



Crosby® Bolt Anchor Safety Shackles

G2130 Bow Shackle & G2150 D Shackle

- Capacities from 0.33 to 150 tonnes, grade 6, with working load limit and grade '6' permanently shown on every shackle
- Forged - quenched and tempered with alloy pins
- Hot dip galvanized or self coloured (85, 120 and 150 tonne shackles are all hot dip galvanized bows and the bolts are Dimetcoated® and painted red.)
- Fatigue rated (0.33 to 55te)
- Shackles 25te and larger are RFID equipped
- Approved for use at -40°C to 204°C
- 2te through to 25te bow and bolt and certified to meet charpy impact testing of 42 joules minimum average at -20°C
- Meets or exceeds all requirements of ASME B30.26
- Sizes 0.5te to 25te meet the performance requirements of EN13889:2003
- Shackles 55te and smaller can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds or other certification when requested at time of order
- Shackles 120te and larger are proof tested, magnetic particle inspected and provided with serialised pin and bow
- Type approval and certification in accordance with ABS 2007 Steel Vessel Rules 1-1-17.7 and ABS guide for certification of cranes
- 3.1 certification as standard available for charpy and statistical proof test up to 25 tonnes to DNV2.7-1 and EN13889
- Crosby 2te through to 25te G2130OC anchor shackles are type approved to DNV certification
- Notes 2.7-1-Offshore Containers. These Crosby shackles are statistical proof and impact tested. The tests are conducted by Crosby and 3.1 test certification is available on request
- All other 2130 and all 2150 shackles meet charpy requirements of 42 joules average at -20°C upon special request

G2140 Bow Shackle

- Quenched and tempered
- Alloy bows, alloy bolts
- Forged alloy steel 30 through 200te metric tonnes. Cast alloy steel 250te through 400 metric tonnes. Meets performance requirements of Grade 8 shackles
- Working load limit is permanently shown on every shackle
- 30, 40, 55 and 85 tonne shackle bows are available galvanized or self coloured with pins that are galvanized and painted red. 120, 150, 175 tonne shackle bows are hot-dip galvanized; pins are Dimecoted® and painted red. 200, 250, 300 and 400 tonne shackle bows are Dimetcoated®; pins are Dimetcoated® and painted red.
- All sizes are RFID Equipped
- Approved for use at -40°C to 204°C
- Shackles are quenched and tempered and can meet DNV impact requirements of 42 joules at -20°C
- All sizes are individually proof tested to 2.0 times the working load limited
- Shackles 200te and larger are provided with serialised pin and bow, material certification (chemical) and magnetic particle inspected. Please note that certification must be requested at time of order
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these shackles meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26
- Type approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7 and ABS guide for the certification of cranes

Features

- Manufactured by Crosby
- Bow shackles from 0.3te to 400te
- D shackles from 0.3te to 85te
- Quenched and tempered
- Alloy bolts and bows
- Supplied with full Crosby traceability
- Working load limit and grade "6" permanently shown on every shackle
- Buy as an accessory with or without our load links

Typical Applications

- Load link accessory
- Lifting and pulling
- Tension test rigs
- Tension stay termination
- Entertainment rigging

