@202206

LASER CUTTING&WELDING SOLUTIONS



Empower Your Laser Solutions



About Us

General Purpose:

Evaluation, generation and application of laser beam and control software for industrial use; custom project, knowhow and services;

Achievements:

Industrial lasers beam delivery and automation for various applications, hybrid application concepts of high power lasers, diodes, custom projects; modular laser source and machine concepts, components, accessories and unique beam alignment technology;

Advantages:

Independent company with vast know-how and engineering skills on demand and in line with customer requirements;

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EMP5040 SERIES



High Precision Micro Laser Cutting Station—Linear Motor Driven

Processing Size 500x400mm

High precision linear guide with high repeated positioning accuracy, less wearing and stable performance.

ECAT/AheadTechs CNC controller based on EtherCAT protocol. Friendly HMI with high flexibility and easy expanding.

Laser source and chiller are excluded.



Raytools laser cutting head along with EtherCAT height sensor to safeguard the cutting.

Highly dustproof class IP 5x.

CCD vision system is optionalx.

Applicable to laser cutting in jewelry, glasses, luminaire finish, kitchen appliance, mobile communication, digital products, electronics components, watch & clock, computer accessories and instruments etc

Technical Data

Item	Specification	Brand
Linear Motor	ULMAC3 , ULMC3	RayTools
Linear Encoder	Resolution Ratio 1µm	
Linear Drive	CDHD-4D52AEB2/C-	Servotronix
	DHD-0062AEB2	
Z-Axis Ball		Empower
Screw Moduley		
Laser Cutting	BT240S (other models	RayTools
Head	are optional)	
Linear Guide		THK
Marble	1400* 1350*200	
Dust Cover	Mental	RayTools

X-Axis	Fast-Moving Speed	60m/min
	Effective Travel	400mm
	Positioning Accuracy (Cutting)	±0.015mm
	Repeated Positioning Accuracy	±0.004mm
Y-Axis	Fast-Moving Speed	60m/min
	Effective Travel	500mm
	Positioning Accuracy (Cutting)	±0.015mm
	Repeated Positioning Accuracy	±0.004mm
Z-Axis	Travel	100mm

EMP6060 SERIES



High Precision Micro Laser Cutting Station—Linear Motor Driven

Processing Size 600x600mm

High presion linear guide with high repeated positioning accuracy, less wearing and stable performance.

ECAT/AheadTechs CNC controller based on EtherCAT protocol. Friendly HMI with high flexibility and easy expanding.

Applicable to laser cutting in jewelry, glasses, luminaire finish, kitchen appliance, mobile communication, digital products, electronics components, watch & clock, computer accessories and instruments etc.



Raytools laser cutting head along with EtherCAT height sensor to safeguard the cutting.

Highly dustproof class IP 5x.

CCD vision system is optionalx.

Laser source and chiller are excluded.

Item	Specification	Brand
Linear Motor	ULMAC3 , ULMC3	RayTools
Linear Encoder	Resolution Ratio 0.5µm	
Linear Drive	CDHD-4D52AEB2/C-	Servotronix
	DHD-0062AEB2	
Z-Axis Ball		Empower
Screw Moduley		
Laser Cutting	BT240S (other models	RayTools
Head	are optional)	
Linear Guide		THK
Marble	1800* 1350*200	
Dust Cover	Mental	RayTools

X-Axis	Fast-Moving Speed	60m/min
	Effective Travel	600mm
	Positioning Accuracy (Cutting)	±0.015mm
	Repeated Positioning Accuracy	±0.004mm
Y-Axis	Fast-Moving Speed	60m/min
	Effective Travel	600mm
	Positioning Accuracy (Cutting)	±0.015mm
	Repeated Positioning Accuracy	±0.004mm
Z-Axis	Travel	100mm

EMP8080 SERIES



High Precision Micro Laser Cutting Station—Linear Motor Driven

Processing Size 800x800mm

High presion linear guide with high repeated positioning accuracy, less wearing and stable performance.

