



Basic Information				
Enclosure Included	×	×	×	✓
Built-in Emergency Stop Button	×	×	×	✓
Quick-swap Design	×	×	×	✓
Touchscreen Display	5 inch	5 inch	5 inch	7 inch
Machine Dimensions (W × D × H)	495 mm × 506 mm × 580 mm 405 mm × 424 mm × 490 mm	495 mm × 506 mm × 580 mm 405 mm × 424 mm × 490 mm	495 mm × 506 mm × 580 mm 405 mm × 424 mm × 490 mm	580 mm × 620 mm × 634 mm
Enclosure Dimensions (W × D × H)	820 mm × 626 mm × 603 mm 624 mm × 530 mm × 507 mm	820 mm × 626 mm × 603 mm 624 mm × 530 mm × 507 mm	820 mm × 626 mm × 603 mm 624 mm × 530 mm × 507 mm	665 mm × 943 mm × 705 mm
Software	Luban	Luban	Luban	Luban
Rated Power	320W	320W	320W	350W + 400W

Motion				
Motor Driver Chip of Linear Module	TB67S109	TMC2209	TMC2209	TMC2209
X-axis Lead	8 mm	20 mm	20 mm	40 mm
Y-axis Lead	8 mm	20 mm	20 mm	40 mm
Z-axis Lead	8 mm	8 mm	8 mm	8 mm
Maximum Printing Speed	100 mm/s	100 mm/s	100 mm/s	180 mm/s

3D Printing				
3D Printing Single Extrusion Module	Standard	Standard	Standard	Optional
Dual Extrusion Module	Optional	Optional	Optional	Standard
Build Plate	Steel Plate with PC Stickers on Both Sides	Steel Plate with PC Stickers on Both Sides	Steel Plate with PC Stickers on Both Sides	Double-sided PEI-coated Glass
Supported Nozzle Diameter	Standard: 0.4 mm Brass Nozzle	Standard: 0.4 mm Brass Nozzle	Standard: 0.4 mm Brass Nozzle	Standard: 0.4 mm Brass Nozzle Optional: 0.2 mm Brass Nozzle, 0.6 mm Brass Nozzle, 0.8 mm Brass Nozzle, 0.4 mm Hardened Nozzle
Maximum Nozzle Temperature	275°C	275°C	275°C	300°C
High-temperature Zone	×	×	×	260 mm × 260 mm
Zone Heating	×	×	×	✓
Heating Speed of Heated Bed	Heating up to 60°C in 4 to 5 min	Heating up to 60°C in 4 to 5 min	Heating up to 60°C in 4 to 5 min	High-temperature Zone: Heating up to 60°C in 2 to 3 min The Whole Heated Zone: Heating up to 60°C in 4 to 5 min
Maximum Temperature of Heated Bed	80°C/100°C/110°C	80°C/100°C	80°C/100°C	High-temperature Zone: 110°C Outer Zone: 80°C
Supported Materials	PLA, ABS, PETG, TPU	PLA, ABS, PETG, TPU	PLA, ABS, PETG, TPU	PLA, ABS, PETG, TPU, PVA, Breakaway PLA, HIPS, PA-CF, PA-GF, ASA
Work Area (W × D × H)	Single Extrusion Module: 320 mm × 350 mm × 330 mm 230 mm × 250 mm × 235 mm 160 mm × 160 mm × 145 mm	Single Extrusion Module: 320 mm × 350 mm × 330 mm 230 mm × 250 mm × 235 mm	Single Extrusion Module: 320 mm × 350 mm × 330 mm 230 mm × 250 mm × 235 mm	Dual Extrusion Module: 350 mm × 400 mm × 400 mm

Laser Engraving and Cutting				
1600mW Laser Module	Standard	Standard	Optional	Optional
10W Laser Module	Optional	Optional	Optional	Standard
Maximum Engraving Speed	15 mm/s	15 mm/s	Depends on the Laser Module Selected	100 mm/s
Maximum Cutting Depth	1.5 mm Paulownia	1.5 mm Paulownia	Depends on the Laser Module Selected	8 mm Paulownia
Standard Camera	No Wide Angle	No Wide Angle	Depends on the Laser Module Selected	Wide Angle
Supported Engraving Materials	Basswood, Paulownia, Pinewood, Plywood, Bamboo, Leather, Fabric, Paper, Dark Acrylic (Blue excluded)	Basswood, Paulownia, Pinewood, Plywood, Bamboo, Leather, Fabric, Paper, Dark Acrylic (Blue excluded)	Depends on the Laser Module Selected	Basswood, Paulownia, Pinewood, Plywood, Beech, Walnut, Bamboo, MDF, Painted Metal, Copper Clad Laminate, Tinplate, Stainless Steel, Anodized Aluminum, Dark Glass, Slate, Ceramics, Jade, Marble, Shale, Leather, Fabric, Canvas, Corrugated Paper, Cardboard, Plastic, Dark Acrylic (Blue excluded)
Supported Cutting Materials	Basswood, Paulownia, Pinewood, Plywood, Paper, Dark Acrylic (Blue excluded)	Basswood, Paulownia, Pinewood, Plywood, Paper, Dark Acrylic (Blue excluded)	Depends on the Laser Module Selected	Basswood, Paulownia, Pinewood, Plywood, Beech, Walnut, Bamboo, MDF, Leather, Fabric, Canvas, Corrugated Paper, Cardboard, Plastic, Dark Acrylic (Blue excluded)
Work Area (W × D × H)	320 mm × 350 mm 230 mm × 250 mm 160 mm × 160 mm	320 mm × 350 mm 230 mm × 250 mm	320 mm × 350 mm 230 mm × 250 mm	400 mm × 400 mm

CNC Carving				
50W CNC Module	Standard	Standard	Optional	Optional
200W CNC Module	Incompatible	Incompatible	Incompatible	Standard
Maximum Spindle Speed	12,000 RPM	12,000 RPM	12,000 RPM	18,000 RPM
Maximum Work Speed[1]	Beech: 16 mm/s Acrylic: 10 mm/s	Beech: 16 mm/s Acrylic: 10 mm/s	Beech: 16 mm/s Acrylic: 10 mm/s	Beech: 50 mm/s Acrylic: 33 mm/s
Maximum Stepdown	Beech: 1 mm Acrylic: 0.5 mm	Beech: 1 mm Acrylic: 0.5 mm	Beech: 1 mm Acrylic: 0.5 mm	Beech: 2 mm Acrylic: 1 mm
Supported Materials	Hardwood (Beech, Walnut), Softwood, Acrylic, PCB, Carbon Fiber, Jade	Hardwood (Beech, Walnut), Softwood, Acrylic, PCB, Carbon Fiber, Jade	Hardwood (Beech, Walnut), Softwood, Acrylic, PCB, Carbon Fiber, Jade	Hardwood (Beech, Walnut), Softwood, HDF, MDF, Plywood, Jade, Carbon Fiber, Acrylic, Epoxy Tooling Board, PCB
Work Area (W × D × H)	320 mm × 350 mm × 275 mm 230 mm × 250 mm × 180 mm 160 mm × 160 mm × 90 mm	320 mm × 350 mm × 275 mm 230 mm × 250 mm × 180 mm	320 mm × 350 mm × 275 mm 230 mm × 250 mm × 180 mm	400 mm × 400 mm × 400 mm

[1] The data is obtained by cutting beech with 3.175 mm Double Flute Flat End Mill and Acrylic with 3.175 mm Single Flute Flat End Mill. Depending on the CNC bits and materials used, the cutting speed might vary.