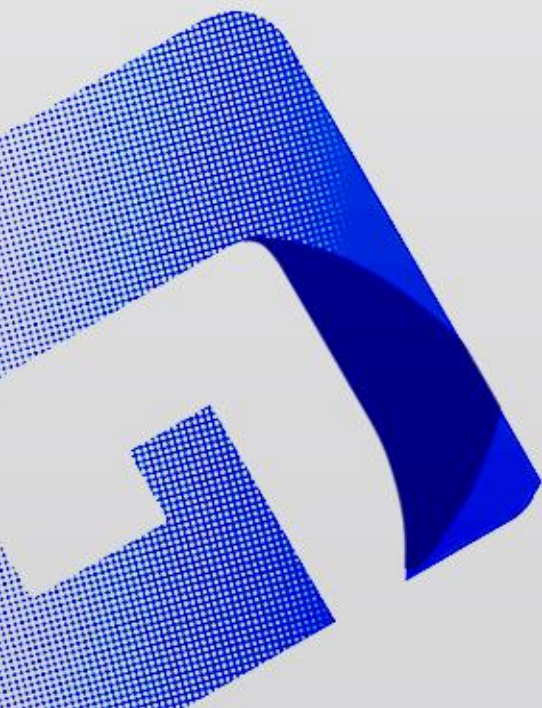




TECHNICAL PROPOSAL

LF3015P

1000-6000W
WHOLE COVER LASER CUTTING MACHINE





▶ **PRODUCT OVERVIEW**

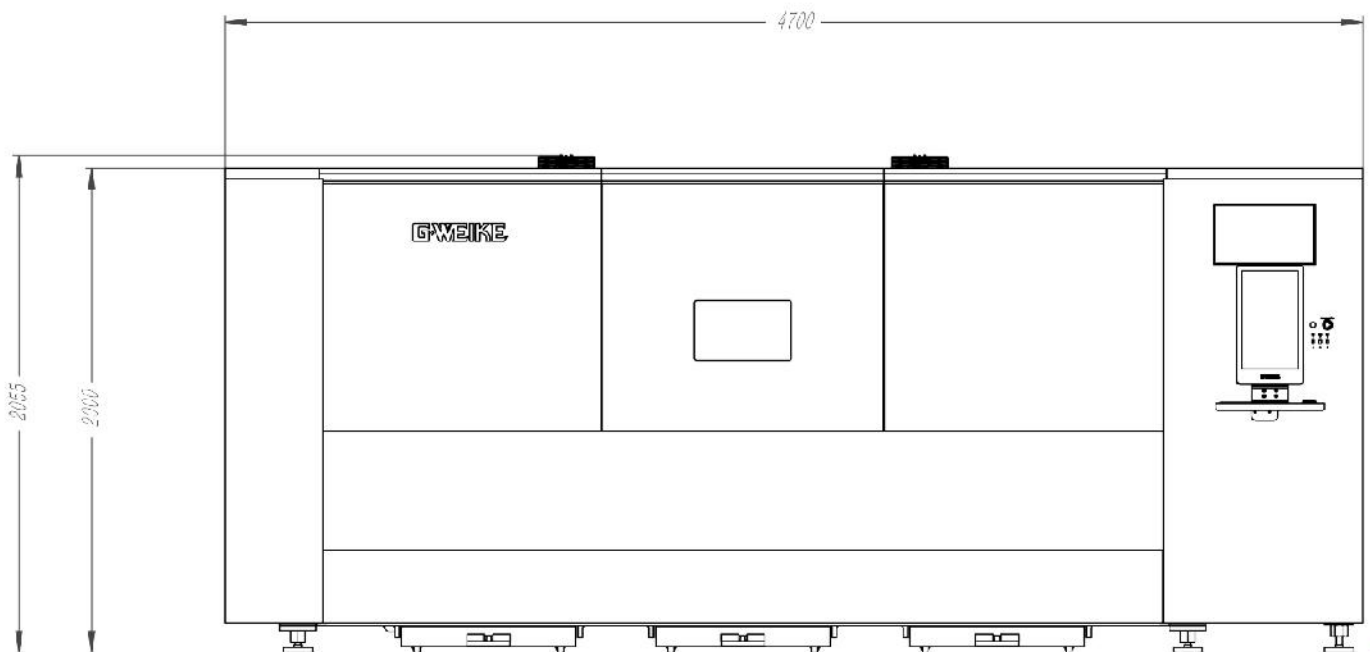
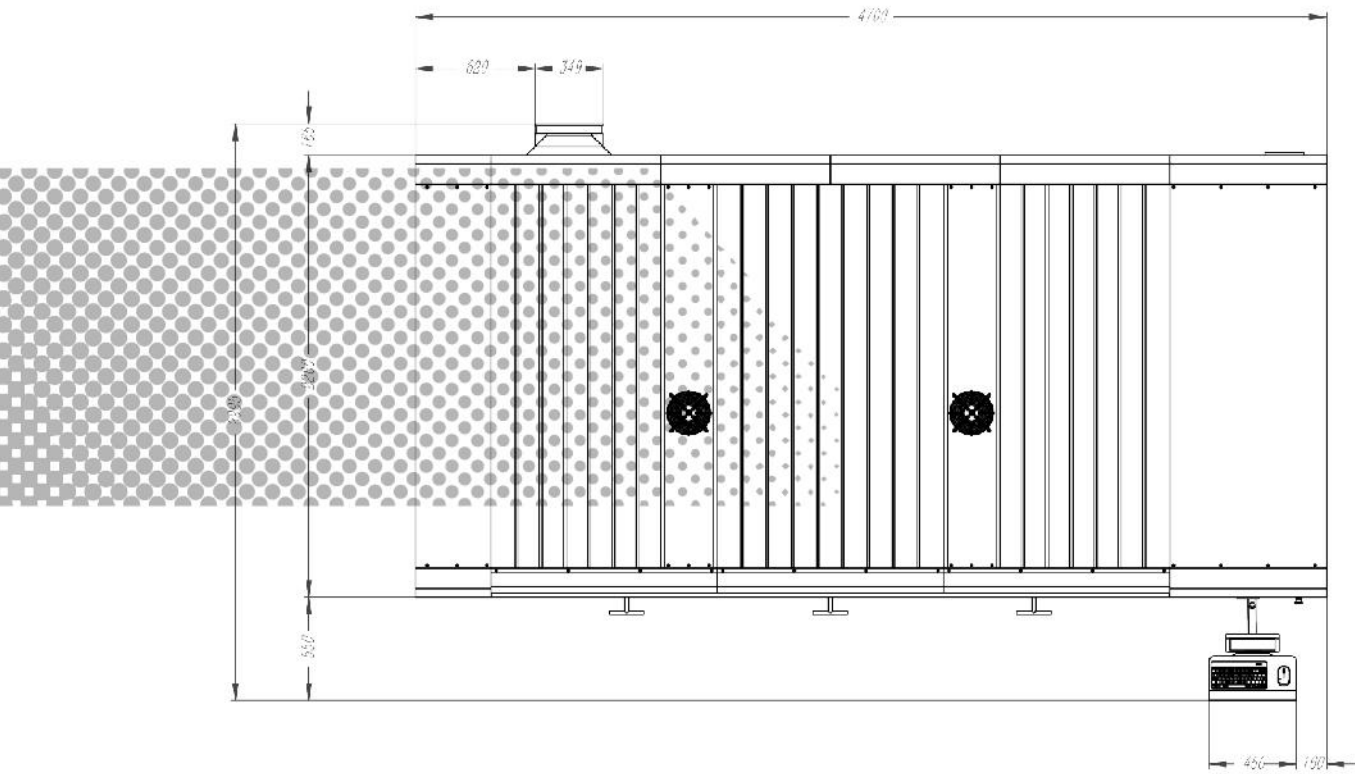
- The cutting platform can be pulled out, material loading more convenient
- Fully enclosed cover design, better smoke exhaust effect, hygiene and high safety
- Segmented smoke exhaust, one end of the fan blows, the other end of the fan sucks, blowing and sucking, the smoke exhaust effect is better
- Aviation Aluminum Gantry
- CE protection standard
- High configuration





▶ **PRODUCT DESCRIPTION**

— LF3015P —



▶▶ TECHNICAL PARAMETERS

Model	LF3015P II
Maximum processing range	3000x1500mm
X-axis travel	3000mm
Y-axis travel	1500mm
Z-axis travel	100mm
X / Y / Z axis positioning accuracy	±0.03mm
X / Y / Z axis repeat positioning accuracy	±0.02mm
X / Y axis maximum moving speed	80m/min
X / Y / Z axis maximum cutting speed	80m/min
X / Y / Z maximum acceleration	1.0G
Transmission type	Dual drive rack
Z-axis motor power	750W
X / Y -axis travel motor power	X-axis:850W Y-axis:1.3KW
Guide width	X-axis:20mm Y-axis:25mm
Working platform load	700kg
Enclosed laser protection	Yes
Lubrication type	Automatic oiling
Power available	1000-6000W
Dimension	4700*3000*2050mm
Total Weight	3150KG

