



CORPORATE BROCHURE

FIBER LASER CUTTING/WELDING/CLEANING/AUTOMATION PROFESSIONAL MANUFACTURER

ABOUT US



InterGemm is a leading manufacturer of CNC and LASER equipment based in North Carolina, USA. We offer a wide range of machines for metal work, wood work, and plastic work. Our state-of-the-art equipment includes laser cleaning, cutting, welding, and marking capabilities. Experience precision and efficiency with InterGemm.

We offer a wide range of options to choose from, depending on the specific needs and requirements of customers. Laser cutting machines are highly efficient tools that use a laser beam to cut through various materials with precision and accuracy. Our goal is to provide high-quality machines that are durable and reliable for long-term use. We offer different models and sizes of laser cutting machines to cater to different industries and applications. Whether it is for metal fabrication, signage making, or even wardrobe manufacturing, we can help you out to find a suitable laser cutting machine best for your business.



High power fiber laser cutting machine-SH series

1. Design of heavy-duty plate welding machine tool, with internal reinforcing ribs, high-temperature annealing stress relief, graphite, refractory bricks, and copper protection, ensuring that the machine tool will not deform after 20 years of use
2. The fiber optic cable is located outside the drag chain, and transportation does not require pulling it out of the laser head to avoid risks such as dust contamination of the output head of the fiber optic cable
3. Nozzle cooling system, etc

| Model | Cutting range | Laser output power | Maximum acceleration | Minimum slit width | X/Ypositioning accuracy | Maximum positioning speed |
|-------------|--|------------------------|----------------------|--------------------|-------------------------|---------------------------|
| DPE-SH6025 | 6000x2500mm 8000x2500mm 12000x3000mm | 12000W, 20000W, 30000W | 1.5G | ±0.2mm | ±0.03mm | 160m/min |
| DPE-SH8025 | | | | | | |
| DPE-SH12030 | | | | | | |





| Model | Cutting range | Laser output power | Maximum acceleration | Minimum slit width | X/Y positioning accuracy | Maximum positioning speed |
|-----------|---------------|----------------------|----------------------|--------------------|--------------------------|---------------------------|
| DPE-A3015 | 3000*1500mm | 6000W, 8000W, 10000W | 1.5G | 0.15-0.2mm | ±0.03mm | 140m/min |
| DPE-A4020 | 4000x2000mm | | | | | |
| DPE-A6020 | 6000x2000mm | | | | | |
| DPE-A6025 | 6000x2500mm | | | | | |
| DPE-A8025 | 8000x2500mm | | | | | |

Middle power fiber laser cutting machine

- High-performance, optical fiber transmission, flexible processing, high-quality cutting of any shape, and suitable for cutting high reflective materials such as copper and aluminum;
- High efficiency, fast cutting speed, low operating cost, double return on your investment;
- Low gas consumption, laser generation requires no gas generation;
- Low energy consumption, energy saving and environmental protection, low power consumption;
- Low maintenance, no reflection lens, no need to adjust the light path, basic maintenance free.
- The entire machine is surrounded by designs to reduce laser radiation;
- High and low double table, saving loading and unloading time.





Overseas version design

This device is designed specifically for overseas markets, with a width less than 2280mm and can be loaded into a container width, saving packaging and transportation costs



| Model | Cutting range | Laser output power | Maximum acceleration | Minimum slit width | X/Ypositioning accuracy | Maximum positioning speed |
|--|---|-----------------------------|----------------------|--------------------|-------------------------|---------------------------|
| DPE-FT3015 DPE-FT4015 DPE-FT6015 | 3000x1500mm 4000x1500mm 6000x1500mm | 1500W,2000W, 3000W,6000W | 1G | 0.2mm | ±0.03mm | 100m/min |





| Model | Cutting range | Laser output power | Maximum acceleration | Minimum slit width | X/Ypositioning accuracy | Maximum positioning speed |
|-----------|---------------|----------------------------|----------------------|--------------------|-------------------------|---------------------------|
| DPE-T6012 | 6000x120mm | 1500W/2000W 3000W/6000W | 1.2G | 0.15-0.2mm | ±0.03mm | 120m/min |
| DPE-T6016 | 6000x160mm | | | | | |
| DPE-T6022 | 6000x220mm | | | | | |
| DPE-T6035 | 6000x350mm | | | | | |
| DPE-T6040 | 6000x400mm | | | | | |
| DPE-T6052 | 6000x520mm | | | | | |

Fiber professional laser pipe cutting machine

T6020 laser cutting machine can quickly cut rectangular tubes, square tubes, oval tubes, round tubes and shaped tubes, and angle steel, channel

steel and other profiles, With high speed, high precision, cost-effective features.

