

Datasheet

RS Stock No: 553649

Clear Passivated, Bright Zinc Plated Steel Pan Head Machine Screws: Metric Thread



Pan Head machine screws, similarly to Oval Head machine screws have rounded sides, however the difference being that Pan Head machine screws have a flat top rather than a rounded one. The cross recess drive, also known as Posidriv, is becoming a popular method with this type of fastener due to ease of assembly with reduced driver slippage (Cam Out) which reduces the effect of surface damage. Machine screws can be used in pre-tapped holes or used with conforming nuts and washers in through-holes.

- Clear Passivated, Bright Zinc Plated Steel
- Cross recess drive type
- Threaded in accordance with DIN 7985 standard
- Suitable for light fastening applications in facilities maintenance and electronic & domestic applications
- Typical applications include; PCB prototyping, circuit board mounting and general repair and maintenance
- Requires a Philips screwdriver



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Please view our range listing below for more Clear Passivated, Zinc Plated Steel, Pan Head Machine Screws:

| Head Shape | Drive Type | Material | Thread Size | Length | RS Part No. |
|------------|------------|-------------------|-------------|--------|-------------|
| Pan Head | Cross | Zinc Plated Steel | M2 | 6 mm | 560530 |
| Pan Head | Cross | Zinc Plated Steel | M2 | 12 mm | 560546 |
| | | | | | |
| Pan Head | Cross | Zinc Plated Steel | M2.5 | 6 mm | 560552 |
| Pan Head | Cross | Zinc Plated Steel | M2.5 | 12 mm | 560568 |
| Pan Head | Cross | Zinc Plated Steel | M2.5 | 20 mm | 560574 |
| | | | | | |
| Pan Head | Cross | Zinc Plated Steel | M3 | 6 mm | 560580 |
| Pan Head | Cross | Zinc Plated Steel | M3 | 10 mm | 560596 |
| Pan Head | Cross | Zinc Plated Steel | M3 | 12 mm | 560603 |
| Pan Head | Cross | Zinc Plated Steel | M3 | 16 mm | 560619 |
| Pan Head | Cross | Zinc Plated Steel | M3 | 20 mm | 560625 |
| Pan Head | Cross | Zinc Plated Steel | M3 | 25 mm | 560631 |
| Pan Head | Cross | Zinc Plated Steel | M3 | 30 mm | 560647 |
| | | | | | |
| Pan Head | Cross | Zinc Plated Steel | M3.5 | 12 mm | 560653 |
| Pan Head | Cross | Zinc Plated Steel | M3.5 | 20 mm | 560669 |
| | | | | | |
| Pan Head | Cross | Zinc Plated Steel | M4 | 6 mm | 560675 |
| Pan Head | Cross | Zinc Plated Steel | M4 | 10 mm | 560681 |
| Pan Head | Cross | Zinc Plated Steel | M4 | 12 mm | 560697 |
| Pan Head | Cross | Zinc Plated Steel | M4 | 16 mm | 553554 |
| Pan Head | Cross | Zinc Plated Steel | M4 | 20 mm | 553560 |
| Pan Head | Cross | Zinc Plated Steel | M4 | 25 mm | 553576 |
| Pan Head | Cross | Zinc Plated Steel | M4 | 30 mm | 553582 |
| Pan Head | Cross | Zinc Plated Steel | M4 | 40 mm | 553598 |

