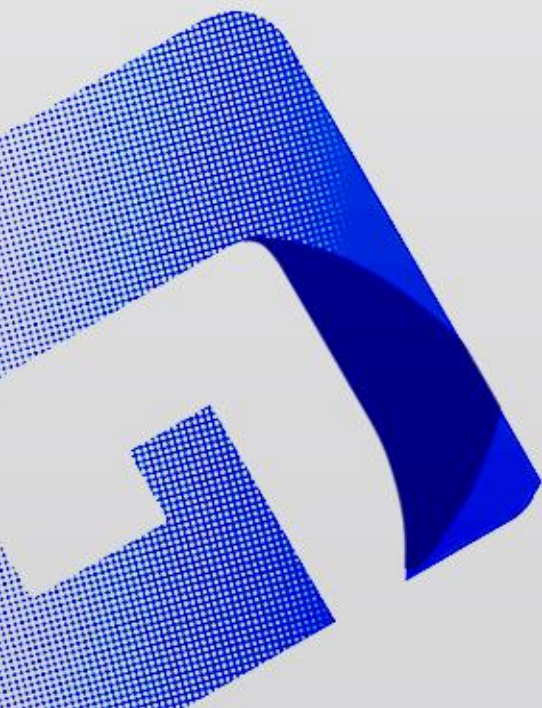




TECHNICAL PROPOSAL

GKS-6008TA

1000-1500W
FIBER LASER CUTTING MACHINE



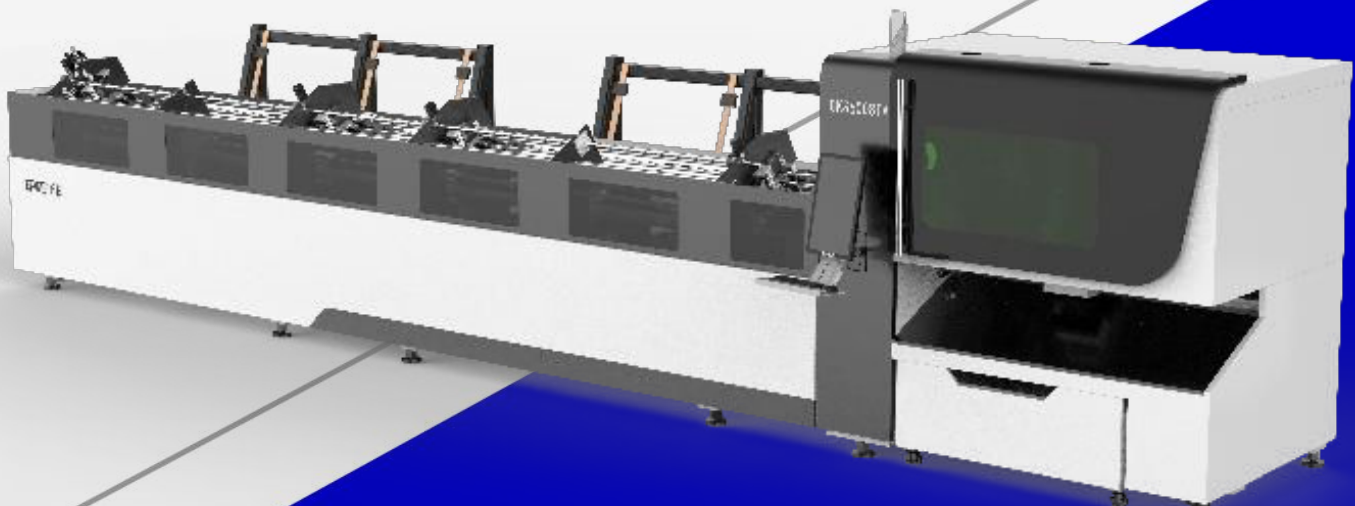


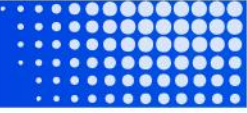
▶ **PRODUCT OVERVIEW**

- GKS-6008TA is one single chuck laser pipe cutting machine, Equipped with precision pneumatic chuck of 80 specifications, The maximum single pipe load-bearing capacity is 80KG.
- This pipe cutting machine is suitable for cutting circular, square, rectangular, and elliptical pipes
- This product can be used only for cutting pipe processing, and can also cut any shape on the surface of the pipe

