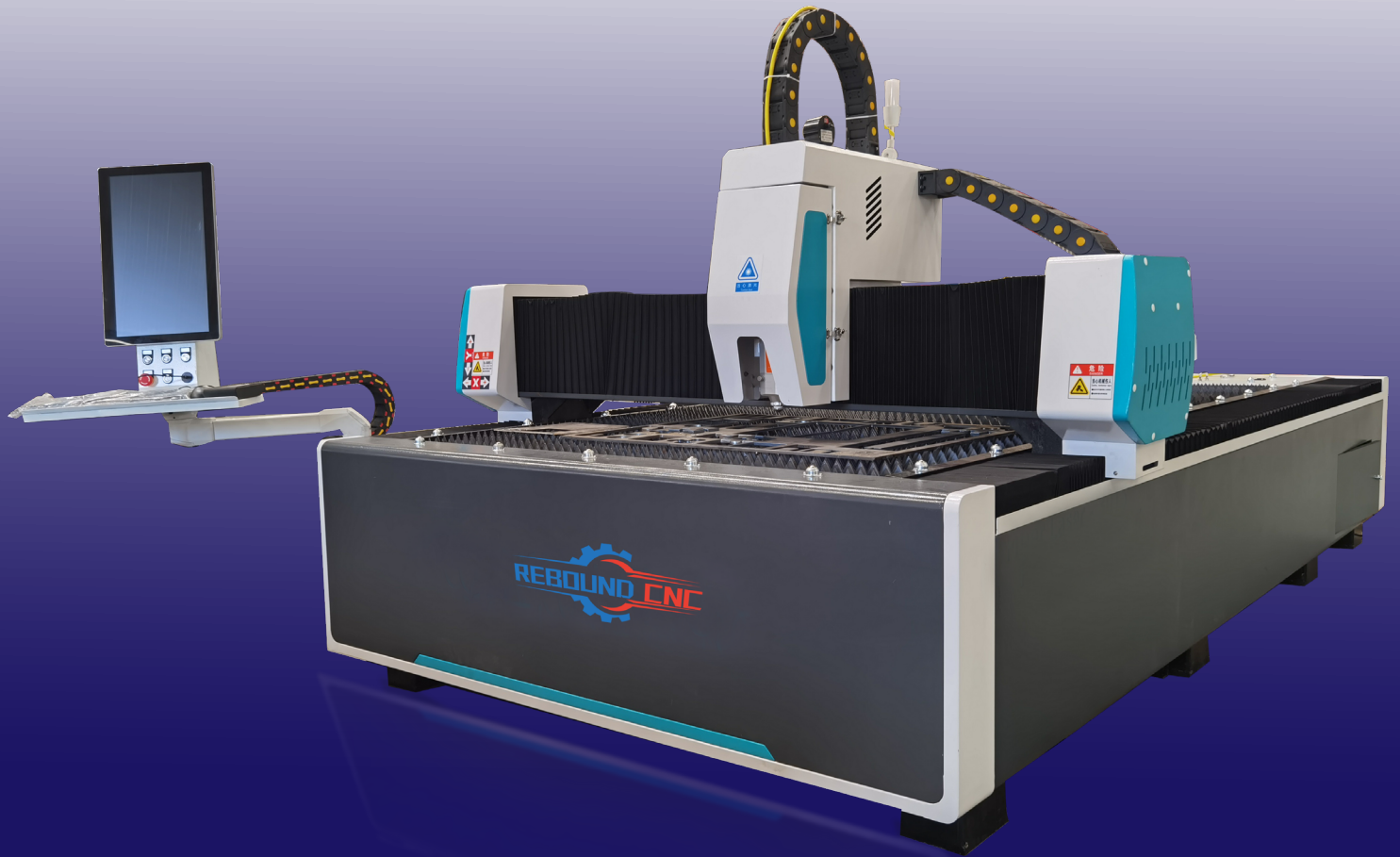




RB1530 CNC FIBER LASER CUTTING MACHINE

TECHNICAL PROPOSAL

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PRODUCT OVERVIEW

- Fiber laser cutting machine outputs a high-energy-density laser beam through the fiber laser and focuses it on the surface of the workpiece, causing the area on the workpiece illuminated by the ultra-fine focus spot to instantly melt and vaporize. The CNC mechanical system moves the spot irradiation position to achieve automatic cutting. It can be used for both plane cutting and bevel cutting, and its edges are neat and smooth. It is suitable for high-precision cutting such as metal plates. At the same time, it can be used for three-dimensional cutting with the addition of a robotic arm.
- Fiber laser cutting machines are used in sheet metal processing, aviation, aerospace, electronics, electrical appliances, subway accessories, automobiles, food machinery, textile machinery, engineering machinery, precision accessories, ships, metallurgical equipment, elevators, household appliances, craft gifts, and tool processing, decoration, advertising, metal external processing, kitchenware processing and other manufacturing and processing industries.



REBOUND CNC OFFER OF LASER CUTTING MACHINE

Manufacturer	Company name: Jinan Rebound Machine Co.,Ltd Address: Lotus Road, Li Cheng District, Jinan City, Shandong Province, China Email: info@reboundcnc.com
Model	RB 1530, RB 1540, RB 2040, RB 2060 (Other sizes can be customized and optional)
Type	Fiber Laser Cutting Machine
HS Code	8456110090
Quotation Method	EXW, FOB, CFR, CIF, DDP
Delivery	30 working days. (There are some machines models in stock)
Payment	50% T/T as deposit, the balance is sent by T/T before delivery.
Warranty	Two years

TECHNICAL PARAMETERS

Model	RB1530