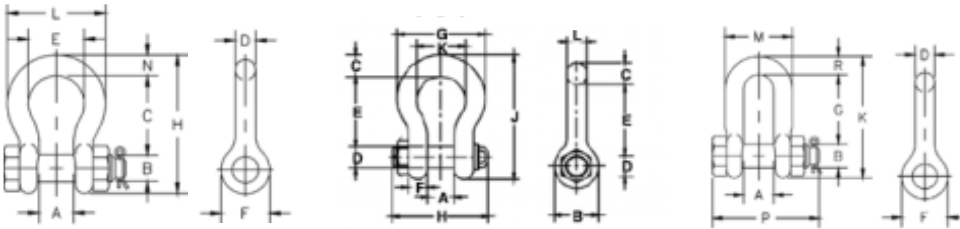
Crosby® Bolt Anchor Safety Shackles



G2130 Bow Shackle

G2140 Bow Shackle

G2150 D Shackle



G2130 Bow Shackle

All dimensions are in mm

Size (in)	Working Load Limit (te)	G-2130 Stock Code	A	B	C	D	E	F	H	L	N	Tolerance ±		Weight (kg)
												C	A	
3/16	1/3	1019464	9.65	6.35	22.4	4.85	15.2	14.2	37.3	24.9	4.85	1.5	1.5	0.03
1/4	1/2	1019466	11.9	7.85	28.7	6.35	19.8	15.5	46.7	32.5	6.35	1.5	1.5	0.05
5/16	3/4	1019468	13.5	9.65	31	7.85	21.3	19.1	53	37.3	7.85	1.5	1.5	0.1
3/8	1	1019470	16.8	11.2	36.6	9.65	26.2	23.1	63	45.2	9.65	3.3	1.5	0.15
7/16	1 1/2	1019471	19.1	12.7	42.9	11.2	29.5	26.9	74	51.5	11.2	3.3	1.5	0.22
1/2	2	1019472	20.6	16	47.8	12.7	33.3	30.2	83.5	58.5	12.7	3.3	1.5	0.36
5/8	3 1/4	1019490	26.9	19.1	60.5	16	42.9	38.1	106	74.5	17.5	3.3	1.5	0.62
3/4	4 3/4	1019515	31.8	22.4	71.5	19.1	51	46	126	89	20.6	6.35	1.5	1.23
7/8	6 1/2	1019533	36.6	25.4	84	22.4	58	53	148	102	24.6	6.35	1.5	1.79
1	8 1/2	1019551	42.9	28.7	95.5	25.4	68.5	60.5	167	119	26.9	6.35	1.5	2.28
1 1/8	9 1/2	1019579	46	31.8	108	28.7	74	68.5	190	131	31.8	6.35	1.5	3.75
1 1/4	12	1019597	51.5	35.1	119	31.8	82.5	76	210	146	35.1	6.35	1.5	5.31
1 3/8	13 1/2	1019613	57	38.1	133	35.1	92	84	233	162	38.1	6.35	3.3	7.18
1 1/2	17	1019631	60.5	41.4	146	38.1	98.5	92	254	175	41.1	6.35	3.3	8.62
1 3/4	25	1019659	73	51	178	44.5	127	106	313	225	57	6.35	3.3	15.4
2	35	1019677	82.5	57	197	51	146	122	348	253	61	6.35	3.3	23.7
2 1/2	55	1019695	105	70	267	66.5	184	145	453	327	79.5	6.35	6.35	44.6
3	†85	1019711	127	82.5	330	76	200	165	546	365	92	6.35	6.35	70
3 1/2	†120‡	1019739	133	95.5	372	92	229	203	626	419	105	6.35	6.35	120
4	†150‡	1019757	140	108	368	104	254	229	653	468	116	6.35	6.35	153

G2140 Bow Shackle

Size (in)	Working Load Limit (te)	G-2140 Stock Code	A	B	C	D	E	F	G	H	J	K	L	Tolerance ±		Weight (kg)
														A	E	
1 1/2	30	1021110	60.5	91.9	41.1	41.4	146	35.3	175	196	254	98.6	38.9	3.3	6.4	8.52
1 3/4	40	1021138	73.2	106	57.2	50.8	178	44.5	224	237	313	127	46.7	3.3	6.4	15.4
2	55	1021156	82.6	122	61	57.2	197	50.8	258	264	347	146	52.8	3.3	6.4	23.6
2 1/2	85	1021174	105	148	79.2	69.9	267	66.5	324	345	455	184	68.8	6.4	6.4	43.5
3	120	1021192	127	165	92.2	82.6	330	76.2	371	384	546	200	79.2	6.4	6.4	81
3 1/2	150	1021218	133	203	111	95.3	372	95.3	432	448	632	229	91.9	6.4	6.4	120
4	175	1021236	140	229	116	108	368	102	457	517	652	254	102	6.4	6.4	153

G2150 D Shackle

Size (in)	Working Load Limit (te)	G-2130 Stock Code	A	B	D	F	G	K	M	P	R	Tolerance ±		Weight (kg)
												G	A	
1/4	1/2	1019768	11.9	7.85	6.35	15.5	19.1	40.4	24.6	39.6	6.35	1.5	1.5	0.6
5/16	3/4	1019770	13.5	9.65	7.85	19.1	25.4	48.5	29.5	46.2	7.85	1.5	1.5	0.1
3/8	1	1019772	16.8	11.2	9.65	23.1	31	58.5	35.8	55	9.65	3.3	1.5	0.15
7/16	1 1/2	1019774	19.1	12.7	11.2	26.9	36.1	67.5	41.1	63.5	11.2	3.3	1.5	0.22
1/2	2	1019775	20.6	16	12.7	30.2	41.4	77	46	71	12.7	3.3	1.5	0.34
5/8	3 1/4	1019793	26.9	19.1	16	38.1	51	95.5	58.5	89.5	16	3.3	1.5	0.67
3/4	4 3/4	1019819	31.8	22.4	19.1	46	60.5	115	70	103	20.6	6.35	1.5	1.14
7/8	6 1/2	1019837	36.6	25.4	22.4	53	71.5	135	81	120	24.6	6.35	1.5	1.74
1	8 1/2	1019855	42.9	28.7	25.4	60.5	81	151	93.5	135	25.4	6.35	1.5	2.52
1 1/8	9 1/2	1019873	46	31.8	28.7	68.5	91	172	103	150	31.8	6.35	1.5	3.45
1 1/4	12	1019891	51.5	35.1	31.8	76	100	191	115	165	35.1	6.35	1.5	4.9
1 3/8	13 1/2	1019917	57	38.1	35.1	84	111	210	127	183	38.1	6.35	3.3	6.24
1 1/2	17	1019935	60.5	41.4	38.1	92	122	230	137	196	41.1	6.35	3.3	8.39
1 3/4	25	1019953	73	51	44.5	106	146	279	162	230	54	6.35	3.3	14.2
2	35	1019971	82.5	57	51	122	172	312	184	264	60	6.35	3.3	21.2
2 1/2	55	1019999	105	70	66.5	145	203	377	238	344	66.5	6.35	6.35	38.6
3	85	1020013	127	82.5	76	165	216	429	279	419	89	6.35	6.35	56

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APPROVED

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