



## Lifting Point POWERTEX LPD

### Product information

Introducing the POWERTEX Lifting point with a decentred link – LPD. The LPD is a robust solution for industrial environments that demand precision and durability in material handling. This lifting point is engineered to rotate 360 degrees and pivot up to 150 degrees, offering a versatile range of motion. The unique design features a forged housing with two pressed-in washers and a bolt equipped with a locking ring for secure interlocking. A spacious forged D-shaped link is securely locked within the housing opening. The bolt head is designed for versatility with an outer hexagonal grip and a hex socket cap grip, ensuring easy installation with various tools. The LPD is the quietest lifting point in the range, having a spring that removes rattling sound, making it suitable for use on vibrating machines and vehicles. The spring also allows the D-ring to be left in a vertical position. Original Powertex bolts are available in longer lengths to suit diverse requirements.

#### Allowed Loading directions:

- Same WLL in all directions
- 360° rotation, 150° pivot motion from vertical
- The LPD is not designed to rotate under load (choose LPB instead)

#### Product Features:

- **Durable finish:** Coated in PURE RED powder paint, the LPD lifting points stand out for their durability and corrosion resistance.
- **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 all 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.
- **Uniform WLL:** The LPD maintains the same WLL in all directions, simplifying load planning and increasing versatility.
- **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 rotatable, quiet, spacious link, longer bolts available

**Material:** Forged alloy steel

**Marking:** According to standard, CE-marked, UKCA-marked, POWERTEX, model name, WLL and batch number

**Temperature range:** -40 up to +200°C without reduction in WLL

**Finish:** Powder painted in PURE RED

**Standard:** EN 1677-1

**Note:** Before use, review the WLL diagram to select the correct LPD for your application









**Safety factor:** 4:1

| Part Code  | WLL ton | Thread mm | Model   | Torque Nm | A mm | B mm | C mm | D mm | E mm | F mm  | G mm | H mm | S mm | SW mm | Weight kg |
|------------|---------|-----------|---------|-----------|------|------|------|------|------|-------|------|------|------|-------|-----------|
| 4215LPDM8  | 0.3     | M8        | LPD-M8  | 30        | 34   | 37   | 42   | 14   | 11   | 98.5  | 57   | 36   | 6    | 13    | 0.5       |
| 4215LPDM10 | 0.63    | M10       | LPD-M10 | 60        | 34   | 37   | 44   | 14   | 16   | 98.5  | 57   | 36   | 6    | 16    | 0.5       |
| 4215LPDM12 | 1       | M12       | LPD-M12 | 100       | 34   | 37   | 45   | 14   | 18   | 98.5  | 57   | 36   | 8    | 18    | 0.5       |
| 4215LPDM16 | 1.5     | M16       | LPD-M16 | 150       | 34   | 37   | 48   | 14   | 24   | 98.5  | 57   | 36   | 10   | 24    | 0.55      |
| 4215LPDM20 | 2.5     | M20       | LPD-M20 | 250       | 50   | 54   | 58   | 16.5 | 30   | 143   | 82   | 44   | 12   | 30    | 1.4       |
| 4215LPDM24 | 4       | M24       | LPD-M24 | 400       | 50   | 54   | 61   | 16.5 | 36   | 143   | 82   | 44   | 14   | 36    | 1.5       |
| 4215LPDM30 | 5       | M30       | LPD-M30 | 500       | 60   | 65   | 82   | 22   | 48   | 170   | 99   | 62   | 17   | 46    | 3         |
| 4215LPDM36 | 8       | M36       | LPD-M36 | 800       | 77   | 85   | 104  | 27   | 62   | 226.5 | 123  | 79   | 22   | 55    | 5.8       |
| 4215LPDM42 | 15      | M42       | LPD-M42 | 1,500     | 95   | 104  | 117  | 36   | 63   | 257.5 | 158  | 90   | 22   | 65    | 11.1      |
| 4215LPDM48 | 20      | M48       | LPD-M48 | 2,000     | 95   | 104  | 120  | 36   | 72   | 257.5 | 158  | 90   | 27   | 75    | 11.6      |

## Technical data

### Load diagram LPD

Working temperature -40° up to +200°C without reduction of WLL.

| Loading     |  |  |  |  |  |  |  |  |            |
|-------------|---|---|---|---|---|---|---|---|------------|
| Load angle  | 0   | 90  | 0   | 90  | 0-45  | 45-60   | 0-45  | 45-60   | Asymmetric |
| Load factor | 1   | 1   | 2   | 2   | 1.4   | 1.0   | 2.1   | 1.5   | 1          |
| Model       | Working Load Limit WLL (t)  |   |   |   |   |   |   |   |            |
| LPD-M8      | 0.3   | 0.3   | 0.6   | 0.6   | 0.42  | 0.3   | 0.63  | 0.45  | 0.3        |
| LPD-M10     | 0.63  | 0.63  | 1.26  | 1.26  | 0.88  | 0.63  | 1.32  | 0.95  | 0.63       |
| LPD-M12     | 1   | 1   | 2   | 2   | 1.4   | 1   | 2.1   | 1.5   | 1          |
| LPD-M16     | 1.5   | 1.5   | 3   | 3   | 2.1   | 1.5   | 3.1   | 2.2   | 1.5        |
| LPD-M20     | 2.5   | 2.5   | 5   | 5   | 3.5   | 2.5   | 5.2   | 3.7   | 2.5        |
| LPD-M24     | 4   | 4   | 8   | 8   | 5.6   | 4   | 8.4   | 6   | 4          |
| LPD-M30     | 5   | 5   | 10  | 10  | 7   | 5   | 10.5  | 7.5   | 5          |
| LPD-M36     | 8   | 8   | 16  | 16  | 11.2  | 8   | 16.8  | 12  | 8          |
| LPD-M42     | 15  | 15  | 30  | 30  | 21  | 15  | 31.5  | 22.5  | 15         |
| LPD-M48     | 20  | 20  | 40  | 40  | 28  | 20  | 42  | 30  | 20         |

# Blueprint

