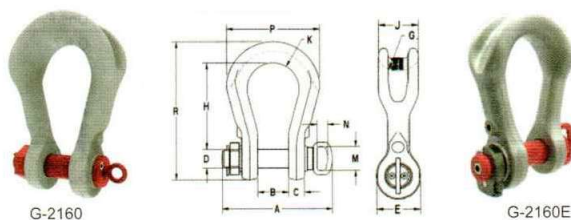
Wide Body Shackles

G-2160/G-2160E

Grillete de Eslinga Crosby

ワイドボディ シャックル 寛幅U形鏈鉤

Greatly improves the durability of wire rope slings. The increase in shackle bow radius provides minimum 58 % gain in the sling bearing surface and eliminates the need for a thimble. Increases the usable sling strength a minimum of 15 %. Forged alloy steel from 7 through 300 metric tons, and cast alloy steel from 400 through 1,550 metric tons. G-2160E as Easy-Loc type will be provided for Working Load Limit 75 to 300 metric tons.



Unit Per Pc.

CODE	Working Load Limit (t)	Dimensions in Millimeters						Weight (kg)
		A	B	C	D	K	R	
23 43 08	7	105	31.8	17.5	22.4	31.8	149	1.81
09	12.5	137	42.9	23.4	28.7	41.4	194	4.54
10	18	170	51.6	29.5	35.1	50.8	238	6.80
15	30	195	60.2	35.1	41.4	63.5	289	11.34
20	40	236	73.2	42.9	50.8	76.2	346	20.90
23 43 32	55	263	82.6	50.8	57.2	88.9	397	32.21
21	75*	382	105	60.7	69.9	92.5	474	49.9
22	125*	450	130	78.7	80	110	584	86.2
23	200*	491	150	86.1	105	138	773	185
24	300*	574	187	109	133	160	953	358
23 43 25	400	772	220	131	160	185	985	518
26	500	849	250	146	180	225	1,085	653
27	600	916	275	158	200	247	1,200	967
28	700	990	300	167	215	270	1,275	1,170
29	800	1,059	325	185	230	277	1,323	1,372
23 43 30	900	1,112	350	198	250	293	1,387	1,712
31	1,000	1,169	380	212	270	308	1,405	1,850
33	1,250	1,278	432	233	300	323	1,660	2,588
34	1,550	1,588	465	282	320	338	1,896	3,650

*Working Load Limit 75 to 300 ton will be G-2160E with Easy-Loc.
Name of Mfr.: Crosby®

2. Turnbuckles

Drop Forged Steel Turnbuckles Frame Type

Tensor Avero Forjado - Tipo Abierto

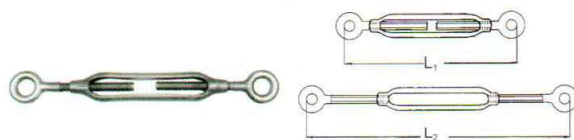
枠式ターンバックル 枠型螺旋卸扣 (黒皮)

Turnbuckle fittings are hot galvanized above the threading. When ordering this type of equipment, please specify the type of turnbuckle required such as "eye" and "eye", etc., and if the turnbuckle should be galvanized or ungalvanized.

Turnbuckles Eye and Eye

Tensor Abierto Cáncamo - Cáncamo

両アイ、ターンバックル 架式双眼環螺旋卸扣 (黒皮)



Unit Per Pc.

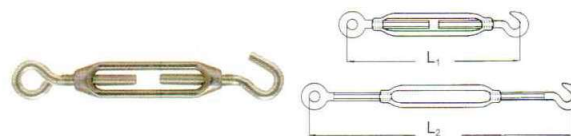
Black			Galvanized		
CODE	Thread Diam. × mm	Frame Length mm	CODE	Thread Diam. × mm	Frame Length mm
23 05 01	6 × 100		23 05 16	6 × 100	
02	8 × 125		17	8 × 125	
03	9 × 150		18	9 × 150	
04	12 × 200		19	12 × 200	
05	16 × 250		20	16 × 250	
23 05 06	19 × 300		23 05 21	19 × 300	
07	22 × 325		22	22 × 325	
08	25 × 350		23	25 × 350	
09	32 × 400		24	32 × 400	
10	38 × 450		25	38 × 450	

Turnbuckles Eye and Hook

Tensor Abierto Cáncamo - Gancho

片アイ、片フックターンバックル

架式单眼单钩松紧螺旋扣 (黒皮)



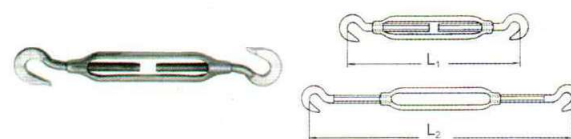
Unit Per Pc.

Black			Galvanized		
CODE	Thread Diam. × mm	Frame Length mm	CODE	Thread Diam. × mm	Frame Length mm
23 05 31	6 × 100		23 05 46	6 × 100	
32	8 × 125		47	8 × 125	
33	9 × 150		48	9 × 150	
34	12 × 200		49	12 × 200	
35	16 × 250		50	16 × 250	
23 05 36	19 × 300		23 05 51	19 × 300	
37	22 × 325		52	22 × 325	
38	25 × 350		53	25 × 350	
39	32 × 400		54	32 × 400	
40	38 × 450		55	38 × 450	

Turnbuckles Hook and Hook

Tensor Abierto Gancho - Gancho

両フックターンバックル 双钩螺旋卸扣 (黒皮)



Unit Per Pc.

Black			Galvanized		
CODE	Thread Diam. × mm	Frame Length mm	CODE	Thread Diam. × mm	Frame Length mm
23 05 61	6 × 100		23 05 76	6 × 100	
62	8 × 125		77	8 × 125	
63	9 × 150		78	9 × 150	
64	12 × 200		79	12 × 200	
65	16 × 250		80	16 × 250	
23 05 66	19 × 300		23 05 81	19 × 300	
67	22 × 325		82	22 × 325	
68	25 × 350		83	25 × 350	
69	32 × 400		84	32 × 400	
70	38 × 450		85	38 × 450	

Turnbuckles Jaw and Jaw

U.S. Federal Spec FT-T-791b

Tensor Abierto Horquilla - Horquilla

ジョー & ジョーターンバックル 双爪螺旋卸扣 (镀锌)

Drop forged steel D6 Brand Turnbuckle of hex. neck frame bodies. All jaw end fittings are supplied with hex. head bolts & nuts. Weldless, self coloured, hot drip galvanized turnbuckle is available.



Galvanized

CODE	Thread Diam. Inch	Frame Take up Inch	Breaking Strength		Weight kg
			kN	tf	
23 06 21	3/8	6	26.4	2.7	0.41
23 06 22	1/2	6	49	5.0	0.74
23		9			0.93
24		12			1.12
23 06 25	5/8	6	78.4	8.0	1.37
26		9			1.57
27		12			1.92
23 06 29	3/4	6	117.6	12.0	1.98
30		9			2.24
31		12			2.55
32		18			3.28
23 06 33	7/8	12	161.7	16.5	3.72
34		18			4.6
23 06 35	1	6	225.4	23	3.99
36		12			5.04
37		18			6.27
38		24			7.89
23 06 39	1-1/4	12	343	35	10.5
80		18			12.4
81		24			14.6
23 06 82	1-1/2	12	480.2	49	16.7
83		18			19.2
84		24			21.7

Turnbuckles Jaw and Eye

U.S. Federal Spec FT-T-791b

Tensor Abierto Horquilla - Cáncamo

ジョー & アイターンバックル 単爪単眼環螺旋扣 (镀锌)



Galvanized

CODE	Thread Diam. Inch	Frame Take up Inch	Breaking Strength		Weight kg
			kN	tf	
23 06 61	3/8	6	26.4	2.7	0.41
23 06 62	1/2	6	49	5.0	0.74
63		9			0.93
64		12			1.12
23 06 65	5/8	6	78.4	8.0	1.37
66		9			1.57
67		12			1.92
23 06 69	3/4	6	117.6	12.0	1.98
70		9			2.24
71		12			2.55
72		18			3.28
23 06 73	7/8	12	161.7	16.5	3.72
74		18			4.6
23 06 75	1	6	225.4	23	3.99
76		12			5.04
77		18			6.27
78		24			7.89
23 06 79	1-1/4	12	343	35	10.5
85		18			12.4
86		24			14.6
23 06 87	1-1/2	12	480.2	49	16.7
88		18			19.2
89		24			21.7

Forged Steel Pipe Turnbuckles

Tensor Tubular (Cerrado) de Acero Forjado

パイプ式ターンバックル 双眼環松緊螺旋扣 (黒皮)

These turnbuckle fittings are hot galvanized above the threading. When ordering, please specify what type of turnbuckle is required, i.e. "eye" and "eye", etc., and whether the turnbuckle should be black or galvanized steel.

Pipe Turnbuckles - PS (Pipe Swage) Type

Tensor Tubular Tipo P.S

PS 式パイプターンバックル PS 型双眼環松緊螺旋扣 (黒皮)

Pipe frame turnbuckle with collapse at the middle of the frame for secure turning by the grip. Available ungalvanized (black) or galvanized (electric plated).

Pipe Turnbuckles Eye and Eye PS Type



Unit Per Pc.							
CODE	Nom. Size	Thread Dia	Frame Length mm	Length Eye to Eye mm		Breaking Load	
				Min.	Max.	kN	tf
Black							
23 04 41	9	W 3/8	150	180	300	13.7	1.4
42	12	W 1/2	200	265	430	21.6	2.2
43	16	W 5/8	250	335	540	31.4	3.2
44	19	W 3/4	300	395	640	47.1	4.8
45	22	W 7/8	320	430	695	62.8	6.4
23 04 46	25	W 1	350	470	750	84.3	8.6
47	32	W 1-1/4	400	520	810	357.9	36.5
Galvanized							
23 04 51	9	W 3/8	150	180	300	13.7	1.4
52	12	W 1/2	200	265	430	21.6	2.2
53	16	W 5/8	250	335	540	31.4	3.2
54	19	W 3/4	300	395	640	47.1	4.8
55	22	W 7/8	320	430	695	62.8	6.4
23 04 56	25	W 1	350	470	750	84.3	8.6
57	32	W 1-1/4	400	520	810	357.9	36.5

Pipe Turnbuckles Eye and Hook PS Type

Unit Per Pc.							
CODE	Nom. Size	Thread Dia	Frame Length mm	Length Eye to Hook mm		Breaking Load	
				Min.	Max.	kN	tf
Black							
23 04 61	9	W 3/8	150	180	300	6.9	0.7
62	12	W 1/2	200	265	430	10.8	1.1
63	16	W 5/8	250	335	540	13.7	1.4
64	19	W 3/4	300	395	640	24.5	2.5
65	22	W 7/8	320	430	695	33.3	3.4
23 04 66	25	W 1	350	470	750	42.2	4.3
67	32	W 1-1/4	400	520	810	73.5	7.5
Galvanized							
23 04 71	9	W 3/8	150	180	300	6.9	0.7
72	12	W 1/2	200	265	430	10.8	1.1
73	16	W 5/8	250	335	540	13.7	1.4
74	19	W 3/4	300	395	640	24.5	2.5
75	22	W 7/8	320	430	695	33.3	3.4
23 04 76	25	W 1	350	470	750	42.2	4.3
77	32	W 1-1/4	400	520	810	73.5	7.5

Pipe Turnbuckles Hook and Hook PS Type

Unit Per Pc.							
CODE	Nom. Size	Thread Dia	Frame Length mm	Length Hook to Hook mm		Breaking Load	
				Min.	Max.	kN	tf
Black							
23 04 81	9	W 3/8	150	180	300	6.9	0.7
82	12	W 1/2	200	265	430	10.8	1.1
83	16	W 5/8	250	335	540	13.7	1.4
84	19	W 3/4	300	395	640	24.5	2.5
85	22	W 7/8	320	430	695	33.3	3.4
23 04 86	25	W 1	350	470	750	42.2	4.3
87	32	W 1-1/4	400	520	810	73.5	7.5

(to be continued)

Unit Per Pc.

CODE	Nom. Size	Thread Dia	Frame Length mm	Length Hook to Hook mm		Breaking Load	
				Min.	Max.	kN	tf
Galvanized							
23 04 91	9	W 3/8	150	180	300	6.9	0.7
92	12	W 1/2	200	265	430	10.8	1.1
93	16	W 5/8	250	335	540	13.7	1.4
94	19	W 3/4	300	395	640	24.5	2.5
95	22	W 7/8	320	430	695	33.3	3.4
23 04 96	25	W 1	350	470	750	42.2	4.3
97	32	W 1-1/4	400	520	810	73.5	7.5

Pear Shape Lashing Links (Grab Links)

Llabòn (Anilla) Forma de Pera

ラッシング用リンク 梨形捆扎环 (黒皮)

Pear shaped end links for chain or lashing turnbuckles. Forged steel, self-color or galvanized finish. Has 22 mm diam., 240 mm outside length and 130 mm outside width.



Unit Per Pc.

CODE	Description	Diam. mm	Overall Length mm × Width mm
23 11 81	Black	22	240 × 130
82	Galvanized	22	240 × 130

Log Lashing Spanners

Llaves para Trincar Troncos

ログラッシング用締付けレンチ 原木捆扎扳手

Light to carry and easy to use to tighten the turnbuckles for lashing log and lumber cargoes on deck. Can be used for the final lashing in port, as well as the important task of retightening turnbuckles daily on the voyage. You'll make the job faster and easier, reducing your crew's time and exposure on deck.



Unit Per Pc.