Working Voltage	220V $\pm$ 15%, 50/60Hz, 1PH, CNC machine. 220/380V $\pm$ 15%, 50/60Hz, 1/3 PH, Laser generator
Maximum Cutting Size	1500*3000mm
Maximum Speed	100m/min
Cutting Thickness	0-100mm (Depends on different laser generator)
Laser Power	1500W/2000W/3000W/6000W/12000W/20000W

MAIN SPECIFICATION

Control System	RAYTOOLS
Laser Generator	MAX
Laser Head	RAYTOOLS
Driving System	HCFA Servo driving system
Water Cooler	S&A
Guide Rail	HIWIN square orbit,
Transmission Method	Gear transmission
Reducer	SHIMPO
Software	XC3000S
Transmission System	Gantry double-drive structure
Lubrication System	Full-automatic
Packing Type	Standard plywood case
Table	Saw tooth table
Smoke Removal Method	Fan
Graphic Gormat Supported	CAD. DXF (etc)
Working Environment	Temp:0-40℃,humidity≤80%

MAIN CONFIGURATION



▼ Machine bed

High strength machine bed is more stable and durable.
After 600℃ stress relief annealing treatment, the machine bed has strong structural rigidity. The overall mechanical structure of the machine has small deformation, low vibration, ensure cutting accuracy.



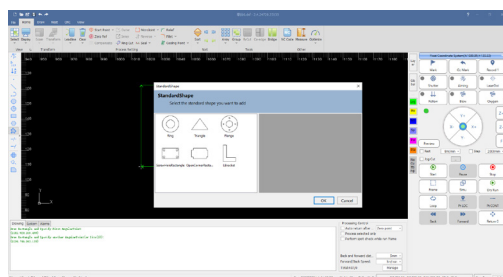
▼ Machine beam

Professional industrial aluminum material.
Good steel property, light weight, and small inertia.
Improve cutting speed and life.



▼ StructureMachining

The machine steel structure is processed by precision machine tool, solid and reliable, durable.



▼ Laser cutting system

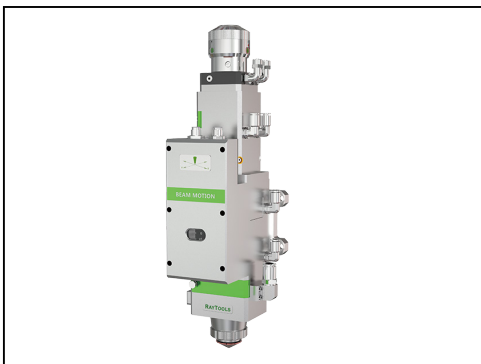
The X series is a flat laser cutting system developed based on the X-Studio platform. Includes models such as XC3000S/XC3000PRO/XC6000S, and supports EtherCAT bus servo and pulse servo. Featuring unique features such as insensitivity perforation, perforation slag removal, co cutting, vibration suppression, sharp corner cutting, and seamless micro connection.

