



External Thread Dimensions for Metric Coarse Pitch Screw Threads

| Diameter | Pitch | Thread Fit Class | Major Diameter | | Pitch Diameter | | Minor Diameter | Stress Area | Tapping Drill Size | Clearance Drill Size |
|----------|-------|------------------|----------------|--------|----------------|--------|----------------|-----------------|--------------------|----------------------|
| | | | Max | Min | Max | Min | Min | mm ² | mm | mm |
| M1.6 | 0.35 | 6g | 1.581 | 1.496 | 1.354 | 1.291 | 1.075 | 1.27 | 1.25 | 1.65 |
| M1.8 | 0.35 | 6g | 1.781 | 1.696 | 1.554 | 1.491 | 1.275 | 1.7 | 1.45 | 1.85 |
| M2 | 0.4 | 6g | 1.981 | 1.886 | 1.721 | 1.654 | 1.408 | 2.07 | 1.60 | 2.05 |
| M2.2 | 0.45 | 6g | 2.180 | 2.080 | 1.888 | 1.817 | 1.539 | 2.48 | 1.75 | 2.25 |
| M2.5 | 0.45 | 6g | 2.480 | 2.380 | 2.188 | 2.117 | 1.839 | 3.39 | 2.05 | 2.60 |
| M3 | 0.5 | 6g | 2.980 | 2.874 | 2.655 | 2.580 | 2.272 | 5.03 | 2.50 | 3.10 |
| M3.5 | 0.6 | 6g | 3.479 | 3.354 | 3.089 | 3.004 | 2.635 | 6.78 | 2.90 | 3.60 |
| M4 | 0.7 | 6g | 3.978 | 3.838 | 3.523 | 3.433 | 3.002 | 8.78 | 3.30 | 4.10 |
| M4.5 | 0.75 | 6g | 4.478 | 4.338 | 3.991 | 3.901 | 3.439 | 11.30 | 3.70 | 4.60 |
| M5 | 0.80 | 6g | 4.976 | 4.826 | 4.456 | 4.361 | 3.868 | 14.20 | 4.20 | 5.10 |
| | | 8g | 4.976 | 4.740 | 4.456 | 4.306 | 3.814 | 14.20 | 4.20 | 5.10 |
| M6 | 1.0 | 6g | 5.974 | 5.794 | 5.324 | 5.212 | 4.597 | 20.1 | 5.00 | 6.10 |
| | | 8g | 5.974 | 5.694 | 5.324 | 5.144 | 4.528 | 20.1 | 5.00 | 6.10 |
| M8 | 1.25 | 6g | 7.972 | 7.760 | 7.160 | 7.042 | 6.272 | 36.6 | 6.80 | 8.20 |
| | | 8g | 7.972 | 7.637 | 7.160 | 6.970 | 6.200 | 36.6 | 6.80 | 8.20 |
| M10 | 1.5 | 6g | 9.968 | 9.732 | 8.994 | 8.862 | 7.938 | 58.0 | 8.50 | 10.20 |
| | | 8g | 9.968 | 9.593 | 8.994 | 8.782 | 7.858 | 58.0 | 8.50 | 10.20 |
| M12 | 1.75 | 6g | 11.966 | 11.701 | 10.829 | 10.679 | 9.602 | 84.3 | 10.20 | 12.20 |
| | | 8g | 11.966 | 11.541 | 10.829 | 10.593 | 9.516 | 84.3 | 10.20 | 12.20 |
| M14 | 2.0 | 6g | 13.962 | 13.682 | 12.663 | 12.503 | 11.271 | 115.0 | 12.00 | 14.25 |
| | | 8g | 13.962 | 13.512 | 12.663 | 12.413 | 11.181 | 115.0 | 12.00 | 14.25 |
| M16 | 2.0 | 6g | 15.962 | 15.682 | 14.663 | 14.503 | 13.271 | 157.0 | 14.00 | 16.25 |
| | | 8g | 15.962 | 15.512 | 14.663 | 14.413 | 13.181 | 157.0 | 14.00 | 16.25 |
| M18 | 2.5 | 6g | 17.958 | 17.623 | 16.334 | 16.164 | 14.624 | 192.0 | 15.50 | 18.25 |
| | | 8g | 17.958 | 17.428 | 16.334 | 16.069 | 14.529 | 192.0 | 15.50 | 18.25 |
| M20 | 2.5 | 6g | 19.958 | 19.623 | 18.334 | 18.164 | 16.624 | 245.0 | 17.50 | 20.25 |
| | | 8g | 19.958 | 19.428 | 18.334 | 18.069 | 16.529 | 245.0 | 17.50 | 20.25 |