ECAT/AheadTechs CNC controller based on EtherCAT protocol. Friendly HMI with high flexibility and easy expanding.

Applicable to laser cutting in jewelry, glasses, luminaire finish, kitchen appliance, mobile communication, digital products, electronics components, watch & clock, computer accessories and instruments etc.



Raytools laser cutting head along with EtherCAT height sensor to safeguard the cutting.

Highly dustproof class IP 5x.

CCD vision system is optional.

Laser source and chiller are excluded.

Item	Specification	Brand
Linear Motor	ULMAC3, ULMCC3	RayTools
Linear Encoder	Resolution Ratio 0.5µm	Fagor
Linear Drive	CDHD-4D52AEC2/C-	Servotronix
	DHD-1D52AEB2-R0	
Z-Axis Ball	uyj-80h-s100	Empower
Screw Moduley		
Laser Cutting	BT240S (other models	RayTools
Head	are optional)	
Linear Guide		THK
Marble	1800* 1350*200	
Dust Cover	Mental	RayTools

X-Axis	Fast-Moving Speed	60m/min
	Effective Travel	800mm
	Positioning Accuracy (Cutting)	±0.03mm
	Repeated Positioning Accuracy	±0.005mm
Y-Axis	Fast-Moving Speed	60m/min
	Effective Travel	800mm
	Positioning Accuracy (Cutting)	±0.03mm
	Repeated Positioning Accuracy	±0.005mm
Z-Axis	Travel	100mm

EMP1250 SERIES



High Precision Micro Laser Cutting Station—Linear Motor Driven

Processing Size 1250x1250mm

High presion linear guide with high repeated positioning accuracy, less wearing and stable performance.

ECAT/AheadTechs CNC controller based on EtherCAT protocol. Friendly HMI with high flexibility and easy expanding.

Applicable to laser cutting in jewelry, glasses, luminaire finish, kitchen appliance, mobile communication, digital products, electronics components, watch & clock, computer accessories and

instruments etc.



Raytools laser cutting head along with EtherCAT height sensor to safeguard the cutting.

Highly dustproof class IP 5x.

CCD vision system is optionalx.

Laser source and chiller are excluded.

Specification	Brand
ULMAC3, ULMDC3	RayTools
Resolution Ratio 0.5µm	Fagor
CDHD-0062AEC2CDHD-0	Servotronix
032AEC2-RO	
uyj-80h-s100	Empower
BT240S (other models	RayTools
are optional)	
	THK
2300* 2208*200	
Mental	RayTools
	ULMAC3, ULMDC3 Resolution Ratio 0.5µm CDHD-0062AEC2CDHD-0 032AEC2-RO uyj-80h-s100 BT240S (other models are optional) 2300* 2208*200

X-Axis	Fast-Moving Speed	60m/min
	Effective Travel	1250mm
	Positioning Accuracy (Cutting)	±0.02mm
	Repeated Positioning Accuracy	±0.005mm
Y-Axis	Fast-Moving Speed	60m/min
	Effective Travel	1250mm
	Positioning Accuracy (Cutting)	±0.02mm
	Repeated Positioning Accuracy	±0.005mm
Z-Axis	Travel	100mm

EMP9000 SERIES



Linear Motor Laser Cutting Module







Single-Drive Gantry 500x400mm

Double-Drive Gantry 600x600mm

Double-Drive Gantry 800x800mm

Features

- · The frame uses marble structure with excellent rigidity and strength; The beam structure gets light-duty design with excellent acceleration performance to achieve the precise motion after CNC milling.
- · Fixed with THK (Japan) precise linear guide with high positioning accuracy and less wearing to get stable precision and easy maintenance in a long term.
- · AheadTechs CNC system based on EtherCAT to boost the flexibility and expanding, which makes smart factory and machine interconnection possible.
- · Supports multiple modes of axis pitch compensation to ensure the machining accuracy of the machine tool.
- · Support parts processing statistics and production quantity management.

