

Mytechfun 2023-11-02

	Ender-3 S1	Ender-3 V3 SE
Year	2021	2023
Price	266 USD	199 USD
Volume	220x220x270 mm	220x220x250 mm
Max nozzle temperature	260°C	260°C
Max bed temperature	100°C	100°C
Bed thermal insulation	no	yes (but margin of 40mm)
Bed positioning	Approx	2 aligning screws
Screen size	4.3"	3.2"
Screen CD card (for firmware update)	inside	outside
Direct drive	Sprite extruder	Sprite extruder
Filament sensor	Yes	No
Z-offset setting	manual	automatic
Manual leveling	required (bed is on springs)	no (bed is fixed)
Auto leveling sensor	Yes	Yes
Dual Z axis	Yes, belt, 2 stepper motors	Yes, belt, 1 stepper motor
Strain relief	Very good	acceptable
Max printing speed	160 mm/s	250 mm/s
Typical printing speed	110 mm/s	180 mm/s
Acceleration	1500 mm/s ²	2500 mm/s²
Nozzle size	5 mm (thread)	9 mm (thread)
Toolbox	Yes	no
SC Card slot	Front	Left side
Top of the gantry	Alu extrusion	Plastic
Position of spool holder	along Y axis	along X axis
X stepper position	outside	inside (smaller footprint)
X belt position	Top-bottom	Back-front (no installing on back side)
Y stepper position	outside (better cooling?)	inside
Z stepper	2 stepper motors (+belt)	1 motor (+belt)
Y axis linear motion	V-slot wheels	Linear rods and linear bearings
Z axis linear motion	V-slot wheels	V-slot wheels from inside, outside ??
Belt tensioner	Knob	Screw (smaller footprint)