

Great for Beginners

SE Tool Head | Single Extruder | 0.5 mm

Versatility and precision come standard with the LulzBot SE Tool Head, featuring the Universal Mounting System, and the industry leading Titan Aero Hot End and Extruder from E3D. This tried and true combination enables a vast palette of supported 3D printing material, both rigid and flexible. As the featured tool head on the LulzBot Mini 2 3D Printer, the SE tool head is here to bring even more performance and dependability to your already trusty LulzBot TAZ 6, TAZ 5, and LulzBot Mini 1.

Compatibility Alert:

This tool head is currently compatible with the [LulzBot Mini 2 3D Printer](#). LulzBot Mini 1, TAZ 5 & TAZ 6 users will be able to upgrade to the SE Tool Head with the [TAZ 5/6 Universal Tool Head Adapter](#) and the [Mini 1 Universal Tool Head Adapter](#).

Works with: LulzBot Mini 2

- **Features**

The LulzBot SE Tool Head features a genuine E3D Titan Aero Extruder/Hot End with a 0.50 millimeter nozzle enabling out of the box 3D printing with over 35 materials, including flexibles! This tool head is currently compatible with the LulzBot Mini 2 3D Printer. LulzBot Mini 1, TAZ 5 & TAZ 6 users can add this tool head with the TAZ 5/6 Universal Tool Head Adapter and the Mini 1 Universal Tool Head Adapter.

A high-output centrifugal fan and quad-port cooling duct support elaborate prints with extensive bridging, cooling filament in 360-degrees before it has time to sag between points.

The Universal Mounting System makes swapping tool heads easy, you'll have the right tool head for the right job installed in minutes.

- **Parts & Specifications**

Parts Included

(1) LulzBot SE Tool Head | 0.5 mm (Fully Assembled)

Specifications

Layer Resolution: 0.05 mm - 0.5 mm (0.002 in - 0.020 in)

Nozzle Diameter: 0.5 mm

Hot End Temperature Range: 120°C - 290°C (248°F - 554°F)

Hot End Heatup Time: From 23°C to 210°C (73°F to 410°F) in 73 seconds

Extruder & Hot End: Genuine E3D Titan Aero


Required power system: 24 Volts

Fans: (1) 5v 40 mm heat sink cooling fan, and (1) 360° print cooling fan

Recommended filament diameter: 2.85 mm diameter (3 mm)





Certified Open Source Hardware: US000138

Tool Head Comparison

 98 mm x 98 mm x 15 mm Print Dimensions

 IC3D PETg Blue



Tool Head	Material	Layer Height	Print Time
 LULZBOT SL Tool Head Small Layer 0.25 mm	IC3D PETg Blue	0.1 mm Layer Height	10:20 Print Time
 LULZBOT SE Tool Head Single Extruder 0.5 mm	IC3D PETg Blue	0.28 mm Layer Height	1:38 Print Time
 LULZBOT HS Tool Head Hardened Steel 0.8 mm	IC3D PETg Blue	0.4 mm Layer Height	0:59 Print Time
 LULZBOT HS+ Tool Head Hardened Steel 1.2 mm	IC3D PETg Blue	0.6 mm Layer Height	0:33 Print Time

5 mm Tooth Height

Tool Head Comparison

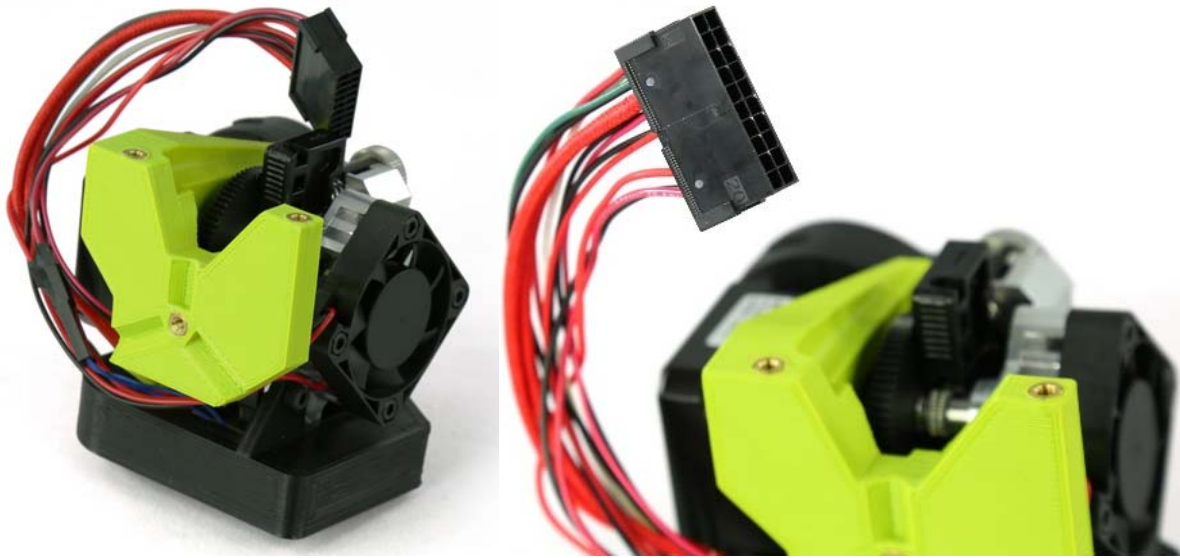
 Two Hour Print Time

 PolyLite PLA True Grey



Tool Head	Material	Layer Height	Dimensions
 LULZBOT SL Tool Head Small Layer 0.25 mm	PolyLite PLA True Grey	0.1 mm Layer Height	12.7 x 12.7 x 14.7 mm
 LULZBOT SE Tool Head Single Extruder 0.5 mm	PolyLite PLA True Grey	0.25 mm Layer Height	23.3 x 23.3 x 27.0 mm
 LULZBOT HS Tool Head Hardened Steel 0.8 mm	PolyLite PLA True Grey	0.4 mm Layer Height	32.4 x 32.4 x 37.5 mm
 LULZBOT HS+ Tool Head Hardened Steel 1.2 mm	PolyLite PLA True Grey	0.6 mm Layer Height	41.7 x 41.7 x 48.3 mm

4 mm



<https://www.lulzbot.com/store/tool-heads/se-tool-head-single-extruder-05-mm/1-18-19>