



## Bow Shackle Powertex PBSB

### Product information

#### **POWERTEX**

The POWERTEX Bow Shackle PBSB is a high-strength lifting shackle designed for demanding industrial environments. Supplied with a hexagon head safety bolt, nut, and stainless steel cotter pin, it provides a secure connection for overhead lifting and rigging.

The bow shape allows for multi-directional loading, making it suitable for use with slings, chains, and wire rope assemblies. 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 PBSB safety bolt version when:

- The shackle will remain in place for longer periods
- Vibrations or dynamic loads could cause a screw pin to rotate
- Higher safety assurance is required as part of site procedures
- You need clear traceability and batch identification for audits

#### 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, giving predictable performance across a wide range of applications without changing lifting equipment.
- **Forged alloy steel, quenched and tempered, Grade 6**  
Delivers consistent strength and predictable performance in demanding lifting applications.
- **Hot-dip galvanized finish on all components**  
Protects against corrosion and extends service life in outdoor and industrial environments.
- **Batch marked on body and bolt with full CE and WLL marking**  
Simplifies inspection, traceability, and documentation, helping prevent misuse or overloading.
- **Compliant with EN 13889, AS 2741 (generally), ASME B30.26 and meets US Fed. Spec. RR-C-271 performance requirements**  
Supports safe use in regulated lifting operations and simplifies approval in international projects.
- **Multilingual user manuals in 13 languages**  
Supports correct installation, inspection, and safe use across international teams, helping reduce training errors and ensuring compliance with local safety procedures.

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

**Marking:** According to standard, CE-marked, Powertex (PX 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

| Part code    | WLL ton | EWL mm | Size inch | a* mm | c* mm | d mm | d1 mm | d2 mm | e mm | H1 mm | Weight kg |
|--------------|---------|--------|-----------|-------|-------|------|-------|-------|------|-------|-----------|
| 420100050860 | 0.5     | 29     | 1/4       | 13    | 29    | 6.5  | 8     | 17.5  | 20   | 42.5  | 0.05      |
| 420100080860 | 0.75    | 31     | 5/16      | 13.5  | 31    | 8    | 9.5   | 21    | 21.5 | 47    | 0.1       |
| 420100100860 | 1       | 37     | 3/8       | 17    | 37    | 10   | 11.2  | 25    | 26.2 | 56.5  | 0.15      |
| 420100150860 | 1.5     | 43     | 7/16      | 18.5  | 43    | 11.3 | 12.7  | 27    | 29.5 | 63.5  | 0.22      |
| 420100200860 | 2       | 48     | 1/2       | 20.6  | 48    | 12.7 | 15.8  | 30.5  | 33.3 | 75.5  | 0.36      |
| 420100330860 | 3.25    | 60     | 5/8       | 27    | 60    | 16   | 18.8  | 40    | 43   | 92    | 0.76      |
| 420100480860 | 4.75    | 72     | 3/4       | 32    | 72    | 19   | 22    | 48    | 51   | 106   | 1.2       |
| 420100650860 | 6.5     | 85     | 7/8       | 37    | 85    | 22   | 25    | 54    | 58   | 120   | 1.8       |
| 420100850860 | 8.5     | 96     | 1         | 43.5  | 96    | 26.5 | 28    | 60    | 68.5 | 135   | 2.6       |
| 420100950860 | 9.5     | 109    | 1-1/8     | 48    | 109   | 29   | 32    | 68    | 75   | 143   | 3.8       |
| 420101200860 | 12      | 121    | 1-1/4     | 53    | 121   | 32   | 35    | 76    | 84   | 164   | 5.3       |
| 420101350860 | 13.5    | 134    | 1-3/8     | 59    | 134   | 35   | 38    | 84    | 94   | 182   | 7.2       |
| 420101700860 | 17      | 149    | 1-1/2     | 62    | 149   | 38   | 42    | 92    | 99   | 195   | 9.4       |
| 420102500860 | 25      | 178    | 1-3/4     | 75    | 178   | 45   | 50    | 106   | 128  | 224   | 15        |
| 420103500860 | 35      | 197    | 2         | 84    | 197   | 52   | 56    | 122   | 148  | 248   | 24        |
| 420105500860 | 55      | 270    | 2-1/2     | 107   | 270   | 66   | 70    | 145   | 186  | 302   | 45        |
| 420108500860 | 85      | 325    | 3         | 130   | 325   | 76   | 80    | 165   | 205  | 395   | 70        |

# Blueprint

