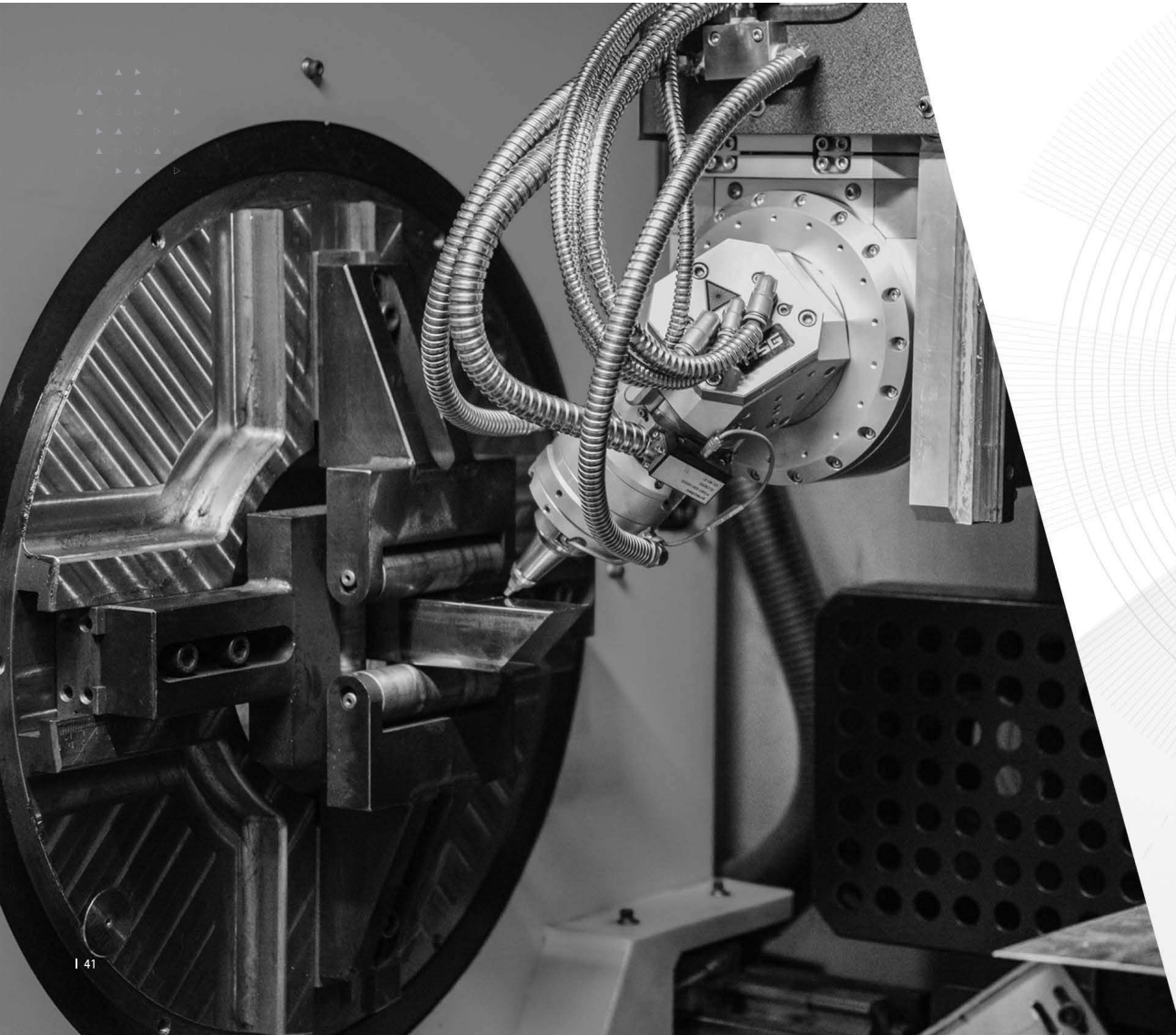


# TUBE METAL LASER CUTTING MACHINE

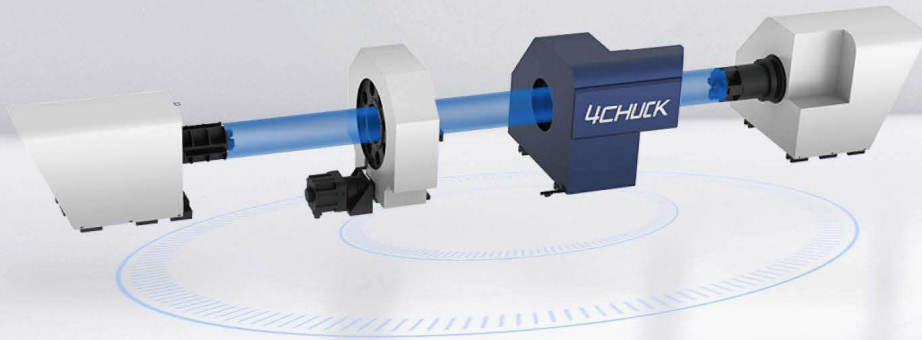




## ▶ 3D FIVE-AXIS SMART CUTTING TECHNOLOGY

The swing cutting head customized from German, in combination with premium five-axis CNC system, contributes to excellent 3D five-axis smart cutting technology; It can cut the maximum 45° bevel angle, realize seamless tube splicing, facilitate the bevel welding of medium and thick tube, and help users improve their core competitiveness; The industry's unique Speed+, flying cutting, and leapfrog tube cutting