MAIN CONFIGURATION



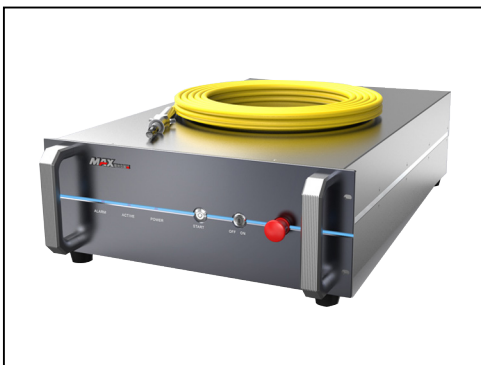
▼ Laser cutting remote controller

The laser cutting machine remote control is a device used to control the laser cutting machine, which has multiple functions, including on/off, mode switching, parameter setting, controlling XY translation and Z-axis lifting, etc.



▼ Laser cutting head

The BM110 series is an autofocus laser cutting head. This product is equipped with a built-in motor drive unit, which drives the focusing mirror to automatically change position within a range of 24mm through a linear mechanism. Users can set continuous focusing through a program to complete rapid perforation of thick plates and automatic cutting of plates of different thicknesses and materials.



▼ Max Laser generator.

This laser generator has higher photoelectric conversion efficiency, better and more stable beam quality, stronger anti high reflection ability, and introduces an optimized second-generation fiber optic transmission system to ensure a more stable and precise cutting effect in thick plate cutting.



▼ Servo driver and motor

Equipped with servo motor, high precision realizes closed-loop control of position, speed and torque, with good high-speed performance

MAIN CONFIGURATION



▼ Reducer

Japan SHIMPO reducer which has high precision, low noise. The back clearance is 0.05° , using helical gears and ball bearings.



▼ Water chiller

Water chiller meets the cooling needs of fiber laser equipment. With a temperature control accuracy of $\pm 1^\circ\text{C}$, it effectively controls water temperature fluctuations, and allows for arbitrary switching between constant temperature and intelligent temperature control modes, meeting the diverse application needs of users.



▼ Automatic oil injection pump

The working cycle, running time and intermittent time of the lubricating oil pump are controlled by an electronic controller. The oil pump has a low oil level alarm function.



▼ Alarm light

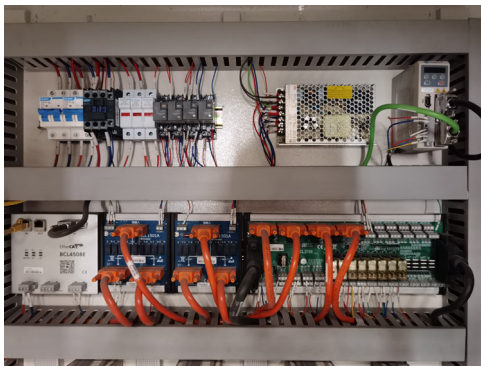
The three-color display light can prompt the working status of the machine, and has the function of alarm and emergency stop.

MAIN CONFIGURATION



▼ Proportional valves

SMC proportional valves are widely used in industrial control systems to achieve precise control of fluid flow, pressure, temperature, and other parameters. The emergence of proportional valves has greatly improved the automation level and product quality of industrial production.



▼ Control cabinet

The control cabinet has a compact design, small footprint, reasonable internal structure, and compact component layout, which can achieve powerful control functions in limited space. The control cabinet saves space while achieving control, making it suitable for situations with limited space.



