Shape Metal, Shape Trust

As a global enterprise, HSG sticks to providing professional and convenient service support to customers at home and board

Professional Training

Multiple technical training services and free operation training are provided for customers and dealers in a timely manner.

Efficient Support

Humanistic service model, online services and 7*24 hotline to offer solutions and assistance.

Optimized Transport

Multi-channel transport solutions and a professional transport solution team providing various transport cases to satisfy the demand of customers and save transportation fees.

Sufficient Accessories

Highly efficient accessory delivery service; multiple network inventories jointly respond to accessory demand, shortening customers' waiting times and accelerating production.

Careful Services

Domestic door-to-door service and free proofing, with over 100+ dealers providing efficient and convenient services.

HSG

Shape Metal, Shape Trust

Website   Facebook   Youtube

HSG

R1

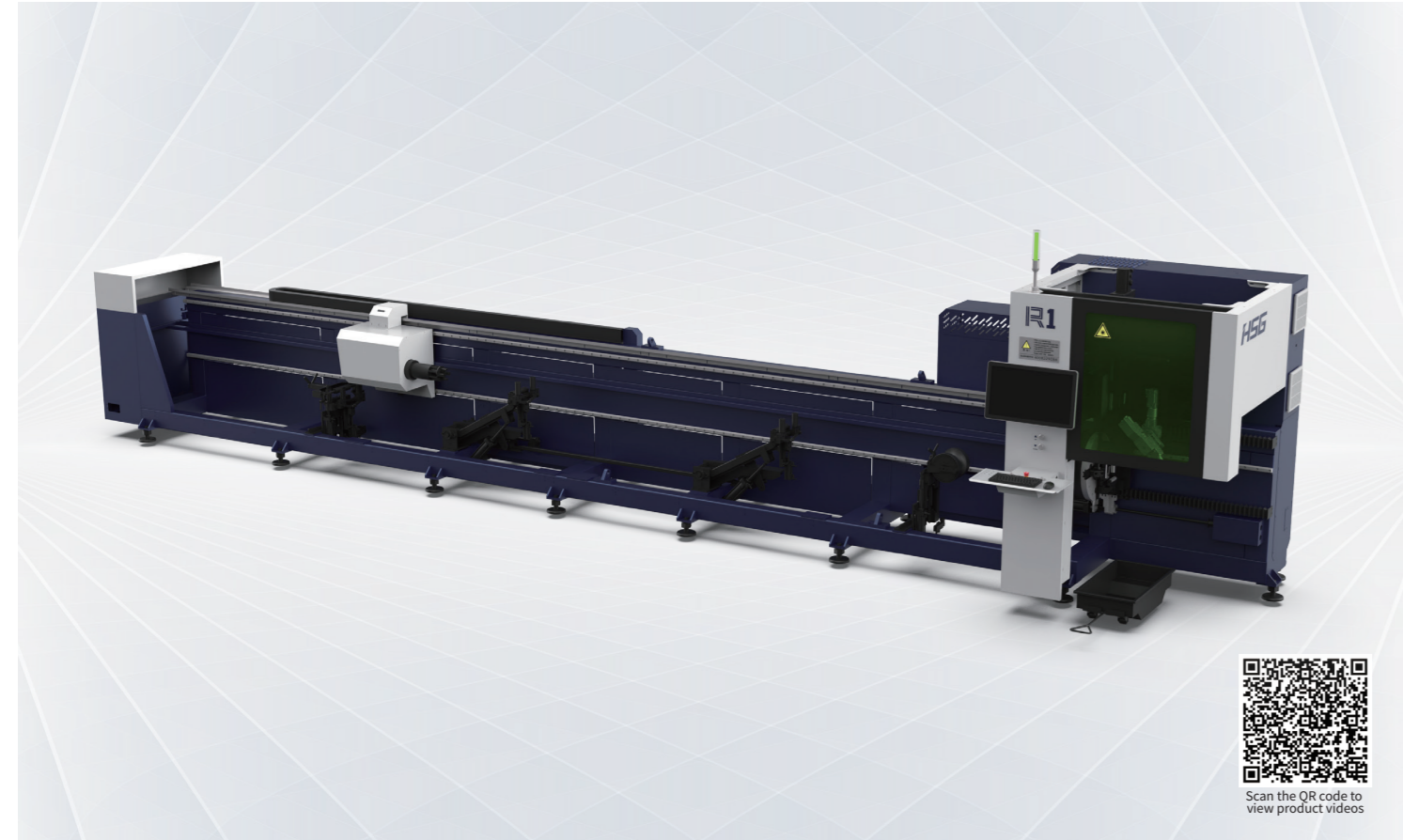High-speed Tiny Tube Laser Cutting Machine