- Horizontal structure, stable operation, high precision;
- Intelligent cutting software, intelligent cutting;
- Imported servo motor to improve the cutting speed of the whole machine;
- Configure automatic feeding and remnant material systems for mass production.
- The machine is highly integrated, with good system performance and long life, automatic lubrication;
- Highly automated, strong anti-interference ability, fast dynamic response;
- Centralized operation, flexible processing, automatic feeding, pneumatic chuck clamping convenient and fast;
- Simple maintenance and maintenance, basic maintenance-free;
- Use dedicated laser cutting software, with the core technology of efficient cutting, is a fundamental guarantee for effective material savings and improved cutting efficiency.





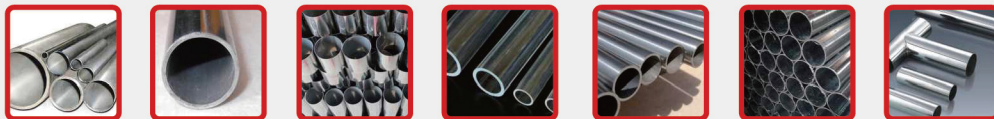
3D laser tube cutting machine with automatic feeding workbench

Automatic feeding suitable for circular pipes $\leq \phi 90\text{mm}$, square tube feeding $\leq 63 * 63\text{mm}$

Square tube circular tube automatic feeding rack: suitable for automatic feeding of round tubes, square tubes, rectangular tubes, and runway tubes (12-87mm) in whole bundles. Simply lift a batch of 6 meters of raw materials into the storage rack to achieve: automatic loading \rightarrow automatic feeding \rightarrow automatic cutting \rightarrow automatic blanking, the entire process flow

| Model | Cutting range | Maximum acceleration | Minimum slit width | X/Ypositioning accuracy | Maximum positioning speed |
|-----------|---------------|----------------------|--------------------|-------------------------|---------------------------|
| DPE-D6090 | 6000x90mm | 1.2G | 0.2mm | $\pm 0.03\text{mm}$ | 120m/min |

Sample display

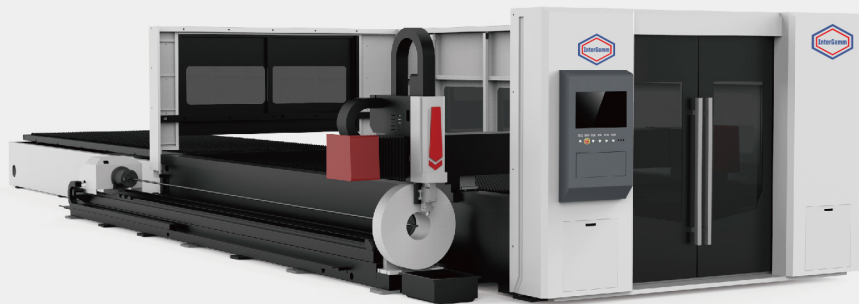
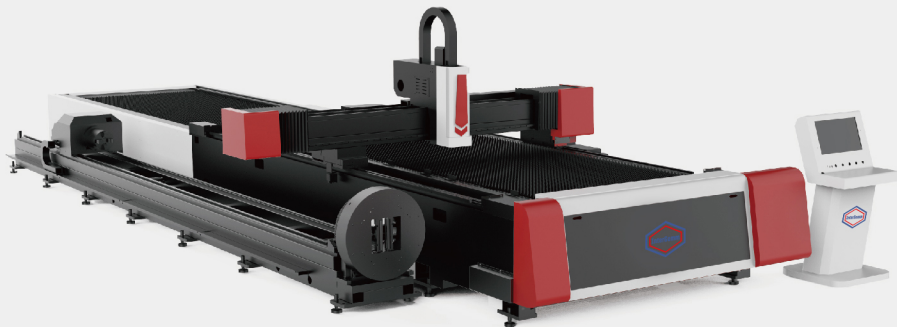




| Model | Cutting range | Laser output power | Maximum acceleration | Minimum slit width | X/Ypositioning accuracy | Maximum positioning speed |
|------------|---------------|----------------------------|----------------------|--------------------|-------------------------|---------------------------|
| DPE-PT3015 | 3000*1500mm | 1500W/2000W 3000W/6000W | 1.2G | 0.15-0.2mm | ±0.03mm | 120m/min |
| DPE-PT4020 | 4000*2000mm | | | | | |
| DPE-PT6020 | 6000*2000mm | | | | | |
| DPE-PT6025 | 6000*2500mm | | | | | |
| DPE-PT8025 | 8000*2500mm | | | | | |