CODE	Type	Opening mm	For	Weight kg
23 07 73	30	105/30	Specially designed to fit the new style small turnbuckles. Old style large turnbuckles, but can be used efficiency on all sizes.	2.4
74	45	105/45		
23 07 75	30	105/30	Above original spanner with a one-way sprocket.	2.4
78	42	105/42		
23 07 79	42	105/42	A forward/reverse and static positions with a 42mm sprocket opening.	2.4

Leather Pouch

23 07 80	Leather Pouch for above all spanners to ensure the health and safety for users
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Chain Type Load Binders

Carraca de Cadenas チェーン式荷締機 錠式扎緊装置

Ratchet type lever operated device for tightening or binding pipes, logs, etc.



Unit Per Pc.

CODE	S.W.L. Ton	Max. Pull Distance mm	Min. Distance Hook to Hook mm	Chain Diam. mm	Weight kg
23 07 76	0.5	1,350	350	6.3	3.7
77	1.0	1,420	420	6.3	6.0

Rigging Screws

Tensor con Guardacabo リギングスクリュー 船装松緊螺旋扣

Drop forged frame with a solid thimble and bolt ends. When



ordering, please specify the diameter or circumference of the wire rope to be used with the rigging screw. Also specify whether Ungalvanized (Black) or Galvanized rigging screws will be required when ordering.

Unit Per Pc.

CODE	Ungalv. (Black)	Galv.	Nominal Size mm	Dia. of Rope Applied mm	Screw Rod		SWL Tons	Weight kg
					Thread Size	Length mm		
23 07 81	23 19 81		14	14	M24	350	2.1	5.97
82	82		16	16	M27	380	2.6	8.58
83	83		18	18	M30	420	3.3	11.6
84	84		22	20 and 22.4	M33	450	5.1	14.8
85	85		24	24	M39	480	5.9	19.4
23 07 86	23 19 86		26	25	M42	500	6.9	23.9
87	87		30	28 and 30	M48	540	9.2	30.2
88	88		32	32	M48	560	10.5	36.2
89	89		34	34	M52	590	11.5	43.2
90	90		36	36	M56	620	13.0	51.1
23 07 91	23 19 91		38	38	M60	640	14.5	59.9
92	92		40	40	M64	670	16.5	70.7
93	93		42	42.5	M68	720	18.5	93.5
94	94		45	45	M68	740	21	105
95	95		48	47.5	M76×6	770	23	117
23 07 96	23 19 96		50	50	M76×6	780	25.5	124

3. Wire Clips/Thimbles/Sockets

Standard Wire Clips

Cast Iron

Sujetacables Tipo Estándar de Hierro Fundido

鈎物スタンダード型ワイヤークリップ

标准铸铁钢丝绳卡环 (黒皮)



Made of cast iron and designed to hold one wire rope tight and securely to another. When ordering, please specify whether galvanized or black wire clips are required. Also, please specify the diameter of the wire rope to be used with the wire clip.

Unit Per Pc.

Black			Galvanized		
CODE	Wire Size Diam. mm	U-Bolt Diam. mm	CODE	Wire Size Diam. mm	U-Bolt Diam. mm
23 08 01	4.5	4.5	23 08 16	4.5	4.5
02	6	6	17	6	6
03	8	8	18	8	8
04	9	8	19	9	8
05	12	9	20	12	9
23 08 06	16	13	23 08 21	16	13
07	19	13	22	19	13
08	22	16	23	22	16
09	25	16	24	25	16
10	28	19	25	28	19
23 08 11	32	19	23 08 26	32	19
12	38	22	27	38	22
13	44	25	28	44	25
14	50	25	29	50	25

Wire Rope Clips**Malleable Iron****U.S. Federal Spec. FF-C-450b**

Sujetacable de Acero Maleable

アメリカ型マレアルワイヤークリップ

可锻铸铁钢丝绳卡环 (黑皮)



Made of malleable iron with a grooved rope channel to hold the wire ropes securely together.

Unit Per Pc.

Black			Galvanized		
CODE	Wire Size Diam. inch	U-Bolt Diam. inch	CODE	Wire Size Diam. inch	U-Bolt Diam. inch
23 08 31	1/8	3/16	23 08 46	1/8	3/16
32	3/16	1/4	47	3/16	1/4
33	1/4	5/16	48	1/4	5/16
34	5/16	5/16	49	5/16	5/16
35	3/8	3/8	50	3/8	3/8
23 08 36	7/16	3/8	23 08 51	7/16	3/8
37	1/2	7/16	52	1/2	7/16
38	9/16	1/2	53	9/16	1/2
39	5/8	1/2	54	5/8	1/2
40	3/4	9/16	55	3/4	9/16
23 08 41	7/8	5/8	23 08 56	7/8	5/8
42	1	5/8	57	1	5/8

Wire Rope Clips**Drop Forged Steel (F Type)**

Sujetacable de Acero Forjado

F 型鍛造クリップ 圧鍛鋼钢丝绳卡环 (FR-型, 镀锌)



Specially, designed with tapered wings at the base in order to assure a very tight and firm grip to wire ropes.

Unit Per Pc.

Black			Galvanized		
CODE	Wire Size Diam. mm	U-Bolt Th'd Diam.	CODE	Wire Size Diam. mm	U-Bolt Th'd Diam.
23 08 61	8	M 8	23 08 76	8	M 8
62	10	M10	77	10	M10
63	12	M12	78	12	M12
64	14	M12	79	14	M12
65	16	M14	80	16	M14
23 08 66	18	M14	23 08 81	18	M14
67	20-22	M18	82	20-22	M18
68	24-25	M20	83	24-25	M20
69	26-28	M22	84	26-28	M22
70	30-32	M22	85	30-32	M22
23 08 71	33-38	M27	23 08 86	33-38	M27
72	40-45	M30	87	40-45	M30
73	47-50	M33	88	47-50	M33

Standard Wire Clips**Stainless Steel**

Sujetacable Tipo Estándar de Acero Inoxidable

ステンレス製ワイヤークリップ 不锈钢钢丝绳夹头



Made of stainless steel and designed to hold one wire rope tight and securely to another. Please specify the diameter of the wire rope to be used with the wire clip.

Unit Per Pc.

CODE	Wire Size Diam mm.	U-Bolt		Weight grm
		Diam. mm	Thread	
23 36 51	1.5	1.7	M 1.8	5
52	2	2.5	M 3	8
53	3	3.0	M 3	11
54	4	3.5	M 4	19
55	5	5.0	M 5	26

(to be continued)

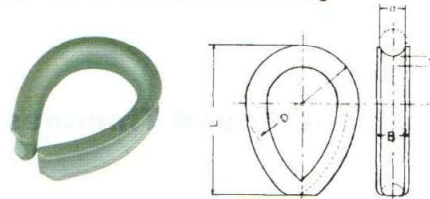
23 36 56	6	5.3	M 6	35
57	8	7.1	M 8	78
58	10	8.9	M10	160
59	12	10.8	M12	240
60	14	10.8	M12	270
23 36 61	16	12.6	M14	410
62	18	12.6	M14	460
63	20-22	16.3	M18	800

Wire Rope Thimbles (A Type)

Guardacabos para Cable de Acero (Tipo A)

ワイヤーロープシンブル A 型 钢丝绳套环 (A-型, 镀锌)

A wrought steel, galvanized type thimble for use with bare steel wire rope. Please specify the diameter of the wire rope to be used with the thimble when ordering.



Unit Per Pc.

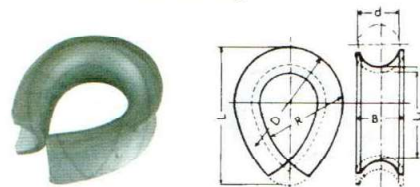
CODE	Nominal Size mm	Applicable Wire Rope Diam. mm	Dimensions mm		
			L	D	B
23 09 01	6	6	36	27	8
02	8	8	48	36	10
03	9	9	51	40	11
04	10	10	58	45	13
05	12	12	68	54	15
23 09 06	14	14	78	61	17
07	16	16	92	72	20
08	18	18	100	75	22
09	20	20	112	86	24
10	22	22	122	95	27
23 09 11	24	24	136	105	29
12	26	26	144	110	31
13	28	28	156	120	33
14	30	30	166	130	35
15	32	32	180	140	38
23 09 16	34	34	186	145	40
17	36	36	196	150	42
18	38	38	205	160	44
19	40	40	220	170	46
20	42	42	232	180	50
23 09 28	44	44	242	190	52
29	46	46	252	195	54
22	48	48	260	205	56
23	50	50	274	215	58
30	55	55	310	235	65
23 09 26	60	60	335	255	70
31	65	65	358	276	75

Manila Rope Thimbles (C Type)

Guardacabos para Cuerda de Manila (Tipo C)

マニラロープコース C 型 钢质马尼拉棕绳套环 (C-型, 镀锌)

A wrought steel, galvanized, C type thimble for use with manila rope. Please specify the diameter of the rope to be used with the thimble when ordering.



Unit Per Pc.

CODE	Nominal Size mm	Applicable Manila Rope Diam. mm	Dimensions mm		
			L	D	B
23 09 41	10	10	36	28	13
42	12	12	42	34	15
43	14	14	48	38	17
44	16	16	55	42	19
45	18	18	60	50	21
23 09 46	20	20	65	55	23
47	22	22	72	60	25
48	24	24	78	65	27
49	26	26	85	70	30
50	28	28	90	75	32
23 09 51	30	30	95	80	34
52	32	32	100	85	36
53	35	35	110	92	41
54	40	40	125	105	46
55	45	45	140	115	51
23 09 56	50	50	155	130	56

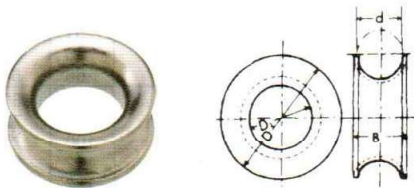
23

Manila Rope Round Thimbles (D Type)

Guardacabos Redondos para Cuerda de Manila (Tipo D)

マニラロープコース D 型 鋼質マニラ棕縄圓套環 (D-型, 镀锌)

D type round thimble for use with manila rope. Made of galvanized wrought steel. Please specify the diameter of the rope to be used with the thimble when ordering.



Unit Per Pc.

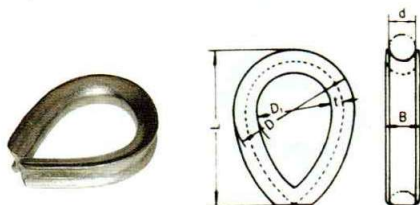
CODE	Nominal Size mm	Applicable Manila Rope Diam. mm	Dimensions mm	
			D	D1
23 09 72	10	10	38	23
73	12	12	38	23
75	16	16	48	27
86	19	19	48	27
78	22	22	55	35
23 09 87	25	25	55	35
81	28	28	73	40
83	32	32	73	40

Stainless Steel Wire Rope Thimbles (A Type)

Guardacabo del Cable de Acero Inoxidable

ステンレス製ワイヤーロープシンブル A 型 A 型不锈钢三角圈

A stainless steel thimble which resist deformation and collapse even in frequent use. Please specify the diameter of the wire rope to be used with the thimble when ordering.



Unit Per Pc.

CODE	Nominal Size mm	Applicable Wire Rope Diam. mm	Dimensions mm		
			L	D	B
23 36 71	6	6	36	27	8
72	8	8	48	36	10
73	9	9	51	40	11
74	10	10	58	45	13
75	12	12	68	54	15
23 36 76	14	14	78	61	17
77	16	16	92	72	20
78	18	18	100	75	22
79	20	20	112	86	24
80	22	22	122	95	27
23 36 81	24	24	136	105	29
82	26	26	144	110	31
83	28	28	156	120	33
84	30	30	166	130	35
85	32	32	180	140	38
23 36 86	34	34	186	145	40
87	36	36	196	150	42
88	38	38	205	160	44
89	40	40	220	170	46
90	42	42	232	180	50

Corresponding Shackle Sizes to Wire Rope Thimble

Thimble Size	Shackle Size		
	SE	SD	SA
8	-	-	10
9	-	-	10
10	-	-	12
12	16	14/16	14/16
14	18	-	18
16	20	20	20
18	22	-	22
20	24	-	24
22	26	-	26
24	28	-	28
26	30	-	30
28	32	-	32
30	34	-	-
32	36	-	-
34	38	-	-
36	40	-	-

Wire Clamps for Topping Lift

Sujetacables para Peligallo

荷役つり索ニッパ 吊货钢丝绳夹头 (重型)

Made of carbon steel for topping lifts. Used as temporary holders when the topping lifts are fastened to cleats or the like.



Unit Per Pc.

CODE	Nominal Size	Applicable Wire Rope Diam. mm	SWL Tons	Butterfly Nut torque kgf/cm²	Wt. kg
23 10 11	14	14 (6×24)	0.4	400	3.46
12	16	16 (6×24)	0.4	400	3.46
13	18	18 (6×24)	0.4	400	3.46
01	20	20 (6×24)	0.4	400	3.46
02	22	22 (6×24)	0.4	400	3.46
23 10 05	25	25 (6×24)	0.4	500	13.7
06	28	28 (6×24)	0.4	500	13.7

Wire Rope Lubricators

Lubricadores de Cable
ワイヤーロープリケーター 鋼絲繩潤滑器

A unique method of automatically lubricating on wire ropes, utilizing a high pressure collar with seals which delivers grease into the core of the wire ropes while providing a thin grease film outer coating as wire ropes pass through the lubricator. Lubrication protects the ropes against corrosion while also providing excellent lubrication of wire strands both internally and externally. This can provide safety lubrication work for crew and reduce the labor on lubrication by up to 90%, and significant increases in wire rope life.



Lubricator can also remove the grease or contamination from the wire rope prior to lubrication with cleaner attachment, which improve the effectiveness of the lubrication process.

There are several brands available, and each brand has different applicable rope diameters and accessories, so please specify the manufacturer and brand name when ordering replacement seals.