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Company Culture

SLOGAN

Shape Metal, Shape Trust

MISSION

To support the high-speed growth of our customers

VISION

To be a world-leading provider of metal shaping equipments & comprehensive solutions

Company Profile

19
Global Branches

100+
Countries Covered

5
Manufacturing Bases

30+
Global Service Centers

8,000+
Annual Capability

135,000㎡
Occupied Area

R1
1500-3000W

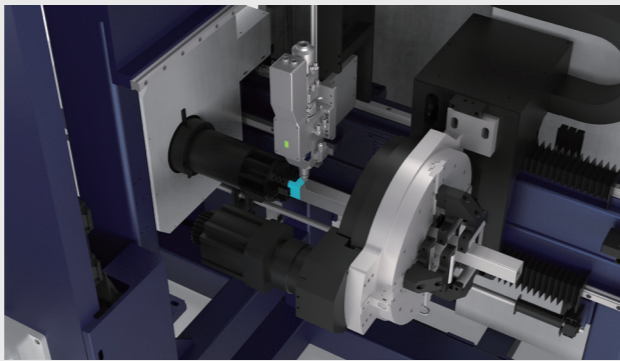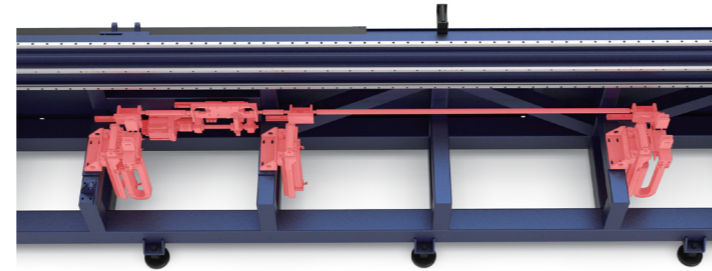### High-speed Tiny Tube Laser Cutting Machine

Technical Parameters

Technical Parameter	R1	R1R
Power	1500-3000W	1500-3000W
Max. Linkage Speed	150m/min	150m/min
Max. Linkage Acceleration	1.5G	1.5G
X/Y-axis Positioning Accuracy	±0.05mm/m	±0.05mm/m
X/Y-axis Repositioning Accuracy	±0.03mm	±0.03mm
*Tailing Length	Tailings in Single Chuck Clamping Model≥50mm，Tailings in Double-chuck Clamping Model≥230mm	Tailings in Single Chuck Clamping Model≥50mm，Tailings in Double-chuck Clamping Model≥230mm
Cutting Capacity	Round tube Φ8 - Φ120mm Square tube □8*8 - □120*120mm Side Length: 8-120mm	Round tube Φ8 - Φ120mm Square tube □8*8 - □120*120mm Side Length: 8-120mm
Weight of Single Tube	80kg	80kg
Dimensions-Single machine(L*W*H)	9630*2006*2622mm	9630*2006*2622mm
The range of pipe material	1000-6500mm	1000-6500mm