Plate and Tube fiber laser cutting machine

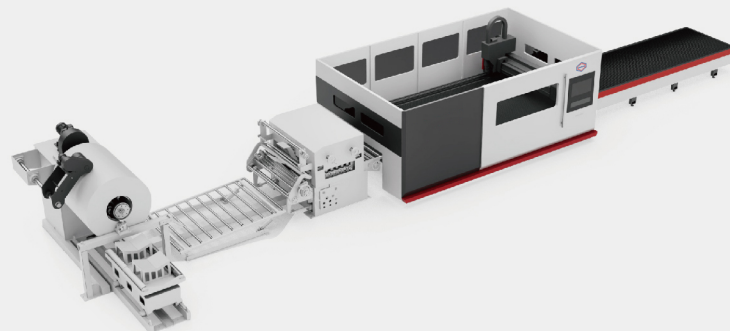
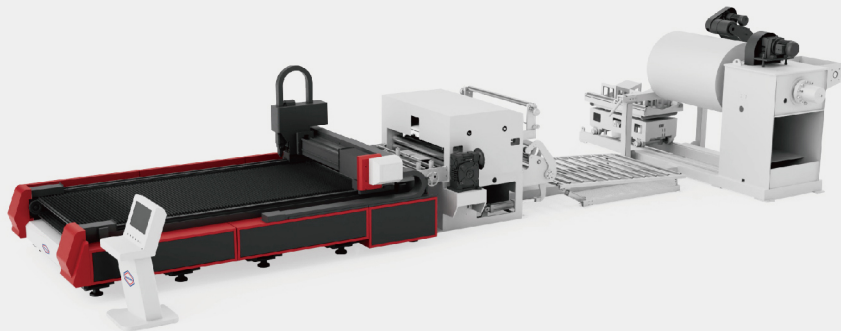
Tube Processing Range(LengthXDiameter) 6000mmx20-220mm





Rolled coil-fed fiber laser cutting machine

| Model | Cutting area | Laser output power | Maximum acceleration | Minimum slit width | X/Ypositioning accuracy | Maximum positioning speed |
|------------|--------------|--------------------|----------------------|--------------------|-------------------------|---------------------------|
| DPE-JL3016 | 3000x1600mm | 1500W/2000W/3000W | 1.2G | 0.15-0.2mm | ±0.03mm | 120m/min |





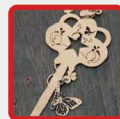
| Model | Cutting range | Laser output power | Maximum acceleration | Minimum slit width | X/Ypositioning accuracy | Maximum positioning speed |
|----------|---------------|----------------------------|----------------------|--------------------|-------------------------|---------------------------|
| DPE-6040 | 600x400mm | 1000W/1500W 2000W/3000W | 1.2G | 0.15-0.2mm | ±0.03mm | 120m/min |
| DPE-6060 | 600x600mm | | | | | |
| DPE-6090 | 600x900mm | | | | | |

linear precision laser cutting machine

Adopt gantry type structure, linear motor, guide rails adopt fully enclosed protection, reduce dust pollution; Double-side drive with linear motor, high precision, high acceleration, fast speed;
Laser processing is a non-contact flexible processing, not affected by the shape of the workpiece, can process arbitrary graphics;
Dedicated laser control system, powerful, quick to master, low entry to technical personnel.
Can cut a variety of metal foil, mainly used for silver foil, copper foil;
Mainly used in jewelry, glasses and other industries.



Sample display





HANDHELD FIBER LASER WELDING MACHINE

Dapeng Customized Cabinet, Unique
Hanli, S&A, Bingyue, Quanyuan, and other cabinets are optional
Qilin/Chaoqiang/Raytool/WSX/Hanwei/Ospri welding system optional
Supports customized colors and OEM solutions



Equipment model

DP-HL-1000/1500/2000/3000

Laser power

1000W/1500W/2000W/3000W

Laser source

Raycus/MAX/IPG

Electric Power

Less than 10KW

Cooling mode

Water Cooling

Laser wavelength

1064~1070NM

Laser wavelength

0-60HZ

Voltage

220V 50HZ 60HZ

Pulse width

0.1-20ms

Adjusted spot range

0.1~5MM

Optical Fiber

50um,10M

Continuous Working Time

24 hours

Collimation Length

F=50mm



▲ AIR COOLING



▲ S&A SERIES



▲ HANLI SEREIS



▲ BINGYUE SEREIS



FIBER LASER CLEANING MACHINE

INDEPENDENTLY DEVELOPED DUAL PENDULUM CLEANING SYSTEM

1. Support 6 function outputs, select corresponding modes for different cleaning workpieces, improve cleaning efficiency and quality
2. Lighter shampoo design, in line with ergonomics, ensures long-lasting work without fatigue and facilitates mobile work



