HSG
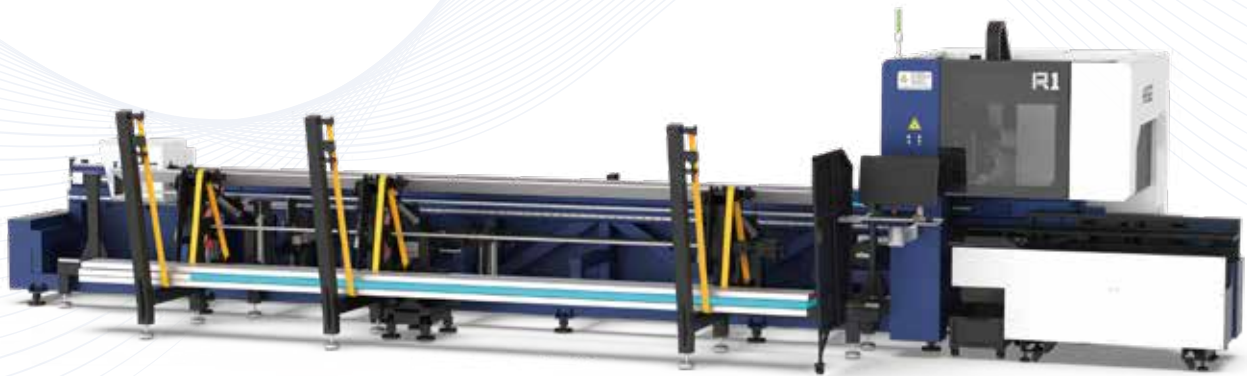
Cutting | Bending | Welding | Automation
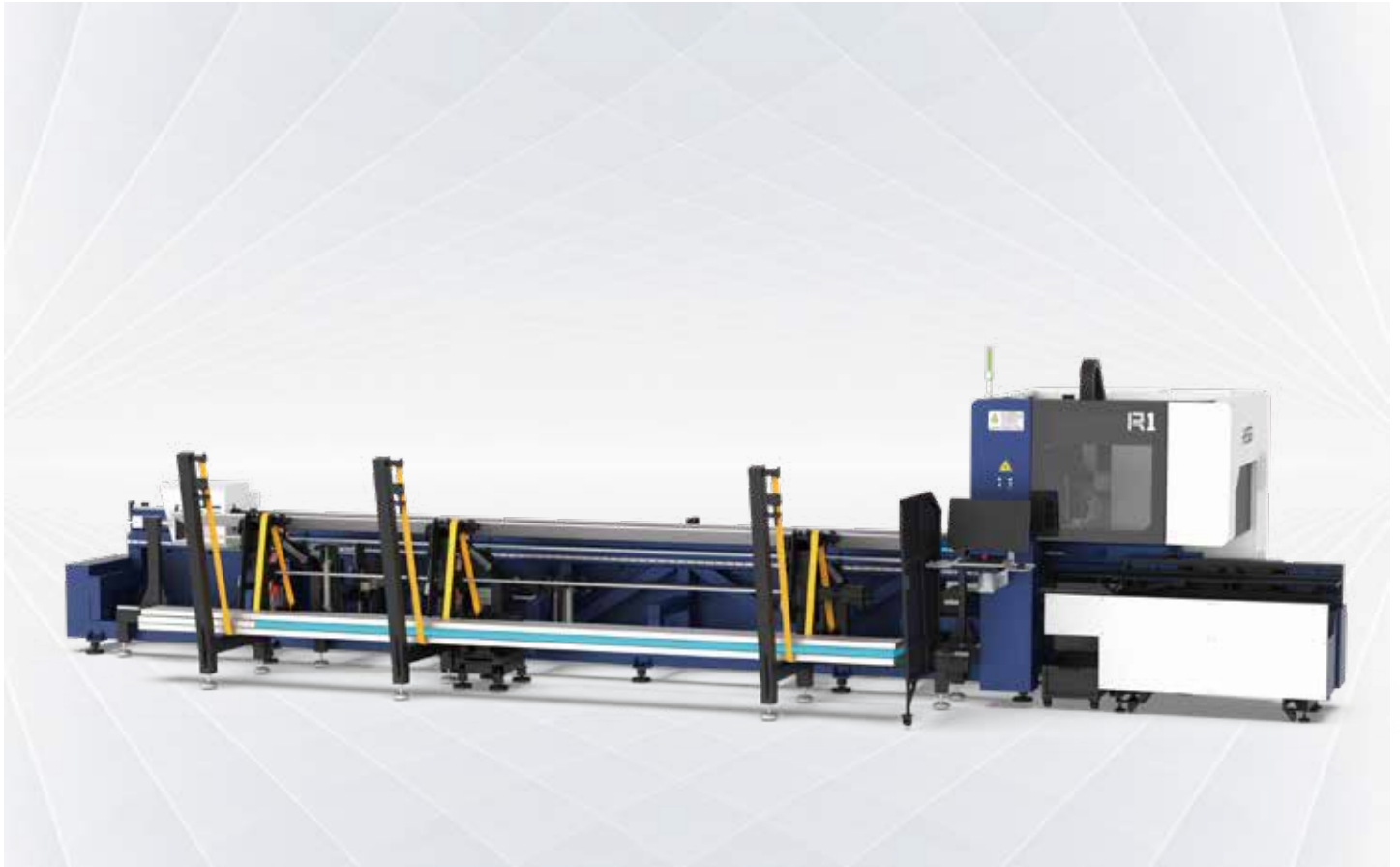

