

Dee Shackle Powertex PDSB

Product information



POWERTEX

The POWERTEX Dee Shackle PDSB is a high-strength lifting shackle designed for controlled, in-line load applications in demanding industrial environments. Supplied with a hex-head safety bolt, nut, and stainless steel cotter pin, it provides a secure, mechanically locked connection for overhead lifting and rigging.

The dee shape is ideal for straight-line loading, making it suitable for direct connections to lifting points, chains, and wire rope assemblies where side loading is not intended. Manufactured from quenched and tempered alloy steel and hot-dip galvanized, it is built for reliable daily use in construction, manufacturing, offshore, and heavy maintenance operations.

It complies with EN 13889, AS 2741 (generally), ASME B30.26, and meets the performance requirements of the US Fed. Spec. RR-C-271.

Choose the PDSB safety bolt version when:

- The load is applied mainly in a straight line
- The shackle will remain installed for longer periods
- Vibrations or movement could cause a screw pin to rotate
- Higher safety assurance is required by site procedures

Product benefits

- **Safety bolt with nut and stainless steel cotter pin**
Provides a mechanically secured connection that reduces the risk of accidental loosening under vibration or dynamic loads.
- **Wide operating temperature range from -40°C up to +200°C**
Suitable for both cold outdoor conditions and warm industrial environments, ensuring predictable performance across varied applications.
- **Forged alloy steel, quenched and tempered, Grade 6**
Delivers consistent strength and reliable performance in controlled lifting applications. [Read more](#)

Material: Forged alloy steel, supplied with alloy safety bolt and nuts. Stainless steel retaining pins

Marking: According to standard, CE-marked, Powertex (PT or PTEX), WLL, size, grade and batch number.

Temperature range: -40°C up to +200°C

Finish: All parts hot dip galvanized + head-bolt and nut additional powder painted.

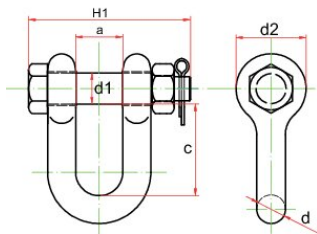
Standard: EN 13889, AS 2741, ASME B30.26

Safety factor: 6:1.

Grade: 6

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Blueprint



Technical data

| Part code | WLL ton | Size inch | a* mm | c* mm | d mm | d1 mm | d2 mm | H1 mm | Weight kg |
|--------------|---------|-----------|-------|-------|------|-------|-------|-------|-----------|
| 420100050850 | 0.5 | 1/4 | 13 | 22 | 6.5 | 8 | 17.5 | 42.5 | 0.05 |
| 420100080850 | 0.75 | 5/16 | 13.5 | 25.5 | 8 | 9.5 | 21 | 47 | 0.086 |
| 420100100850 | 1 | 3/8 | 17 | 30.9 | 10 | 11.2 | 25 | 56.5 | 0.16 |
| 420100150850 | 1.5 | 7/16 | 18.5 | 36.4 | 11 | 12.7 | 27 | 63.5 | 0.215 |
| 420100200850 | 2 | 1/2 | 20.6 | 41.4 | 12.7 | 15.8 | 30.5 | 75.5 | 0.34 |
| 420100330850 | 3.25 | 5/8 | 27 | 51 | 16 | 18.8 | 40 | 92 | 0.6 |
| 420100480850 | 4.75 | 3/4 | 32 | 63 | 19 | 22 | 48 | 106 | 1.02 |
| 420100650850 | 6.5 | 7/8 | 37 | 72 | 22 | 25 | 54 | 120 | 1.6 |
| 420100850850 | 8.5 | 1 | 43.5 | 81.75 | 26.5 | 28 | 60 | 135 | 2.3 |
| 420100950850 | 9.5 | 1-1/8 | 48 | 94 | 29 | 32 | 68 | 143 | 3.33 |
| 420101200850 | 12 | 1-1/4 | 53 | 102 | 32 | 35 | 76 | 164 | 4.3 |
| 420101350850 | 13.5 | 1-3/8 | 59 | 113.5 | 35 | 38 | 84 | 182 | 5.87 |
| 420101700850 | 17 | 1-1/2 | 62 | 123 | 38 | 42 | 92 | 195 | 7.6 |
| 420102500850 | 25 | 1-3/4 | 75 | 148 | 45 | 50 | 106 | 224 | 11.7 |
| 420103500850 | 35 | 2 | 84 | 174.5 | 52 | 55 | 122 | 248 | 17.84 |