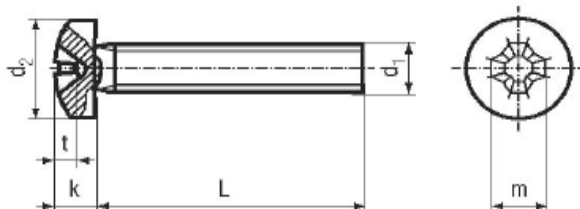


ENGLISH

Please view our range listing below for more Clear Passivated, Zinc Plated Steel, Pan Head Machine Screws:

| Head Shape | Drive Type | Material | Thread Size | Length | RS Part No. |
|------------|------------|-------------------|-------------|--------|-------------|
| Pan Head | Cross | Zinc Plated Steel | M5 | 10 mm | 553605 |
| Pan Head | Cross | Zinc Plated Steel | M5 | 12 mm | 553611 |
| Pan Head | Cross | Zinc Plated Steel | M5 | 16 mm | 553627 |
| Pan Head | Cross | Zinc Plated Steel | M5 | 20 mm | 553633 |
| Pan Head | Cross | Zinc Plated Steel | M5 | 25 mm | 553649 |
| Pan Head | Cross | Zinc Plated Steel | M5 | 40 mm | 553655 |
| | | | | | |
| Pan Head | Cross | Zinc Plated Steel | M6 | 10 mm | 553661 |
| Pan Head | Cross | Zinc Plated Steel | M6 | 12 mm | 553677 |
| Pan Head | Cross | Zinc Plated Steel | M6 | 16 mm | 553683 |
| Pan Head | Cross | Zinc Plated Steel | M6 | 20 mm | 553699 |
| Pan Head | Cross | Zinc Plated Steel | M6 | 25 mm | 553706 |
| Pan Head | Cross | Zinc Plated Steel | M6 | 40 mm | 553712 |

PAN HEAD PHILLIPS MACHINE SCREWS DIN 7985 / ISO 7045 / JIS B 1111 / ANSI B 18.16.7 M



| Head Diameter (d2) | Size d1 | M1.6 | | M2 | | M2.6 | | M3 | | (M3.6) | | M4 | | M6 | | M8 | | M8 | | M10 | |
|-------------------------|---------|------|-----|-----|-----|------|-----|-----|-----|--------|-----|------|-----|------|-----|-------|------|-------|-----|-------|-----|
| Standard | | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max |
| DIN 7985 (1990) | | 2.9 | 3.2 | 3.7 | 4 | 4.7 | 5 | 5.7 | 6 | 6.64 | 7 | 7.64 | 8 | 9.64 | 10 | 11.57 | 12 | 15.57 | 16 | 19.48 | 20 |
| ISO 7045 (1994) | | 2.9 | 3.2 | 3.7 | 4 | 4.7 | 5 | 5.3 | 5.6 | 6.64 | 7 | 7.64 | 8 | 9.14 | 9.5 | 11.57 | 12 | 15.57 | 16 | 19.48 | 20 |
| JIS B 1111 (1977) | | | | 3.1 | 3.5 | 4.1 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 8.4 | 9 | 9.8 | 10.5 | 13.2 | 14 | | | |
| ANSI B 18.16.7 M (1986) | | | | 3.7 | 4 | 4.7 | 5 | 5.3 | 5.6 | 6.6 | 7 | 7.6 | 8 | 9.1 | 9.5 | 11.5 | 12 | 15.5 | 16 | 19.4 | 20 |

| Head Height (k) | Size d1 | M1.6 | | M2 | | M2.6 | | M3 | | (M3.6) | | M4 | | M6 | | M8 | | M8 | | M10 | |
|-------------------------|---------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|------|------|
| Standard | | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max |
| DIN 7985 (1990) | | 1.18 | 1.42 | 1.48 | 1.72 | 1.88 | 2.12 | 2.28 | 2.52 | 2.58 | 2.82 | 2.95 | 3.25 | 3.65 | 3.95 | 4.45 | 4.75 | 5.85 | 6.15 | 7.32 | 7.58 |
| ISO 7045 (1994) | | 1.15 | 1.3 | 1.46 | 1.6 | 1.95 | 2.1 | 2.26 | 2.4 | 2.45 | 2.6 | 2.92 | 3.1 | 3.52 | 3.7 | 4.3 | 4.6 | 5.7 | 6 | 7.14 | 7.5 |
| JIS B 1111 (1977) | | | | 1.2 | 1.4 | 1.6 | 1.8 | 1.85 | 2.15 | 2.15 | 2.45 | 2.45 | 2.75 | 3.15 | 3.45 | 3.7 | 4.1 | 5 | 5.4 | | |
| ANSI B 18.16.7 M (1986) | | | | 1.4 | 1.6 | 1.9 | 2.1 | 2.2 | 2.4 | 2.3 | 2.6 | 2.8 | 3.1 | 3.4 | 3.7 | 4.3 | 4.6 | 5.6 | 6 | 7.1 | 7.5 |