Specifications

Maker	Viper Wire Rope Lubricator		Ferryll		Saemah
Model	Mid MKII	Mini MKII	Wire Rope Lubricator		SIGMALUB
Applicable Rope Dia.	6 mm – 67 mm	6 mm – 36 mm	1 – 50 mm	50 – 90 mm	6 mm – 44 mm
Lubrication Speed	4.5 kg/min	2.5 kg/min	40 m /min	40 m /min	-
Seal Replacement	Up to 15,000 meters		-		-
Accessories	Grease Pump, Air Regulator, 1m clear hose, 4m x 1/2" High Pressure Hose, 2 x 2m Ratchet Strap, 4 x Shackle, Shoulder Strap, Carry Case.	Grease Pump, Air Regulator, 4m x 3/8" High Pressure Hose, 2 x Ratchet Strap, 4 x Shackle, Carry Case.	Grease Pump, Air Regulator, High Pressure Hose, Set of Seals, Groove Cleaners, Self-retracting Ratchet Straps, Scraper Plates, Spare set of Seals, Wire Rope Grease (IMPA 450404 Ferryll 202 Standard), Carry Case.		Grease Pump, Air Regulator, 4m x 3/8" High Pressure Hose, Set of Seals & Cleaner, Spare set of seals & Cleaner, Ratchet Strap, Carry Case.
Weight (kg)	9.5	2.9	4.5	14	3.4

How to order: CODE

Wire rope lubricator, APPLICABLE ROPE DIA, MANUFACTURER AND BRAND NAME etc.

CODE	Description	Unit
23 10 16	Wire rope lubricators, complete	Set
17	Spare seals for specific wire rope diameter	Pc.
18	Groove cleaners for specific wire rope diameter	Pc.

Wire Rope Sockets

Terminales para Cables
ワイヤーロープソケット 鋼絲套 (開式)

Drop forged carbon steel, self coloured wire socket for standing wire rope of a ships mast, post, etc.



Open type



Closed type

Unit Per Pc.

Open Type CODE	Applicable Wire Rope Diam. mm	Rope Hole Size mm	Overall Length mm	Closed Type CODE
23 10 51	16	20	193	23 10 76
52	18	23	210	77
53	20	25	227	78
54	22.4	30	245	79
55	24	32	262	80
23 10 56	25	33	281	23 10 81
57	28	36	298	82
58	30	38	316	83
59	31.5	40	335	84
60	33.5	42	353	85
23 10 61	35.5	44	373	23 10 86
62	37.5	47	392	87
63	40	49	413	88
64	42.5	52	434	89
65	45	54	474	90
23 10 66	47.5	57	494	23 10 91
67	50	60	516	92
68	53	63	536	93
69	56	66	567	94
70	60	70	619	95
23 10 71	63	74	641	23 10 96

Spelter Sockets G-416/G-417

Tomas de espelta G-416/G-417
スベルターソケット 斯派尔特插座

Forged steel sockets through 38mm, cast alloy steel 40mm through 60mm.



Open Socket
G-416



Closed Socket
G-417

Open Type CODE	Rope Dia mm	Rope Hole Size mm	Overall Length mm	Weight kg
23 10 21	14-16	17.5	171	1.63
22	18	20.6	202	2.64
23	20-22	23.9	235	4.38
24	24-26	28.7	268	7.03
25	28-30	31.8	300	9.75
23 10 26	32-35	38.1	335	14.1
27	38	41.4	384	21.4
28	40-42	44.5	413	24.9
29	44-48	51.0	464	37.2
30	50-54	57.0	546	59.0
23 10 31	56-60	63.5	597	76.0

Name of Mfr.: Crosby®

Closed Type CODE	Rope Dia mm	Rope Hole Size mm	Overall Length mm	Weight kg
23 10 32	14-16	17.5	162	1.13
33	18	22.4	194	1.92
34	20-22	25.4	226	3.28
35	24-26	28.7	254	4.76
36	28-30	31.8	283	6.46
23 10 37	32-35	38.1	309	8.95
38	38	41.4	355	13.24
39	40-42	44.5	390	16.32
40	44-48	51.0	445	25.96
41	50-54	57.2	505	35.83
23 10 42	56-60	66.8	546	47.62

Name of Mfr.: Crosby®

4. Chains/Links

Stud Link Anchor Chain Cables

Flush Butt Welded

(Ref. JIS F 3303-1993)

Cadenas con Cartrete/Soldadas Eléctrica
フラッシュバット溶接アンカーチェーン
嵌入式对接缝焊的有档链环锚链钢索

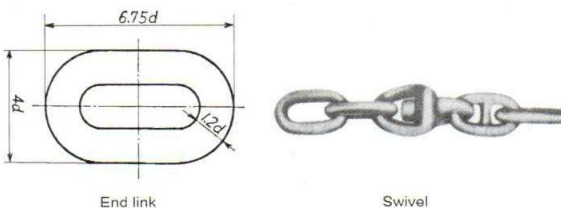
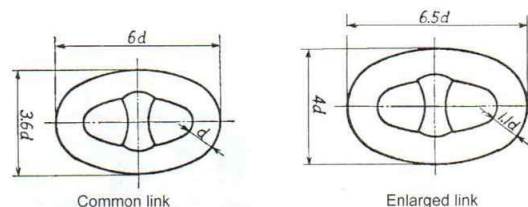
The specifications of these flush butt welded Anchor Chain Cables and their accessories for ship and harbour use are as follows.



Nominal Size	Denoted by the diameter "d" shown in the sketch.
One Length	One length of the chain is 25 or 27.5 mtrs between the farther point end of the inner side of the end link and that of the opposite end link. May be also including the joining shackle and kenter shackle.
Nos. of Link	The total number of links for each length is odd except where it includes a swivel.
Shape & Size of Link, Shackle, etc.	The shape of each link, shackle and swivel must be determined in proportion to the size as shown in the sketches. They must be uniform in shape, and those next to each other must fit properly and move freely.

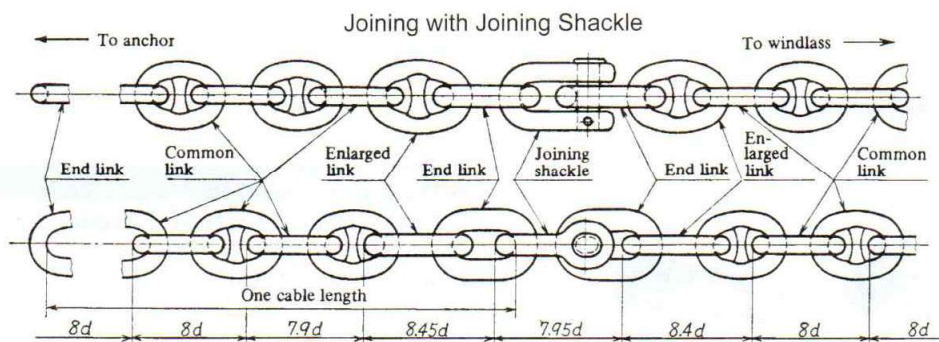
Specification

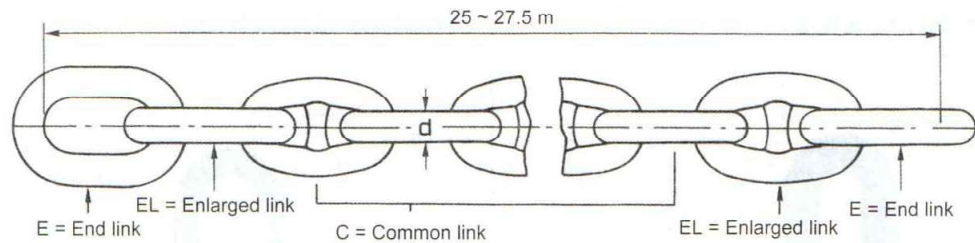
Kind of Chain	Symbol	Material
Stud Link Chain	Class 1	ST 1
	Class 2	ST 2
	Class 3	ST 3
		SBC 300 : Steel bars for chains SS-400 : Rolled steel got general structure S20C : Cold rolled special steel strip
		SBC 490 : Steel bars for structure
		SBC 690 : Steel bars for structure (or KBC)



Chain Dia (d)	Outside Length of Common Link (6d)	Outside Width of Common Link (3.6d)	Class II		Class III	
			Proof Test Load	Breaking Test Load	Proof Test Load	Breaking Test Load
mm	mm	mm	kN	kN	kN	kN
28	168	100.8	321	449	449	624
30	180	108.0	368	514	514	735
32	192	115.2	417	583	583	833
34	204	122.4	468	655	655	937
36	216	129.6	523	732	732	1,050
38	228	136.8	581	812	812	1,160
40	240	144.0	640	896	896	1,280
42	252	151.2	703	981	981	1,400
44	264	158.4	769	1,080	1,080	1,540
46	276	165.6	837	1,170	1,170	1,680
48	288	172.8	908	1,270	1,270	1,810
50	300	180.0	981	1,370	1,370	1,960
52	312	187.2	1,060	1,480	1,480	2,110
54	324	194.4	1,140	1,590	1,590	2,270
56	336	201.6	1,220	1,710	1,710	2,430
58	348	208.8	1,290	1,810	1,810	2,600
60	360	216.0	1,380	1,940	1,940	2,770
62	372	223.2	1,470	2,060	2,060	2,940
64	384	230.4	1,560	2,190	2,190	3,130
66	396	237.6	1,660	2,310	2,310	3,300
68	408	244.8	1,750	2,450	2,450	3,500
70	420	252.0	1,840	2,580	2,580	3,690
73	438	262.8	1,990	2,790	2,790	3,990
76	456	273.6	2,150	3,010	3,010	4,300
78	468	280.8	2,260	3,160	3,160	4,500
81	486	291.6	2,410	3,380	3,380	4,820
84	504	302.4	2,580	3,610	3,610	5,160
87	522	313.2	2,750	3,850	3,850	5,500

Remark: Larger or smaller sizes than the above list are also available.





Nominal Diameter d mm	Kind of Link	Size mm									Approx. No. of Link	
		Diameter			Length			Width			Per 27.5 mtr	Per 25 mtr
		Min.	Sta.	Max.	Min.	Sta.	Max.	Min.	Sta.	Max.		
14	C	13.0	14.0	15.5	81.9	84.0	86.1	49.2	50.4	51.6	487	441
	EL	14.4	15.4	16.9	88.8	91.0	93.2	54.6	56.0	57.4	2	2
	E	15.8	16.8	18.3	89.3	91.5	93.7	54.6	56.0	57.4	2	2
16	C	15.0	16.0	17.5	93.6	96.0	98.4	56.2	57.6	59.0	423	385
	EL	16.6	17.6	19.1	101.4	104.0	106.6	62.4	64.0	65.6	2	2
	E	18.2	19.2	20.7	105.3	108.0	110.7	62.4	64.0	65.6	2	2
17.5	C	16.5	17.5	19.0	102.4	105.0	107.6	61.5	63.0	64.5	387	353
	EL	18.2	19.2	20.7	111.0	113.8	116.6	68.3	70.0	71.7	2	2
	E	20.0	21.0	22.5	115.2	118.1	121.0	68.3	70.0	71.7	2	2
19	C	18.0	19.0	20.5	111.2	114.0	116.8	66.6	68.4	70.1	357	323
	EL	19.9	20.9	22.4	120.5	123.5	126.5	74.1	76.0	77.9	2	2
	E	21.8	22.8	24.3	125.1	128.3	131.5	74.1	76.0	77.9	2	2
20.5	C	19.5	20.5	22.0	120.0	123.0	126.0	71.9	73.8	75.6	331	301
	EL	21.5	22.5	24.0	130.0	133.3	136.6	80.0	82.0	84.0	2	2
	E	23.6	24.6	26.1	135.0	138.4	141.8	80.0	82.0	84.0	2	2
22	C	21.0	22.0	23.5	128.7	132.0	135.3	77.2	79.2	81.1	307	279
	EL	23.2	24.2	25.7	139.5	143.0	146.5	85.8	88.0	90.2	2	2
	E	25.4	26.4	27.9	144.8	148.5	152.2	85.8	88.0	90.2	2	2
24	C	23.0	24.0	25.5	140.4	144.0	147.6	84.3	86.4	88.5	281	255
	EL	25.4	26.4	27.9	152.1	156.0	159.9	93.6	96.0	98.4	2	2
	E	27.8	28.8	30.3	158.0	162.0	166.0	93.6	96.0	98.4	2	2
25	C	24.0	25.0	26.5	146.3	150.0	153.7	87.8	90.0	92.2	269	245
	EL	26.5	27.5	29.0	158.5	162.5	166.5	97.5	100.0	102.5	2	2
	E	29.0	30.0	31.5	164.6	168.8	173.0	97.5	100.0	102.5	2	2
26	C	25.0	26.0	27.5	152.1	156.0	159.9	91.3	93.6	95.9	259	235
	EL	27.6	28.6	30.1	164.8	169.0	173.2	101.4	104.0	106.6	2	2
	E	30.2	31.2	32.7	171.2	175.5	179.8	101.4	104.0	106.6	2	2
28	C	27.0	28.0	29.5	163.8	168.0	172.2	98.3	100.8	103.3	241	219
	EL	29.8	30.8	32.3	177.5	182.0	186.5	109.2	112.0	114.8	2	2
	E	32.6	33.6	35.2	184.3	189.0	193.7	109.2	112.0	114.8	2	2
30	C	29.0	30.0	31.5	175.5	180.0	184.5	105.3	108.0	110.7	225	203
	EL	32.0	33.0	34.7	190.2	195.0	199.8	117.0	120.0	123.0	2	2
	E	35.0	36.0	37.8	197.5	202.5	207.5	117.0	120.0	123.0	2	2
32	C	31.0	32.0	33.6	187.2	192.0	196.8	112.4	115.2	118.0	209	191
	EL	34.2	35.2	37.0	202.8	208.0	213.2	124.8	128.0	131.2	2	2
	E	37.4	38.4	40.3	210.6	216.0	221.4	124.8	128.0	131.2	2	2
34	C	33.0	34.0	35.7	198.9	204.0	209.1	119.4	122.4	125.4	197	179
	EL	36.4	37.4	39.3	216.5	222.0	227.5	132.6	136.0	139.4	2	2
	E	38.8	40.8	42.8	223.8	229.5	235.2	132.6	136.0	139.4	2	2
36	C	35.0	36.0	37.8	210.6	216.0	221.4	126.4	129.6	132.8	185	169
	EL	38.6	39.6	41.6	228.2	234.0	239.8	140.4	144.0	147.6	2	2
	E	41.2	43.2	45.4	237.0	243.0	249.0	140.4	144.0	147.6	2	2
38	C	37.0	38.0	39.9	222.3	228.0	233.7	133.4	136.8	140.2	175	159
	EL	39.8	41.8	43.7	240.9	247.0	253.1	148.2	152.0	155.8	2	2
	E	43.6	45.6	47.5	249.6	256.0	262.4	148.2	152.0	155.8	2	2
40	C	39.0	40.0	42.0	234.0	240.0	246.0	140.4	144.0	147.6	167	151
	EL	42.0	44.0	46.2	253.5	260.0	266.5	156.0	160.0	164.0	2	2
	E	46.0	48.0	50.4	263.3	270.0	276.7	156.0	160.0	164.0	2	2
42	C	40.0	42.0	44.1	245.7	252.0	258.3	147.5	151.2	154.9	159	143
	EL	44.2	46.2	48.5	266.2	273.0	279.8	163.8	168.0	172.2	2	2
	E	48.4	50.4	52.9	276.5	283.5	290.6	163.8	168.0	172.2	2	2
44	C	42.0	44.0	46.2	257.4	264.0	270.6	154.5	158.4	162.3	151	137
	EL	46.4	48.4	50.8	278.9	286.0	293.1	171.6	176.0	180.4	2	2
	E	50.8	52.8	55.4	289.6	297.0	304.4	171.6	176.0	180.4	2	2