R1

High-speed Tiny Tube Laser Cutting Machine

R1 1500-3000W

High-speed Tiny Tube Laser Cutting Machine

⠿ Technical Parameters

| Technical Parameter	R1
Power	1500-3000W
No-load Speed	150m/min
Acceleration	1.5G
X/Y-axis Positioning Accuracy	±0.05mm/m
X/Y-axis Repositioning Accuracy	±0.03mm
*Tailing Length	≥30mm
Cutting Capacity	Round tubeΦ6 - Φ120mm Square tube□6*6 - □85*85 Diagonal≤120mm
Weight of Single Tube	50kg
Overall Dimensions(L*W*H) with Loading Racks	9800*3240*2650

*Single chuck clamping can be achieved, in the case of reasonable nesting material

* Machine appearance, technical parameters, function description, data comparison shown in this page are from HSG in-house laboratory.
All testing results and experimental data shall be subject to real machine.

Follow-up Support for High Precision

- The machine bed is equipped with highly sensitive and independent servo follow-up support to provide enough support force in rotation cutting and achieve high cutting accuracy.
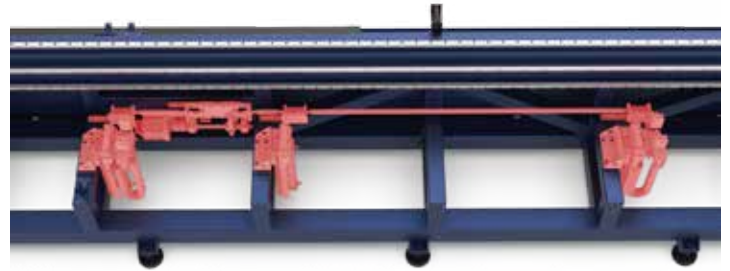
Chuck Jumping for Short Tailings

- Standard equipped with chuck jumping of the cylinder and R1 Series can shorten the large amplitude of tailing length through chuck jumping.
- Jumping type of high-prevision cutting can ensure the cutting accuracy of long tubes by chuck displacement.
- Optional servo chuck jumping can finish chuck jumping action accurately and efficiently.

Efficient Multi-mode Loading

- R1 Series matches with automatic material racks to achieve loading material in 20s.
- Automatic material racks can support the tubes with 20mm-120mm diameter and 4m-6.5m length.
- Automatic material rack is compatible with semi-automatic loading mode for loading one by one.

Intelligent Bus Operating System

- Various auxiliary functions of tube laser cutting machines to satisfy multiple processing demand
- R1 series is equipped with professional nesting software to achieve efficient management of production progress and price calculations.

Professional Nesting Software

- The software can easily read a large amount of data, as a good support for complex processing graphics. Additionally, the software can also have multiple functions to achieve the machining surface with different requirements of customers.
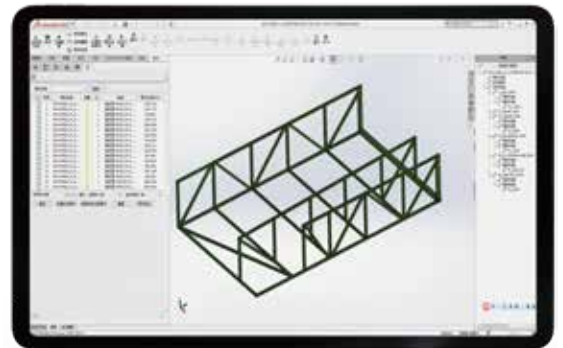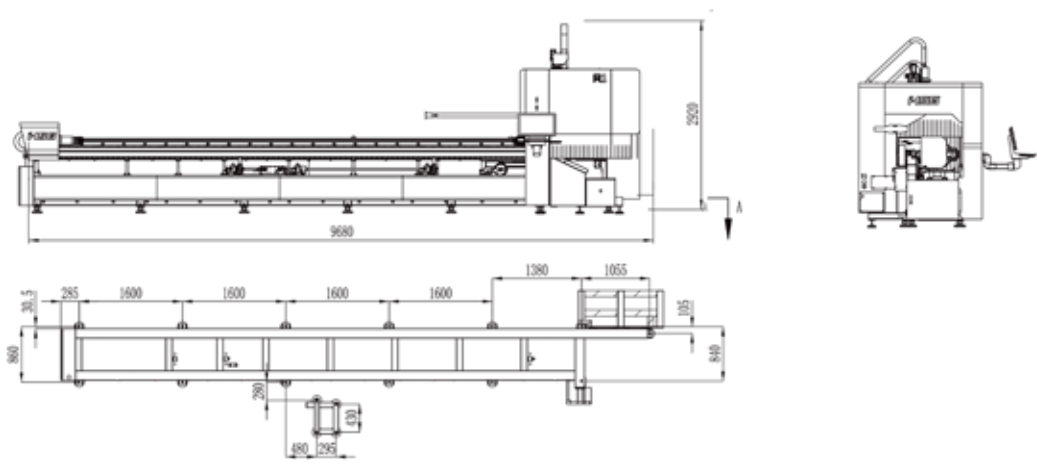

Dynamic Performance

- The machine can achieve 150r/min chuck rotational speed and 120m/min unloading operation speed.

Machine Foundation *The marked size has about 10mm error

Cutting Samples

Cutting Capacity

Tube Classification	5mm	15mm	25mm	35mm	45mm	55mm	65mm	75mm	85mm	95mm	105mm	115mm	125mm	Diameter
Square Tube														
Round Tube														

The actual machines shall prevail and above data & pictures are only for reference.