technologies can help to realize smart cutting, improve efficiency, and demonstrate the charm of perfect cutting.

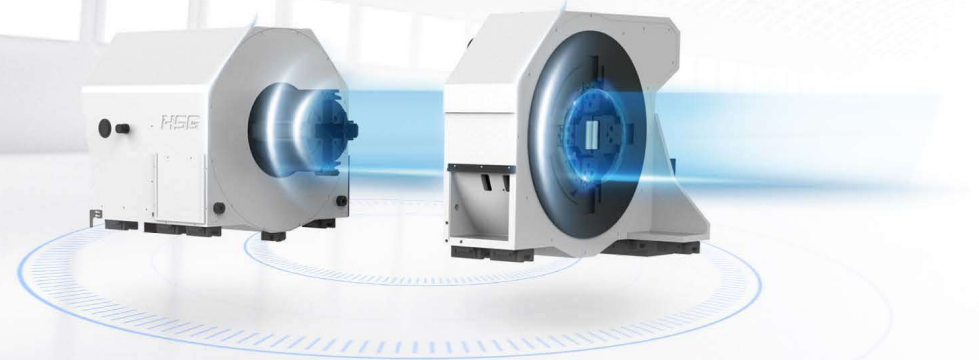
■ Applicable models: TP65S, R9, TL500 (swing cutting head is optional) series.



## INNOVATIVE FOUR CHUCK, REAL “0” TAILING

Self-developed by HSG, easy operation, perfect in function, reduce fault rate; Data transmission featuring fast, stable and accurate only by a network cable; Improve stock layout efficiency and material utilization by 20% and 10% respectively, make accuracy up to 0.1mm at the speed of 30m/min.