▼ **ADVANTAGE**

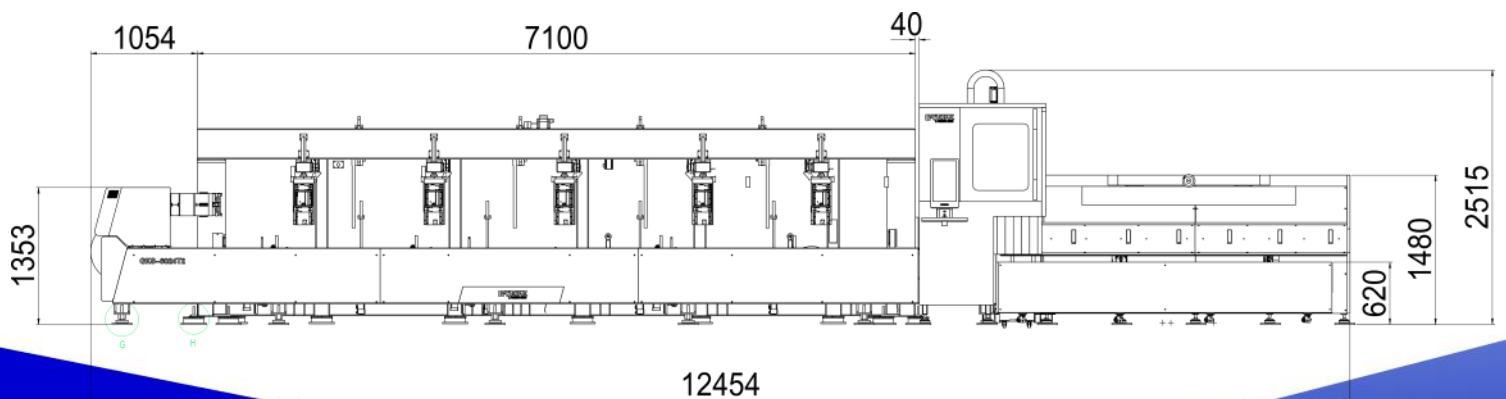
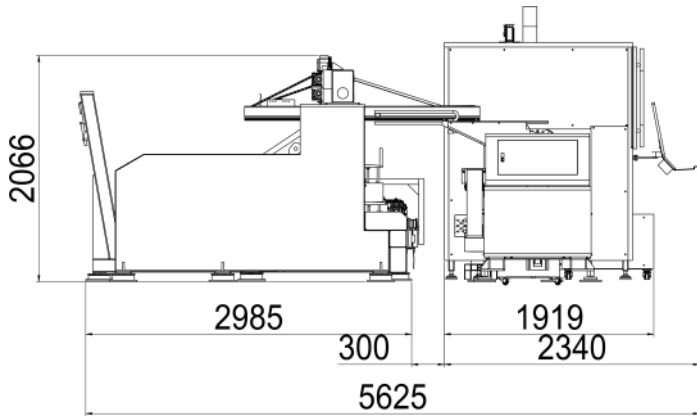
