UnionTech
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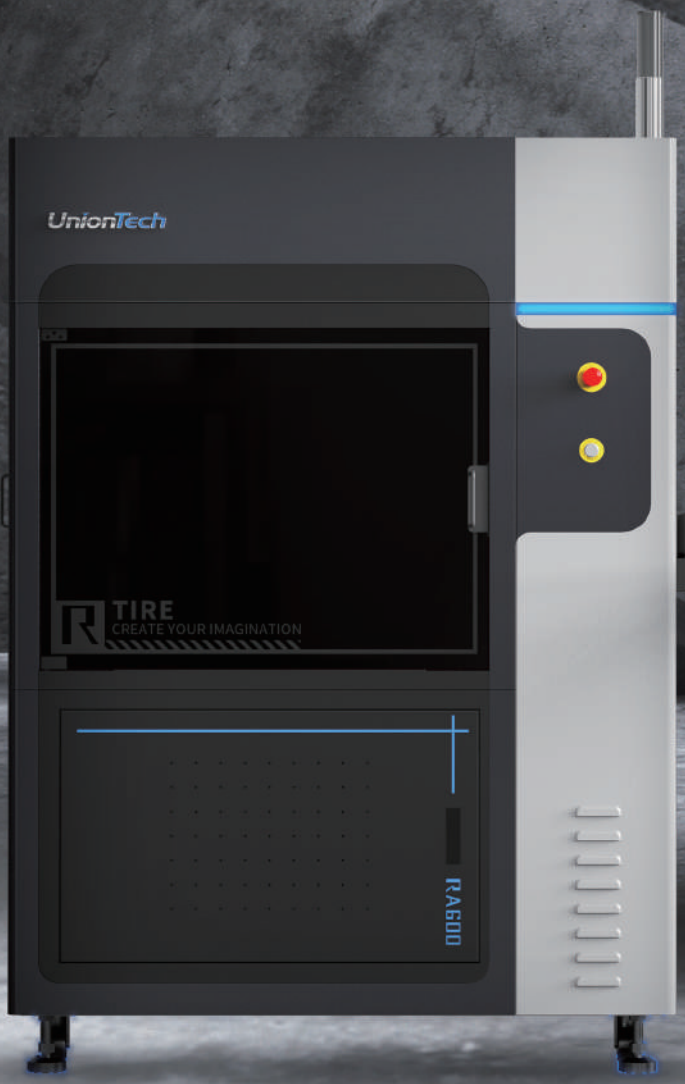
# Digital 3D Printing Solution for the Tire Mold Industry

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

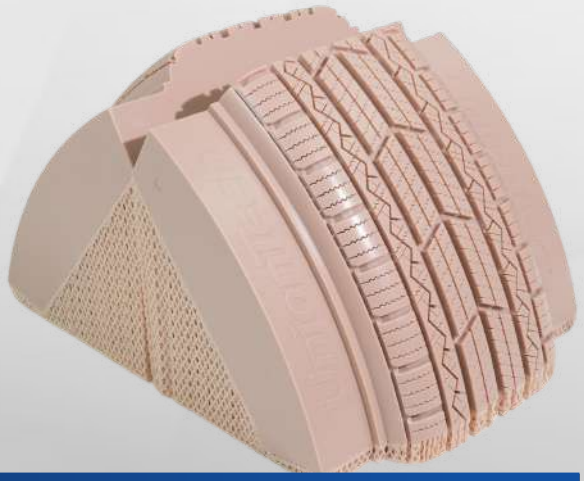
Integrated prototyping without any additional steel sheet shortens the production cycle and improves productivity, greatly saving costs.

## 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.



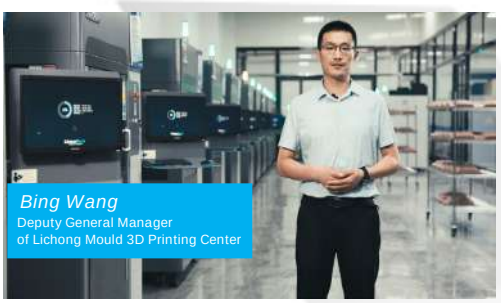
# RA600

## 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 | PolydevsPro, BPC | 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 has improved LiChond Mould's tyre mould manufacturing efciency by over 80%

Previously, Shandong LiChond Mould Co., Ltd. deployed 18 units of RA600 for the R&D and validation of small batches of complex tyre moulds. This digital upgrade of the mould manufacturing process has reduced the production time for a master mould from the traditional 2-3 weeks to 2-4 days, signi?cantly improving accuracy and reducing rework rates, giving LiChond Mould a strong competitive edge in the market.

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