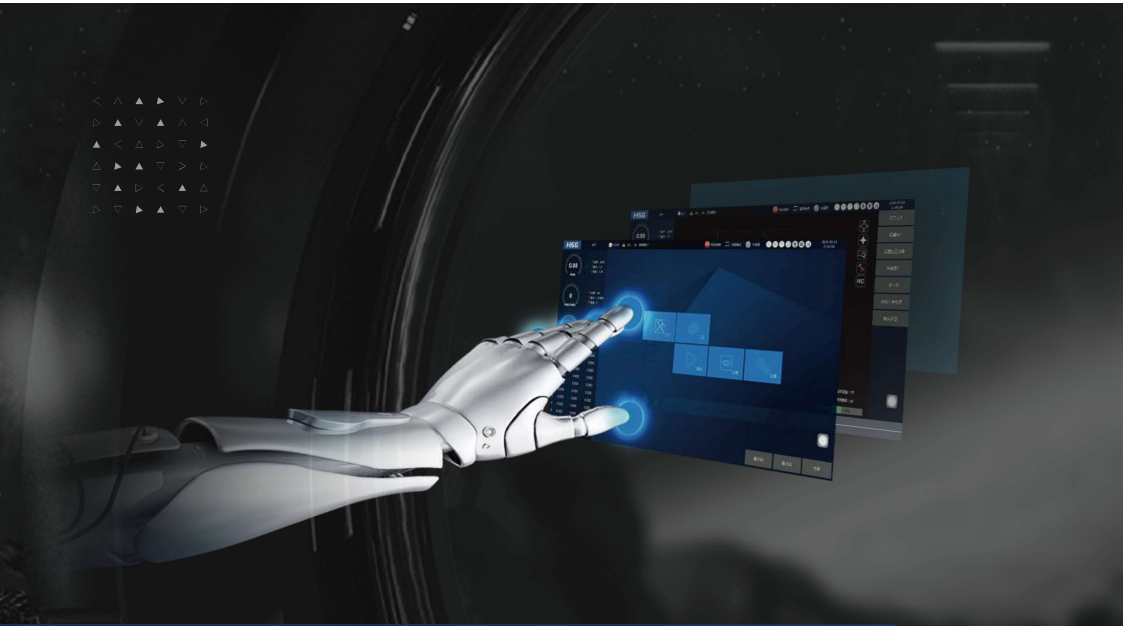
■ Applicable models: TL220, TL300, TL350 and TL500 series.



## ▶ HIGH-SPEED AND WIDE SCOPE OF CUTTING

With imported high-torque servo motor, our laser machines' rotating speed, max. speed and acceleration can reach up to 100r/min-170r/min, 100m/min-140m/min and 1.0-1.2G respectively. The tube diameter varies from 10 to 426mm. Except for conventional tubes, profiles and special-shaped tubes made of carbon steel, stainless steel, brass, red cooper and aluminum alloy are also cut easily.

■ Applicable models: R, T and TL series tube metal laser cutting machines.



## ▶ SELF-DEVELOPED HSG-XMT MULTI-TOUCH OPERATING SYSTEM

This system, with innovative multi-touch gestures, simple navigation pages and built-in tube graph library, simplifies your programming, operating, production and maintenance. Henceforth, operating industrial equipment is as easy as playing a tablet computer.

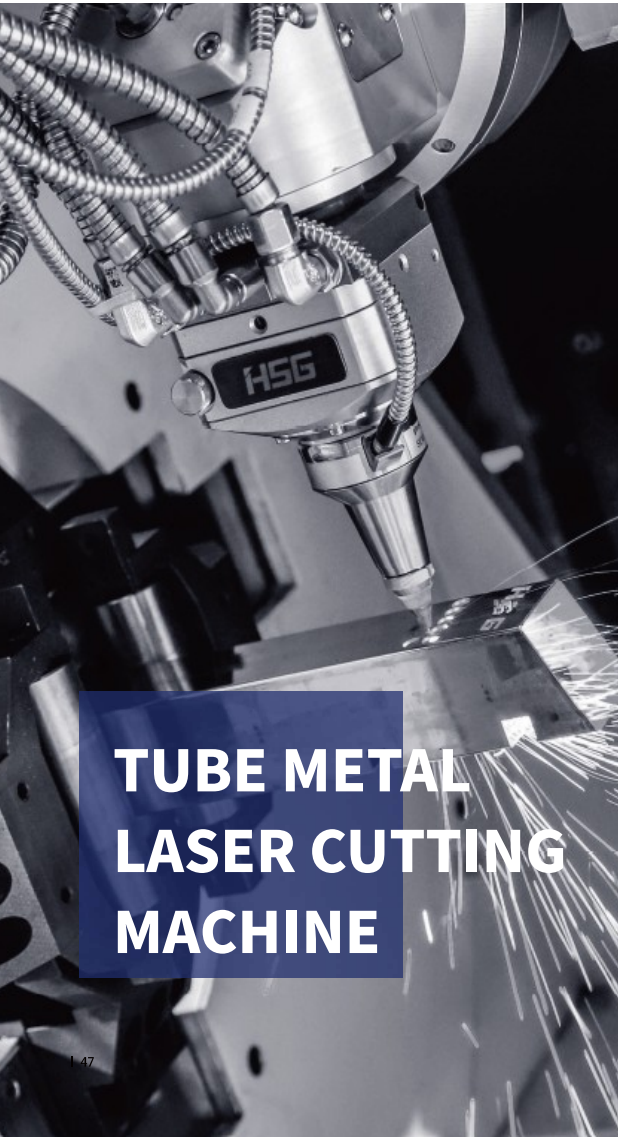
Applicable models: R7 and R9 series.

