

Digital 3D Printing Solution for the Tire Mold Industry

Reshaping the Tire Industry with Our Disruptive Technology



Highly Intelligent

The highly intelligent machine can be left 24/7 unattended, and its software automatically generates the processing path without programming

Highly Precise

The solution enables the perfect reproduction of tread pattern details and high-precision presentation of complex shapes, allowing creative designs beyond limits.

Highly Efficient

Integrated prototyping without any additional steel sheet shortens the production cycle and improves productivity, greatly saving costs.

Eco-Friendly

The solution reduces chemical pollution and facilitates prototype processing in an eco-friendly way.

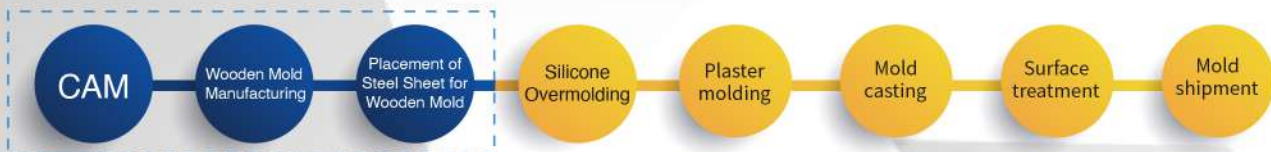
User-Friendly

The solution enables printing as needed for zero inventory operation.

RA600

Specifications

Building Volume:	600 × 600 × 400 mm	Laser	Inno laser: FOTIA(ONE)-355-5-30-A
Maximum Part Weight	36.2 kg (79.8 lb)	Laser Power	2000 mW (outlet power)
Layer Thickness	0.05-0.25 mm	Scanning Speed	18 m/s (maximum) 8-15 m/s (typical)
Z-Axis Positioning Accuracy	≤ ±8 μm	Spot Diameter	0.07-0.9 mm
Base	Marble	Machine Dimensions:	1375 × 1295 × 1930 mm
Wavelength	355 nm	Machine Weight	850 kg
Operating Software	UnionTech™ RSCON	Import File Format	STL
Pre-processing Software	Magics Link Uniontech	Electrical Requirements	200-240 VAC, 50/60 Hz, single-phase
Operating System	Windows 10	Temperature Range	22-26°C
Resin Groove	Fixed	Humidity Requirement	< 40%
Network Protocol	Ethernet, IEEE 802.3, using TCP/IP and NFS		



3D Printing Replaces above Traditional Process Steps

Digital tire mold manufacturing based on 3D printing effectively shortens the lead time of the tire master mold and optimizes the process, reducing labor costs. The 3D printed tire master mold can present extremely difficult and complex patterns with a high precision of ± 0.1 mm.



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