▼ Rails and gears

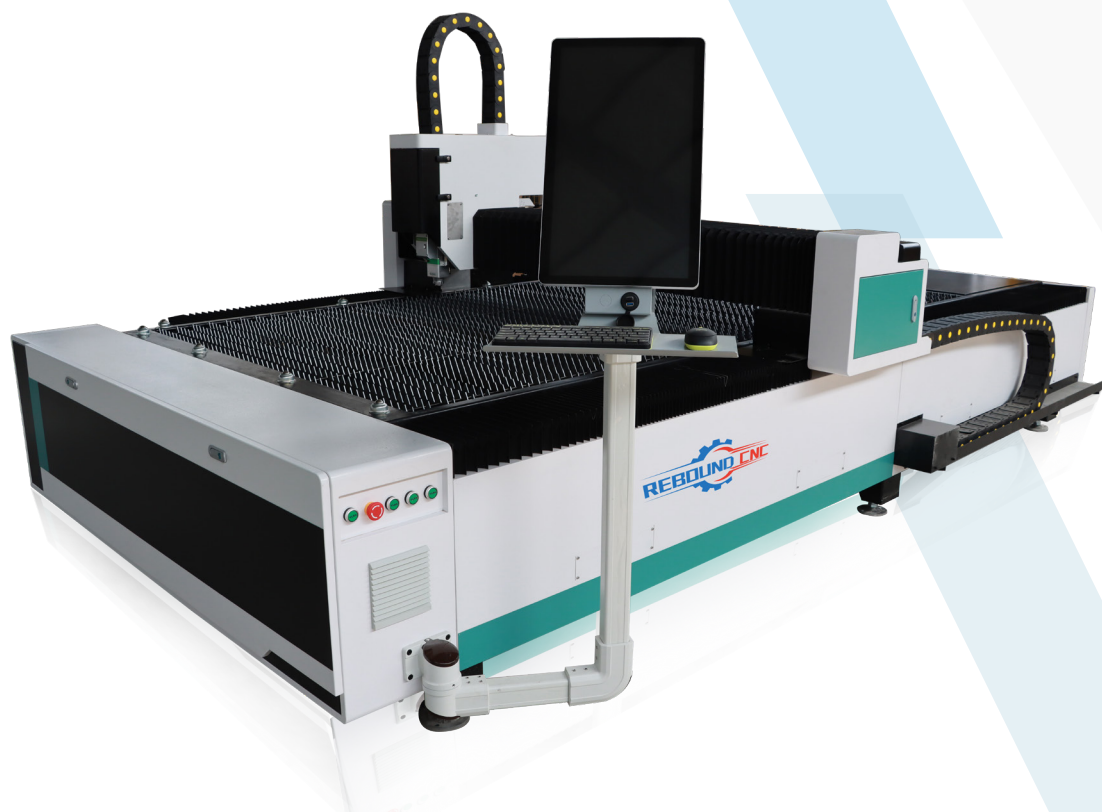
High precision, long life, can provide rigorous support for quenching helical gears and grinding helical gears, so that the load drive structure is compact, can effectively reduce the driving torque.



▼ Closed tank chain

The drag chain of the machine is made of reinforced nylon material, which has high pressure and tensile load, good toughness, high elasticity, and wear resistance.

OTHER MODELS



SUPPORTING EQUIPMENT



Screw Air Compressor



Tank



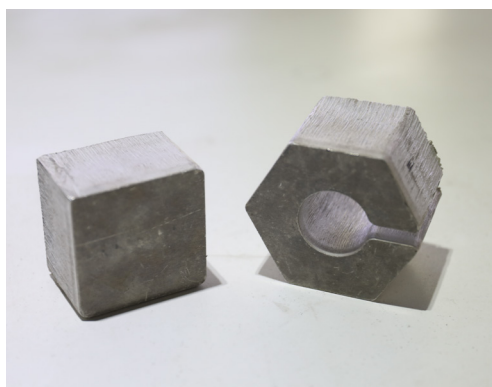
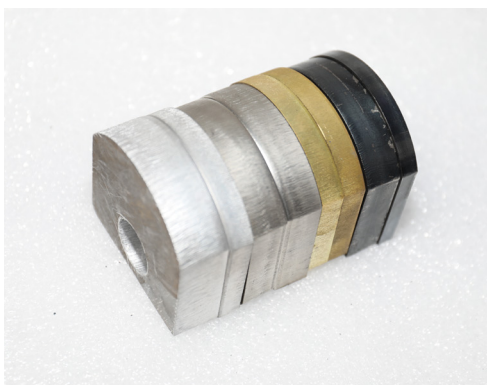
Air Dryer



