LASER
CUTTING MACHINE
GF PLUS SERIES
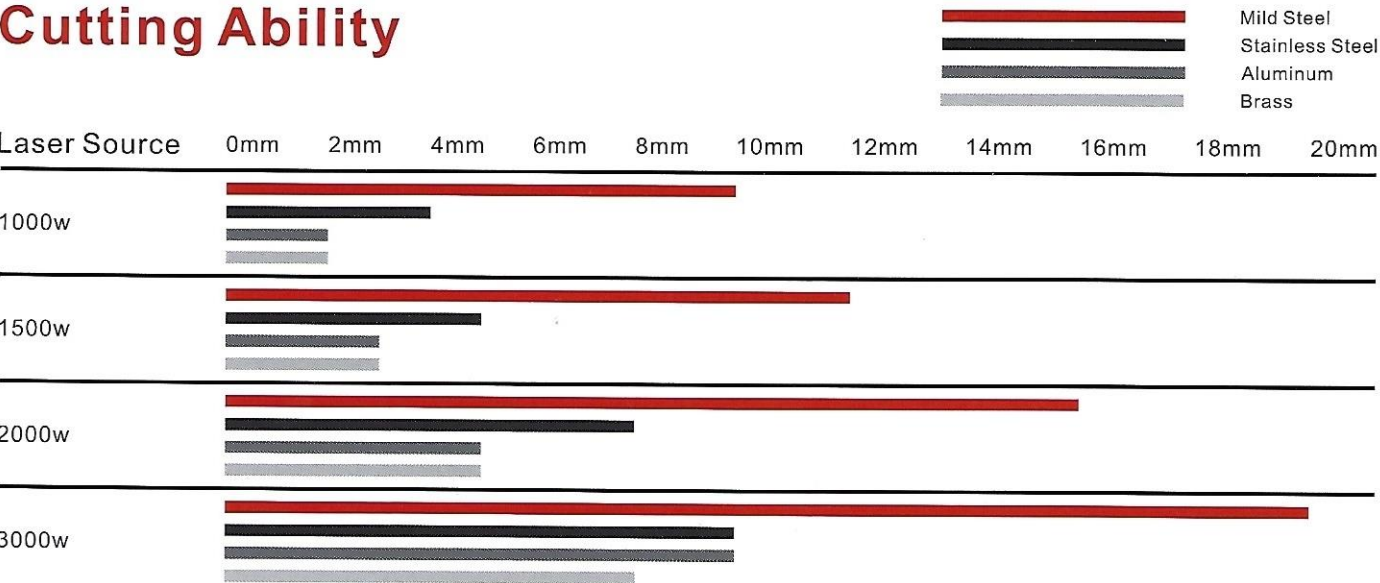

Technical Specification

Machine Model		GF3015 PLUS	GF4022 PLUS	GF6025 PLUS
Cutting Area (L×W)		3000mm×1500mm	4000mm×2200mm	6000mm×2500mm
Laser Source		HGTECH-RAYCUS	HGTECH-RAYCUS	HGTECH-RAYCUS
Laser Type & Power		Fiber & 1000/1500/2000/3000	Fiber & 1000/1500/2000/3000	Fiber & 1000/1500/2000/3000
Laser Wavelength		1070nm ±10nm	1070nm ±10nm	1070nm ±10nm
CNC System		CYPCUT	CYPCUT	CYPCUT
Servo Motor		YASKAWA(JAPAN)	YASKAWA(JAPAN)	YASKAWA(JAPAN)
Laser Cutting Head		Raytools	Raytools	Raytools
Display		19" Industry LCD	19" Industry LCD	19" Industry LCD
Max Moving Speed		100 m/min, Acceleration is 1G	100 m/min, Acceleration is 1G	100 m/min, Acceleration is 1G
Position Accuracy (X and Y axis)		±0.05mm	±0.05mm	±0.05mm
Reposition Accuracy (X and Y axis)		±0.03mm	±0.03mm	±0.03mm
Stroke	X-axis	1530mm	2230mm	2530mm
	Y-axis	3050mm	4050mm	6050mm
	Z-axis	220mm	250mm	250mm
Motion Structure	X and Y axis	Rack & Pinion	Rack & Pinion	Rack & Pinion
	Z-axis	Ball Screw	Ball Screw	Ball Screw
Power Supply Requirement		380V 50/60Hz 50A	380V 50/60Hz 50A	380V 50/60Hz 50A
Max Loading (KG)		700 KG	1300 KG	1800 KG
Appearance Size		8100mm×3100mm×2300mm	11000mm×3550mm×2300mm	15200mm×3550mm×2300mm