| Cross Recess Size (m) | Size d1 | M1.6 | | M2 | | M2.6 | | M3 | | (M3.6) | | M4 | | M6 | | M8 | | M8 | | M10 | |
|-------------------------|---------|------|---|----|---|------|---|----|--|--------|--|----|---|----|--|----|---|----|---|-----|--|
| Standard | | | | | | | | | | | | | | | | | | | | | |
| DIN 7985 (1990) | | | 0 | | | | 1 | | | | | | 2 | | | | 3 | | | 4 | |
| ISO 7045 (1994) | | | | 0 | | | 1 | | | | | 2 | | | | 3 | | | 4 | | |
| JIS B 1111 (1977) | | | | | 1 | | | | | | | 2 | | | | 3 | 3 | | 4 | | |
| ANSI B 18.16.7 M (1986) | | | | 0 | | | 1 | | | | | 2 | | | | 3 | | | 4 | | |

| Cross Recess Penetration (t) | Size d1 | M1.6 | | M2 | | M2.6 | | M3 | | (M3.6) | | M4 | | M6 | | M8 | | M8 | | M10 | |
|------------------------------|---------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|------|------|
| Standard | | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max |
| DIN 7985 (1990) | | 0.72 | 1.02 | 1.1 | 1.4 | 1.3 | 1.6 | 1.7 | 2 | 1.74 | 2.24 | 2.04 | 2.54 | 2.77 | 3.27 | 3.03 | 3.53 | 4.18 | 4.68 | 5.38 | 5.88 |
| ISO 7045 (1994) | | 0.70 | 0.95 | 0.9 | 1.2 | 1.15 | 1.55 | 1.4 | 1.8 | 1.4 | 1.9 | 1.9 | 2.4 | 2.4 | 2.9 | 3.1 | 3.6 | 4 | 4.6 | 5.2 | 5.8 |
| JIS B 1111 (1977) | | | | 0.6 | 1.01 | 1 | 1.42 | 0.86 | 1.43 | 1.15 | 1.73 | 1.45 | 2.03 | 2.14 | 2.73 | 2.26 | 2.85 | 3.73 | 4.36 | | |
| ANSI B 18.16.7 M (1986) | | 0.95 | 1.2 | 1.15 | 1.55 | 1.4 | 1.8 | 1.4 | 1.9 | 1.9 | 2.4 | 2.4 | 2.9 | 3.1 | 3.6 | 4 | 4.6 | 5.2 | 5.8 | | |

| Length Tolerance | | DIN7985/ISO7045 | |
|------------------|-------|-----------------|--|
| Nominal Length | min | max | |
| 2 | | | |
| 2.5 | | | |
| 3 | 3.8 | 3.2 | |
| 4 | 3.76 | 4.24 | |
| 5 | 4.76 | 5.24 | |
| 6 | 5.76 | 6.24 | |
| 8 | 7.71 | 8.29 | |
| 10 | 9.71 | 10.29 | |
| 12 | 11.65 | 12.35 | |
| (14) | 13.65 | 14.35 | |
| 16 | 15.65 | 16.35 | |
| (18) | 17.65 | 18.35 | |
| 20 | 19.58 | 20.42 | |
| (22) | 21.58 | 22.42 | |
| 25 | 24.58 | 25.42 | |
| (28) | 27.58 | 28.42 | |
| 30 | 29.58 | 30.42 | |
| 35 | 34.5 | 35.5 | |
| 40 | 39.5 | 40.5 | |
| 45 | 44.5 | 45.5 | |
| 50 | 49.5 | 50.5 | |
| (55) | 54.05 | 55.95 | |
| 60 | 59.05 | 60.95 | |
| (65) | 64.05 | 65.95 | |
| 70 | 69.05 | 70.95 | |
| (75) | 74.05 | 75.95 | |
| 80 | 79.05 | 80.95 | |
| 90 | 89.5 | 91.1 | |

