

Datasheet

RS Stock No: 9087407

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



Countersunk, also known as Flat Head Machine Screws, are designed for ease of assembly and these slotted drive types are the most popular. 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
- Slotted drive type
- Threaded in accordance with DIN 963 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 slotted screwdriver



ENGLISH

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

| Head Shape | Drive Type | Material | Thread Size | Length | RS Part No. |
|-------------|------------|-------------------|-------------|--------|-------------|
| Countersunk | Slot | Zinc Plated Steel | M2.5 | 10 mm | 9087356 |
| Countersunk | Slot | Zinc Plated Steel | M2.5 | 20 mm | 9087365 |
| | | | | | |
| Countersunk | Slot | Zinc Plated Steel | M3 | 8 mm | 9087368 |
| Countersunk | Slot | Zinc Plated Steel | M3 | 10 mm | 9087362 |
| Countersunk | Slot | Zinc Plated Steel | M3 | 16 mm | 9087371 |
| Countersunk | Slot | Zinc Plated Steel | M3 | 25 mm | 9087374 |
| | | | | | |
| Countersunk | Slot | Zinc Plated Steel | M3.5 | 6 mm | 9087378 |
| Countersunk | Slot | Zinc Plated Steel | M3.5 | 10 mm | 9087387 |
| Countersunk | Slot | Zinc Plated Steel | M3.5 | 12 mm | 9087380 |
| Countersunk | Slot | Zinc Plated Steel | M3.5 | 16 mm | 9087384 |
| Countersunk | Slot | Zinc Plated Steel | M3.5 | 20 mm | 9087393 |
| Countersunk | Slot | Zinc Plated Steel | M3.5 | 25 mm | 9087396 |
| | | | | | |
| Countersunk | Slot | Zinc Plated Steel | M4 | 6 mm | 9087390 |
| Countersunk | Slot | Zinc Plated Steel | M4 | 8 mm | 9087400 |
| Countersunk | Slot | Zinc Plated Steel | M4 | 10 mm | 9087403 |
| Countersunk | Slot | Zinc Plated Steel | M4 | 30 mm | 9087407 |
| Countersunk | Slot | Zinc Plated Steel | M4 | 40 mm | 9087416 |
| Countersunk | Slot | Zinc Plated Steel | M4 | 50 mm | 9087419 |
| | | | | | |
| Countersunk | Slot | Zinc Plated Steel | M5 | 10 mm | 9087413 |
| Countersunk | Slot | Zinc Plated Steel | M5 | 30 mm | 9087422 |
| Countersunk | Slot | Zinc Plated Steel | M5 | 35 mm | 9087425 |
| Countersunk | Slot | Zinc Plated Steel | M5 | 40 mm | 9087429 |
| Countersunk | Slot | Zinc Plated Steel | M5 | 50 mm | 9087438 |

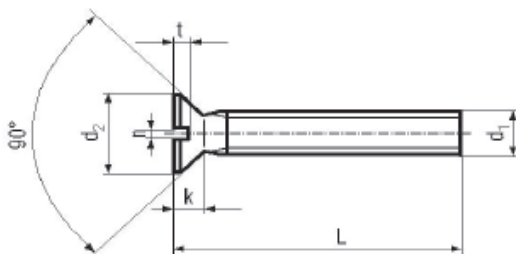


ENGLISH

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

| Head Shape | Drive Type | Material | Thread Size | Length | RS Part No. |
|-------------------|-------------------|-------------------|--------------------|---------------|--------------------|
| Countersunk | Slot | Zinc Plated Steel | M6 | 10 mm | 9087431 |
| Countersunk | Slot | Zinc Plated Steel | M6 | 30 mm | 9087435 |
| Countersunk | Slot | Zinc Plated Steel | M6 | 35 mm | 9087444 |
| Countersunk | Slot | Zinc Plated Steel | M6 | 50 mm | 9087447 |
| Countersunk | Slot | Zinc Plated Steel | M6 | 60 mm | 9087441 |
| | | | | | |
| Countersunk | Slot | Zinc Plated Steel | M8 | 20 mm | 9087450 |
| Countersunk | Slot | Zinc Plated Steel | M8 | 25 mm | 9087453 |
| Countersunk | Slot | Zinc Plated Steel | M8 | 30 mm | 9087457 |
| Countersunk | Slot | Zinc Plated Steel | M8 | 40 mm | 9087466 |
| Countersunk | Slot | Zinc Plated Steel | M8 | 50 mm | 9087469 |

