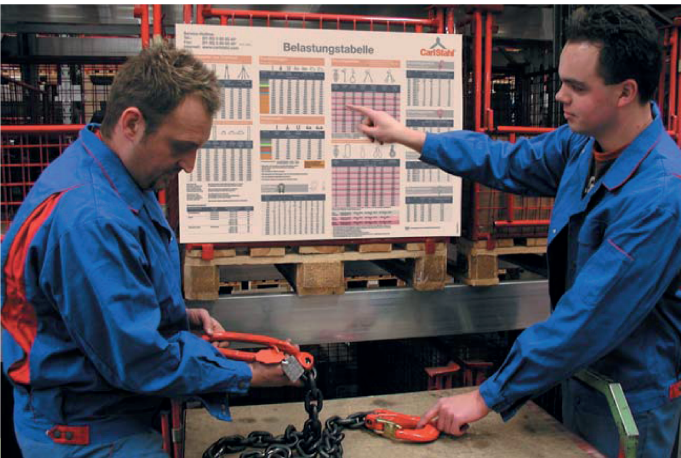




Load Chart

Carl Stahl Middle East

www.carlstahl.ae | www.carlstahl.sa

Wire rope slings acc. to BS EN 13414-1

Rope-Ø mm	WLL in kg				
	1-leg 	2-leg 		3- and 4-leg 	
		0 - 45°	45 - 60°	0 - 45°	45 - 60°
6	0.47	0.66	0.47	0.98	0.70
8	0.83	1.18	0.83	1.75	1.25
9	1.0	1.4	1.0	2.18	1.55
10	1.30	1.84	1.30	2.74	1.95
11	1.50	2.10	1.50	3.15	2.25
12	1.80	2.52	1.80	3.78	2.7
13	2.17	3.07	2.17	4.55	3.25
14	2.52	3.56	2.52	5.28	3.77
16	3.29	4.65	3.29	6.90	4.93
18	4.15	5.87	4.15	8.72	6.22
19	4.63	6.55	4.63	9.72	6.94
20	5.12	7.25	5.12	10.76	7.68
22	6.21	8.78	6.21	13.04	9.31
24	7.38	10.44	7.38	15.51	11.07
26	8.67	12.26	8.67	18.21	13.00
28	10.05	14.21	10.05	21.10	15.07
30	11.53	16.31	11.53	24.22	17.30
32	13.13	18.57	13.13	27.58	19.69
34	14.82	20.96	14.82	31.13	22.23
36	16.60	23.48	16.60	34.87	24.90
38	18.55	26.24	18.55	38.96	27.82
40	20.57	29.09	20.57	43.20	30.85
42	22.59	31.95	22.59	47.44	33.88
44	24.80	35.07	24.80	52.07	37.19
48	31.41	44.42	31.41	65.96	47.11
52	35.45	50.13	35.45	74.44	53.17
56	42.89	60.65	42.89	90.06	64.33
60	46.10	65.20	46.10	96.81	69.15
64	54.18	76.63	54.18	113.79	81.27
71	64.87	91.74	64.87	136.23	97.31
77	76.59	108.32	76.59	160.84	114.88

Load capacity is reduced by 20% in case of choker hitch.

Cable laid wire rope sling as endless grommet, acc. to BS EN 13414-3



Rope Ø 24-60 mm:
Safety factor 5

Rope Ø 66-132 mm:
Safety factor 4,9-3

Rope Ø up to 470 mm
available on request.

Nominal rope diameter	0° direct 	0° choke hitch 
24	9,00 t	7,00 t
27	11,5 t	9,00 t
30	14,0 t	11,0 t
33	17,0 t	13,5 t
36	20,0 t	16,0 t
39	23,5 t	19,0 t
42	27,0 t	21,5 t
48	35,5 t	28,5 t
54	45,0 t	36,0 t
60	55,5 t	44,5 t
66	69,0 t	55,0 t
72	84,0 t	68,0 t
78	102 t	81,0 t
84	121 t	97,0 t
90	144 t	115 t
96	168 t	135 t
102	196 t	157 t
108	227 t	182 t
114	262 t	210 t

Polyester round slings acc. to BS EN 1492-2

Load capacity in kg	WLL in kg				
	Single direct	Choker hitch	Basket hitch up to 7°	Inclination angle β over 7° to 45°	Inclination angle β over 45° to 60°
					
500	500	400	1 000	700	500
1000	1 000	800	2 000	1 400	1 000
2000	2 000	1 600	4 000	2 800	2 000
3000	3 000	2 400	6 000	4 200	3 000
4000	4 000	3 200	8 000	5 600	4 000
5000	5 000	4 000	10 000	7 000	5 000
6000	6 000	4 800	12 000	8 400	6 000
8000	8 000	6 400	16 000	11 200	8 000
10000	10 000	8 000	20 000	14 000	10 000
15000	15 000	12 000	30 000	21 000	15 000
20000	20 000	16 000	40 000	28 000	20 000
30000	30 000	24 000	60 000	42 000	30 000

Load capacities up to 100 ton are available.

Polyester webbing slings acc. to BS EN 1492-1

Load capacity in kg	WLL in kg				
	Single direct	Choker hitch	Basket hitch Inclination angle β to 7°	Inclination angle β direct up to 45°	Inclination angle β direct > 45°-60°
					
1 000	1 000	800	2 000	1 400	1 000
2 000	2 000	1 600	4 000	2 800	2 000
3 000	3 000	2 400	6 000	4 200	3 000
4 000	4 000	3 200	8 000	5 600	4 000
5 000	5 000	4 000	10 000	7 000	5 000
6 000	6 000	4 800	12 000	8 400	6 000
8 000	8 000	6 400	16 000	11 200	8 000
10 000	10 000	8 000	20 000	14 000	10 000

Attention!