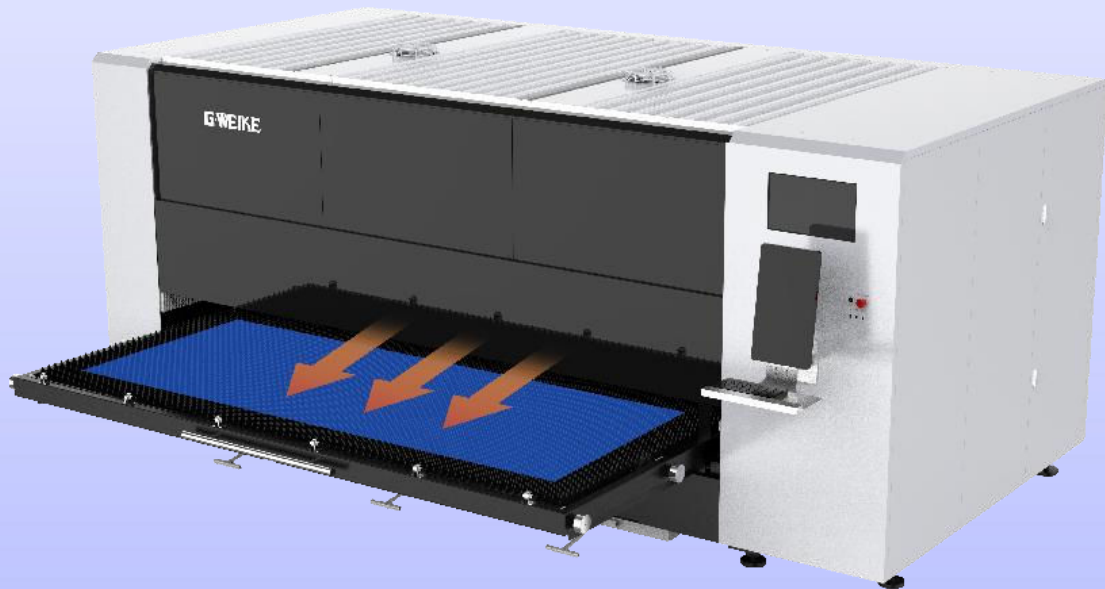
LF3015P Main Specification

No.	Name	Quantity	Brand
1	Laser source	1 set	Raycus/IPG/MAX
2	Laser head	1 set	Raytools Cutting head
3	Machine body	1 set	Gweike
4	Gear and Rack	1 set	Taiwan YYC
5	Reducer	1 set	France Motovario
6	Motor on X, Y axis	1 set	YASKAWA / INOVANCE
7	Motor on Z axis	1 set	YASKAWA / INOVANCE
8	Exhaust Smoke System	1 set	China
9	Guide rail	1 set	DTX
10	Electronic Components	1 set	CHNT / France Schneider
11	Pneumatic Components	1 set	Japan CKD / SMC
12	Control system	1 set	Cypcut 2000C
13	Water chiller	1 set	HanLi Water Chiller
14	Control cabinet	1 unit	Gweike
15	3rd generation aviation aluminum Beam	1 unit	Gweike
16	Auto higher	1 unit	Cypcut
17	Auto lubrication	1 set	China
18	Industrial computer	1 set	HP
19	All closed protective cover	1 set	Gweike