FLAT HEAD SLOTTED MACHINE SCREWS DIN 963 / ISO 2009 / JIS B 1101 / ANSI B 18.16.7 M



| Head Diameter (d2) | Size d1 | M1.6 | | M2 | | M2.5 | | M3 | | (M3.6) | | M4 | | M6 | | M8 | | M10 | |
|-------------------------|---------|------|------|------|------|------|------|------|------|--------|------|------|------|------|-------|-------|-------|-------|-------|
| Standard | | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max |
| DIN 963 (1990) | | 2.85 | 3.00 | 3.50 | 3.80 | 4.40 | 4.70 | 5.30 | 5.60 | 6.14 | 6.50 | 7.14 | 7.50 | 8.84 | 9.20 | 10.57 | 11.00 | 14.07 | 14.50 |
| ISO 2009 (1994) | | 2.70 | 3.00 | 3.50 | 3.80 | 4.40 | 4.70 | 5.30 | 5.50 | 6.94 | 7.30 | 8.04 | 8.40 | 8.94 | 9.30 | 10.87 | 11.30 | 15.37 | 15.80 |
| JIS B 1101 (1977) | | 2.80 | 3.20 | 3.60 | 4.00 | 4.60 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 | 9.40 | 10.00 | 11.30 | 12.00 | 15.20 | 16.00 |
| ANSI B 18.16.7 M (1985) | | | | 3.50 | 4.40 | | | 5.20 | 6.90 | | | 8.00 | 8.90 | | | 10.90 | 15.40 | | 17.80 |

| Head Height (k) | Size d1 | M1.6 | | M2 | | M2.5 | | M3 | | (M3.6) | | M4 | | M6 | | M8 | | M10 | |
|-------------------------|---------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|
| Standard | | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max |
| DIN 963 (1990) | | | 0.95 | | 1.20 | | 1.50 | | 1.65 | | 1.93 | | 2.20 | | 2.50 | | 3.00 | | 4.00 |
| ISO 2009 (1994) | | | 1.00 | | 1.20 | | 1.50 | | 1.65 | | 2.35 | | 2.70 | | 3.00 | | 3.30 | | 4.65 |
| JIS B 1101 (1977) | | 0.85 | 0.95 | 1.00 | 1.20 | 1.25 | 1.45 | 1.45 | 1.75 | 1.70 | 2.00 | 2.00 | 2.30 | 2.50 | 2.90 | 3.00 | 3.40 | 4.00 | 4.40 |
| ANSI B 18.16.7 M (1985) | | | | | 1.20 | | 1.50 | | 1.70 | | 2.30 | | 2.70 | | 2.70 | | 3.30 | | 4.60 |

| Slot Width (n) | Size d1 | M1.6 | | M2 | | M2.5 | | M3 | | (M3.6) | | M4 | | M6 | | M8 | | M10 | |
|-------------------------|---------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|
| Standard | | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max |
| DIN 963 (1990) | | 0.45 | 0.60 | 0.55 | 0.70 | 0.65 | 0.80 | 0.85 | 1.00 | 0.85 | 1.00 | 1.05 | 1.20 | 1.25 | 1.51 | 1.66 | 1.91 | 2.05 | 2.31 |
| ISO 2009 (1994) | | 0.45 | 0.60 | 0.55 | 0.70 | 0.65 | 0.80 | 0.85 | 1.00 | 1.05 | 1.20 | 1.25 | 1.51 | 1.66 | 1.91 | 2.05 | 2.31 | 2.55 | 2.81 |
| JIS B 1101 (1977) | | 0.40 | 0.55 | 0.60 | 0.75 | 0.80 | 0.95 | 0.80 | 0.95 | 1.00 | 1.15 | 1.00 | 1.15 | 1.20 | 1.40 | 1.20 | 1.40 | 1.60 | 1.80 |
| ANSI B 18.16.7 M (1985) | | | | 0.50 | 0.70 | 0.60 | 0.80 | 0.80 | 1.00 | 1.00 | 1.20 | 1.20 | 1.50 | 1.20 | 1.50 | 1.60 | 1.90 | 2.00 | 2.30 |

