FLASHFORGE

# 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 ≥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 ≥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/cm³ | 0.79g/cm³ |
| 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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