| M22 | 2.5 | 6g | 21.958 | 21.623 | 20.334 | 20.164 | 18.624 | 303.0 | 19.50 | 22.25 |
| | | 8g | 21.958 | 21.428 | 20.334 | 20.069 | 18.529 | 303.0 | 19.50 | 22.25 |
| M24 | 3.0 | 6g | 23.952 | 23.577 | 22.003 | 21.803 | 19.955 | 353.0 | 21.00 | 24.25 |
| | | 8g | 23.952 | 23.352 | 22.003 | 21.688 | 19.840 | 353.0 | 21.00 | 24.25 |
| M27 | 3.0 | 6g | 26.952 | 26.577 | 25.003 | 24.803 | 22.955 | 459.0 | 24.00 | 27.25 |
| | | 8g | 26.952 | 26.352 | 25.003 | 24.688 | 22.840 | 459.0 | 24.00 | 27.25 |
| M30 | 3.5 | 6g | 29.947 | 29.522 | 27.674 | 27.462 | 25.305 | 561.0 | 26.50 | 30.50 |
| | | 8g | 29.947 | 29.277 | 27.674 | 27.339 | 25.182 | 561.0 | 26.50 | 30.50 |
| M33 | 3.5 | 6g | 32.947 | 32.522 | 30.674 | 30.462 | 28.305 | 694.0 | 29.50 | 33.50 |
| | | 8g | 32.947 | 32.277 | 30.674 | 30.339 | 28.182 | 694.0 | 29.50 | 33.50 |
| M36 | 4.0 | 6g | 35.940 | 35.465 | 33.342 | 33.118 | 30.654 | 817.0 | 32.00 | 36.50 |
| | | 8g | 35.940 | 35.190 | 33.342 | 32.987 | 30.523 | 817.0 | 32.00 | 36.50 |
| M39 | 4.0 | 6g | 38.940 | 38.465 | 36.342 | 36.118 | 33.654 | 976.0 | 35.00 | 39.50 |
| | | 8g | 38.940 | 38.190 | 36.342 | 35.987 | 33.523 | 976.0 | 35.00 | 39.50 |
| M42 | 4.5 | 6g | 41.937 | 41.437 | 39.014 | 38.778 | 36.006 | 1121.0 | 37.50 | 42.50 |
| | | 8g | 41.937 | 41.137 | 39.014 | 38.639 | 35.876 | 1121.0 | 37.50 | 42.50 |
| M45 | 4.5 | 6g | 44.937 | 44.437 | 42.014 | 41.778 | 39.006 | 1306.0 | 40.50 | 45.50 |
| | | 8g | 44.937 | 44.137 | 42.014 | 41.639 | 38.867 | 1306.0 | 40.50 | 45.50 |
| M48 | 5.0 | 6g | 47.929 | 47.399 | 44.681 | 44.431 | 41.351 | 1473.0 | 43.00 | 48.50 |
| | | 8g | 47.929 | 47.079 | 44.681 | 44.281 | 41.201 | 1473.0 | 43.00 | 48.50 |
| M52 | 5.0 | 6g | 51.929 | 51.399 | 48.681 | 48.431 | 45.351 | 1758.0 | 47.00 | 53.00 |
| | | 8g | 51.929 | 51.079 | 48.681 | 48.281 | 45.201 | 1758.0 | 47.00 | 53.00 |
| M56 | 5.5 | 6g | 55.925 | 55.365 | 52.353 | 52.088 | 48.700 | 2030.0 | 50.50 | 57.00 |
| | | 8g | 55.925 | 55.025 | 52.353 | 51.928 | 48.540 | 2030.0 | 50.50 | 57.00 |
| M64 | 6.0 | 6g | 63.920 | 63.320 | 60.023 | 59.743 | 56.047 | 2676.0 | 58.00 | 65.00 |
| | | 8g | 63.920 | 62.970 | 60.023 | 59.573 | 55.877 | 2676.0 | 58.00 | 65.00 |
| M72 | 6.0 | 6g | 71.920 | 71.320 | 68.023 | 67.743 | 64.047 | 3460.0 | 66.00 | 73.00 |
| M80 | 6.0 | 6g | 79.920 | 79.320 | 76.023 | 75.743 | 72.047 | 4340.0 | 74.00 | 81.00 |
| M90 | 6.0 | 6g | 89.920 | 89.320 | 86.023 | 85.743 | 82.047 | 5590.0 | 84.00 | 91.00 |
| M100 | 6.0 | 6g | 99.920 | 99.320 | 96.023 | 95.723 | 92.027 | 6990.0 | 94.00 | 102.00 |