| Slot Depth (t) | Size d1 | M1.6 | | M2 | | M2.5 | | M3 | | (M3.6) | | M4 | | M6 | | M8 | | M10 | |
|-------------------------|---------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|
| Standard | | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max | min | max |
| DIN 963 (1990) | | 0.32 | 0.45 | 0.40 | 0.60 | 0.50 | 0.70 | 0.60 | 0.85 | 0.70 | 1.00 | 0.80 | 1.10 | 1.00 | 1.30 | 1.20 | 1.60 | 2.10 | 3.00 |
| ISO 2009 (1994) | | 0.32 | 0.50 | 0.40 | 0.60 | 0.50 | 0.75 | 0.60 | 0.85 | 0.90 | 1.20 | 1.00 | 1.30 | 1.10 | 1.40 | 1.20 | 1.60 | 1.80 | 2.00 |
| JIS B 1101 (1977) | | 0.30 | 0.40 | 0.40 | 0.60 | 0.50 | 0.70 | 0.60 | 0.80 | 0.65 | 0.95 | 0.75 | 1.05 | 0.90 | 1.30 | 1.15 | 1.55 | 1.50 | 2.10 |
| ANSI B 18.16.7 M (1985) | | | | 0.40 | 0.60 | 0.50 | 0.70 | 0.60 | 0.90 | 0.90 | 1.20 | 1.00 | 1.30 | 1.10 | 1.40 | 1.20 | 1.60 | 1.80 | 2.30 |

| Length Tolerance | | DIN963/ISO2009 | |
|------------------|--|----------------|-------|
| Nominal Length | | min | max |
| 2 | | | |
| 2.5 | | | |
| 3 | | 2.80 | 3.20 |
| 4 | | 3.75 | 4.24 |
| 5 | | 4.75 | 5.24 |
| 6 | | 5.75 | 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 | | 34.50 | 35.50 |
| 40 | | 39.50 | 40.50 |
| 45 | | 44.50 | 45.50 |
| 50 | | 49.50 | 50.50 |
| (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 | | 88.90 | 91.10 |

| JIS B 1101 | | | | | |
|------------|-----|------|-----|-----|-----|
| 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 |
| 11.7 | 12.3 |
| 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 5h | |
| M1.6 | 0.35 | Thread Tolerance Stainless 5h | |
| M2 | 0.4 | Material | A-8 A2-A4 |
| M2.5 | 0.45 | Tensile Strength | 60900 72500-101500 |
| (M2.5) | 0.45 | Yield Strength | 49300 30450-65250 |
| M3 | 0.5 | Hardness | HRB 71-99.5 NA |
| (M3.5) | 0.6 | | |
| M4 | 0.7 | | |
| M5 | 0.8 | | |
| M6 | 1 | | |
| (M8) | 1.25 | | |
| (M10) | 1.5 | Steel | Stainless Steel |
| Property Class | | 4.8 A2-A4 | |
| Finish | | Plain /Plated Plain | |
| DIN 963 (1990) | | Do Not Specify A Minimum Head Height | |
| ISO 2009 (1994) | | | |
| ANSI B 18.16.7 M (1985) | | | |
| ANSI B 18.16.7 M (1985) | | Does Not Specify A Maximum Head Diameter | |
| 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. | | | |