



toy_screwdriver_handle



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Summary

Parametric, kid-friendly ergonomic toy screwdriver handle designed for a 9mm square bit.

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Toy Screwdriver Handle (9mm Square Bit)

This is a parametric, kid-friendly ergonomic toy screwdriver handle designed for a 9mm square bit. It features a bulbous palm swell, a rounded rear pommel, an ergonomic finger waist, a forward safety collar to prevent fingers from slipping, tactile grip flutes around the circumference, a tapered lead-in funnel chamfer to guide the bit in easily, and an optional internal pocket for an 8x3mm retention disc magnet.

Key Parameters

- bit_width (9.0mm): Nominal width of the square screwdriver bit.
- bit_clearance (0.3mm): Per-side clearance for 3D printing fit.
- bit_depth (25.0mm): Insertion depth of the square bit socket.
- handle_length (80.0mm): Total handle length sized for kids' hands.

License

This model is free to use, modify, and edit for personal applications with attribution.

You can find this model and others in my GitHub repository: https://github.com/SinaChavoshi/3d_printer_agentic_models

This is a fully parameterized model! You can play around with it using OpenSCAD to modify its dimensions and features to fit your exact needs.

Model files



toy_screwdriver_handle.scad

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