In case of asymmetric load the capacities for inclination angle 45° to 60° apply.

Chain slings acc. to BS EN 818. Grade 80

Inclination angle β		0	0-45°	45-60°	0-45°	45-60°
Load factor		1	1,4	1,0	2,1	1,5
Chain $\varnothing$	Grade	1-Leg	2-Leg	2-Leg	3 & 4-Leg	3 & 4-Leg
						
7	80	1500	2100	1500	3100	2250
8	80	2000	2800	2000	4200	3000
10	80	3150	4400	3150	6700	4725
13	80	5300	7420	5300	11200	7950
16	80	8000	11200	8000	16800	12000
20	80	12500	17500	12500	26250	18750
22	80	15000	21000	15000	31500	22500
26	80	21200	29680	21200	44520	31800
32	80	31500	44100	31500	66150	47250

Chain slings. Grade 100

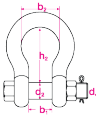
Inclination angle β		0	0-45°	45-60°	0-45°	45-60°
Load factor		1	1,4	1,0	2,1	1,5
Chain $\varnothing$	Grade	1-Leg	2-Leg	2-Leg	3 & 4-Leg	3 & 4-Leg
6	100	1.5	2.1	1.5	3.15	2.25
8	100	2.5	3.5	2.5	5.25	3.75
10	100	4.0	5.6	4.0	8.4	6.0
13	100	6.7	9.38	6.7	14.0	10.0
16	100	10.0	14.0	10.0	21.0	15.0
20	100	16.0	22.4	16.0	33.6	24.0
22	100	20.0	28.0	20.0	42.0	30.0
28	100	31.5	45.0	31.5	67.0*	47.25*

* Only 2 set x 2 leg type available

Chain slings. Grade 120

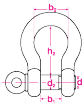
Inclination angle β		0	0-45°	45-60°	0-45°	45-60°
Load factor		1	1,4	1,0	2,1	1,5
Chain $\varnothing$	Grade	1-Leg	2-Leg	2-Leg	3 & 4-Leg	3 & 4-Leg
6	120	1.8	2.5	1.8	3.75	2.7
8	120	3.0	4.2	3.0	6.3	4.5
10	120	5.0	7.0	5.0	10.5	7.5
13	120	8.0	11.2	8.0	16.8	12.0
16	120	12.5	17.5	12.5	26.25	18.75

Shackles



5660.
High strength bow shackle with bolt, nut and cotter pin according to EN 13889, grade 6
Minimum breaking load is 6 times the WLL (working load limit).

WLL in t	Nominal size inches	Dimensions in mm					
		d1	d2	d3	b1	b2	h2
0.5	1/4	6	8	17	12	19	28
0.75	5/16	8	10	21	13	21	31
1.0	3/8	11	11	24	18	25	35
1.5	7/16	11	14	28	18	29	42
2.0	1/2	13	16	30	21	33	48
3.25	5/8	17	19	38	27	42	61
4.75	3/4	19	22	48	32	51	71
6.5	7/8	22	25	57	36	58	84
8.5	1	25	28	62	43	68	95
9.5	1 1/8	29	33	69	46	74	109
12.0	1 1/4	32	36	78	52	82	119
13.5	1 3/8	35	39	86	57	92	133
17.0	1 1/2	38	42	94	60	98	146
25.0	1 3/4	44	52	112	73	127	178
35.0	2	51	55	127	83	146	197
55.0	2 1/2	64	70	152	105	184	267
85.0	3	76	80	200	127	200	330



5630.
High strength bow shackle with screw pin, according to EN 13889, grade 6
Minimum breaking load is 6 times the WLL (working load limit).

WLL in t	Nominal size in inches	Dimensions in mm					
		d1 Bow	d2	d3 Ball	b1	b2	h2
0.33	3/16	6	6	14	10	14	23
0.5	1/4	6	8	17	12	17	28
0.75	5/16	8	10	21	13	21	31
1.0	3/8	11	11	24	18	25	35
1.5	7/16	11	14	28	18	28	42
2.0	1/2	13	16	30	21	30	48
3.25	5/8	17	19	38	27	42	61
4.75	3/4	19	22	48	32	48	71
6.5	7/8	22	25	57	36	57	84
8.5	1	25	28	62	43	62	95
9.5	1 1/8	29	33	69	46	69	103
12.0	1 1/4	32	36	78	52	78	119
13.5	1 3/8	35	39	86	57	86	133
17.0	1 1/2	38	42	94	60	94	146
25.0	1 3/4	44	52	112	73	112	178
35.0	2	51	60	135	83	135	197
55.0	2 1/2	63	72	158	106	158	267

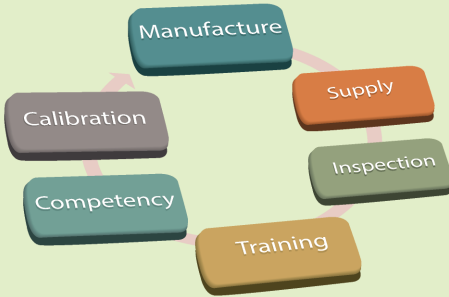


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YOU CAN REACH US BY:

DUBAI - U.A.E.
P.O. BOX 26607

PHONE
+971-4-3333 494

MOB
+971-55-6884 507

EMAIL
DUBAI@CARLSTAHL.AE

ABU DHABI - U.A.E.
P.O. BOX 92607

PHONE
+971-2-5504 443

MOB
+971-56-3299 218

EMAIL
ABUDHABI@CARLSTAHL.AE

DAMMAM - K.S.A.
P.O. BOX 34341

PHONE
+966-50-9506 888

MOB
+966-50-9507 888

EMAIL
SAUDI@CARLSTAHL.SA