EMP SERIES



High Precision Micro Laser Tube Cutting Station—Linear Motor Driven

Power Rating

≤2KW

Marble base and THK linear guide rail ensure a stable and reliable platform.

High-performance DDL motor drive technology ensures good dynamic performance.

With FAGOR grating and fully enclosed loop control.

Applicable to carbon steel, stainless steel, copper, Ni-Ti and other metals.

±10 um kerf width.



with a heat-resistant and fully enclosed shield, fitting laser processing applications

customized laser cutting head from RayTools for precision tubes

laser tube cutting specialized bus system from AheadTechs of America



Item	Specification
Power Rating	≤2000W
Round Tube	1~10mm dia. ((customizable chuck)
Length Range	≤6500mm
Positioning Accuracy	±4um
Re-Positioning Accuracy	±2um

Item	Specifications
Processing Speed	≤800mm/s
Processing Acceleration	≤0.8g
Platform Size	1360X1200X1780mm
Weight	1000kg

OLE SERIES



Robotics Laser Cutting Kit

Power Rating

1~6KW

World leading core components like IPG fiber laser, Fanuc robot and Raytools cutting head.

6 Axis robot cutting with easy access to complicated 3D metal parts.

Compact size to decline floor inhabitation.



Flexible options of laser power from 1KW to 6KW.

Offline robot CAM software optional to simplify application to various 3D workpieces.

Applicable to 3D or 2D metal cutting with flexible option in profile shapes and processing paths

Item	Specification
Fiber Laser	IPG/Raycus (others optional)
Laser Power	1KW/1.5KW/2KW/3KW/4KW/6KW
Robot	Fanuc
Working Radiu	1811~1813mm

Item	Specifications
Payload	20kg (others optional)
Axles	6
Repeatability	± 0.05~ ± 0.08mm
Wavelength	1080nm± 5

OLE SERIES

Robotics Laser Cutting Kit Pro

Power Rating

1~4KW



World leading core components like IPG fiber laser, Fanuc robot and Raytools cutting head.

6 Axis robot cutting with easy access to complicated 3D metal parts.

Compact size to decline floor inhabitation.



Flexible options of laser power from 1KW to 4KW.

Offline robot CAM software optional to simplify application to various 3D workpieces.

Additional programmable A/B axis to handle small contour cutting @ min. dia.

Technical Data

Item	Specification
Fiber Laser	IPG/Raycus (others optional)
Laser Power	1KW/1.5KW/2KW/3KW/4KW
Robot	Fanuc
Working Radiu	1813mm
Payload	35kg
Axles	6
Min.Cutting Diameter	1mm(accuracy±0.1)

Item	Specifications
Repeatability	± 0.05~ ± 0.08mm
Wavelength	1080nm± 5
Cutting Head	Raytools GF101 + GF102
Operating Temperature	10-40°C
Power Supply	220V/Single Phase/50 or 60Hz;
	380V/3-Phase/50 or 60Hz
Cooling	Water cooling

OLE SERIES

Robotics Laser Welding Kit

Power Rating

1~20KW



World leading core components like IPG fiber laser, Fanuc robot and Raytools cutting head.

6 Axis robot cutting with easy access to complicated 3D metal parts.

Compact size to decline floor inhabitation.



Flexible options of laser type (fiber/diode/blue laser) and power from 1KW to 20KW

Offline robot CAM software optional to simplify application to various 3D workpieces.

Applicable to metal welding with flexible option in profile shapes and processing paths.