| | | |
|-------------------------------|-------------------------------------|----------------------|
| Max average power(W) | 100 | 200 |
| Output central wavelength(nm) | 1064±5 | 1064±5 |
| Beam quality(M2) | <1.6 | ≤1.8 |
| Power adjustment range(%) | 10-100 | 10-100 |
| Output power instability(%) | ≤5 | ≤5 |
| Pulse repetition rate(kHz) | 20-400 | 20-2000 |
| Pulse length(ns) | 10/20/30/60/100/200/250/350 Optiona | 10/30/60/240 Optiona |
| Max pulse energy(mJ) | 1 | 1 |
| Fibre length(m) | 3 | 3/5 |
| Laser safety classification | 4 | 4 |
| cooling method | Air-cooled | Air-cooled |



50W/100W/200W 300W/500W/1000W

- 1.Backpack type,trolley case type,mobie type,etc
- 2.Ergonomic design,long-term work without fatigue and high efficiency



Laser wavelength (nm)

1060-1070

Max. output power (W)

100±1

Pulse repetition rate (kHz)

20-200

Power regulation range (%)

10-100

Max. pulse energy (mJ)

1.6

Output power instability (%)

≤5

Pulse duration (ns)

170±1@65kHz

Fiber length(m)

3

IPG FIBER LASER SOURCE



Models:

YLR-1500,YLR-2000,YLR-3000,YLR-6000, YLS-12000,YLS-20000

Output Power:

1500W/2000W/3000W/6000W/12000W/20000W

Wavelength, nm:

1070±5

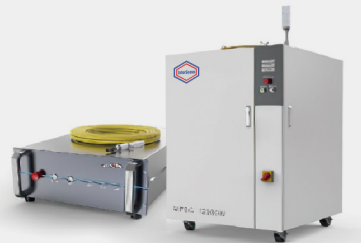
Mode of Operation:

CW/Modulated

Used:

For Laser Cutting/Welding

MAX FIBER LASER SOURCE



Models:

MFSC-1500,MFSC-2000,MFSC-3000,MFSC-6000,MFSC-12000,MFSC-20000

Output Power:

1500W/2000W/3000W/6000W/12000W/20000W

Wavelength, nm:

1080±10

Mode of Operation:

CW/Modulated

Used:

For Laser Cutting/Welding

RAYCUS FIBER LASER SOURCE



Models:

RFL-C1500,RFL-C2000,RFL-C3000,RFL-C6000,RFL-C12000,RFL-C20000

Output Power:

1500W/2000W/3000W/6000W/12000W/20000W

Wavelength, nm:

1080±10

Mode of Operation:

CW/Modulated

Used:

For Laser Cutting/Welding



Precitec

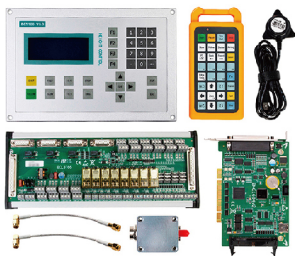
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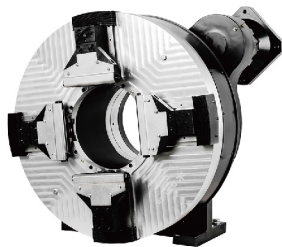
Raytools

Ospri





▼ **FSCUT2000C**



▼ **DAIRUIKE CHUCK**



▼ **HANLI CHILLER**



▼ **YASKAWA SERVO**



▀ Nozzle



▀ Ceramic Ring



▀ Precitec
Protection
Lens



▀ Precitec
Collimating



▀ Precitec
Focusing
Lens



▀ Raytools
Nozzle



▀ Raytools
Protection
Lens



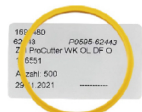
▀ Raytools
Ceramic
Ring



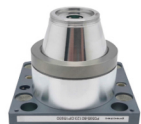
▀ Raytools
Collimating
Lens



▀ Raytools
Focusing
Lens



▀ Precitec
Sealing
Ring



▀ Precitec
Sensor
Head



▀ Precitec
RF
Cable



▀ Precitec
QBH
Connector



▀ Precitec
Ceramic
Ring



▀ Raytools
Sealing
Ring



▀ Raytools
Sensor
Head



▀ Raytools
RF
Cable



▀ Raytools
QBH
Connector



▀ Amplifier



■ SUP21S



■ SUP23T



■ BWT20



■ SUP20T



***FOCUS ON FIBER LASER CUTTING/WELDING/CLEANING/AUTOMATION
PROVIDE ONE STOP SOLUTION***

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Feel free to contact us with any questions or concerns. You can use the form on our website or email us directly. We appreciate your interest and look forward to hearing from you.