▶▶ PRODUCT ADVANTAGES

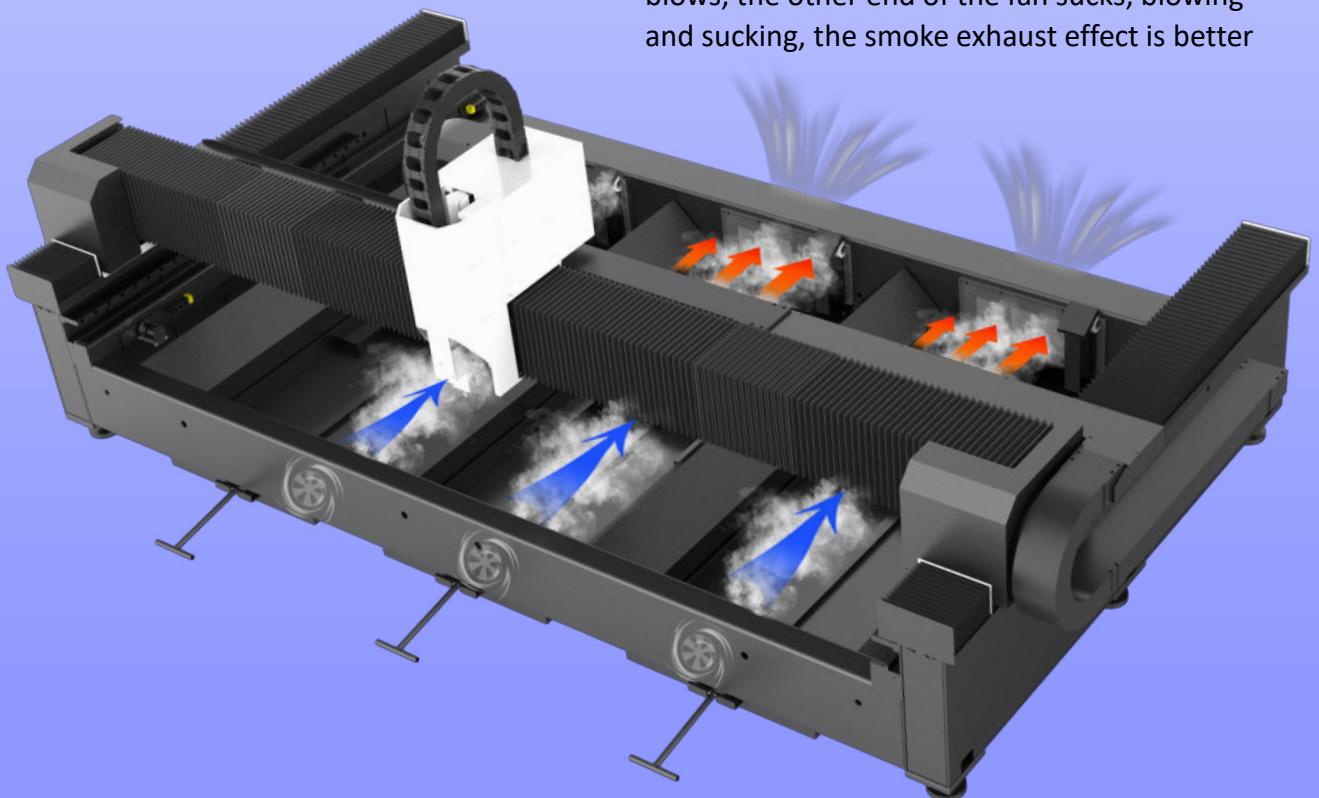
▼ Platform can be pulled out

- The cutting platform can be pulled out, material loading more convenient



▼ Segmented smoke extraction

- Segmented smoke exhaust, one end of the fan blows, the other end of the fan sucks, blowing and sucking, the smoke exhaust effect is better





MAIN CONFIGURATION



▼ RAYCUS Laser Source

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



▼ RAYCUS Laser Source

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



▼ France MOTOREDUCER

- Stable operation
- Low noise
- Large output torque
- High speed ratio



▼ Taiwan - YYC

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

▶ MAIN CONFIGURATION



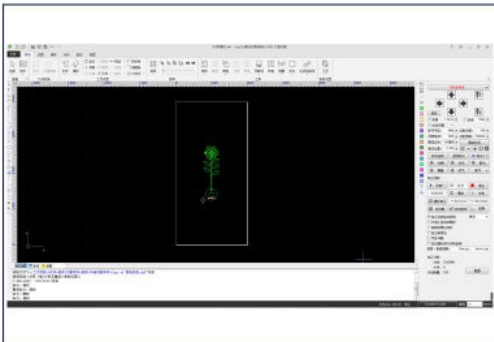
▼ DXT rail

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



▼ Servo Motor-Inovance

- High accuracy
- High-speed performance
- High adaptability & stability
- Timeliness, short dynamic response time of motor