## ▶ SPACE LEAPFROG AND FLYING CUTTING TECHNOLOGY

HSG's cross-plane space leapfrog and flying cutting technology (patent No. ZL201810158585.8) can minimize the moving path of cutting head without repeated lifting or falling action. The cutting efficiency will be improved by 50%+ especially when processing square tube.

Applicable models: TX65PLUS, TX90PLUS and TX120PLUS series.





**TUBE METAL  
LASER CUTTING  
MACHINE**

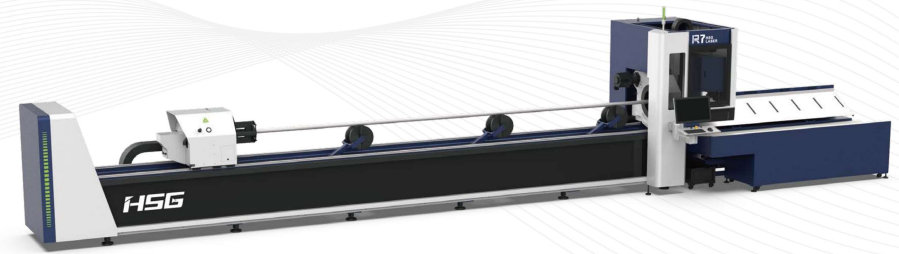
**R3** SERIES ECONOMICAL



Technical Parameter	R3
Laser Power	1500-3000W
Positioning Accuracy	±0.05mm/m
Repositioning Accuracy	±0.03mm
Max. No-load Speed	90m/min
Chuck Rotating Speed	90r/min
Max. Acceleration	0.8G
Processable Materials	Round tube: φ20-219mm; square tube: 20*20mm-150*150mm;
Weight Of Single Tube	100kg
Bevel Processing	No
Chuck Type	Common pneumatic chuck

# R5 SERIES FULL-AUTOMATIC

# R7 SERIES ALL-POWERFUL



Technical Parameter	R5
Laser Power	1500-4000W
Positioning Accuracy	±0.03mm/m
Repositioning Accuracy	±0.03mm
Max. No-load Speed	100m/min
Chuck Rotating Speed	100r/min
Max. Acceleration	1.0G
Processable Materials	Round tube: φ20-254mm; square tube: 20*20mm-200*200mm;
Weight Of Single Tube	200kg
Bevel Processing	No
Chuck Type	Common pneumatic chuck

Technical Parameter	R7
Laser Power	1500-4000W
Positioning Accuracy	±0.03mm/m
Repositioning Accuracy	±0.03mm
Max. No-load Speed	120m/min
Chuck Rotating Speed	120r/min
Max. Acceleration	1.2G
Processable Materials	Round tube: φ12-273mm; square tube: 12*12mm-200*200mm;
Weight Of Single Tube	200kg
Bevel Processing	No
Chuck Type	Intelligent digital chuck