Joining Shackles

Grilletes de Unión ジョイニングシャックル 连接钩环

$D = 1.3d + \text{Tolerance}$

$L = 7.1d$

$W = 4d$

$P = 0.3d$

$R = 0.8d$

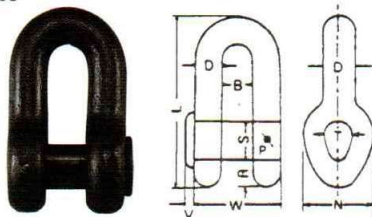
$N = 2.8d$

$S = 1.6d$

$V = 0.2d$

$T = 1.2d$

$B = 1.4d$



Size of chain Applied (d)		D 1.3d	L 7.1d	S 1.6d	W 4d	B 1.4d	Weight/pce
m/m	in	m/m	m/m	m/m	m/m	m/m	kg
28	1-1/8	36	199	45	112	39	5.6
30	1-3/16	39	213	48	120	42	6.8
32	1-1/4	42	227	51	128	45	7.9
34	1-5/16	44	241	54	136	48	10.0
36	1-3/8	47	256	58	144	50	12.0
38	1-1/2	49	270	61	152	53	13.9
40	1-9/16	52	284	64	160	56	15.6
42	1-5/8	55	298	67	168	59	17
44	1-3/4	57	312	70	176	62	20
46	1-13/16	60	327	74	184	64	23
48	1-7/8	62	341	77	192	67	25
50	2	65	355	80	200	70	30
52	2-1/16	68	370	83	208	73	35
54	2-1/8	70	383	86	216	76	40
56	2-3/16	73	398	90	224	78	45
58	2-1/4	75	412	93	232	81	50
60	2-3/8	78	426	96	240	84	53
62	2-1/2	81	440	99	248	87	60
64	2-9/16	83	454	102	256	90	65
66	2-5/8	86	469	106	264	92	70
68	2-11/16	88	483	109	272	95	80
70	2-3/4	91	497	112	280	98	87
73	2-7/8	95	518	117	292	102	95
76	3	99	540	122	304	106	110
78	3-1/16	101	554	125	312	109	120
81	3-3/16	105	575	130	324	113	130
84	3-5/16	109	596	134	336	118	147
87	3-7/16	113	618	139	348	122	160

Remark: Shackles of sizes other than those listed above are also available upon request.

How to order: 23 - 11 - 78

Joining shackle for 28(d) mm stud link anchor chain cable, ST2 with certificate

Note: When ordering, be sure to state the size of the anchor chain for which these shackles are to be used. These shackles are proof and break tested to the same specification loads as the anchor chain with which they are used.

Anchor Shackles

Grilletes de Ancla アンカーシャックル 錨钩环

$D = 1.4d + \text{Tolerance}$

$L = 9d$

$W = 5.05d + \alpha$

$P = 0.4d$

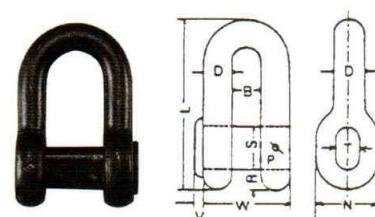
$R = 0.8d$

$N = 3.0d$

$S = 2.1d$

$V = 0.3d$

$T = 1.4d$



Size of chain Applied (d)		D 1.4d	L 9d	S 2.1d	W 5.05d + α	B	Weight/ pce
m/m	in	m/m	m/m	m/m	m/m	m/m	kg
28	1-1/8	39	252	59	151	73	9.4
30	1-3/16	42	270	63	160	76	11.6
32	1-1/4	45	288	67	169	79	12.7
34	1-5/16	48	306	71	180	85	15.8
36	1-3/8	50	324	76	187	86	18.4
38	1-1/2	53	342	80	196	90	21.4
40	1-9/16	56	360	84	210	98	25.1
42	1-5/8	59	378	88	219	101	30
44	1-3/4	62	396	92	226	103	35
46	1-13/16	64	414	97	236	107	40
48	1-7/8	67	432	101	244	110	45
50	2	70	450	105	255	115	55
52	2-1/16	73	468	109	263	118	60
54	2-1/8	76	486	113	273	122	65
56	2-3/16	78	504	118	283	127	70
58	2-1/4	81	522	122	293	131	80
60	2-3/8	84	540	126	303	135	90
62	2-1/2	87	558	130	314	140	100
64	2-9/16	90	576	134	324	141	115
66	2-5/8	92	594	139	334	149	130
68	2-11/16	95	612	143	344	153	140
70	2-3/4	98	630	147	354	158	150
73	2-7/8	102	657	153	369	165	165
76	3	106	684	160	384	171	185
78	3-1/16	109	702	164	394	176	200
81	3-3/16	113	729	170	410	180	220
84	3-5/16	118	756	176	425	188	245
87	3-7/16	122	783	183	440	195	270

Remark: Shackles of sizes other than those listed above are also available upon request.

How to order: 23 - 11 - 79

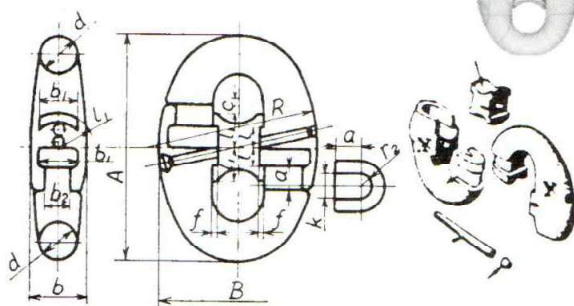
Anchor shackle for 28(d) mm stud link anchor chain cable, ST2 with certificate

Note: When ordering, be sure to state the size of the anchor chain for which these shackles are to be used. These shackles are proof and break tested to the same specification loads as the anchor chain with which they are used.

Kenter Shackles

Grilletes de Tipo Kenter

ケンターシャックル 双半式连接钩环



Dimension

Unit: mm

A	B	a	b	b ₁	b ₂	C
6d	4.2d	0.67d	1.52d	1.1d	0.73d	Approx. 0.415d
f	k	l	l ₁	R	r ₂	
0.106d	0.73d	0.5d	Approx. 0.915d	4.4d	0.36d	

Remark: "d" is the nominal diameter of the chain.

How to order: 23 - 11 - 80

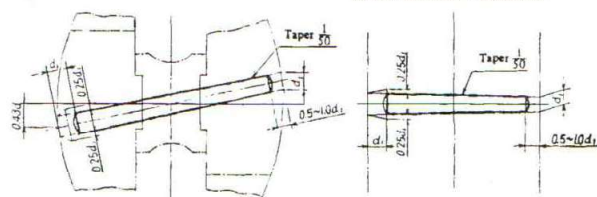
Kenter shackle for diam. mm(d) stud link anchor chain cable, (class of chain) with certificate

Taper Pins

Pasadores Cónicos テーパーピン 圆柱销

For Kenter Shackle

For Joining Shackle and Anchor Shackle



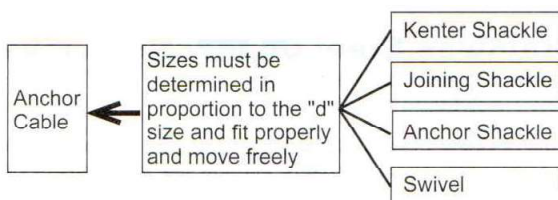
Dimension

Unit: mm

Nominal dia. of chain	24-28	30-38	40-46	48-54	56-62	64-70	73-78	80-87
Kind of shackle								
Joining shackle d1	6	8	10	12	14	16	18	20
Kenter shackle and anchor shackle d1	8	10	12	14	16	20	22	24

Chain & Shackle

Cadena y Grillete チェーン & シャックル 链条和卸扣



Guide of How to order

When ordering, please fill the following column.

A	B	C	D	E	F	G
A. Name : <u>Anchor Chain</u> B. Kind : <u>Stud Link, Studless Link</u> C. Size : <u>Nominal Dia. "d"</u> D. Length : <u>27.5 Mtrs. 25 Mtrs</u> E. Class & Proof Test Load : <u>ST2, ST3</u> F. Accessory : <u>Kenter Shackle, Joining Shackle</u> <u>Anchor Shackle, Swivel</u> G. Certificate : <u>NK, ABS, Lloyd, NV, etc.</u>						

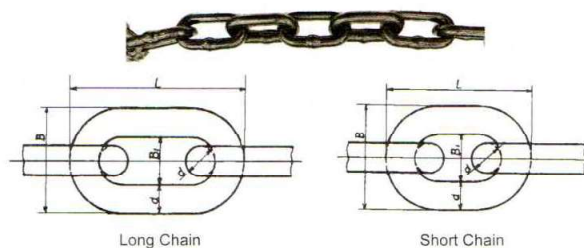
Chains for General Use

(Ref. JIS F 2106-1988)

Cadenas de Uso General

船用一般チェーン 普通无档链环 (长环)

Galvanized, rolled steel chains for general uses such as for guard or fence chains or for accommodation chain ladder slings. Two types of chains, short link and long link are available. Please specify the total length of the chain required in meters when ordering.



							Unit Per Mtr.	
CODE	Nom. Size	Dimensions mm				SWL Tons	Wt. Kg. Per Mtr.	
		d	L	B	B1			
Long Link								
23 11 01	6	6	36	21	9	0.2	0.7	
02	8	8	48	28	12	0.4	1.2	
03	9	9	54	32	14	0.6	1.6	
04	11	11	66	39	17	0.8	2.6	
05	13	13	78	46	20	1.2	3.4	
23 11 06	16	16	96	56	24	1.8	5.1	
07	19	19	114	67	29	2.5	7.3	
Short Link								
23 11 11	6	6	30	21	9	0.2	0.8	
12	8	8	40	28	12	0.4	1.4	
13	9	9	45	32	14	0.6	1.8	
14	11	11	55	39	17	0.8	2.9	
15	13	13	65	46	20	1.2	4.0	
23 11 16	16	16	80	56	24	1.8	5.9	
17	19	19	95	67	29	2.5	8.3	

General Purpose Chains

Cadenas para Propósitos Generales 雑用チェーン 铁链条

General purpose chain for ordinary applications not required high tensile strength. Used for tow chains, binding or tie down chains made of stainless steel or brass. Please specify type of chain, kind of material, size of link, required working load, required overall length, etc.

Type No.	Type Name	Appearance	Size
1	Welded Curb		
2	Double Loop Coil		
3	Heavy Link		
4	Sash		

23

Stainless Steel

Unit Per Mtr.

CODE	Type		Body Diam. mm	A×B×C mm	Weight gm/ mtr	Recom- mend- able Working Load Kg
	No.	Name				
23 11 21	1	Welded Curb	2.0	8.7×3.4	82	60
23 11 22	2	Double Loop Coil	2.0	28×5.5	86	80
23 11 23	3	Heavy Link	4.0	26×6.0	266	200
24			5.0	27×8.0	430	250
25			6.0	31×9.0	633	350
23 11 26	4	Sash	0.5 (Thick)	15.2×2.2×5.5	24	35
27			0.7 (Thick)	14.8×2.7×6.4	46	70
28			0.8 (Thick)	14.4×4.0×8.0	52	70

Brass

Unit Per Mtr.