▼ CYPCUT 2000C

- 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

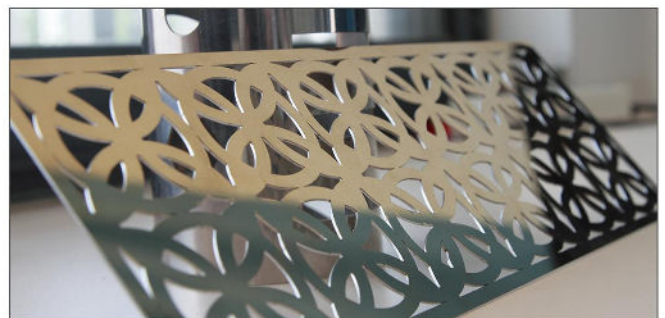
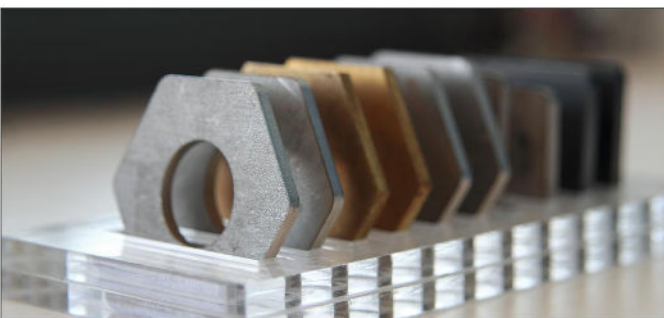
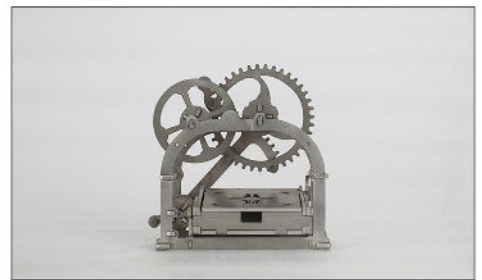
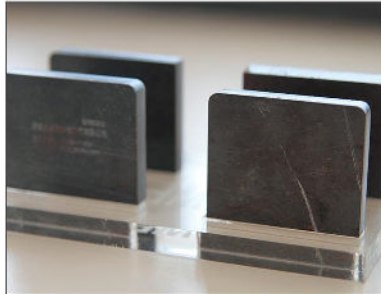
▶▶ CUTTING PARAMETERS

6000W			
Material	Thickness	Assisted Gas	Max Speed
Carbon steel	0.5	Nitrogen	80.0-100.0
	1.0		35.0-48.0
	2.0	Oxygen	6.0-7.5
	3.0		4.0-5.0
	4.0		3.5-4.5
	5.0		3.0-3.8
	6.0		2.6-3.2
	8.0		2.0-2.5
	10.0		1.8-2.1
	12.0		1.6-1.9
	14.0		0.8-1.1
	16.0		0.7-0.9
	20.0	0.65-0.85	
	25.0	0.4-0.6	
Stainless steel	0.5	Nitrogen	80.0-100.0
	1.0		50.0-65.0
	2.0		30.0-40.0
	3.0		18.0-22.0
	4.0		10.0-14.0
	5.0		8.0-12.0
	6.0		6.0-8.0
	8.0		4.0-5.0
	10.0		1.8-2.5
	12.0		1.2-1.5
Brass	1.0		45.0-55.0
	2.0		25.0-30.0
	3.0		12.0-18.0
	4.0		8.0-10.0
	5.0		6.0-7.0

▶▶ CUTTING PARAMETERS

6000W			
Material	Thickness	Assisted Gas	Max Speed
Carbon steel	0.5	Nitrogen	80.0-100.0
	1.0		35.0-48.0
	2.0	Oxygen	6.0-7.5
	3.0		4.0-5.0
	4.0		3.5-4.5
	5.0		3.0-3.8
	6.0		2.6-3.2
	8.0		2.0-2.5
	10.0		1.8-2.1
	12.0		1.6-1.9
	14.0		0.8-1.1
	16.0		0.7-0.9
	20.0	0.65-0.85	
	25.0	0.4-0.6	
Stainless steel	0.5	Nitrogen	80.0-100.0
	1.0		50.0-65.0
	2.0		30.0-40.0
	3.0		18.0-22.0
	4.0		10.0-14.0
	5.0		8.0-12.0
	6.0		6.0-8.0
	8.0		4.0-5.0
	10.0		1.8-2.5
	12.0		1.2-1.5
	16.0		0.6-0.8
Brass	1.0		45.0-55.0
	2.0		25.0-30.0
	3.0		12.0-18.0
	4.0		8.0-10.0
	5.0		6.0-7.0