# R9 SERIES BEVEL CUTTING



# TXPLUS SERIES HEAVY-DUTY



Technical Parameter	R9
Laser Power	1500-4000W
Positioning Accuracy	±0.03mm/m
Repositioning Accuracy	±0.03mm
Max. No-load Speed	140m/min
Chuck Rotating Speed	120r/min
Max. Acceleration	1.2G
Processable Materials	Round tube: φ20-273mm; square tube: 20*20mm-200*200mm;
Weight Of Single Tube	200kg
Bevel Processing	Yes
Chuck Type	Intelligent digital chuck

Technical Parameter	TXPLUS
Laser Power	3000-6000W
Positioning Accuracy	±0.03mm/m
Repositioning Accuracy	±0.03mm
Max. No-load Speed	80m/min
Chuck Rotating Speed	80r/min
Max. Acceleration	0.6G
Processable Materials	Round tube: φ20-325mm; square tube: 20*20mm-230*230mm;
Weight Of Single Tube	500kg
Bevel Processing	Yes (optional)
Chuck Type	Intelligent digital chuck

# TS65 SERIES

ULTRA-HIGH-SPEED



Technical Parameter	TS65
Laser Power	1500-6000W
Positioning Accuracy	±0.03mm/m
Repositioning Accuracy	±0.03mm
Max. No-load Speed	120m/min
Chuck Rotating Speed	120r/min
Max. Acceleration	1.2G
Processable Materials	Round tube: φ12-254mm; square tube: 12*12mm-200*200mm;
Standard Cutting Length	6000mm
Max. Loading Weight Of Chuck	200kg

# TL220 SERIES

ZERO TAILING

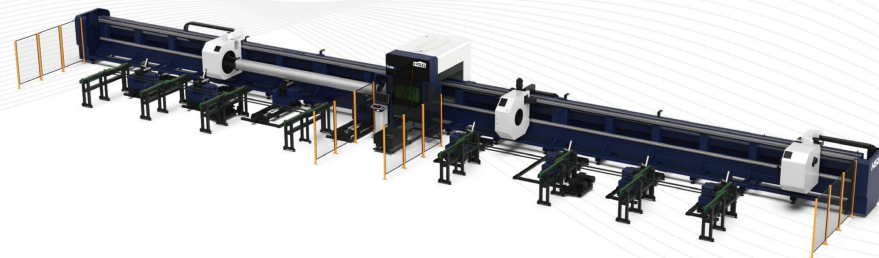


Technical Parameter	TL220
Laser Power	1500-3000W
Positioning Accuracy	±0.03mm/m
Repositioning Accuracy	±0.03mm
Max. No-load Speed	110m/min
Chuck Rotating Speed	100r/min
Max. Acceleration	1.0G
Processable Materials	Round tube: φ20-210mm; square tube: 20*20mm-150*150mm;
Weight Of Single Tube	100kg
Bevel Processing	No
Chuck Type	Common pneumatic chuck

# TM65 SERIES TINY TUBE CUTTING



# TL500 SERIES ULTRA-HEAVY-DUTY



Technical Parameter	TM65
Laser Power	1500-3000W
Positioning Accuracy	±0.03mm/m
Repositioning Accuracy	±0.03mm
Max. No-load Speed	140m/min
Chuck Rotating Speed	170r/min
Max. Acceleration	1.2G
Processable Materials	Round tube: φ10-100mm; square tube: 10*10mm-70*70mm;
Weight Of Single Tube	50kg
Bevel Processing	No
Chuck Type	Intelligent digital chuck

Technical Parameter	TL500
Laser Power	3000-6000W
Positioning Accuracy	±0.05mm/m
Repositioning Accuracy	±0.05mm
Max. No-load Speed	40m/min
Chuck Rotating Speed	30r/min
Max. Acceleration	0.3G
Processable Materials	Round tube: φ80-426mm; square tube: 80*80mm-300*300mm;
Weight Of Single Tube	1500kg
Bevel Processing	Yes
Chuck Type	Intelligent digital chuck