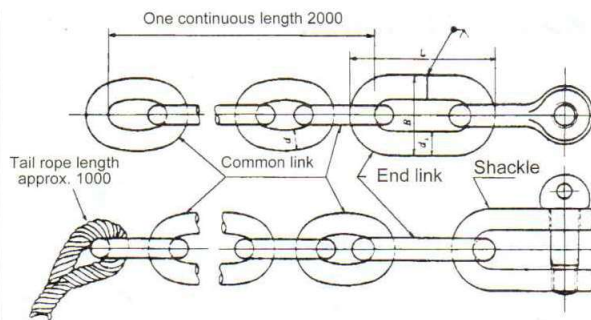
CODE	Type		Body Diam. mm	A×B×C mm	Weight gm/ mtr	Recom- mend- able Working Load Kg
	No.	Name				
23 11 41	1	Welded Curb	2.0	8.9×3.4	88	50
23 11 42	2	Double Loop Coil	2.0	28×5.5	88	60
23 11 43	4	Sash	0.5 (Thick)	15.2×2.2×5.5	28	15
44			0.7 (Thick)	14.8×2.7×6.4	46	30
45			0.8 (Thick)	14.4×4.0×8.0	66	40

Chain Stoppers

(Ref. JIS F3406-1990)

Bozas de Cadena チェーンストッパー 止链器 (装货用)

A length of chain, usually 2 mtrs, used for wire ropes for cargo handling or the mooring of ships. One end is furnished with a tail rope and the other end with an end link and shackle.



Unit Per Lgh.

CODE	Chain Diam. mm	End Link Diam. mm	Shackle Type & Size mm	S.W.L. Tons	Wt. Per Lgh. Kg	Applicable with rope Diam. mm
------	----------------------	----------------------------	------------------------------	----------------	-----------------------	-------------------------------------

Cargo Handling (Chain Length 2 mtrs)

23 11 31	8	9	SC 10	0.6	3.66	16 - 18
32	10	13	SC 12	0.8	5.44	-

Mooring (Chain Length 2 mtrs)

23 11 35	6	8	SD 10	0.3	2.28	16
36	8	9	SD 12	0.6	3.66	18
37	10	13	SD 14	0.8	5.44	20-22.4
38	12	13	SD 16	1.0	8.24	24-28
39	14	16	SD 20	1.5	10.70	24-28
23 11 40	16	19	SD 22	2.0	13.80	24-28

**Connecting Links
(Missing Links)**

Enlaces de conexión (Enlaces que faltan)

コネクティング・リンク 缺失の链接



Drop forged, heat treated steel. Used for the temporary or permanent repair of chains through the replacement of individual lengths. When ordering, please specify whether galvanized or black steel links will be required.

Unit Per Pc.

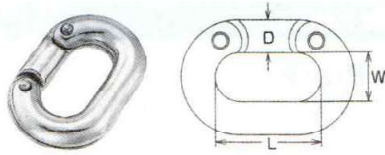
Black			Galvanized		
CODE	Link Diam. mm	Overall Dimension mm	CODE	Link Diam. mm	Overall Dimension mm
23 11 51	8	40 × 28	23 11 66	8	40 × 28
52	9	45 × 32	67	9	45 × 32
53	11	56 × 38	68	11	56 × 38
54	13	59 × 42	69	13	59 × 42
55	16	77 × 54	70	16	77 × 54
23 11 56	19	95 × 65	23 11 71	19	95 × 65
57	22	112 × 75	72	22	112 × 75
58	25	124 × 88	73	25	124 × 88
59	28	138 × 97	74	28	138 × 97
60	32	158 × 113	75	32	158 × 113
23 11 61	38	187 × 135	23 11 76	38	187 × 135

Stainless Steel Connecting Links

Eslabones de Conexión de Acero Inoxidable

ステンレス製連結リンク 不锈钢连接件

Made of stainless steel to resist rust. Used for the temporary or permanent repair of chains through the replacement of individual lengths.



Unit Per Pc.

CODE	Working Load Limit		Size mm			Weight gm
	kgf	kN	D	L	W	
23 11 85	200	1.96	8	24	12	35
86	300	2.94	10	30	14.5	60
87	400	3.92	11	33	17	86
88	550	5.39	13	37	19	128
89	800	7.84	16	48	24	259

Steel Round Rings

Argollas (Anillas) de Acero モッコリング 鋼圓環

Flush butt welded steel ring for use with a cargo sling, cargo hook, chain, etc. Available in original black steel colour only.



Unit Per Pc.

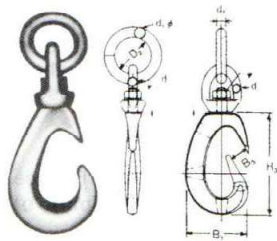
CODE	Diam. x I.D. mm	Wt. kg	CODE	Diam. x I.D. mm	Wt. kg
23 11 91	25 x 125	1.82	23 11 95	36 x 150	4.70
92	28 x 125	2.32	96	38 x 150	5.30
93	32 x 125	3.11	97	50 x 200	12.0
94	32 x 150	3.60			

5. Cargo Hooks

Cargo Hooks with Swivel Eye (Ref. JIS F2105-1990)

Gancho de Carga Giratorio
スイベル カーゴフック
转环式吊货钩

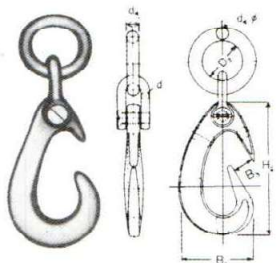
Made of high tensile, heat treated carbon steel. Provided in its original color with a swivel and ring. Specify the required S.W.L. when ordering.



Unit Per Pc.

CODE	SWL		Size mm			Weight kg
	kN	tf	Hook B ₃	Ring D ₁	D ₂	
23 12 01	9.8	1	38	22	75	6.0
02	19.6	2	44	25	85	12.0
03	29.4	3	47	32	95	20.0
04	49	5	50	42	120	36.3

Cargo Hooks with Shackle (Ref. JIS F2105-1990)

Gancho de Carga Grillete
固定式カーゴフック
卸扣式帶圓環吊貨鉤

Made of high tensile, heat treated carbon steel. Provided in its original colour with a countersunk screw pin shackle and ring. Please specify the required S.W.L. when ordering.

Unit Per Pc.

CODE	SWL		Size mm			Weight kg
	kN	tf	Hook B ₃	Ring D ₁	D ₂	
23 12 06	9.8	1	38	22	75	6.0
07	19.6	2	44	25	85	11.0
08	29.4	3	47	32	95	18.0
09	49	5	50	42	120	33.0

Seattle Pattern Cargo Hooks

Gancho de Carga, Modelo "Seattle"

シャトル式(ケンカ巻)カーゴフック

升降式吊货钩(双吊杆用)

Drop forged steel provided in its original colour. Composed of a swivel eye and ring connected to two eyes and swivels. When ordering, please specify the required safe working load of the cargo hook from the sample given below.



Unit Per Pc.

CODE	S.W.L. Ton	Estimated Weight Kg	Hook Inner Length mm.	Ring I.D. mm.
23 12 11	3	20	180	100
12	5	40	220	140
13	10	60	250	160

Hoist Eye Hooks with Latch

Gancho de Carga con Ojo y con Gatillo

鍛造環及びバネ付フック 眼環式安全吊貨鉤

Drop forged and heat treated. Fitted with a safety spring latch.



Unit Per Pc.

CODE	S.W.L. Ton	Eye ID mm	Opening mm	Overall Length mm
23 12 31	1/2	19	25	127
32	1	25	32	150
33	2	33	36	183
34	3	37	40	219
35	5	49	52	277
23 12 36	8	60	64	356
37	10	68	71	397

Swivel Eye Cargo Hooks with Latch

Gancho de Carga Giratorio con Gatillo

スイベル式カーゴフック 转环式安全吊貨鉤

Drop forged and heat treated from a special bar steel. When ordering, please specify the safe working load required for the use of the cargo hooks.



Unit Per Pc.

CODE	S.W.L. Ton	Overall		Throat Opening mm	Swivel Ring Clear Width mm
		Length mm	Width mm		
23 12 51	1	168	81	26	38
52	1-1/2	194	92	27	44
53	2	206	104	31	44
54	3	244	125	38	51
55	5	315	165	48	64

Safety Latch Hooks

Gancho de Carga con Gatillo de Seguridad
ラッチロックフック 安全套锁钩

Drop forged and heat treated. When released, the latch closes automatically and will not open unless a release button on the body is pushed. When ordering, please specify the safe working load from the examples in the table below.



Unit Per Pc.

CODE	S.W.L. Ton	Eye Diam.		Opening mm	Overall Length mm
		I.D. mm	Width mm		
23 12 41	1.2	22	11.5	29	141.5
45	2	28	14	37	176
42	3.2	34	16	45	214
43	5.3	44	20	55	266
44	8	56	26	62	328
23 12 46	10	60	30	68	382
47	12	70	32	80	414
48	17	80	35	100	445
49	20	90	40	120	526

23

Swivel Type Latch Lock Hooks

Gancho de Seguridad de Cierre Giratorio
スイベル式ラッチロックフック 轉環式鉤鎖

Drop forged and heat treated from a special bar steel. Safety hook with latch type closing mechanism which automatically closes when hook is loaded. Unlocking the trigger button on the hook will easily release the lock and open the hook. When ordering, please specify the safety working load required for the use of the cargo hooks.



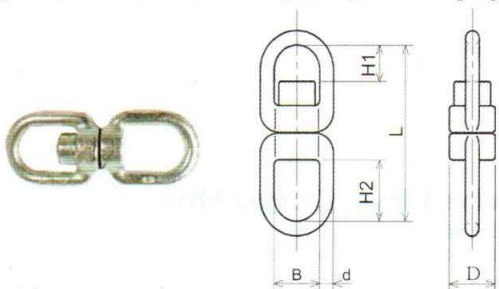
Unit Per Pc.

CODE	Working Load Limit Ton	Overall Length mm	Throat Opening mm	Swivel Ring ID mm
23 12 61	1.2	181	29	33 x 22.5
62	2.0	220	37	38 x 27
63	3.2	263	45	44 x 37
64	5.3	339	55	47 x 47
65	8.0	412	62	62 x 65
23 12 66	10.0	462	68	72 x 69

Forged Steel Regular Swivels

Cabeza Giratoria Regular de Hierro Forjado 鍛造スイベル 鍛造鋼轉環

Forged steel swivel for chain or ropes to prevent tangling.



Unit Per Pc.

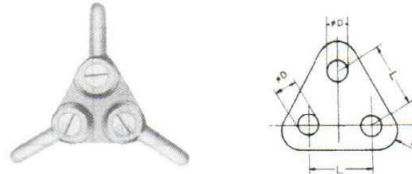
CODE	Nominal Size	Size mm			Working Load Limit Ton	Weight kg
		L	B	D		
23 12 71	9	95	30	30	0.4	0.32
72	13	125	32	35	0.7	0.65
73	16	145	37	38	1.0	1.2
74	19	180	42	50	1.5	2.1
75	22	200	47	55	2.0	2.9
23 12 76	25	228	54	60	2.5	4.2
77	28	250	59	65	3.0	6.4
78	32	285	65	80	4.5	10.0
79	38	335	75	85	6.0	15.6
80	44	362	84	102	8.0	19.0

6. Delta Plates

Delta Plates (Monkey Face)

Placas Triangulares デルタプレート (三角板) 三角板

Equilateral triangles designed for cargo working or towing. Made from drop forged, natural coloured steel plate with 3 holes for attaching shackles.



Unit Per Pc.

CODE	S.W.L. ton	Dimensions mm				Countersink Shackle mm
		L	Dφ	R	Thick	
23 12 81	2.0	54	23	25	22	18
82	3.0	66	28	30	25	22
83	4.8	84	36	39	35	28
84	7.0	102	42	47	40	34
85	10.0	120	50	55	45	40

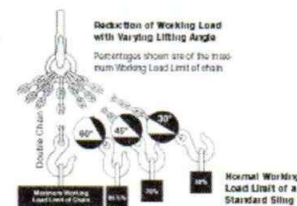
7. Sling Chains & Hooks

Sling Chains

Eslinga de Cadena スリングチェーン 链条

Available single leg type, 2-leg type, or 3-leg type sling chain suitable for overhead lifting. Slings are furnished preassembled to the alloy steel chain with link or hook at both ends. 2-leg and 3-leg type chain slings provide more stability and strength than single leg chain sling. All attachments are mechanically connected to chain. The drop forged identification tag is attached to the master end coupling link of each chain sling. Please specify chain size, type and reach when ordering.