Technical Data

Item	Specification
Fiber Laser	IPG/Raycus (others optional)
Laser Power	1KW~20KW
Robot	Fanuc
Working Radiu	1811~1813mm
Payload	20kg(other optional)
Axles	6
Repeatability	± 0.05~ ± 0.08mm

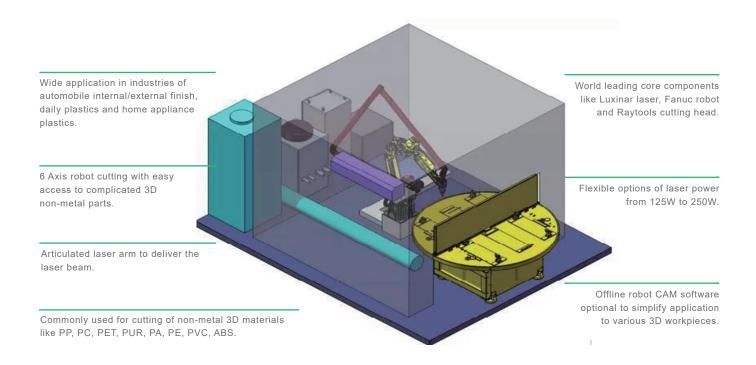
Item	Specifications
Wavelength	Fiber 1064nm/
	Diode 915nm/
	Blue 450nm
Cutting Head	Raytools GF101 + GF102
Operating Temperature	10-40°C
Power Supply	220V/Single Phase/50 or 60Hz;
	380V/3-Phase/50 or 60Hz
Cooling	Water cooling

LaserRobot



CO2 Laser Cutting Cell

Power Rating 125/175/250W



Technical Data

Item	Specification
CO2 Laser	Luxinar (UK)/Others optional
Laser Power	125W/175W/250W
Robot	Fanuc
Working Range	2000x1400x1400mm (others optional)
Payload	20kg
Axles	6

Item	Specifications
Repeatability	± 0.05- ± 0.08mm
Wavelength	10600nm
Cutting Head	Raytools AK230
Articulated Laser Arm	Raytools ARM200
Power Supply	380V/50Hz/60Hz/3-phase
	(Others optional)
Cooling	Water cooling

RayEdge-1000



4-in-1 Handheld Laser Welding Machine

Power Rating

1KW

Compact integrated design with easy operation.

Wobble welding to improve welding capacity to seam.

Wire feeder included to expand application range.

Multiple safety protection with auto beam off function once the nozzle goes away from workpiece.



"4-in-1 function" (Weld/Cut/WeldSeam Clean/Remote Clean). Quick-change structure of tip assembly from laser processing head.



Technical Data

Item	Specification
Laser	Maxphotonics/Raycus
Laser Power	1000w
Laser Wavelength	1080nm
Fiber Length	10m
Fiber Core	25um/50um
Welding Speed	0-20mm/s
Welding Style	Wobble (single axis)
Wobbling Range	0-5mm (Weld)/0-10mm (WeldSeam
	Clean)/0-80mm (Remote Clean)
Welding Seam Width	Max. 5mm
Welding Thickness	Max. 2mm (SS, MS and 5 series AL)
	based on 1000W laser
Cooling	Water Cooling
Cover Glass	Ф20mm*3mm
Collimation Length	60mm

Item	Specifications
Focus Length	150mm
Power Supply	220V/Single Phase/50 or 60Hz
Overall Dimension	910x490x800mm
Transportation Dimension	1050x600x850mm
Weight	~120kg
Transportation Weight	~150kg
Wire Feeder	Included
Wire Diameter	0.8/1.0/1.2/1.6mm
Feeding Speed	0.1-18m/min
Wire Material	SS/AL Magnesium/Copper
Overall Dimension	440x250x580mm
Transportation Dimension	470×310x620mm
Weight	14kg
Transportation Weight	~ 15kg
Specifications subject to change without not	ine

RayEdge-1500



4-in-1 Handheld Laser Welding Machine

Power Rating

1.5KW

Compact integrated design with easy operation.

Wobble welding to improve welding capacity to seam.

Wire feeder included to expand application range.

Multiple safety protection with auto beam off function once the nozzle goes away from workpiece.



"4-in-1 function"
(Weld/Cut/WeldSeam Clean/Remote Clean). Quick-change structure of tip assembly from laser processing head.