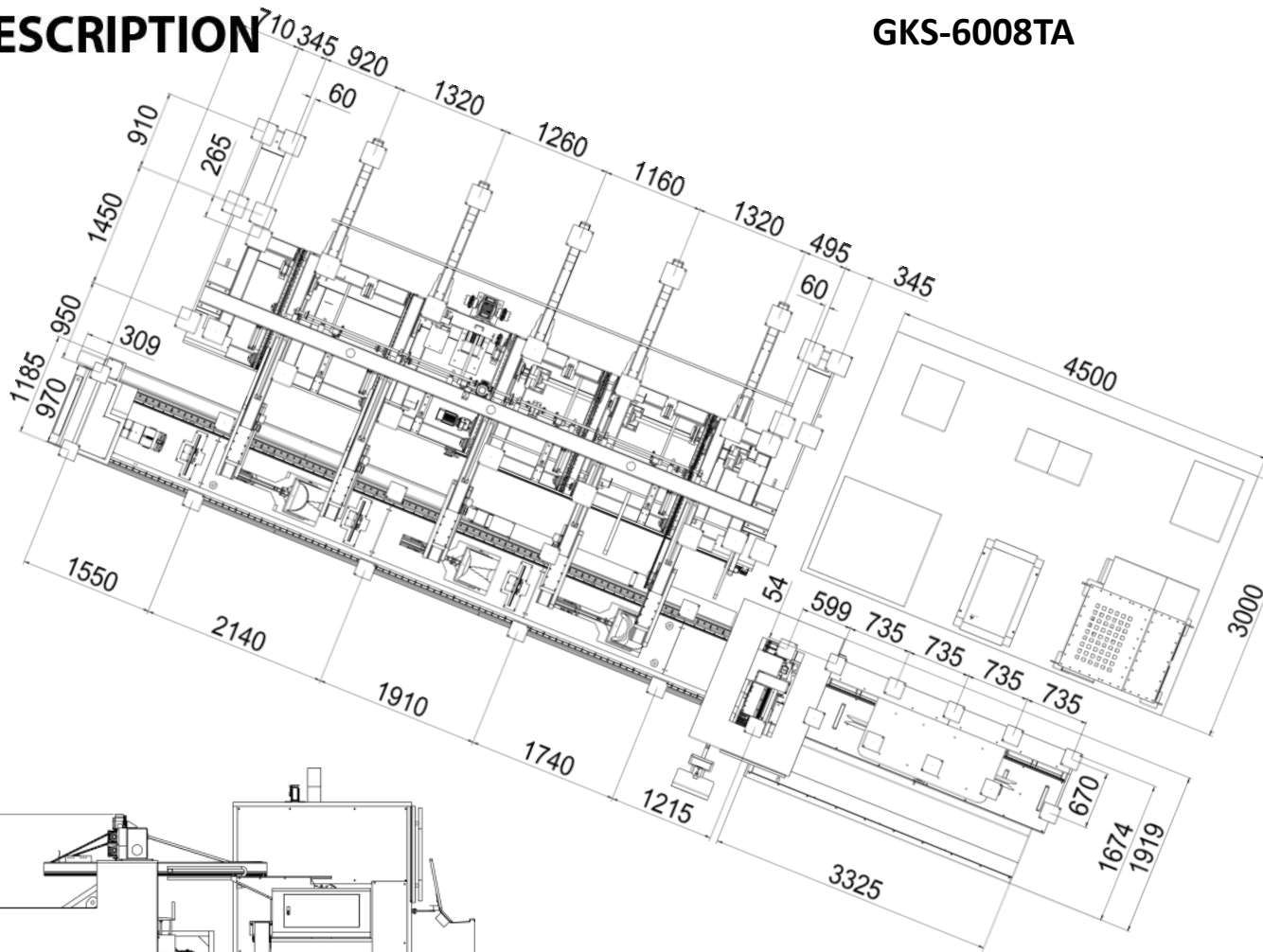
- Pneumatic chuck
- Economical and labor-saving
- High cutting accuracy and strong stability





