CERTEX | Lifting Solutions Group
Axel Johnson International

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. Equipped with a hexagon-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.

Best used for

- Straight-line lifting applications with direct connections
- Installations where the shackle will remain in place for longer periods
- Installations where vibrations or movement could cause a screw pin to rotate

Not ideal for

- Multi-leg sling configurations or applications with side loading, where a bow shackle may be more suitable.

Product benefits

- Safety bolt with nut and stainless steel cotter pin helps prevent accidental loosening
- Dee shape keeps loads aligned for straight-line lifting applications
- Quenched and tempered Grade 6 alloy steel provides reliable strength for 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: AS 2741, ASME B30.26
Standard: EN 13889
AS 2741

Safety factor: 6:1.
Grade: 6

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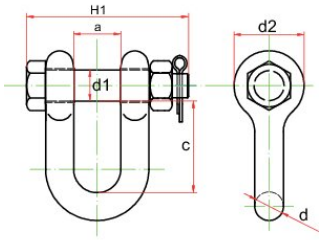
Blueprint



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

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