Technical Data

Item	Specification
Laser	Maxphotonics/Raycus
Laser Power	1500w
Laser Wavelength	1080nm
Fiber Length	10m
Fiber Core	50um
Welding Speed	0-20mm/s
Welding Style	Wobble (single axis)
Wobbling Range	0-5mm (Weld)/0-10mm (WeldSeam
	Clean)/0-80mm (Remote Clean)
Welding Seam Width	Max. 5mm
Welding Thickness	Max. 3mm (SS, MS and 5 series AL)
	based on 1500W laser
Cooling	Water Cooling
Cover Glass	Ф20mm*3mm
Collimation Length	60mm

Item	Specifications
Focus Length	150mm
Power Supply	220V/Single Phase/50 or 60Hz
Overall Dimension	910x490x800mm
Transportation Dimension	1050x600x850mm
Weight	~125kg
Transportation Weight	~155kg
Wire Feeder	Included
Wire Diameter	0.8/1.0/1.2/1.6mm
Feeding Speed	0.1-18m/min
Wire Material	SS/AL Magnesium/Copper
Overall Dimension	440x250x580mm
Transportation Dimension	470×310x620mm
Weight	14kg
Transportation Weight	~ 15kg
0	

OLE-HW2000 SERIES



4-in-1 Handheld Laser Welding Machine

Power Rating

2KW

Compact integrated design with easy operation.

Wobble welding to improve welding capacity to seam.

Wire feeder included to expand application range.

Multiple safety protection with auto beam off function once the nozzle goes away from workpiece.



"4-in-1 function"
(Weld/Cut/WeldSeam Clean/Remote Clean). Quick-change structure of tip assembly from laser processing head.



Technical Data

Item	Specification
Laser	Maxphotonics/Raycus
Laser Power	2000W
Laser Wavelength	1080nm
Fiber Length	10m
Fiber Core	50um
Welding Speed	0-20mm/s
Welding Style	Wobble (single axis)
Wobbling Range	0-5mm (Weld)/0-10mm (WeldSeam
	Clean)/0-80mm (Remote Clean)
Welding Seam Width	5mm
Welding Thickness	Max. 4mm (SS, MS and 5 series AL)
	based on 2000W laser
Cooling	Water Cooling
Cover Glass	Ф20mm*3mm

Item	Specifications
Collimation Length	60mm
Focus Length	150mm
Power Supply	380V/3-Phase/50 or 60Hz
Overall Dimension	1053x800x1225mm (LxWxH)
Weight	~280kg
Wire Feeder	Included
Wire Diameter	0.8/1.0/1.2/1.6mm
Feeding Speed	0.1-18m/min
Wire Material	SS/AL Magnesium/Copper
Overall Dimension	440x250x580mm
Transportation Dimension	470×310x620mm
Weight	14kg
Transportation Weight	~ 15kg

OLE-W5030 SERIES



Laser Welding Machine

Power Rating

1/1.5/2/3 KW

Compatible to teaching, graphics import and draw.

Rich process handling, PSO, power ascent & descent and preheating processing.

Flexible extending, twin-workstation, exchange table or 4-workstation rotation, etc.



Flexible combination of laser, welding head and working size in accordance with exact application.

Wide range application such as R&D, sample welding, small-scaled production and

Technical Data

Item	Specification
Working Area (mm)	500x300x300 (Cantilever type)
Positioning Accuracy (mm)	±0.02
Repeat Positioning Accuracy	(mm) ±0.01
Welding Motion Controller	Raytools
Welding Speed (mm/s)	30-100
Servo& Drive	AheadTechs
Display	19" LED
Power Consumption (kw)	4~11
Welding Head	BW210/BW240/BF320/BF330M

Item	Specification
Laser	IPG/Maxphotonics/Raycus
Laser Power (W)	1000/1500/2000/3000
Chiller	S & A
Ambient Temperatu	rre (°C) 0~40
Ambient Humidity	(%) <70
Power Supply	AC 380V±10%, 50Hz/60Hz, 3-Phase
Overall Size (mm)	1000*950*1500 (W*D*H)
Weight (kg)	~220
Optional	Dust Collector
Optional	Wire Feeding

OLE-W5050 SERIES



Laser Welding Machine

Power Rating

1/1.5/2/3 KW

Compatible to teaching, graphics import and draw.