▶ PRODUCT DESCRIPTION

GKS-6008TA



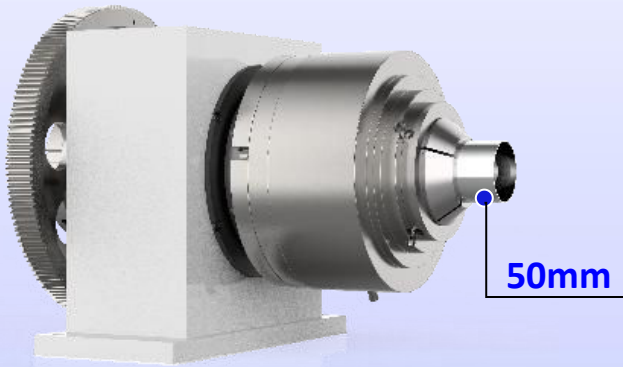
▶▶ TECHNICAL PARAMETERS

Model	GKS-6008TA
Pipe diameter range (diameter of circumscribed circle)	Tube length: 6500mm Φ15-80mm, (Round tube) □15X15-□60X60mm (Square tube)
Maximum pipe length	6500mm
X-axis travel	100mm
Y axis single feeding length	0-700mm
Z-axis travel	100mm
Chuck maximum speed	150r/min
Maximum No-load speed	100m/min
X / Y / axis positioning accuracy	±0.05mm
X / Y / axis repeat positioning accuracy	±0.03mm
X axis maximum moving speed	100m/min
Y axis maximum moving speed	100m/min
Chuck	Pneumatic
Maximum load of chuck	single tube weight ≤ 80KG
Guide rail width	25MM
Lubrication type	Automatic oiling
Power available	1000W 1500W
Dimension	9170*2700*2300mm
Total Weight	4.5T

GKS-6008TA Main Specification

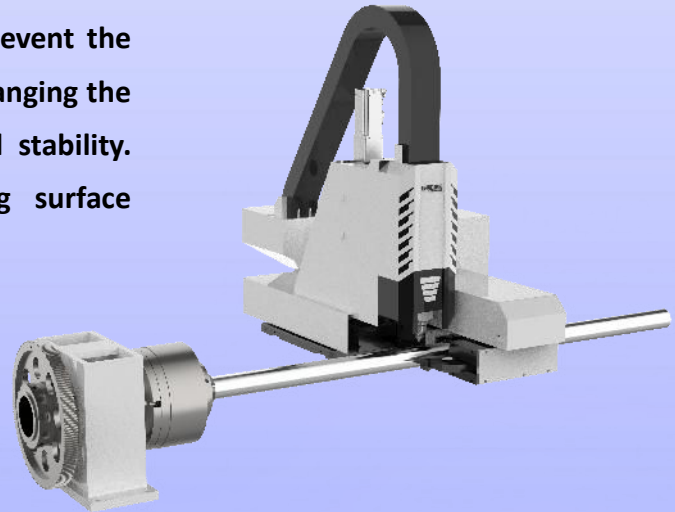
No.	Name	Quantity	Brand
1	Laser source	1 set	Raycus/MAX
2	Laser head	1 set	Raytools
3	Machine body	1 set	Gweike
4	Gear and Rack	1 set	Apex
5	Reducer	1 set	France Motovario
6	Dimensions	mm	9170*2700*2300mm
7	Cutting length	mm	Tube length: 6500mm Φ 15-80mm, (Round tube) \square 15X15- \square 60X60mm (Square tube)
8	Exhaust Smoke System	1 set	China
9	Guide rail	1 set	DTX
10	Electronic Components	1 set	CHNT
11	Pneumatic Components	1 set	Japan SMC/Taiwan AirTec
12	Control system	1 set	Cypcut
13	Water chiller	1 set	Hanli
14	Control cabinet	1 unit	Gweike
15	Auto lubrication	1 unit	China
16	Industrial computer	1 unit	HP

