

WJ51C

Desktop Size, Industrial Output

The World's First Compact Desktop Wax 3D Printer for Production



Compact Footprint

865 × 510 × 654 mm



Industrial-Grade Output

red wax 3 kg/month per unit



Custom-Level Precision

2900 × 2900 × 1700 DPI
15 μm layer thickness

WJ51C

Brand-new Materials

- Part Red Wax 72g/block
- Support White Wax 180g/block



Add What You Need, Produce What You Need

Use small wax blocks for precise, on-demand loading. Add only what's needed, exactly when it's needed. Flexible and efficient, with material utilization $\geq 55\%$, effectively reducing wax consumption costs.

Enhanced Precision, Minimal Post-Processing

Achieve superior model accuracy with a smooth, refined surface finish. Say goodbye to tedious polishing, saving approximately 30% in labor and post-processing costs.

Unbeatable Value, Worry-Free Stability

Industrial-grade, stable design supports continuous 24/7 operation. Compared with competitors offering similar precision, total operating costs are 30%-50% lower.

Dedicated Wax: Strength Meets Toughness

WJ51C uses a dedicated high-toughness wax material, reducing defect rates during casting and providing an ideal foundation for subsequent processes.

WJ51C Specifications

Print Technology	MultiJet Printing (MJP)
Build Volume	235×138×100mm
Resolution	2900*2900*1700 DPI; layer thickness: 15μm
Dimensional Accuracy	±0.04mm/20mm
Material Utilization	Part wax utilization rate $\geq 57\%$
Print Speed	Single-channel: 7 mm/hour; Dual-channel: 3.2 mm/hour
Slicing Software	WaxJetPrint
Supported Input Formats	STL, SLC
Connectivity	Network 10 / 100 / 1000 Ethernet, USB (Wi-Fi expandable)
Software Supported Operating Systems	Windows 10 / Windows 11 (64bit)
Power Supply	AC 100-250V, 50-60Hz, 2.2KW
Operating Environment	Temperature: 18-26°C; humidity: 30-70%
Equipment Dimensions	865×510×654mm
Equipment Weight	115kg
Packaging Dimensions	1020×660×905mm
Packaging Weight	140kg

Material Specifications

Material Name	FFWJ1200	FFMS3200
Material Type	Part material	Support material
Net Weight	72g/block	180g/block
Composition	100% wax	Wax support material
Color	Red	White
Density@90°C (Liquid)	0.79g/cm ³	0.79g/cm ³
Melting Point	68°C	55°C
Softening Point	63°C	/
Volumetric Shrinkage	1.1%	/
Linear Shrinkage	0.7%	/
Needle Penetration	9	/
Ash Content	<0.01%	/
Description	High-precision castable wax material	Hands-free dissolvable support material

* Actual wax utilization depends on the model design; the stated rate reflects internal test averages.

* Disclaimer: The values presented here are for reference only and may vary. Customers should conduct their own testing to ensure suitability for their intended application.



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