Rich process handling, PSO, power ascent & descent and preheating processing.

Flexible extending, twin-workstation, exchange table or 4-workstation rotation, etc.



Flexible combination of laser, welding head and working size in accordance with exact application.

> Wide range application such as R&D, sample welding, small-scaled production and

Item	Specification
Working Area (mm)	500x500x400 (Gantry type)
Positioning Accuracy (mm)	±0.02
Repeat Positioning Accuracy	(mm) ±0.01
Welding Motion Controller	Raytools
Welding Speed (mm/s)	30-100
Servo& Drive	AheadTechs
Display	19" LED
Power Consumption (kw)	4~11
Welding Head	BW210/BW240/BF320/BF330M

Specifications	subject	to	change	without	notice.

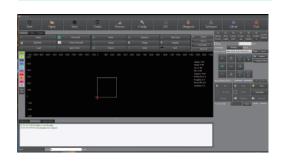
Item	Specification
Laser	IPG/Maxphotonics/Raycus
Laser Power (W)	1000/1500/2000/3000
Chiller	S & A
Ambient Temperatu	rre (°C) 0~40
Ambient Humidity	(%) <70
Power Supply	AC 380V±10%, 50Hz/60Hz, 3-Phase
Overall Size (mm)	1000*1300*1850 (W*D*H)
Weight (kg)	~250
Optional	Dust Collector
Optional	Wire Feeding

XW-100 SERIES





Main Interface

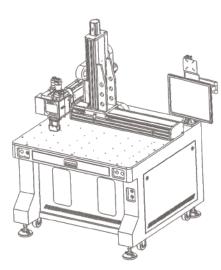


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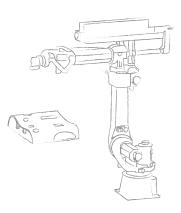


Settings





application for welding platform or robot welding.



application for multi-axis motion welding or robot welding.

Process Feature

- adjustment of laser power ascent and descent, optimized start and end technique
 - power curve adjustable and corner treatment
 - with unique PSO function, uniform distribution of energy in welding process, and good welding consistency.
- able to control multiple types of galvo
- laser welding heads and laser spot.

Control Feature

- both EtherCAT serial bus servo and pulse controlled servo applicable.
- multi-axis motion and multi-position
- with processing modes like teaching mode of hand-wheel and interface, and image inputting
- checking the alarm information online and looking up the corresponding solution at once.
 - with intuitive monitoring interface, - flexible configurations for user defined input and output

Welding Heads Applicable



3KW

4KW

2KW/6KW

RAYTOOLS PL5050 SERIES



New Energy Welding Platform

Processing Range 500*500*200mm

Marble base +THK linear guide rail ensure a stable and reliable platform. High-performance DDL motor drive technology ensures good dynamic performance.

With Renishaw grating and fully enclosed loop control.

with a heat-resistant and fully enclosed shield, fitting laser processing applications.

laser welding specialized bus control system from AheadTechs of America.

customizable maximum speed and acceleration.

flexible configurations for user defined input and output

- adjustment of laser power ascent and descent, optimized start and end technique

> power curve adjustable and corner treatment

with unique PSO function, uniform distribution of energy in welding process, and good welding consistency.

with processing modes like teaching mode of hand-wheel and interface, and image inputting

checking the alarm information online and looking up the corresponding solution directly.

with intuitive monitoring interface, easy to monitor signals.