How Lifting Angles Reduce
Working Load Limits of
Slings



Cam-Alloy Chain Specifications

Total Size		Nominal Dimensions			Working Load Limit		Weight Lbs/ 100 ft.	Links/ ft.
Inch	mm	Material Diam. mm	Inside Dimensions mm					
			Length	Width	Lbs	Kg		
7/32	5.5	6	18	8	2,100	970	43	17.5
9/32	7	7	22	10	4,300	1,950	74	13.8
3/8	10	10	31	14	8,800	3,990	148	10.0
1/2	13	13	40	19	15,000	6,800	250	7.8
5/8	16	16	49	22	22,600	10,250	379	6.5
3/4	20	20	61	26	35,300	16,000	610	4.9
7/8	22	22	69	31	42,700	19,400	775	4.4
1	26	25	71	36	47,700	21,600	965	4.3
1-1/4	32	32	89	44	72,300	32,800	1,525	3.5

Single Leg Type



Chain Size		Oblong Link			Working Load Limit	
Inch	mm	Nominal Size	Inside Dimensions			
		Material mm	mm			
			Width	Length	Lbs	Kg
7/32	5.5	10	38	76	2,100	970
9/32	7	15	64	127	4,300	1,950
3/8	10	21	76	152	8,800	4,000
1/2	13	29	102	203	15,000	6,800
5/8	16	29	102	203	22,600	10,300
3/4	20	32	102	203	35,300	16,000
7/8	22	41	133	267	41,700	19,400
1	26	48	152	305	47,700	21,600
1-1/4	32	51	178	356	72,300	32,800

2-Leg Type

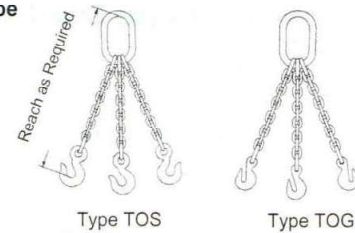


Chain Size		Oblong Link		
Inch	mm	Nominal Size Material mm	Inside Dimensions mm	
			Width	Length
7/32	5.5	10	38	76
9/32	7	15	64	127
3/8	10	21	76	152
1/2	13	29	102	203
5/8	16	32	102	203
3/4	20	41	133	267
7/8	22	48	152	305
1	26	51	178	356
1-1/4	32	57	203	406

Working Load Limit

Chain Size		Working Load Limit					
		(a) at 60°		(a) at 90°		(a) at 120°	
Inch	mm	Lbs	Kg	Lbs	Kg	Lbs	Kg
7/32	5.5	3,600	1,630	3,000	1,360	2,100	970
9/32	7	7,400	3,400	6,100	2,700	4,300	1,950
3/8	10	15,200	6,900	12,400	5,600	8,800	3,990
1/2	13	26,000	11,800	21,200	9,600	15,000	6,800
5/8	16	39,100	17,700	32,000	14,500	22,600	10,300
3/4	20	61,100	27,700	49,900	22,600	35,300	16,000
7/8	22	74,000	33,500	60,400	27,350	42,700	19,400
1	26	82,600	37,900	67,400	31,000	47,700	21,600
1-1/4	32	125,200	56,800	102,200	46,400	72,300	32,800

3-Leg, 4-Leg Type



Chain Size		Oblong Link		
Inch	mm	Nominal Size Material mm	Inside Dimensions mm	
			Width	Length
7/32	5.5	15	64	76
9/32	7	21	76	127
3/8	10	29	102	152
1/2	13	32	102	203
5/8	16	41	133	203
3/4	20	48	152	267
7/8	22	51	178	305
1	26	57	203	356
1-1/4	32	70	229	406

Working Load Limit

Chain Size		Working Load Limit					
		(a) at 60°		(a) at 90°		(a) at 120°	
Inch	mm	Lbs	Kg	Lbs	Kg	Lbs	Kg
7/32	5.5	5,450	2,470	4,450	2,020	3,140	1,430
9/32	7	11,200	5,100	9,100	4,100	6,450	2,900
3/8	10	22,800	10,300	18,600	8,400	13,200	6,000
1/2	13	39,000	17,700	31,800	14,400	22,500	10,200
5/8	16	58,700	26,600	47,900	21,700	33,900	15,400
3/4	20	91,700	41,600	74,900	34,000	53,000	24,000
7/8	22	110,900	50,250	90,600	41,050	64,000	29,050
1	26	123,900	56,900	101,200	46,500	71,500	32,800
1-1/4	32	187,800	85,200	153,400	69,600	108,400	49,200

How to order chain slings.

23 - 11 - 77: Chain sling with the following information;

1. Determine the maximum load to be lifted.
2. Refer to the table above and choose the proper type of chain sling (single, double, etc) dictated by the size, shape and weight of the load.
3. Estimate the approximate angle between a leg of the sling and the load during operation.
4. Select proper attachments (hooks and master links) for your chain sling.
5. Determine the overall reach from bearing point on master link to bearing point on attachment.
6. Refer to the Working Load Limit Chart and to your predetermined angle of the type sling you have selected.
7. Choose the chain size which meets your requirements.

Note: Angle to the load on multiple leg slings will be 60° or greater as long as the distance between lifting eyes of load is not greater than reach shown on identification tag.

Eliminator Single/Double Hooks

A-1361/A-1362

Enganche sencillo/doble Eliminator

エリミネーターフック ELIMINATOR 単 / 双挂钩

The Crosby® ELIMINATOR® combines selected features and functionality of a master link, connecting link, grab hook and adjuster legs to provide you with one fitting that is suitable for applications that require an adjustable length chain sling. Made of forged alloy steel - quenched and tempered. It can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g)(1)(i) (A) and 1926.1501(g)(4)(iv) (B). Suitable for use with Grade 100 and Grade 80 chain. Use the A-1361 and A-1362 in combination to make 3 leg chain slings. All sizes are RFID (Radio Frequency Identification) equipped.



A-1361 Single Hook



A-1362 Double Hook

A-1361 Single Hook

Unit Per Pc.

CODE	Chain Size		Frame Size	Working Load Limit (t)	Weight Each (kg)
	Inch	mm			
23 43 40	1/4	7	2	2.0	1.76
41	5/16	8	2	2.6	1.76
42	3/8	10	3	4.0	2.94
43	1/2	13	4	6.8	6.12
44	5/8	16	5	10.3	10.9

Note : Proof tested at 2.5 times the Working Load Limit

Name of Mfr. : Crosby®

A-1362 Double Hook

Unit Per Pc.

CODE	Chain Size		Frame Size	Working Load Limit (t)	Weight Each (kg)
	Inch	mm			
23 43 45	1/4	7	2	3.9	2.13
46	5/16	8	2	5.0	2.13
47	3/8	10	3	8.0	3.67
48	1/2	13	4	13.6	7.84
49	5/8	16	5	20.5	14.3

Note : Proof tested at 2 times the Working Load Limit

Name of Mfr. : Crosby®

Clevis Sling Hooks

L-1339

Gancho de Clevis Sling

クレビススリングフック 吊鉤

Forged alloy steel quenched and tempered. Suitable for use with Grade 100 and Grade 80 chain.



L-1339

Unit Per Pc.

CODE	Chain Size (mm)	Working Load Limit (t)	Weight (kg)
23 43 50	6	1.5	0.29
51	7	2.0	0.72
52	8	2.6	0.71
53	10	4.0	1.17
55	13	6.8	2.39
23 43 56	16	10.3	4.45
57	18-20	16.0	8.30
58	22-23*	21.0	11.2

*22-23mm size does not have cam, latch attaches to unique pin.

Name of Mfr. : Crosby®

Cradle Grab Hooks

A-1338

Ganchos de Agarre para Cunas

クレードルグラブフック 揺籃抓鉤

Forged alloy steel quenched and tempered. Innovative cradle design allows for 100% efficiency of Grade 100 chain, suitable for use with Grade 100 and 80 chain.



A-1338

Unit Per Pc.

CODE	Chain Size (mm)	Working Load Limit (t)	Weight (kg)
23 43 61	7	2.0	0.20
62	8	2.6	0.45
63	10	4.0	0.82
65	13	6.8	1.18
66	16	10.3	3.18

Name of Mfr. : Crosby®

Eye Hooks

L-320AN

Ganchos de ojo アイフック 挂钩

Alloy steel quenched and tempered.



L-320AN

Unit Per Pc.

CODE	Opening Size (mm)	Working Load Limit (t)	Weight (kg)
23 43 71	22.6	1	0.28
72	23.1	1.5	0.40
73	25.4	2	0.65
75	27.7	3	0.94
76	34.5	5	1.95
23 43 77	40.9	7	3.76
78	53.0	11	6.80
79	57.5	15	9.42
80	76.5	22	17.9

Name of Mfr. : Crosby®

Latching Eye Hooks

S-315A

Gancho con Seguro

ラッチングアイフック

鑄造彈簧鎖型掛鉤 (帶眼)

Hook is forged alloy steel, quenched and tempered with integrated heavy duty latch.



S-315A

Unit Per Pc.

CODE	Chain Size (mm)	Working Load Limit for Wire Rope (Short Tons)	Overall Length mm	Weight (kg)
23 43 81	6	1	104.6	0.25
82	7 - 8	2	144.9	0.59
83	10	3	186.5	1.18
84	13	5	228.4	2.13
85	16	7	279	3.88

Name of Mfr. : Crosby®

Eye Hooks

with Locking Latch S-1316

Ganchos de Ojo con Pestillo de Bloqueo S-1316

ロック・ラッチ付きアイフック 帶鎖和門的挂钩

Forged alloy steel, quenched & tempered.

Recessed trigger design is flush with the hook body, protecting the trigger from potential damage. Suitable for use with Grade 100 and Grade 80 chain.



CODE	Chain Size (mm)	Grade 10 Alloy Chain W.L.L (t) (4:1)	Working Load Limit (t) (5:1)	Overall Length (mm)	Unit Per Pc.
					Weight Each (kg)
23 46 01	6	1.45	1.00	100	0.39
02	7 - 8	2.60	1.90	135	0.82
03	10	4.00	2.50	167	1.54
04	13	6.80	5.62	209	2.72
05	16	10.3	7.53	256	6.83
23 46 06	18-20	16.0	9.98	274	8.61
07	22	20.0	12.0	317	12.70
08	26	27.1	-	371	22.45

Name of Mfr.: Crosby®

Swivel Hooks

S-1326

Ganchos giratorios スイベルフック 旋轉挂钩

Forged alloy steel, quenched & tempered.

The S-1326 hook is a positioning device and is not intended to rotate under load. Rated for both wire rope and for use with Grade 80/100 chain.



CODE	Chain Size (mm)	Grade 10 Alloy Chain W.L.L (t) (4:1)	Working Load Limit (t) (5:1)	Overall Length (mm)	Unit Per Pc.
					Weight (kg)
23 46 11	6	1.45	1.16	156	0.57
12	7 - 8	2.60	2.1	193	1.18
13	10	4.00	3.2	224	2.13
14	13	6.80	5.4	284	3.92
15	16	10.3	8.2	328	7.71
23 46 16	18-20	16.0	12.8	358	10.9
17	22	20.0	16.0	417	13.2

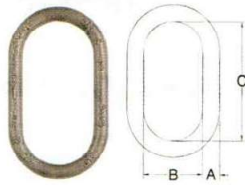
Name of Mfr.: Crosby®

Master Links

A-342

Anillas Maestra
マスターリンク 通用吊環

Made of alloy steel, quenched & tempered.



CODE	Diam. Inches	Dimension (mm)			Working Load Limit (t)	Weight (kg)
		A	B	C		
23 44 01	1/2	13	71.1	127	3.40	0.59
02	5/8	16	76.2	152	4.00	0.69
03	3/4	19	81.3	152	5.60	0.91
09	7/8	22	95.3	162	6.90	1.50
04	1	26	109	191	11.8	2.77
05	1-1/4	32	140	241	17.7	5.44
23 44 06	1-1/2	38	150	267	27.7	8.44
07	1-3/4	44	152	305	38.5	11.4
08	2	51	178	356	46.5	16.8

Name of Mfr.: Crosby®

Weldless Sling Links

G-341

Eslabones de Forma de Pera
スリングリンク 無縫吊環

G-341

Forged from a special quality carbon and alloy bar steel. Weldless and available in galvanized (G) alloy steel.

CODE	Diam. (mm)	Working Load Limit Single Pull (t)	Unit Per Pc.
			Weight (kg)
23 44 11	10	0.82	0.10
12	13	1.32	0.25
13	16	1.91	0.48
14	19	2.72	0.85
15	22	3.76	1.25
23 44 16	25	4.90	1.97
17	32	7.60	3.45
18	35	9.30	5.13

Name of Mfr.: Crosby®

Connecting Links

A-1337

Enlaces de Conexión
コネクティングリンク 连接链接

Forged alloy steel, quenched and tempered. Locking system that provides for simple assembly and disassembly, no special tools needed. Suitable for use with both Grade 80 and 100 chain.



A-1337

CODE	Chain Size (mm)	Working Load Limit (t)	Unit Per Pc.
			Weight (kg)
23 44 31	7	2.0	0.13
32	8	2.6	0.19
39	10	4.0	0.35
33	13	6.8	0.73
34	16	10.3	1.41
23 44 35	20	16.0	2.90
36	22	19.4	3.56
37	26	27.1	5.01
38	32	41.0	9.53

Name of Mfr.: Crosby®

Alloy Chain

Spectrum 8 & 10

Cadena Grado アロイチェーン 鑄造鏈

Made from a heat treated alloy steel. Spectrum 8 is finished with black paint. Spectrum 10 is 25% stronger than grade 80 alloy chain and finished with red paint for 6-16mm and black paint for 20-32mm.



Spectrum 8 (Grade 80)

CODE	Chain Size (mm)	Working Load Limit (t)	Meters per Drum	Unit Per Mtr.
				Weight per Meter (kg)
23 44 41	6	1.1	200	0.8
30	7	1.5	200	1.1
42	8	2.0	200	1.4
43	10	3.2	200	2.3
44	13	5.4	150	3.8
23 44 45	16	8.2	100	5.6
46	19	11.6	50	7.8
40	20	12.8	50	9.9
47	22	15.5	50	10.6
48	23	16.0	50	11.8
23 44 49	26	21.6	50	14.8
50	32	32.8	50	21.6

Name of Mfr.: Crosby®

23

Spectrum 10 (Grade 100)

CODE	Chain Size (mm)	Working Load Limit (t)	Meters per Drum	Unit Per Mtr.
				Weight per Meter (kg)
23 44 10	6	1.5	200	0.9
19	7	1.95	200	1.2
20	8	2.6	200	1.6
29	10	4.0	200	2.5
69	13	6.8	150	4.1
23 44 70	16	10.3	100	6.2
96	20	16.0	50	9.4
97	23	21.0	50	13.0
98	26	27.1	50	16.4
99	32	41.0	50	25.8

Name of Mfr.: Crosby®

Forged Regular Swivels
G-402

Eslabón Giratorio Regular
鍛造レギュラスイベル
鍛造通用型旋環



G-402

Quenched, tempered and hot dip galvanized.

