

FIBER LASER TUBE CUTTING MACHINE

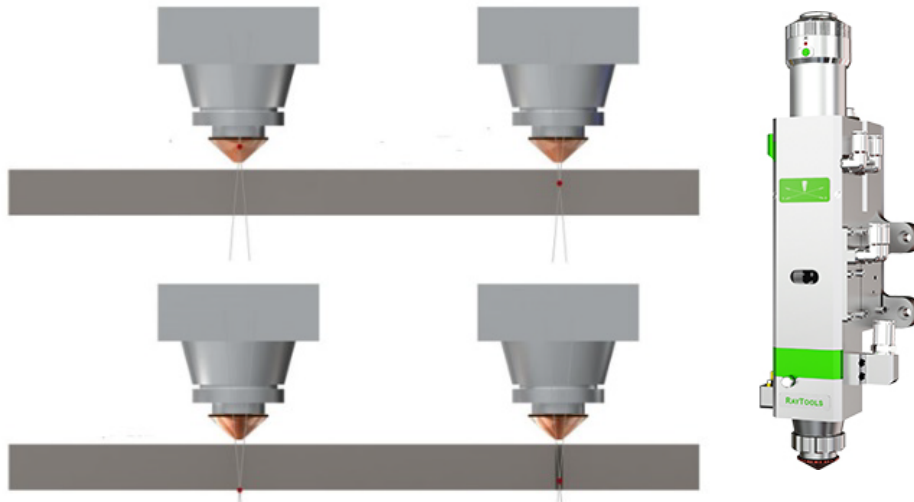


- ▶ **Tube Master** fiber laser cutting machine is specializing in offering **laser solutions** for tube metal processing, aerospace, electronic appliances, household appliances, elevator, automobile, advertising, precision spare parts, handicrafts and other industries.

▶ Features

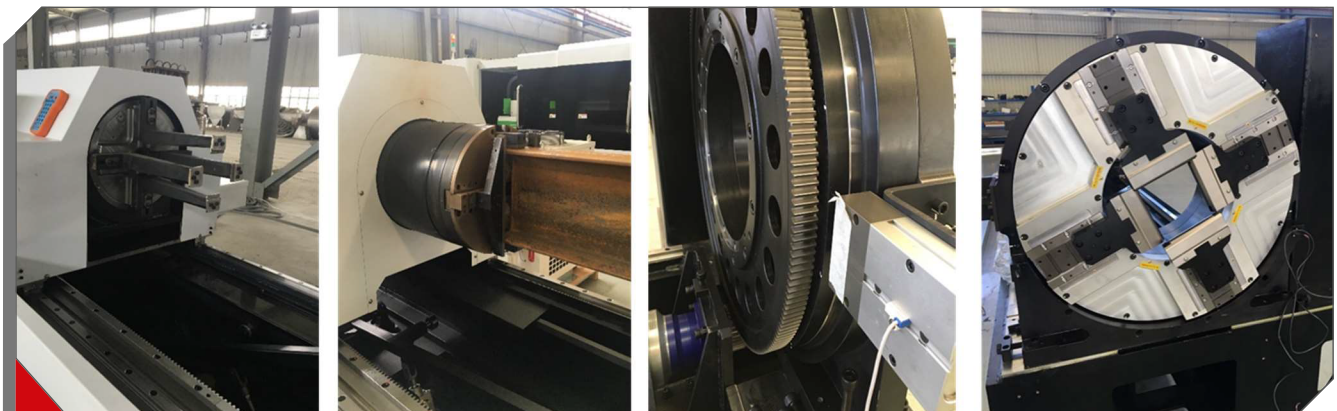
- Equipped with a pneumatic self-centering chuck, which supports symmetrical independent double-action clamping. Auto-clamping, no need for manual intervention. Simple, stable, and good sealing structure. The clamp is suitable for square, round and oval pipes, flat and triangle tubes, profiles, etc.
- Reinforced welding machine body, with high precision and stability.
- Imported large gantry machine, with high precision processing, the internal stress is eliminated by tempering and vibration aging to ensure that the machine deformation tolerance is within 0.03mm.
- Integrated structure design, compacted layout, small size occupation.
- Enjoy high efficiency of electro-optic conversion, up to more than 30%, which can greatly save power consumption and achieve the highest production efficiency.
- Only electricity is needed, auxiliary gas blowing helps to ensure cutting surfaces smoothly.

► Auto-focus Features:



- The focus is controlled by the inner precision servo motor, with no need for manual operation.
- Punching time was reduced by 80% compared to the common cutting head. Best match for high-speed thick-metal material cutting and highly reflective material cutting.
- Large and complete cutting technique database. Operations are done simply through module data selecting among existing data according to the material features. Easy and convenient operation.
- Supporting remote system monitoring through wireless handheld box and Ethernet.

► Precise Pneumatic Clamps Design



TUBE MASTER FIBER LASER CUTTER

Tube range (length)	295" (7500 mm)
Tube diameter	Standard: 0.78" - 8.66" (20 mm - 220 mm) Optional: 0.39" - 4.7" (10 mm - 120 mm)
X-Axis / Y-Axis	295" (7500 mm) / 7.87" (200 mm)
Loading Capacity	220 Chuck: 342 lbs; 120 Chuck: 154 lbs.
X, Y-axis positioning accuracy	±0.03 mm/1000 mm
X, Y-axis re-positioning accuracy	±0.05 mm
A, B-axis positioning accuracy	±30"
A, B-axis re-positioning accuracy	±10"
X, Y-axis max positioning speed	100 m/min
Max positioning speed	100 rpm
Laser resonator	IPG
Maximum load weight	IPG 2 KW (Germany Brand)
Optional Laser Wattage	IPG 1 KW/ 1.5 KW/ 3 KW/ 4 KW (Ask for price)
Laser head	Raytools
Machine Weight	14330 lbs (6500 kg)
Dimensions	472" x 87" x 91" (12000 x 2200 x 2300 mm)

► Laser Source

Adopts **IPG** new laser source:

- Over 40% Wall-plug Efficiency
- Hot Redundancy & Good Stability
- Integrated Coupler or Beam Switch Option
- Excellent Beam Parameter Product
- Real-time running log monitoring
- Excellent Beam Parameter Product
- Maintenance-free Operation
- Constant BPP over Entire Power Range
- Compact, Rugged & Easy to Install



► Sample Photos