Item	Specification
Welding Head	User defined
Platform Processing Range	500X500X200mm
Positioning Accuracy	±4um
Re-positioning Accuracy	±2um

Item	Specifications
Processing Speed	≤1000mm/s
Running Acceleration	< 5g (customizable)
Platform Size	1200X1200X1900mm
Weight	1000kg

EMP-MLP SERIES



Multifunctional Laser Processing Module

Power Rating

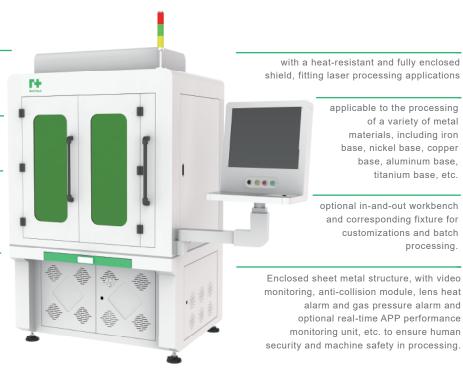
1-6KW

Applicable to the CNC system independently developed by RayTools and able to meet the needs of certain functions and customized interfaces.

Cost effective for providing high precision servo or marble linear motor motion unit according to application requirements

a wide range of appplications based on optional AB axis motion units to enable a variety of motion tracks in processing, including lines, circles, curves, surfaces and five axes

equipped with multi-functional laser processing head independently developed by Empower, fast switching among laser welding, cladding and hardening with different power rating without replacing light source and optical device, perfect for initial processing tests and scientific researches.



Item	Specification
Function	Fast switching between laser welding,
	cladding and hardening
Laser	Fiber/Diode
Power Rating	1-6KW (customizable for higher power
	rating)
Laser Wavelength	900-1100nm
Positioning Accuracy	±0.1mm
Re-positioning Accuracy	±0.05mm
Processing Speed	≤200mm/s
Processing Range	600*400*300mm(customizable)
Powder	3-way, 4-way, annular, high-speed, wide
Feeding Nozzle	band, inner hole nozzle optional

Item	Specification
Hardening Size	5*5/10*2/15*2/20*4mm (customizable)
Focal Spot (for welding	manual adjustment available;
and cladding)	adjustable range customizable
Two-axis Turntable	Configurable
Inert Gas Chamber	Configurable
Safety Monitoring	Processing monitoring camera, safety door
Module	alarm, processing head anti-collision
	module - configurable
Real-time Process	Modules include infrared temperature
Monitoring Module	measurement, closed-loop temperature
	control, high-speed camera, configurable

EMP-PF-2-1 SERIES



Powder Feeder

Power Rating 1KW

Adjustable Powder Feeding Speed

The powder will be transported to the processing area by gas. Adjust the powder feeding speed by adjusting the rotary speed and the powder plate size.

High Accuracy of Powder Feeding

The powder feeder is independent and controllable. With double-way of powder feeding and the high precision servo motor, it has high precision powder feeding.



Customizable Interface

The interface can be customized according to customer's requirements.

High Stability

With internal control and external control of two operating modes and pressure alarm function, mostly meet the needs of processing stability.

Technical Data

Power Rate	≤1000W
Powder Feeding Funnel	two-way, independent and
	controllable PLC
Dimension	600X500X1450mm
Input	220VAC, 50HZ

Powder Size	20-200μ
Feeding Plate Speed	0-20 rpm CV
Send Powder Repeat Precision	<±2%
Gas Supply	Nitrogen/Argon



Europe

RayTools AG.

- Friedeggstrasse 13,Postfach,3400 Burgdorf,Switzerland
- www.raytools.ch

North/South America

RayTools Inc.

- **♀** 10Wedge Pond Road,Winchester MA 01890,United States
- ⊕ www.raytools.ch

Asia Pacific/South & Middle Asia/Middle East/Africa

Raytools Automation (Shanghai) Co., Ltd

- **♀** 8 Dongbao Road,Shanghai 201613,China
- www.raytools.ch

China

Shanghai Empower Technologies Co.,Ltd

- **9** 8 Dongbao Road, Shanghai 201613, China
- www.empower.cn