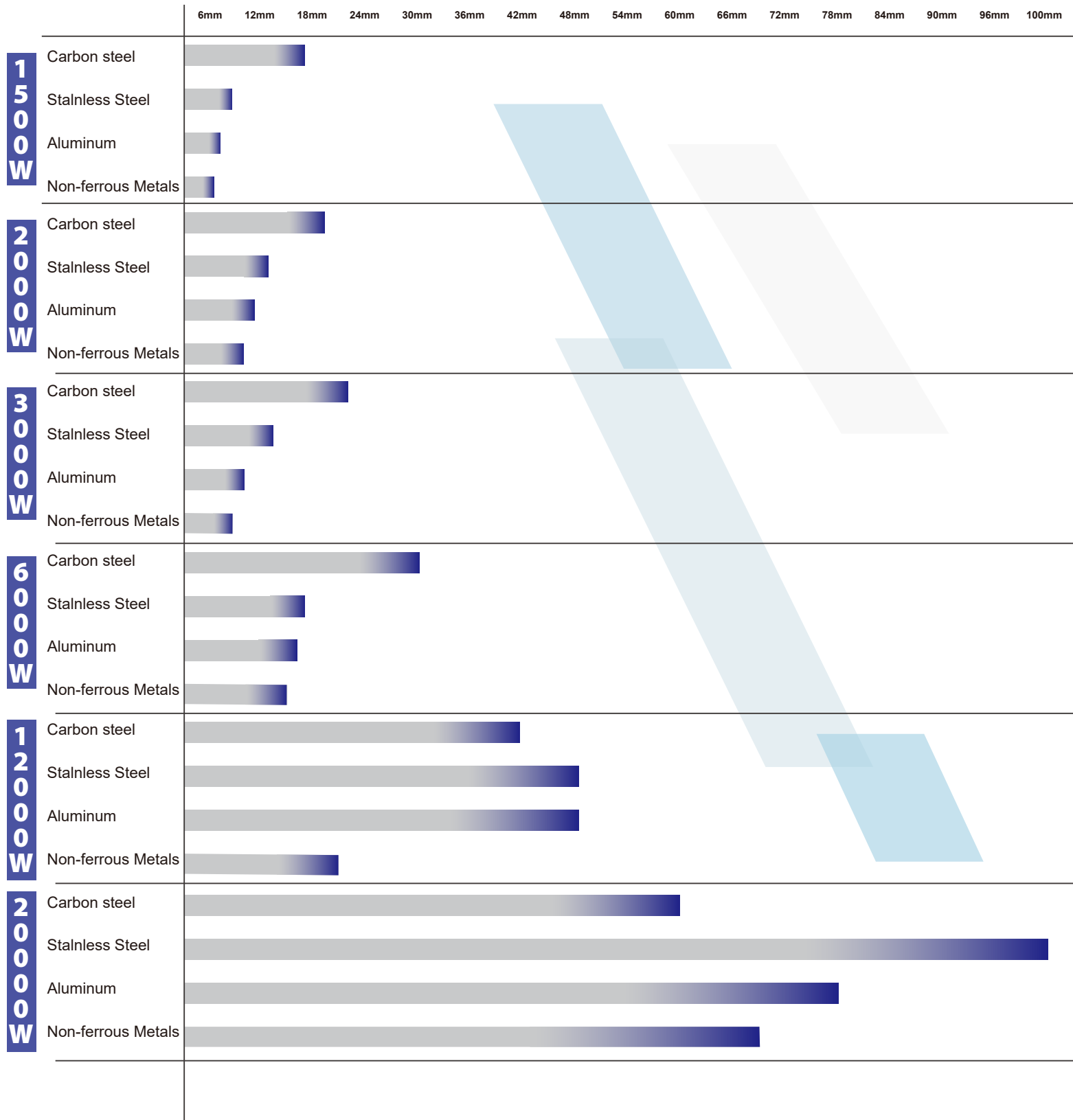
FACTORY



SAMPLE



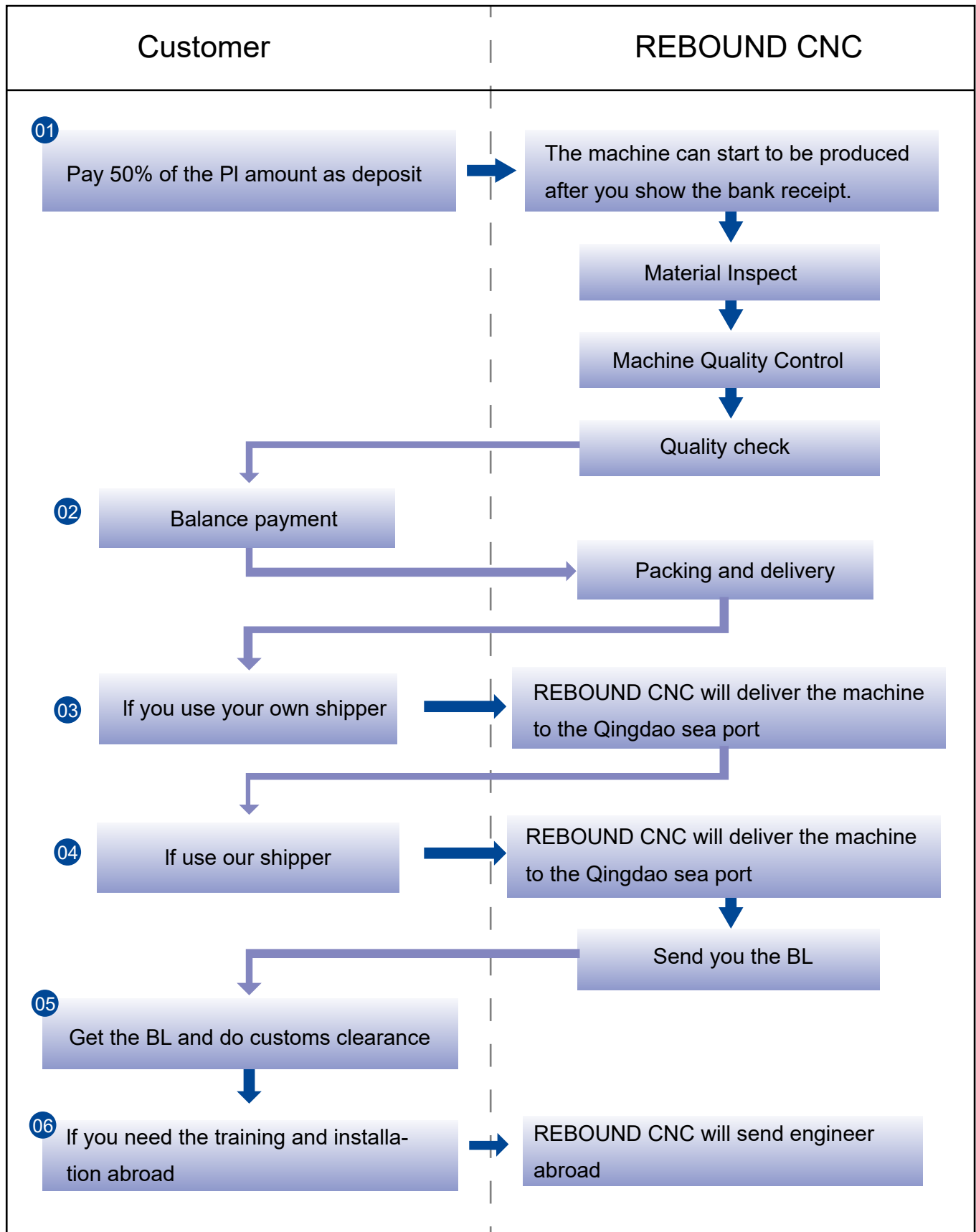
CUTTING PARAMETER



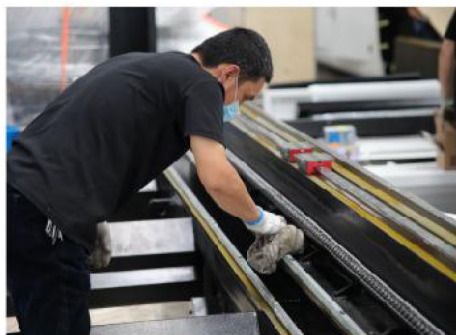
CERTIFICATE



SERVICE SYSTEM



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