



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 operations.
- **Hot-dip galvanized finish on all components**
Protects against corrosion and supports long 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 environments 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 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

Part code	WLL ton	Size inch	a* mm mm	c* mm mm	dmm mm	d1 mm mm	d2 mm mm	H1mm 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

Blueprint