▶▶ PRODUCT ADVANTAGES

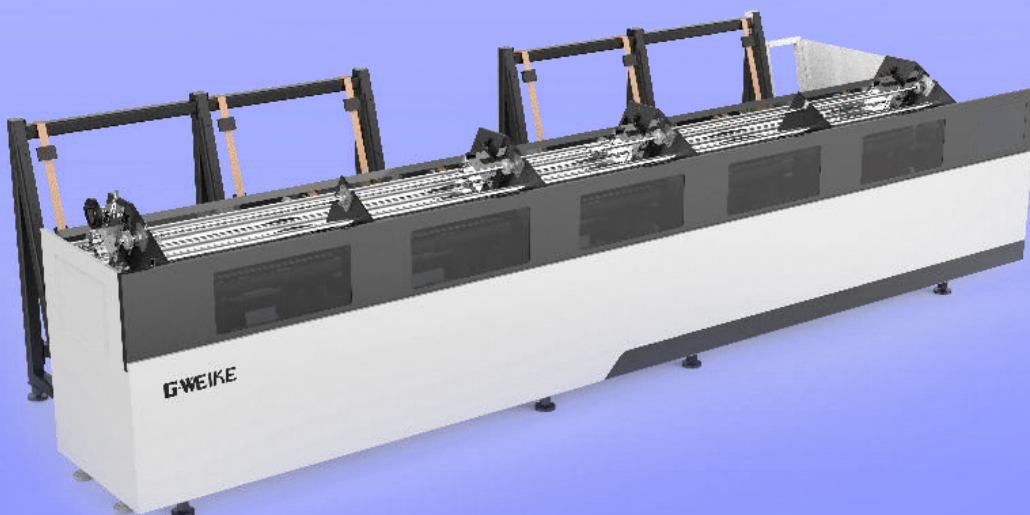


- ▼ Equipped with precision pneumatic chuck, shortest tailing length is 50mm.

- ▼ Pipe anti vibration clamping fixture, prevent the pipe from swinging laterally without changing the surface, ensuring cutting accuracy and stability. Solved the problem of poor cutting surface quality caused by pipe vibration caused by long hanging chuck and poor rigidity of the pipe.



- ▼ Paired with a fully automatic feeding machine, it can achieve fully automatic cyclic processing, saving time, effort, and labor, achieving automation work.





MAIN CONFIGURATION



▼ Raycus Laser Source

- High Electro-optic Conversion Efficiency
- High reliability, long service life
- Maintenance-free Operation



▼ RaytoolsBT210S Laser Head

- Auto focus
- Optimized optical configuration
- Protect modules for calibration and focus lens
- Drawer-type of lens mount, quick and easy use



▼ Taiwan - APEX

- High precision
- Accurate instantaneous transmission ratio
- High transmission efficiency
- Long life



▼ DXT rail

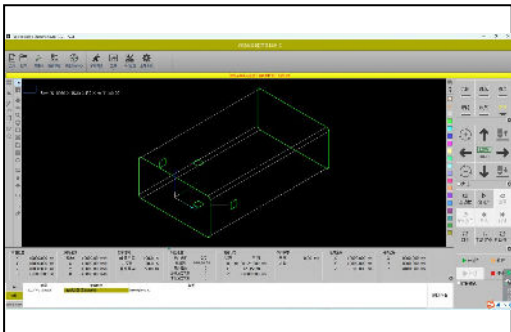
- High precision
- Accurate instantaneous transmission ratio
- High transmission efficiency
- Long life

▶ MAIN CONFIGURATION



▼ Servo Motor-Inovance

- Low temperature rise
- Ultra-short body
- Stronger overload capability
- A variety of connectors optional
- High and low resolution optional



▼ CYP-CUT 3000DE

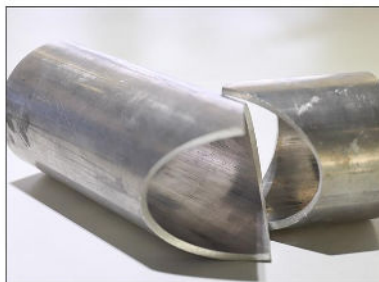
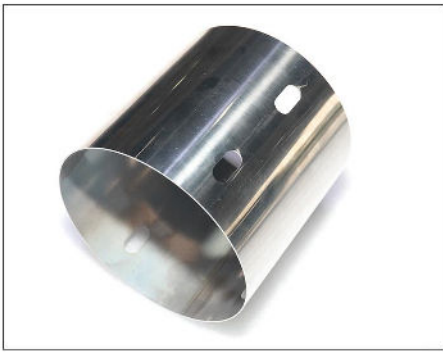
- Easy to use
- Various file editing functions
- Support remote control
- Real-time alarm and protection



