



Mini Ratchet Tool Set

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Summary

Compact 1/4" Hex Drive Ratchet Tool Set

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Tags: [wrench](#) [tools](#) [sockets](#) [ratchet](#) [allen](#) [torx](#)

Overview:

I wanted a mini 1/4" hex drive ratchet set at work for confined areas where large tools don't fit. There is a great set by Wadsworth, but \$160 was a too pricey. So I picked up a \$15 VIM Tools HBR3 and some hex drive bits from Menards. That way I could have every bit I needed and none that I don't. A quick trip to Solidworks, and some printing time later and I have the perfect mini ratchet set for my needs.

Native Solidworks file included, as well as conversions to Step, X_T, Fusion360, STL, and 3MF. Hopefully these files can be useful for you, or inspire your own designs.

Materials:

I printed my 3D Printed Parts in red Inland PLA.

The ratchet is a VIM Tools HBR3: https://www.amazon.com/dp/B002Y05COI?psc=1&ref=ppx_yo2_dt_b_product_details

Bits were from Menards

Allens: <https://www.menards.com/main/tools/hand-tools/screwdrivers-nut-drivers-sets/masterforce-reg-universal-key-set-21-piece/mf-80964/p-1841405562358126-c-9158.htm?tid=-6847288692206791051&ipos=1>

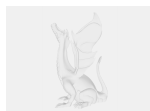
Torx: <https://www.menards.com/main/tools/power-tool-accessories/drive-bits-accessories/tool-shop-reg-star-1-insert-drive-bit-set-10-piece/2520710/p-1444444262990-c-10156.htm?tid=-5099604113397020201&ipos=1>

SAE Nut Drivers: <https://www.menards.com/main/tools/power-tool-accessories/drive-bits-accessories/performax-reg-hex-drive-sae-nut-setter-set-10-piece/c043399/p-1559284410649-c-10156.htm?tid=-6453942241528758819&ipos=1>

Metric Nut Drivers: <https://www.menards.com/main/tools/power-tool-accessories/drive-bits-accessories/performax-reg-hex-drive-metric-nut-setter-set-10-piece/c043400/p-1559284410585-c-10156.htm?tid=1328723502021735696&ipos=1>

Magnetic Bit Holder: <https://www.menards.com/main/tools/power-tool-accessories/drive-bits-accessories/performax-reg-magnetic-insert-drive-bit-holder/c044321/p-1444444260314-c-10156.htm?tid=4038674701672762665&ipos=1>

Model files



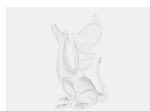
mini_ratchet_tool_set.f3d



mini_ratchet_tool_set.3mf



mini_ratchet_tool_set.stl



mini_ratchet_tool_set.step



mini_ratchet_tool_set.sldprt

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