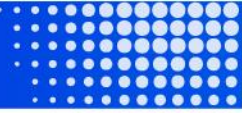
▶▶ CUTTING PARAMETERS



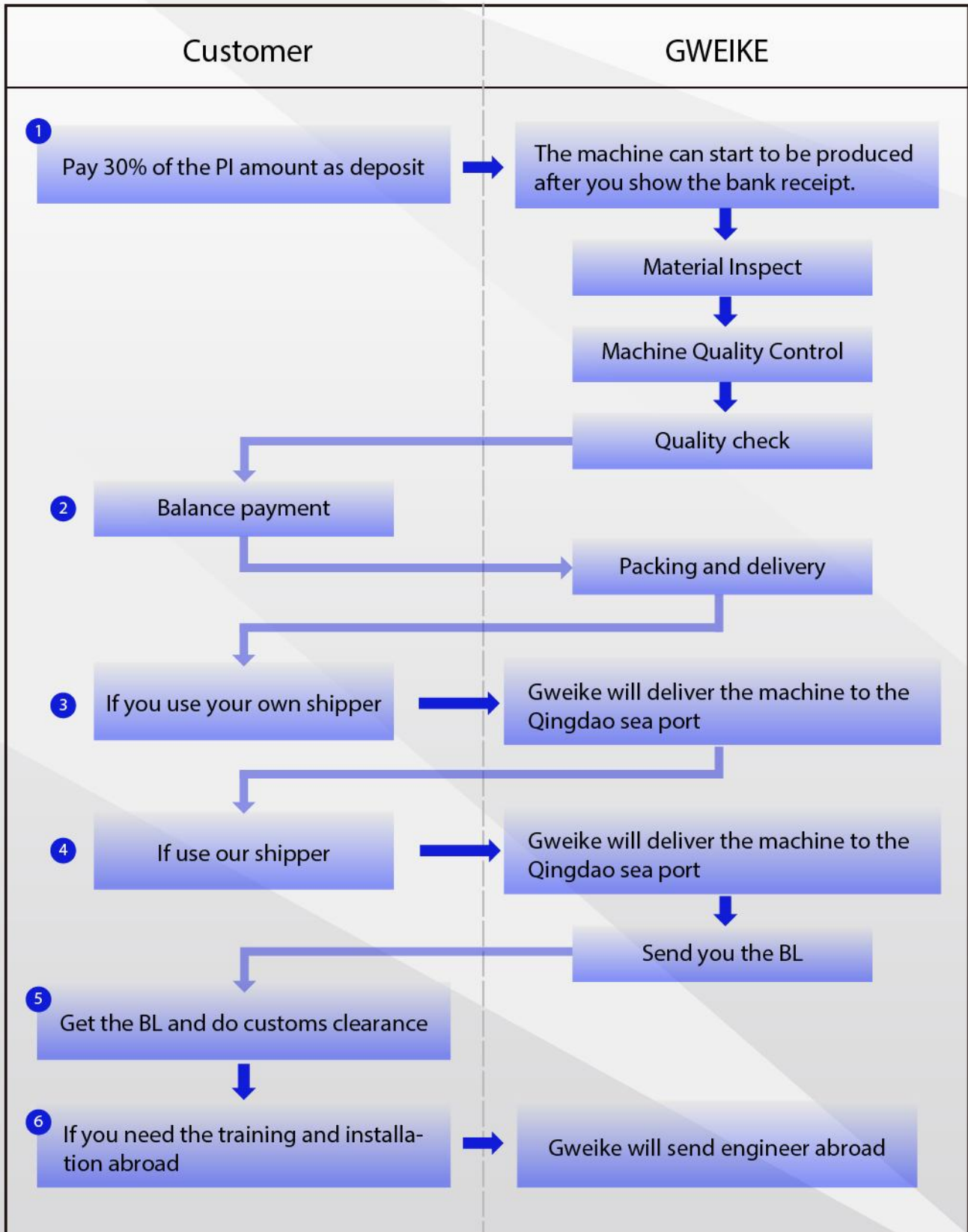
▶▶ COST ANALYSIS

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 18 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