▼ Han Li Water Chiller

- Machine protection
- large cooling capacity
- Stable performance

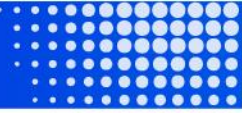
▶ **SAMPLES**



▶▶ COST ANALYSIS

1-6KW FIBER LASER USING COST

Mode		1KW			1.5KW			2KW			3KW			4KW			6KW		
		Air cutting	O2	N2	Air cutting	O2	N2	Air cutting	O2	N2	Air cutting	O2	N2	Air cutting	O2	N2	Air cutting	O2	N2
Power Consumption	Laser module (KW)	3			4.5			6			9			12			18		
	Water Chiller Group (KW)	2.3			3			3.3			5			5.2			7.5		
	Host Machine (KW)	6			6			6			10			10			10		
	Dust Exhausting Equipment (KW)	3			3			3			3			3			11		
Quick-wear Part (RMB/h)		2.5																	
Gas Consumption		Air cutting--15kw						O2--(About) 25 RMB/h						N2--(About) 100 RMB/h					
Total Power (KW)		29.3	14.3	14.3	31.5	16.5	16.5	33.3	18.3	18.3	42	27	27	45.2	30.2	30.2	45.2	30.2	30.2
Average Power Consumption (Take 60% Cutting Efficiency) KW		17.58	8.58	8.58	18.9	9.9	9.9	19.98	10.98	10.98	25.2	16.2	16.2	27.12	18.12	18.12	27.12	18.12	18.12
All Cost (1RMB/kwh)		17.58 +2.5 =	8.58 +25 +2.5 =	8.58 +100 +2.5 =	18.9 +2.5 =	9.9 +25 +2.5 =	9.9 +100 +2.5 =	18.9 +2.5 =	9.9 +25 +2.5 =	9.9 +100 +2.5 =	25.2 +2.5 =	16.2 +25 +2.5 =	16.2 +100 +2.5 =	27.12 +2.5 =	18.12 +25 +2.5 =	18.72 +100 +2.5 =	27.12 +2.5 =	18.12 +25 +2.5 =	18.72 +100 +2.5 =
		20.08	36.08	111.08	21.4	37.4	112.4	21.4	37.4	112.4	21.4	43.7	118.7	29.62	45.62	120.62	29.62	45.62	120.62



▶ SERVICE SYSTEM





Gweike Tech Co., Ltd. is established in July 2004, a company with 19 years of production experience in the development, production and sales of fiber laser cutting machines.