System Layout

(Apperance For Reference)

Cutting Ability

	Mild Steel
	Stainless Steel
	Aluminum
	Brass

Laser Source	0mm	2mm	4mm	6mm	8mm	10mm	12mm	14mm	16mm	18mm	20mm

1000w

1500w

2000w

3000w
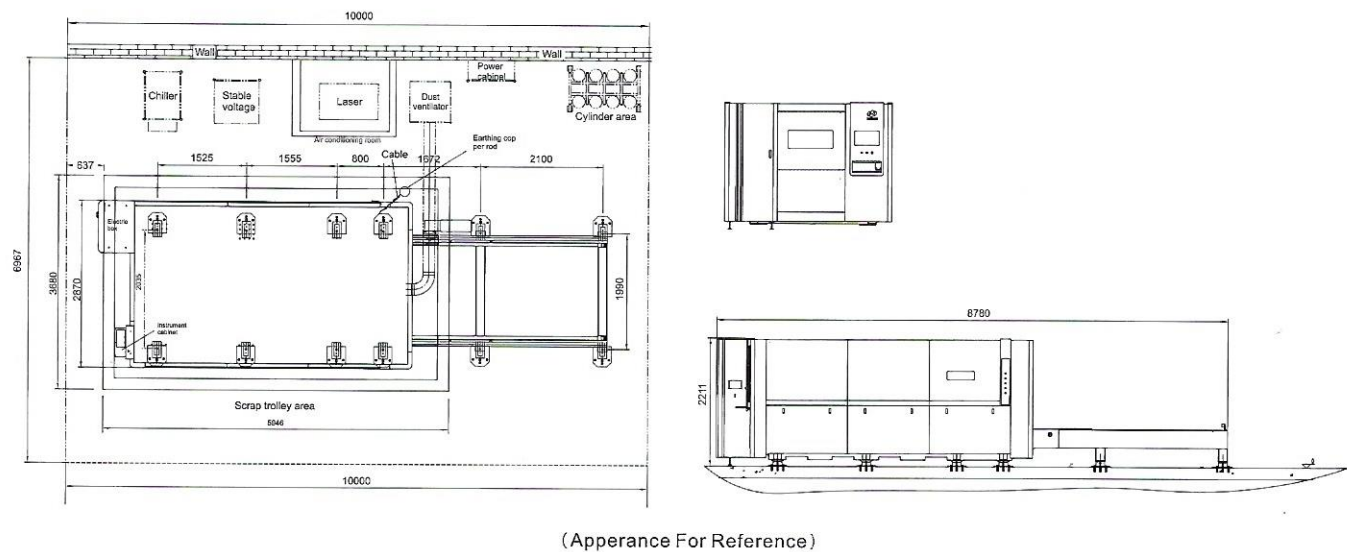
Cutting Samples

Technology Advantages

A wide range of products to meet customers' needs
Efficiency/Precision/Quality/Stability

Plate Nesting Programming

Especially for complex workpiece processing programming.

Backspace Function

Laser returns to the imperfect cutting spot along the original path of motion and then cut again to avoid waste of processing piece. ocesses with "0" seconds of drilling without deceleration cutting.

Gantry Dual Driving Structure

Cutting area is completely closed with light . Gantry dual driving structure design , stable and precision , is applied for high speed and efficient laser cutting machine.

Automatically Feeding and Blanking System

Manipulator system is composed of automatic elevator with vacuum chuck to feed plate , equipped with automatic separating system and plate thickness measuring system.

Airborne Beam

Airborne gantry beam structure, especially for wide area laser cutting machine.

Nozzle Cleaning

During the cutting process, nozzle cleaning is automatically performed, processing and cutting will be continued after the cleaning is completed.

Synchronous Exchange Table

Dual working table exchanges synchronously with 20 seconds per time.

High quality cutting

No burrs, low roughness, better cutting quality; nearly perfect verticality.

Cutting Process database

Based on years' cutting experience, each material restore processing data about standard cutting, standard piercing, corner controlling, marking, hole cutting.

High-speed Piercing

A variety of efficient drilling processes with "0" seconds of drilling without deceleration cutting.

Automatically Edge Finding

Automatically calculating the angle between plate and machine tool , then rotating coordinate system to process plate.

Convenient Hand-held Unit

PROFIBUS with NCU communication, less connections with reliability , integration of numerical input and output , potentiometer signals, pendent pulse generator, which realizing back to zero , height capacitance following , job cutting retrace, table mechanical moving and etc.

Intelligent Logistics and Storage

Automatically warehouse, system management software, bar code identification and tracking system and transfer robot system .