

**TYPE: G2130/G2140/
G2150**

A United Kingdom
company



Crosby® Bolt Anchor Safety Shackles

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

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



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OLCM SYSTEMS
Solutions in Load Cell Technology

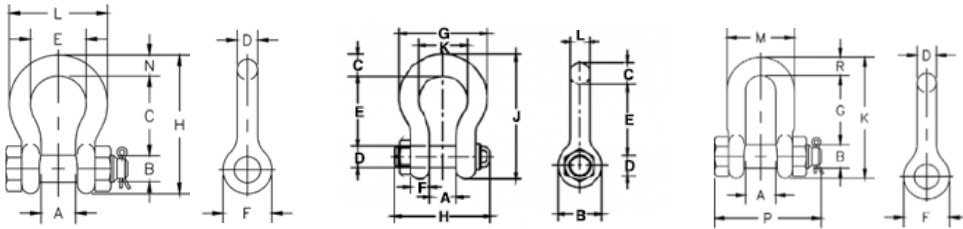
Crosby® Bolt Anchor Safety Shackles



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 | 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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Due to continual product development, LCM Systems Ltd reserves the right to alter product specifications without prior notice.

Issue No. 1

Issue date: 28/02/2019

APPROVED

(unapproved if printed)