CODE	Body Size (mm)	Working Load Limit (t)	Unit Per Pc.
			Weight (kg)
23 44 51	6	0.39	0.10
52	8	0.57	0.18
53	10	1.02	0.32
54	13	1.63	0.60
55	16	2.36	1.13
23 44 56	19	3.27	1.82
57	22	4.54	2.83
58	25	5.67	4.06
59	32	8.16	7.42
60	38	20.50	20.80

Name of Mfr.: Crosby®

Sling Saver Web Connectors
S-280

Conectores de redes para economizar eslingas
スリング・金属金具接続補助コネクター
吊绳与金属配件连接用辅助连接器

Increasing synthetic sling efficiency as compared to standard anchor and chain shackle bows and conventional eye hooks. This allows 100% of the slings rated Working Load Limit to be achieved. Allowing better load distribution on internal fibers.



Durable vinyl cover that protects sling at eye, and keeps sling positioned correctly on spool.

CODE	Round Sling Size (No.)	Web Slings			Working Load Limit (t)	Weight Each (kg)
		Webbing Width (mm)	Eye Width (mm)	Ply		
23 44 61	1 & 2	50	50	2	2.95	0.68
62	3	35	75	2	4.08	0.86
63	4	50	100	2	5.67	1.32
64	5 & 6	75	150	2	7.70	2.31

Note : Maximum Proof Load is 2 times the Working Load Limit.
Name of Mfr.: Crosby®

Sling Saver Web Sling Shackles
S-281

Grilletes de eslingas de redes para economizar eslingas
スリング・金属金具間接続用シャックル 吊绳与金属配件连接用卸扣

Designed to connect synthetic web slings and synthetic round slings to eyebolts, pad eyes, and lifting lugs. All alloy construction.



Increased radius of bow gives wider sling bearing surface resulting in an increased area for load distribution, thus: Increasing synthetic sling efficiency as compared to standard anchor and chain shackle bows and conventional eye hooks.

CODE	Round Sling Size (No.)	Web Slings			Working Load Limit (t)	Weight Each (kg)
		Webbing Width (mm)	Eye Width (mm)	Ply		
23 44 65	1 & 2	50	50	2	2.95	0.54
66	3	35	75	2	4.08	0.68
67	4	50	100	2	5.67	1.13
68	5 & 6	75	150	2	7.70	1.95

Note : Maximum Proof Load is 2 times the Working Load Limit.

Name of Mfr.: Crosby®

Sling Saver Web Sling Shackles
S-252/S-253

Grilletes de eslingas de redes para economizar eslingas
スリング・金属金具間接続用シャックル 吊绳与金属配件连接用卸扣

Same shackle to model S-280, but available in size 3.25 to 50 metric tons and in both a Screw Pin and Bolt, Nut and Cotter Pin configuration. Bolt (Pin) has a larger diameter that provides better load distribution.



S-252



S-253

S-252 Bolt Type Sling Shackle

CODE	Round Sling Size (No.)	Web Slings Eye Width (mm)	Working Load Limit (t)	Unit Per Pc.
				Weight Each (kg)
23 44 71	1 & 2	25	3.25	0.64
72	3 & 4	35	6.5	1.09
73	5 & 6	50	8.75	1.86
74	7 & 8	75	12.5	3.63
75	9 & 10	100	20.5	7.67
23 44 76	11 & 12	125	35	15.9
77	13	150	50	26.1

Note : Maximum Proof Load is 2.5 times the Working Load Limit.

Name of Mfr.: Crosby®

S-253 Screw Pin Sling Shackle

CODE	Round Sling Size (No.)	Web Slings Eye Width (mm)	Working Load Limit (t)	Unit Per Pc.
				Weight Each (kg)
23 44 78	1 & 2	25	3.25	0.64
79	3 & 4	35	6.5	1.00
80	5 & 6	50	8.75	1.72
81	7 & 8	75	12.5	3.31
82	9 & 10	100	20.5	6.89
23 44 83	11 & 12	125	35	14.0
84	13	150	50	23.6

Note : Maximum Proof Load is 2.5 times the Working Load Limit.

Name of Mfr.: Crosby®

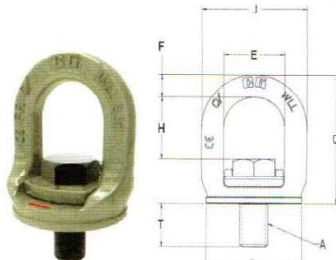
Slide-loc Lifting Points

SL-150

Puntos de suspensión con juntas deslizantes

スライドロックリフティングポイント 滑鎖吊点部品

Available in capacities from 0.5 to 3.2 metric tons. Bail is Forged Alloy Steel – Quenched and Tempered, and swivels 360° degree. Meets the Machinery Directive 2006/42/EC guidelines and is marked with CE accordingly.



Unique locking mechanism makes the lifting point well suited for quick attachment to load surface. No need for tools.

Metric Thread

CODE	Bolt Size	Dimensions (mm)		Effective Thread Projection Length	Working Load Limit (ton)	Weight Each (kg)
		E	H			
23 44 91	M10 × 1.5 × 25	28.0	27.8	14.6	0.50	0.14
92	M12 × 1.75 × 30	33.0	32.9	18.3	0.75	0.23
93	M16 × 2 × 40	37.0	37.0	24.5	1.50	0.50
94	M20 × 2.5 × 50	43.9	43.6	31.0	2.30	0.94
95	M24 × 3 × 60	52.8	52.8	37.0	3.20	1.60

Note : Ultimate load is 4 times the Working Load Limit.
Name of Mfr. : Crosby®

8. Steel Cargo Blocks

Steel Cargo Blocks

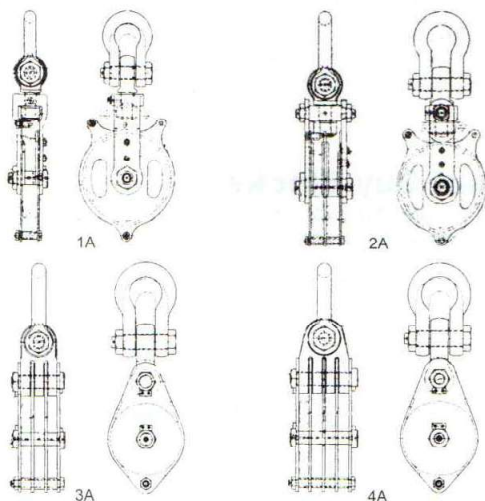
without Becket

(Ref. JIS F 3421-1989)

Bloques de Carga de Acero sin Becket

船用荷役鋼製滑車 ベケット付き

鋼制貨物塊 不帶貝克特



How to order: CODE

Cargo block, steel, without becket, TYPE, NO. of SHEAVE and SHEAVE DIA.

Without Becket

CODE	Type	Sheave		Wire Rope Dia mm	Shackle SB or BB	SWL		Weight kg
		No.	Dia. mm			kN	tf	
23 15 01	1A	1	220	12.5	22	13.7	1.4	16
02			240	14	26	17.2	1.75	21
03			280	16	30	22.1	2.25	33
04			340	20	34	34.3	3.5	52
05			430	25	42	53.9	5.5	84
06			480	28	48	68.6	7.0	123
23 15 07	2A	2	240	14	34	63.7	6.5	47
08			280	16	38	83.4	8.5	67.5
09			340	20	46	127.5	13	114
10			430	25	60	206	21	205
11			480	28	70	275	28	314
23 15 12	3A	3	430	25	75	314	32	382
23 15 13	4A	4	430	25	80	392	40	490
23 15 14	1A	1	410	24	40	49	5	74
15	2A	2	410	24	60	186	19	145
16	3A	3	410	24	70	284	29	302
17	4A	4	410	24	80	353	36	370

Denotes: 1-Single Block, 2-Double, 3-Triple, 4-Quadruple, A-Without Becket

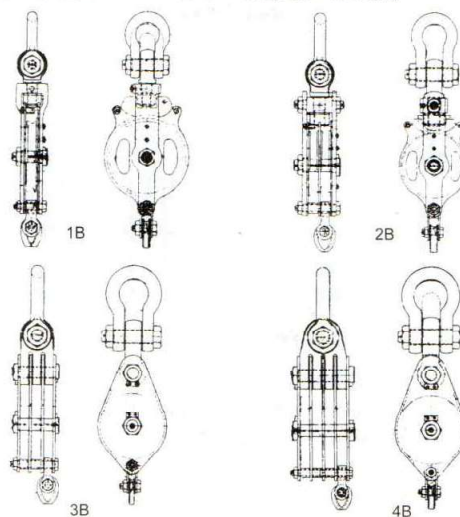
Steel Cargo Blocks

with Becket

(Ref. JIS F 3421-1989)

Bloques de Carga de Acero con Becket

船用荷役鋼製滑車 ベケット付き 鋼制貨梯 帶貝克特



How to order: CODE

Cargo block, steel, with becket, TYPE, NO. of SHEAVE and SHEAVE DIA.

With Becket

CODE	Type	Sheave		Wire Rope Dia mm	Shackle SB or BB	SWL		Weight kg
		No.	Dia. mm			kN	tf	
23 15 21	1B	1	220	12.5	26	13.7	1.4	21
22			240	14	30	17.2	1.75	29
23			280	16	34	22.1	2.25	45
24			340	20	42	34.3	3.5	73
25			430	25	55	53.9	5.5	135
26			480	28	60	68.6	7.0	188
23 15 27	2B	2	240	14	38	78	8	59
28			280	16	40	98	10	79
29			340	20	55	157	16	155
30			430	25	65	245	25	253
31			480	28	75	333	34	381

(to be continued)

CODE	Type	Sheave No.	Dia mm	Wire Rope Dia mm	Shackle SB or BB	SWL		Weight kg
						kN	tf	
23 15 32	3B	3	430	25	80	353	36	416
23 15 33	4B	4	430	25	85	431	44	527
23 15 34	1B	1	410	24	50	49	5	81
35	2B	2	410	24	65	226	23	190
36	3B	3	410	24	75	324	33	309
37	4B	4	410	24	80	392	40	398

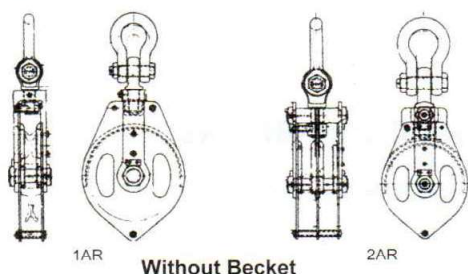
Denotes: 1-Single Block, 2-Double, 3-Triple, 4-Quadruple
B-With Becket

Steel Plate Cargo Blocks

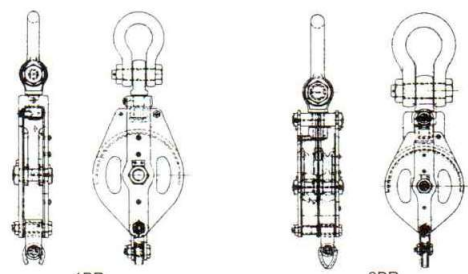
with Roller Bearing
(Ref. JIS F 3429-1995)

Motones de Carga con Rodamiento Tipo Japonés

船用荷役鋳鋼製滑車（ころ軸受入り） 无索环单滑轮轴承吊货滑车



Without Becket



With Becket

How to order : CODE

Cargo block, steel plate, with roller bearing, WITHOUT or WITH BECKET, TYPE, NO. of SHEAVE and SHEAVE DIA

Without Becket

CODE	Type	Becket	Sheave		Dia W.R. mm	Shackle SB or BB	SWL Tons	Wgt. kg
			Nos	Dia mm				
23 15 51	1AR	W/out	S'gle	340	20	34	3.5	58
52				430	25	42	5.5	96
53				480	28	48	7.0	131
23 15 54	2AR	W/out	D'ble	340	20	46	13.0	122
55				430	25	60	21.0	227

Denotes: 1-Single Block, 2-Double Block
R-With Roller Bearing, A-Without Becket

With Becket

CODE	Type	Becket	Sheave		Dia W.R. mm	Shackle SB or BB	SWL Tons	Wgt. kg
			Nos	Dia mm				
23 15 56	1BR	With	S'gle	340	20	42	3.5	77
57				430	25	55	5.5	147
58				480	28	60	7.0	198
23 15 59	2BR	With	D'ble	340	20	55	16.0	160
60				430	25	65	25.0	259

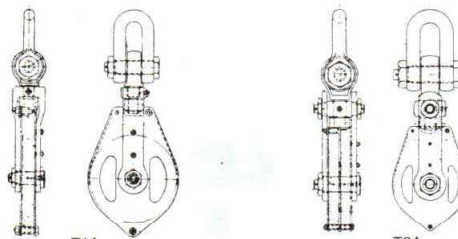
Denotes: 1-Single Block, 2-Double Block
B-With Becket, R-With Roller Bearing

Steel Blocks

for Topping Unit
(Ref. JIS F 3427-1990)

Motones de Carga con Rodamiento

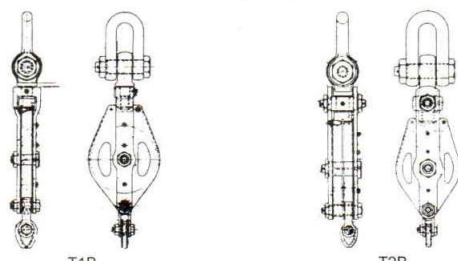
船用荷役つり索鋼製滑車 无索环钢制单滑轮转子轴承吊货滑车



T1A

Without Becket

T2A



T1B

With Becket

T2B

How to order: CODE

Block, steel, for topping unit, WITHOUT or WITH BECKET, TYPE, NO. of SHEAVE and SHEAVE DIA.