*Under reasonable nesting conditions, the tailing length is the limit case, which is only achieved in some tubes and manual mode。
Suggested Tube Length in Single Chuck Clamping ≤200mm, Weight of Tube≤2kg.
* 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 8mm-120mm diameter and 4m-6.5m length.
- Automatic material rack is compatible with semi-automatic loading mode for loading one by one.
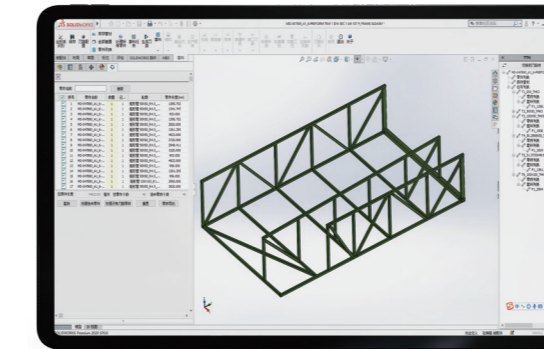
Intelligent Bus Operating System

- 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.
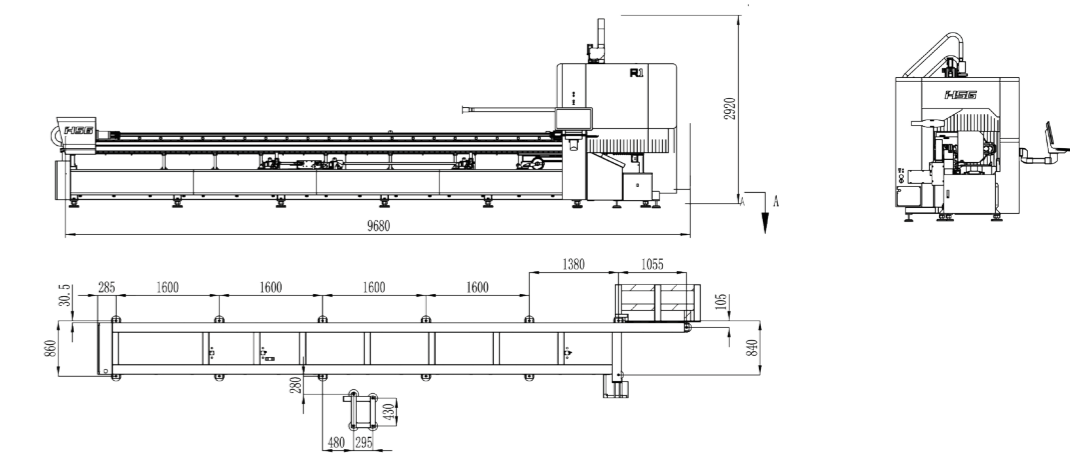
Professional Nesting Software

- 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.
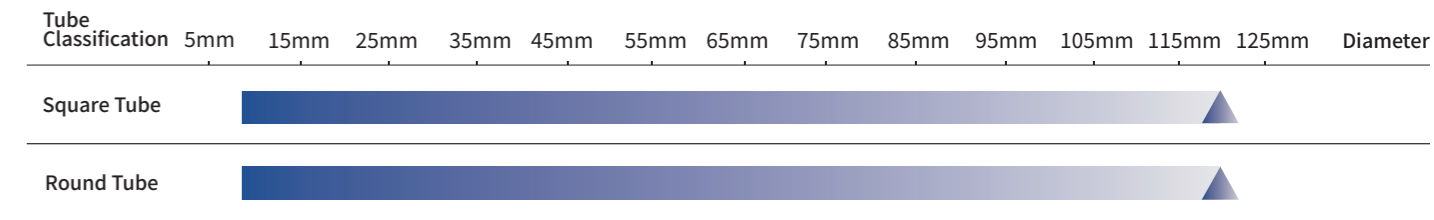
Machine Foundation

*The marked size has about 10mm error.
*The dimensions of the standard configuration of the machine are for reference only.
Please refer to the three views of the order configuration for the actual machine dimensions.

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.