| JIS B 1111 | | | | | |
|------------|-----|------|-----|-----|-----|
| min | max | min | max | min | max |
| 1.7 | 2 | | | | |
| 2.7 | 3 | | | | |
| 3.7 | 4 | | | | |
| 4.6 | 5 | 4.4 | 5 | 4.2 | 5 |
| 5.6 | 6 | 5.4 | 6 | 5.2 | 6 |
| 7.6 | 8 | 7.4 | 8 | 7.2 | 8 |
| 9.6 | 10 | 9.4 | 10 | 9.2 | 10 |
| 11.4 | 12 | 11.4 | 12 | 11 | 12 |
| 15.4 | 16 | 15.4 | 16 | 15 | 16 |
| 19.4 | 20 | 19.4 | 20 | 19 | 20 |
| 24.2 | 25 | 24.2 | 25 | 24 | 25 |
| 29.2 | 30 | 29.2 | 30 | 29 | 30 |
| 34.2 | 35 | 34.2 | 35 | 34 | 35 |
| 39.2 | 40 | 39.2 | 40 | 39 | 40 |
| | | 44 | 45 | 44 | 45 |
| | | 49 | 50 | 49 | 50 |
| | | 54 | 55 | 54 | 55 |
| | | | | 59 | 60 |
| | | | | 69 | 70 |
| | | | | 79 | 80 |
| | | | | 89 | 90 |

| ANSI B 18.16.7 M | |
|------------------|------|
| min | max |
| 2.3 | 2.7 |
| 2.8 | 3.2 |
| 3.7 | 4.3 |
| 4.7 | 5.3 |
| 5.7 | 6.3 |
| 7.7 | 8.3 |
| 9.7 | 10.3 |
| 12.7 | 13.3 |
| 15.7 | 16.3 |
| 19.5 | 20.5 |
| 24.5 | 25.5 |
| 29.5 | 30.5 |
| 34.5 | 35.5 |
| 39.5 | 40.5 |
| 44.5 | 45.5 |
| 49.5 | 50.5 |
| 54 | 56 |
| 59 | 61 |
| 64 | 66 |
| 69 | 71 |
| 79 | 81 |
| 89 | 91 |

Diameters & Lengths With () are not recommended for new design.

| Thread Pitch | Thread Tolerance Plain 5g | | |
|----------------|-------------------------------|-----------------------|--------------|
| Dia. Pitch | Thread Tolerance Plated 6h | | |
| M1.6 0.35 | Thread Tolerance Stainless 5g | | |
| M2 0.4 | | | |
| M2.5 0.45 | Material | 4.8 | A2 - A4 |
| M2.5 0.45 | Tensile Strength | 60900 | 72500-101500 |
| M3 0.5 | | | |
| M3.5 0.6 | Yield Strength | 49300 | 30450-65250 |
| M4 0.7 | | | |
| M5 0.8 | Hardness | HRB | NA |
| M6 1 | | | |
| M8 1.25 | | | |
| M10 1.5 | | | |
| Property Class | 4.8 | Steel Stainless Steel | |
| Finish | Plain /Plated | Plain | |

For Machine Screws, The Letter A After The DIN Number Indicates Full Thread. Unless Requested, All Machine Screws Are Supplied As Full Thread, Therefore We Omit The A.