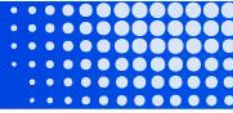
100+

R&D and production team of more than 100 people



21+

21 Services Office All Over The World

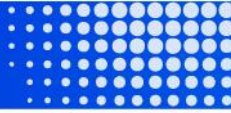


▶ EXPO STAFF

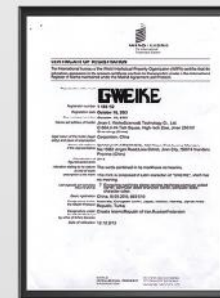


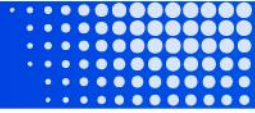
**SERVICE FOR 150
COUNTRIES**





▶ QUALIFICATION/ HONOR





▶ **QUALITY CONTROL PROCESS**

① **Incoming Quality Inspection**

Laser Source Test



Laser Head Test



Rack Detection

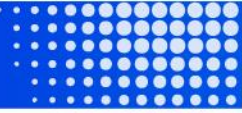


Motor / Reducer Testing



**Machine Parts Qualification
And trades Certificate**





② Production process quality control

①

**Machine
Bed Welding**



②

**Machine Bed
Heat Treatment**



③

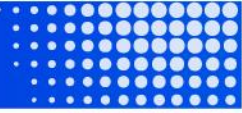
Milling Machine



④

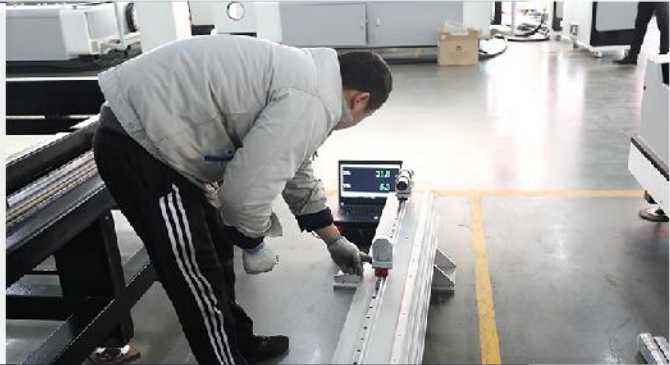
**Accurate
Installation**





⑤

Collimator Tests



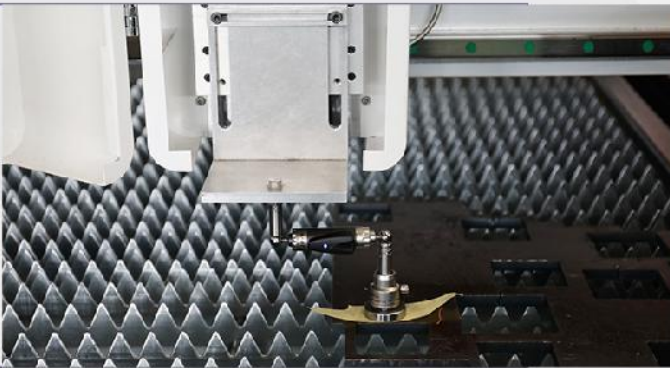
⑥

Marble Square Ruler



⑦

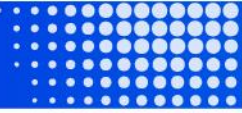
Double Ball Bar Test



⑧

Laser Interferometer Test





3 Before Package

①

Machine Running Test



②

Machine Cutting Test



③

Outlook Quality Test



④

Quality Check Report

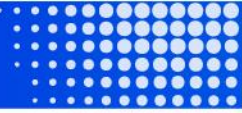
GWEIKE

光纤维切割机质检报告

机器编号: 209 机器型号: 123055 伺服电机: 型号: _____
 日期: _____ 产地: _____ 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, 丝杆与滚珠丝杆平行度 ≤ 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, 两导轨平行度 ≤ 0.02 mm, 丝杆与导轨平行度 ≤ 0.02 mm, 丝杆与滚珠丝杆平行度 ≤ 0.02 mm	百分表		2/17	
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, 丝杆与滚珠丝杆平行度 ≤ 0.02 mm	大理石平台、百分表		2/17	
4	4.丝杆精度	1.轴导轨、丝杆、滚珠丝杆精度 ≤ 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, 丝杆与滚珠丝杆平行度 ≤ 0.02 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, 丝杆与导轨平行度 ≤ 0.02 mm, 丝杆与滚珠丝杆平行度 ≤ 0.02 mm	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, 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, 丝杆与滚珠丝杆平行度 ≤ 0.02 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