



Durable Print-Optimized Screws



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Summary

Durable Screws, modified threads for optimized print orientation

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Tags: [screw](#) [heavyduty](#) [durable](#) [printoptimized](#)

When printing screws upright the threads are printed with the best quality but the screws are not durable because they snap between the layer lines.

So I designed screw models that are **optimized for printing** flat on the side.

The optimized screws are way more **durable** than upright standing screws

The Screws use **metric ISO standart thread** and the lengths can be **customized** in **Fusion 360** using parameters.

The threads on the bottom and top are removed and the head gets a bit thinner.

Because of that the wrench-size is different and an open-ended wrench might not work as good anymore. But using a ring-spanner (as shown in the picture) works perfectly.

Model files

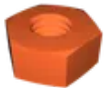


M3

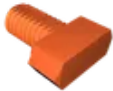
6 files



durable-screw-m3-customizable.f3d



durable-nut-m3.stl



durable-screw-m3x5.stl



durable-screw-m3x10.stl



durable-screw-m3x15.stl



durable-screw-m3x20.stl

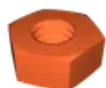


M4

6 files



durable-screw-m4-customizable.f3d



durable-nut-m4.stl



durable-screw-m4x10.stl



durable-screw-m4x15.stl



durable-screw-m4x20.stl

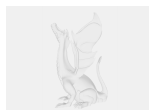


durable-screw-m4x25.stl

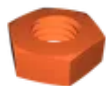


M5

7 files



durable-screw-m5-customizable.f3d



durable-nut-m5.stl



durable-screw-m5x10.stl



durable-screw-m5x15.stl



durable-screw-m5x20.stl



durable-screw-m5x25.stl



durable-screw-m5x30.stl

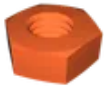


M6

6 files



durable-screw-m6-customizable.f3d



durable-nut-m6.stl



durable-screw-m6x15.stl



durable-screw-m6x20.stl



durable-screw-m6x25.stl



durable-screw-m6x30.stl

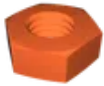


M8

8 files



durable-screw-m8-customizable.f3d



durable-nut-m8.stl



durable-screw-m8x15.stl



durable-screw-m8x20.stl



durable-screw-m8x25.stl



durable-screw-m8x30.stl



durable-screw-m8x35.stl



durable-screw-m8x40.stl

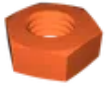


M10

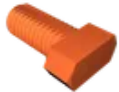
11 files



durable-screw-m10-customizable.f3d



durable-nut-m10.stl



durable-screw-m10x20.stl



durable-screw-m10x25.stl



durable-screw-m10x30.stl



durable-screw-m10x35.stl



durable-screw-m10x40.stl



durable-screw-m10x45.stl



durable-screw-m10x50.stl



durable-screw-m10x60.stl



durable-screw-m10x70.stl



M12

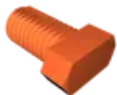
9 files



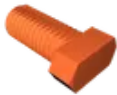
durable-screw-m12-customizable.f3d



durable-nut-m12.stl



durable-screw-m12x20.stl



durable-screw-m12x25.stl



durable-screw-m12x30.stl



durable-screw-m12x40.stl



durable-screw-m12x50.stl



durable-screw-m12x60.stl



durable-screw-m12x70.stl



M14

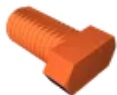
9 files



durable-nut-m14.stl



durable-screw-m14-customizable.f3d



durable-screw-m14x25.stl



durable-screw-m14x30.stl



durable-screw-m14x40.stl



durable-screw-m14x50.stl



durable-screw-m14x70.stl



durable-screw-m14x80.stl



durable-screw-m14x60.stl

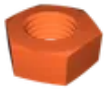


M16

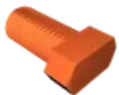
8 files



durable-screw-m16-customizable.f3d



durable-nut-m16.stl



durable-screw-m16x30.stl



durable-screw-m16x40.stl



durable-screw-m16x50.stl



durable-screw-m16x60.stl



durable-screw-m16x80.stl

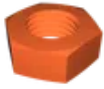


durable-screw-m16x100.stl



M20

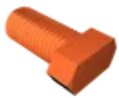
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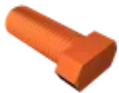
durable-nut-m20.stl



durable-screw-m20-customizable.f3d



durable-screw-m20x40.stl



durable-screw-m20x50.stl



durable-screw-m20x60.stl



durable-screw-m20x80.stl



durable-screw-m20x100.stl



durable-screw-m20x120.stl

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