

ACORN NUTS; METRIC

| Nominal Size | Thread Pitch | F | G | H | T | 0 |
|--------------|--------------|--------------------|----------------------|----------------|-------------|----------------|
| | | Width Across Flats | Width Across Corners | Overall Height | Drill Depth | Hexagon Height |
| | | Ref | Min | Ref | Ref | Ref |
| M3 | 0.50 | 5.50 | 6.08 | 6 | 3.80 | |
| M4 | 0.70 | 7 | 7.74 | 8 | 5.50 | 4 |
| M5 | 0.80 | 8 | 8.87 | 10 | 7.50 | |
| M6 | 1 | 10 | 11.05 | 12 | | |
| M8 | 1.25 | 13 | 14.38 | 15 | 11 | 6.50 |
| M10 | 1.50 | 17 | 18.90 | 18 | 13 | 8 |
| M12 | 1.75 | 19 | 21.10 | 22 | 16 | 10 |
| M16 | 2 | 24 | 26.75 | 28 | 21 | 13 |
| M20 | 2.5 | 30 | 33.53 | 34 | 26 | 16 |
| M24 | 3 | 36 | 39.98 | 42 | 31 | 19 |

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| Description | A one-piece hex nut, milled-from-the-bar, with a dome-shaped top (similar in shape to an acorn) and a threaded hole at the opposite end. |
| Applications/ Advantages | Cap nuts serve two main purposes: (1) as decorative pieces, and (2) as covers for projecting threads. |
| Material | Class 6 cap nuts shall be made from a low-carbon steel which conforms to the following chemical composition requirements-- <i>Carbon: 0.50% max.; Phosphorus: 0.060% max.; Sulfur: 0.150% max..</i> |
| Hardness | M3 - M16: Vickers HV 150 - 302 (Rockwell B 78.7 - C 30) over M16 - M24: Vickers HV 170 - 302 (Rockwell B 85 - C 30) |
| Plating | See Appendix-A for information about the plating of steel cap nuts. |