



Metric Hex Bolts Set (M6, M8, M10)



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Summary

A complete collection of standard metric hex bolts and matching nuts.

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Tags: [nut](#) [functional](#) [assembly](#) [mechanical](#) [engineering](#)
[hex](#) [hardware](#) [screw](#) [bolt](#) [thread](#) [metric](#) [fastener](#)
[m6](#) [m10](#) [m8](#)

Title: Ultimate Metric Hex Hardware Set (M6, M8, M10) - Print-in-Place

Summary: A complete, high-tolerance collection of standard metric hex bolts and matching nuts. Includes M6, M8, and M10 thread profiles in multiple lengths for functional mechanical assemblies, custom jigs, and prototyping.

Description:

This is a precision-modeled set of fully functional metric hex bolts and nuts. Designed with standard metric thread pitches, these fasteners are optimized to thread together smoothly straight off the build plate without the need for post-processing or tapping.

The collection includes 15 bolt variations and 3 corresponding nuts[cite: 19]:

Included Sizes:

M6 x 1.0 (Lengths: 10mm, 15mm, 20mm, 25mm, 30mm)[cite: 19] with matching Nut[cite: 19]

M8 x 1.25 (Lengths: 10mm, 15mm, 20mm, 25mm, 30mm)[cite: 19] with matching Nut[cite: 19]

M10 x 1.5 (Lengths: 10mm, 20mm, 25mm, 30mm)[cite: 19] with matching Nut[cite: 19]

Recommended Print Settings:

Layer Height: 0.12mm to 0.16mm (Do not exceed 0.16mm to prevent thread sag).

Wall Loops / Perimeters: 4 to 6 walls for maximum shear strength.

Infill: 30% to 50% Gyroid or Cubic.

Orientation: Print bolts vertically on the hex head; print nuts flat on the bed.

Supports: None required.

Material Choice: PETG, ABS, or ASA for load-bearing; PLA for light-duty.

XY Hole/Contour Compensation: Apply -0.05mm to -0.1mm if your printer over-extrudes.

Tags:

metric, bolt, nut, hardware, m6, m8, m10, fastener, screw, mechanical, assembly, functional, hex, thread, engineering

Model files



m10x15x10.stl



m10x15x20.stl



m8x125x10.stl



m6x1x10.stl



m6x1x15.stl



m6x1x20.stl



m6x1x25.stl



m10x15x30.stl



m8x125x25.stl



m8x125x20.stl



m8x125x30.stl



m10x15x25.stl



m8x125x15.stl



m6x1x30.stl



nut-m8x125.stl



nut-m10-x-15.stl



nut-m6x1.stl

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