Without Becket

CODE	Type	Becket	Sheave		Dia W.R. mm	Shackle	SWL Tons	Wgt. kg
			Nos	Dia mm				
23 15 66	T1A	W/out	S'gle	460	33.5	SB 60	11	143
67	T2A		D'ble	460	33.5	SB 85	42	330

Denotes: T - For Topping Unit
1 - Single Block, 2 - Double Block
A - Without Becket

With Becket

CODE	Type	Becket	Sheave		Dia W.R. mm	Shackle	SWL Tons	Wgt. kg
			Nos	Dia mm				
23 15 68	T1B	With	S'gle	460	33.5	SB 75	11	217
69	T2B		D'ble	460	33.5	SB 90	50	350

Denotes: T - For Topping Unit
1 - Single Block, 2 - Double Block
B - With Becket

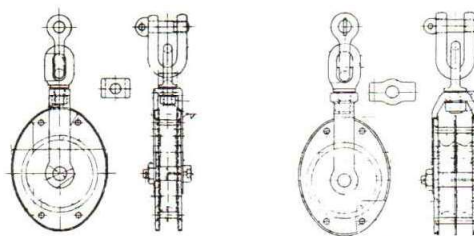
Steel Guy Blocks

with Swivel for Fibre Rope
(Ref. JIS F 3419-1990)

Motones de Cáncamo Giratorio para Cuerda

船用ロープガイ鋼製滑車（スイベル付）

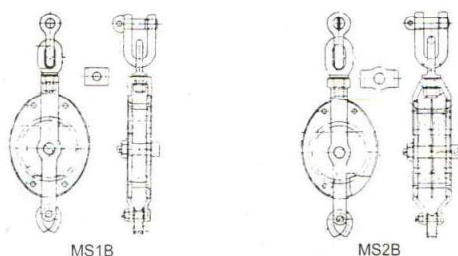
无索环钢制转动式单滑轮导索滑车



MS1A

Without Becket

MS2A



With Becket

How to order: CODE

Guy block, steel, with swivel for fibre rope, **WITHOUT** or **WITH BECKET**, TYPE, NO. of SHEAVE and SHEAVE DIAM.

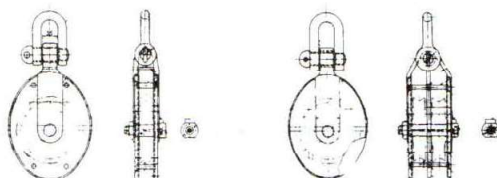
CODE	Type	Becket	Sheave		Dia W.R. mm	Shackle	SWL Tons	Wgt. kg
			Nos	Dia mm				
23 15 71	MS1A	W/out	S'gle	160	24	SD 22	0.50	10.4
72	MS2A	"	D'ble	160	24	SD 24	1.80	14.5
73	MS1B	With	S'gle	160	24	SD 22	0.47	11.49
74	MS2B	"	D'ble	160	24	SD 24	2.20	15.50

Denotes: M - For Hemp or Synthetic Fibre Rope
S - With Swivel
1 - Single Block, 2 - Double Block
A - Without Becket, B - With Becket

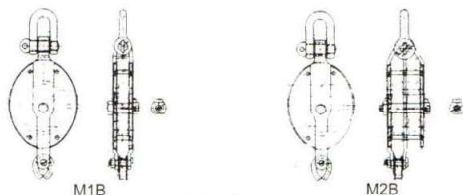
Steel Blocks for Fibre Rope Guy

(Ref. JIS F 3424-1990)

Motones para Cuerda
船用ロープガイ鋼製滑車 船用鋼製違索用轉動滑車



Without Becket



With Becket

How to order: CODE

Block, steel, for fibre rope guy, **WITHOUT** or **WITH BECKET**, TYPE, No. of SHEAVE and SHEAVE DIAM.

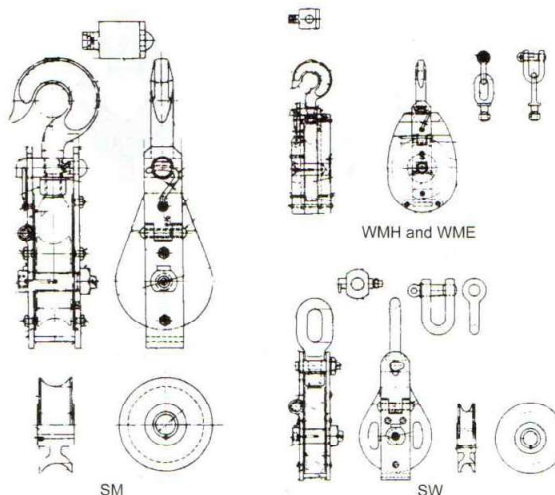
CODE	Type	Becket	Sheave		Dia F.R. mm	Shackle	SWL Tons	Wgt. kg
			Nos	Dia mm				
23 15 76	M1A	W/out	S'gle	160	24	SD 22	0.50	8.88
77	M2A	"	D'ble	160	24	SD 24	1.80	14.4
78	M1B	With	S'gle	160	24	SD 22	0.47	10.0
79	M2B	"	D'ble	160	24	SD 24	2.20	15.0

Denotes: M - For Hemp or Synthetic Fibre Rope
1 - Single Block, 2 - Double Block
A - Without Becket, B - With Becket

Steel Snatch Blocks

(Ref. JIS F 3422-1990)

Pastecas de Acero 船用切欠き滑車 钩头式钢制开口滑车

**How to order: CODE**

Snatch block, steel, for USE, TYPE, SHEAVE DIAM.

							Unit Per Pc.
CODE	Accessory	Nominal Size mm	Sheave Dia mm	Rope Dia mm	SWL		Wgt. kg
					kN	tf	
Type SM - Steel Snatch Block for Hemp or Synthetic Fibre Rope							
23 15 81	With Hook	200	200	65	12.3	1.25	30
Type SW - Steel Snatch Block for Wire Rope							
23 15 82	With Eye	160	160	20	9.8	1.0	12.1
83		200	200	25	19.6	2.0	27.1
84		240	240	28	29.4	3.0	47.6
Type WM - Wooden Snatch Block for Hemp or Synthetic Fibre Rope							
23 15 85	With Hook	260	160	24	4.9	0.5	10.0
86		330	200	30	7.4	0.75	17.8
23 15 87	With Eye	260	160	24	4.9	0.5	10.8
88		330	200	30	7.4	0.75	17.2

Denotes: S - Steel, W - Wood, M - Hemp or Synthetic Fibre Rope
2nd W - Wire Rope, H - Hook, E - Eye
Note: SM, SW - Nominal size is diameter of sheave.
WMH, WME - Nominal size is height of shell.

9. Wood Cargo Blocks

Internal Bound Wood Blocks

(Ref. JIS F 3426-1990)

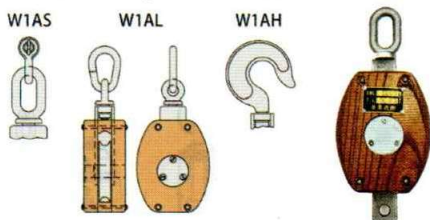
Motones y Cuadernales sin /con Gancho Cáncamo o Grillete
船用鋼帶木製滑車 钩头式单滑轮铁带木滑车

Code Table for Internal Bound Wood Blocks

Becket	Accessory	Model	Code No.
Without Becket	With Hook	W1AH	23 16 01 - 05
		W2AH	23 16 51 - 55
	With Link	W1AL	23 16 06 - 11
		W2AL	23 16 56 - 59
		W3AL	23 17 01 - 05
With Becket	With Shackle	W1AS	23 16 12 - 25
		W2AS	23 16 60 - 69
		W3AS	23 17 06 - 15
	With Hook	W1BH	23 16 31 - 35
		W2BH	23 16 71 - 75
	With Shackle	W1BS	23 16 36 - 45
		W2BS	23 16 76 - 85
		W3BS	23 17 21 - 30

Denotes: A - Without Becket, B - With Becket
H - With Hook, L - With Link
S - With Shackle

Single Sheave without Becket supplied with Hook, Link or Shackle



How to order: CODE

Wood block, single sheave, without becket, SYMBOL, TYPE, and SHELL HEIGHT

Unit Per Pc.									
CODE	Symbol	Type	Becket	Shell Height	Sheave Nos	Size	Rope Size	SWL Tons	Wgt. kg
23 16 01				140		90	14	0.18	2.32
02				180		120	18	0.29	3.62
03	W1AH	Hook	W/out	200	S'gle	130	20	0.35	4.73
04				220		140	22	0.42	6.48
05				240		160	24	0.50	8.44
23 16 06				180		120	18	0.29	3.62
07				200		130	20	0.35	4.73
08	W1AL	Link	W/out	220	S'gle	140	22	0.42	6.48
09				240		160	24	0.50	8.44
10				280		180	28	0.66	12.11
11				300		200	30	0.75	14.24
23 16 12		Shackle		140		90	14	0.18	2.32
13		SC 10							
14		SD 12							
15		SC 10		180		120	18	0.29	3.62
16		SD 12							
17		SC 12		200		130	20	0.35	4.73
18	W1AS	SD 14	W/out		S'gle				
19		SC 12		220		140	22	0.42	6.48
20		SD 16							
21		SC 14		240		160	24	0.50	8.44
22		SD 20							
23		SC 16		280		180	28	0.66	12.11
24		SD 20							
25		SC 18		300		200	30	0.75	14.24
		SD 22							

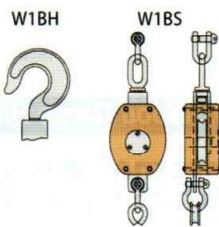
Denotes: W - Wood, 1 - Single Block, L - Link, H - Hook
S - Shackle, A - Without Becket

Note: Nominal size is height of shell.

Single Sheave with Becket supplied with Hook or Shackle

How to order: CODE

Wood block, single sheave, with becket, SYMBOL, TYPE, and SHELL HEIGHT

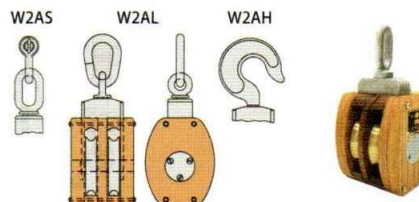


Unit Per Pc.									
CODE	Symbol	Type	Becket	Shell Height	Sheave Nos	Size	Rope Size	SWL Tons	Wgt. kg
23 16 31				140		90	14	0.17	2.77
32				180		120	18	0.27	4.82
33	W1BH	Hook	With	200	S'gle	130	20	0.33	5.77
34				220		140	22	0.40	8.16
35				240		160	24	0.47	10.33
23 16 36		Shackle		140		90	14	0.17	2.77
37		SC 10							
38		SD 12							
39		SC 12		180		120	18	0.27	4.82
40	W1BS	SD 16	With		S'gle				
41		SC 14		200		130	20	0.33	5.77
42		SD 16							
43		SC 14		220		140	22	0.40	8.16
44		SD 20							
45		SC 18		240		160	24	0.47	10.33
		SD 22							

Denotes: W - Wood, 1 - Single Block, B - With Becket, H - Hook, S - Shackle

Note: Nominal size is height of shell.

Double Sheaves without Becket supplied with Hook, Link or Shackle



How to order: CODE

Wood block, double sheave, without becket, SYMBOL, TYPE, and SHELL HEIGHT

Unit Per Pc.									
CODE	Symbol	Type	Becket	Shell Height	Sheave Nos	Size	Rope Size	SWL Tons	Wgt. kg
23 16 51				140		90	14	0.66	3.69
52				180		120	18	1.10	6.30
53	W2AH	Hook	W/out	200	D'ble	130	20	1.30	8.96
54				220		140	22	1.60	10.55
55				240		160	24	1.80	14.18
23 16 56				180		120	18	1.10	6.30
57				200		130	20	1.30	8.96
58	W2AL	Link	W/out	220	D'ble	140	22	1.60	10.55
59				240		160	24	1.80	14.18
23 16 60		Shackle		140		90	14	0.66	3.69
61		SC 12							
62		SD 14							
63		SC 14		180		120	18	1.10	6.30
64	W2AS	SD 20	W/out		D'ble				
65		SC 16		200		130	20	1.30	8.96
66		SD 20							
67		SC 18		220		140	22	1.60	10.55
68		SD 22							
69		SC 18		240		160	24	1.80	14.18
		SD 22							

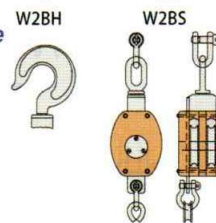
Denotes: W - Wood, 2 - Double Block, A - Without Becket, H - Hook, L - Link, S - Shackle

Note: Nominal size is height of shell.

Double Sheaves with Becket supplied with Hook or Shackle

How to order: CODE

Wood block, double sheave, with becket, SYMBOL, TYPE, and SHELL HEIGHT



Unit Per Pc.									
CODE	Symbol	Type	Becket	Shell Height	Sheave Nos	Size	Rope Size	SWL Tons	Wgt. kg
23 16 71				140		90	14	0.79	4.39
72				180		120	18	1.30	7.30
73	W2BH	Hook	With	200	D'ble	130	20	1.60	10.11
74				220		140	22	1.90	12.12
75				240		160	24	2.20	17.04
23 16 76		Shackle		140		90	14	0.79	4.39
77		SC 12							
78		SD 16							
79		SC 16		180		120	18	1.30	7.30
80	W2BS	SD 20	With		D'ble				
81		SC 18		200		130	20	1.60	10.11
82		SD 22							
83		SC 18		220		140	22	1.90	12.12
84		SD 22							
85		SC 20		240		160	24	2.20	17.04
		SD 24							

Denotes: W - Wood, 2 - Double Block, B - With Becket, H - Hook, S - Shackle

Note: Nominal size is height of shell.