90000+

The production base covers an area of 90,000 square meters



1000+

Office area of more than 1,000 square meters



800+

More than 800 employees



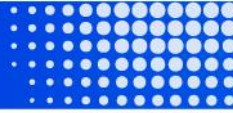
100+

R&D and production team of more than 100 people



21+

21 Services Office All Over The World

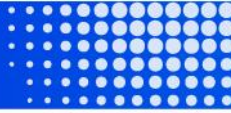


▶ EXPO STAFF

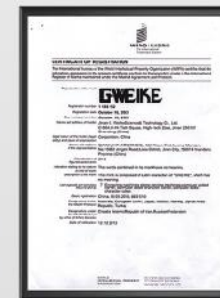


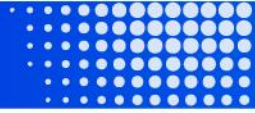
**SERVICE FOR 150
COUNTRIES**





▶ QUALIFICATION/ HONOR





▶ **QUALITY CONTROL PROCESS**

① **Incoming Quality Inspection**

Laser Source Test



Laser Head Test



Rack Detection

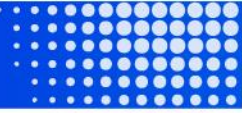


Motor / Reducer Testing



**Machine Parts Qualification
And trades Certificate**





② Production process quality control

①

**Machine
Bed Welding**



②

**Machine Bed
Heat Treatment**



③

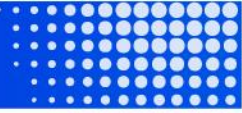
Milling Machine



④

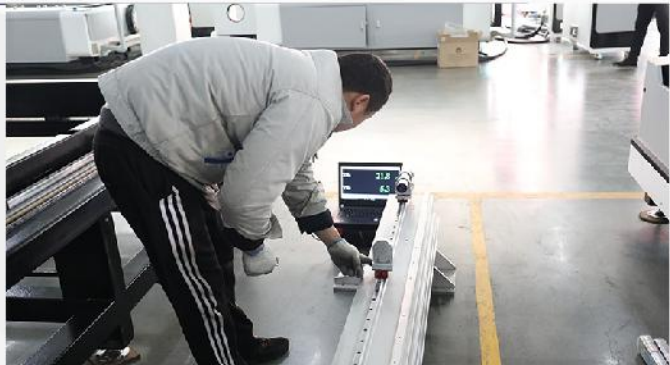
**Accurate
Installation**





⑤

Collimator Tests



⑥

Marble Square Ruler



⑦

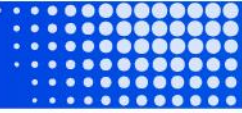
Double Ball Bar Test



⑧

Laser Interferometer Test





3 Before Package

①

Machine Running Test



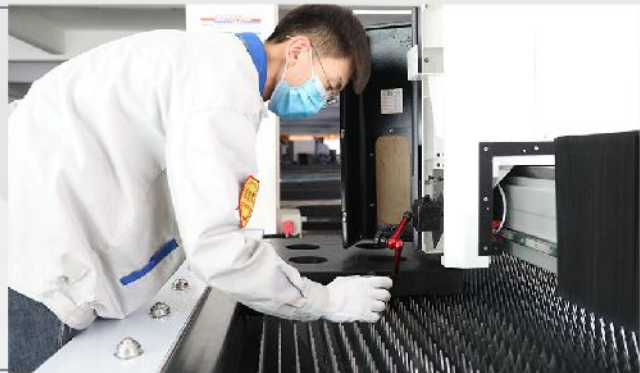
②

Machine Cutting Test



③

Outlook Quality Test



④

Quality Check Report

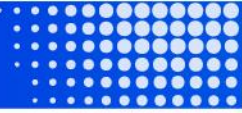
GWEIKE

光纤切割机质检报告

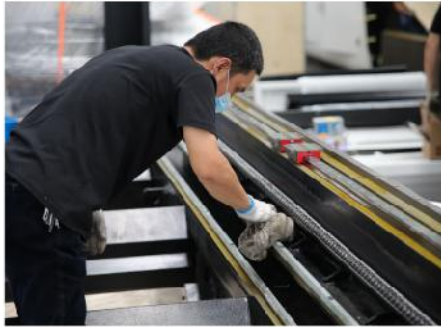
机器编号: 209 机器型号: LG305 伺服电机: 型号: _____
 功率: _____ 电压: _____ 光纤激光源编号: _____ 型号: _____
 控制柜型号: _____ 控制柜编号: _____ 版本型号: _____

以下表格内容请质检员如实填写:

序号	检测内容	检测方法/标准	检测工具	责任人	确认日期	质检确认
1	1.轴导轨、丝杆、滚珠丝杆精度、平行度	1.轴导轨精度 ≤ 0.01 mm, 滚珠与导轨平行度 ≤ 0.02 mm, 两导轨平行度 ≤ 0.02 mm, 丝杆与导轨平行度 ≤ 0.02 mm, 丝杆与导轨平行度 ≤ 0.02 mm	大理石平台、百分表		2/14	
2	2.丝杆精度	1.轴导轨、丝杆、滚珠丝杆精度 ≤ 0.01 mm, 滚珠与导轨平行度 ≤ 0.02 mm	百分表			
3	3.轴导轨、丝杆、滚珠丝杆精度、平行度	1.轴导轨精度 ≤ 0.01 mm, 滚珠与导轨平行度 ≤ 0.02 mm, 两导轨平行度 ≤ 0.02 mm, 丝杆与导轨平行度 ≤ 0.02 mm	大理石平台、百分表		2/17	
4	4.丝杆精度	1.轴导轨、滚珠丝杆精度 ≤ 0.01 mm	百分表		2/17	
5	5.丝杆精度检测	轴导轨精度 ≤ 0.01 mm, 滚珠与导轨平行度 ≤ 0.02 mm, 两导轨平行度 ≤ 0.02 mm	大理石平台、百分表		2/17	
6	6.丝杆、丝杆、滚珠丝杆精度	轴导轨精度 ≤ 0.01 mm	大理石平台		2/17	



▶ STRICT PACKAGE PROCESS



01

Machine Cleaning



02

Protective Oil Processing



03

Protective Film Wrapping



06

Wooden Boxseal



05

Box Nailing



04

Wooden Box Delivery



07

Container Loading



08

Container Sealing



09

Transportation