Lifting Point POWERTEX LPS

Product information

The Powertex LPS with swivel eye redefines the capabilities of traditional lifting points. Engineered for demanding industrial environments that require reliability and efficiency, the Powertex LPS has a dynamic **360-degree rotation feature** and an impressive 4.5 times increase in Working Load Limit (WLL) compared to conventional DIN580 lifting points. Its design incorporates a robust forged swivel eye, complemented by a bolt and washer assembly, which ensures secure and versatile lifting operations. The bolt features a hex socket cap grip for easy installation, allowing for swift mounting with standard tools. It includes a supplementary 'quick key' for manual tightening during temporary setups.

Allowed loading directions:

- Straight (max WLL)
- Sideways (not perpendicular to the eye)
- 180 degrees in the plane of the eye (+/- 90 degrees from centre line)

Product Features:

- Durable Finish: Coated in PURE RED powder paint,the Powertex LPS lifting points are visually distinct and offer superior resistance to wear and corrosion.
- Compliance to standard: Manufactured to meet the testing requirements specified by EN 1677-1, ensuring high safety and quality standards.
- Reliable: Designed with a safety factor of at least 4 in the intended load directions, offering a secure lifting experience.
- Quality assurance: Each component undergoes crack detection testing in the factory and forged links are proof load tested to ensure reliability.
- Type Testing: Each model undergoes factory type testing including breaking tests and fatigue test to 20,000 cycles at 1.5 times the WLL, highlighting the product's endurance.
- Full Traceability: Every component is marked with POWERTEX branding, model name, WLL, CE-mark, UKCA-mark, and a traceability code, ensuring traceability to the production lot and raw materials.
- WLL Indication: The LPS is marked with the lowest WLL at 90° as the general WLL. The WLL chart provides a higher WLL for straight vertical loading.
- Harmless: Chromium 6 free, aligning with environmental safety standards.
- Certificates Included: Comes with a POWERTEX 2.2 certificate & Declaration of Conformity with each box, confirming compliance with EC and UK regulations.

- Wide Temperature Range: Optimized for use between -40°C to +200°C without WLL reduction, with permissible WLL reductions for higher temperature ranges, ensuring adaptability to various environments.

Features: 360 degrees rotable
Material: Forged alloy steel
Marking: According to standard, CE-marked, UKCA-marked, POWERTEX or PX, model name, WLL and batch number
Temperature range: -40°C up to +200°C
Finish: Powder painted in PURE RED
Standard: EN 1677-1
Australian Standard: AS 3776
Note: Before use, review the WLL diagram to select the correct LPS for your application

Safety factor: 4:1

Part Code	WLL ton	Thread	Model	Torque Nm	A mm	B mm	C mm	D mm	E mm	F mm	Weight (kg)
4215LPSM8	0.3	M8	LPS-M8	6-10	38	26	45.3	11.5	25	8	0.11
4215LPSM10	0.4	M10	LPS-M10	6-10	38	26	45.3	14	25	8	0.12
4215LPSM12	0.75	M12	LPS-M12	10-15	43.5	32	54	17	33	10	0.2
4215LPSM16	1.5	M16	LPS-M16	20-30	52	37.5	63.5	24	36	14	0.35
4215LPSM20	2.3	M20	LPS-M20	50-70	63	44.5	78.5	30	47.5	20.6	0.66
4215LPSM24	3.2	M24	LPS-M24	120-150	74	51.6	92	35.3	53	20	1.1
4215LPSM30	4.5	M30	LPS-M30	200-250	92	65	118	45	68	24	2.1
4215LPSM36	7	M36	LPS-M36	280-400	105	76	136	56.8	82	30	4
4215LPSM42	9	M42	LPS-M42	400-500	121.5	88	160	66.5	92	35	5.5
4215LPSM48	12	M48	LPS-M48	400-500	138	100	180	75.5	110	42	8.9

Technical data

Load diagram LPS
Working temperature -40° up to +200°C without reduction of WLL.
Note: The product is marked with the lowest WLL from the chart. In straight vertical lifting in the centerline of the bolt the WLL is allowed to be higher than the marked general WLL.

Australia WLL - based on AS 3776 & AS 3775 (Included angle)								
Loading								
Load angle	0°	90°	0°	90°	60°	90°	120°	Asymmetric
Load factor		1.0		2.0	1.73	1.41	1.0	1.0
Model	Working Load Limit WLL (t)							
LPS-M8	0,8	0,3	1,6	0,6	0,52	0,42	0,3	0,3
LPS-M10	1,0	0,4	2,0	0,8	0,69	0,56	0,4	0,4
LPS-M12	2,0	0,75	4,0	1,5	1,3	1,0	0,75	0,75
LPS-M16	4,0	1,5	8,0	3,0	2,6	2,1	1,5	1,5
LPS-M20	6,0	2,3	12,0	4,6	4,0	3,2	2,3	2,3
LPS-M24	8,0	3,2	16,0	6,4	5,5	4,5	3,2	3,2
LPS-M30	12,0	4,5	24,0	9,0	7,8	6,3	4,5	4,5
LPS-M36	16,0	7,0	32,0	14,0	12,1	9,9	7,0	7,0
LPS-M42	24,0	9,0	48,0	18,0	15,6	12,7	9,0	9,0
LPS-M48	32,0	12,0	64,0	24,0	20,7	16,9	12,0	12,0

Blueprint