



Temperature indicator

display screen

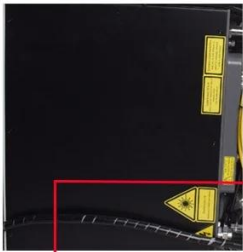
power

stop switch



handle held Cleaning gun

water filling port



laser source



water chiller

wheel

optical fiber tube & cooling tube

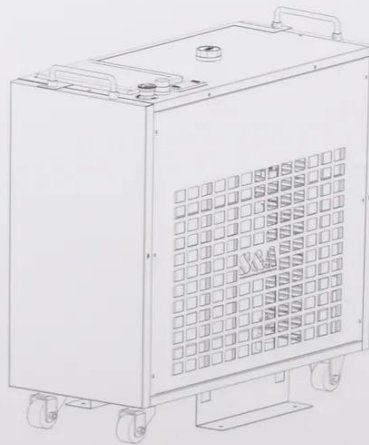


**1500W
MINI
HANDHELD
LASER Cleaning**

CE

**Laser Cleaning
Machine**

**LASER
CLEANING**



warning

1. Do not use the machine without coolant.
2. Make sure to wear laser safety glasses during the operation of the product. It is strictly prohibited to watch the output beam directly when the laser is powered on.
3. Ensure reliable grounding before using the laser.
4. When the ambient temperature of the equipment is -10°C -15°C , the ethanol solution with a volume ratio of 20% must be used and replaced every two months, but the machine is not allowed to be used when the ambient temperature is lower than -10°C .

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BWT Laser Source



BFL-CW1500

- High system stability
- High power stability
- Good beam quality, precision machining
- Continuous and modulated pulse modes, High quality processing



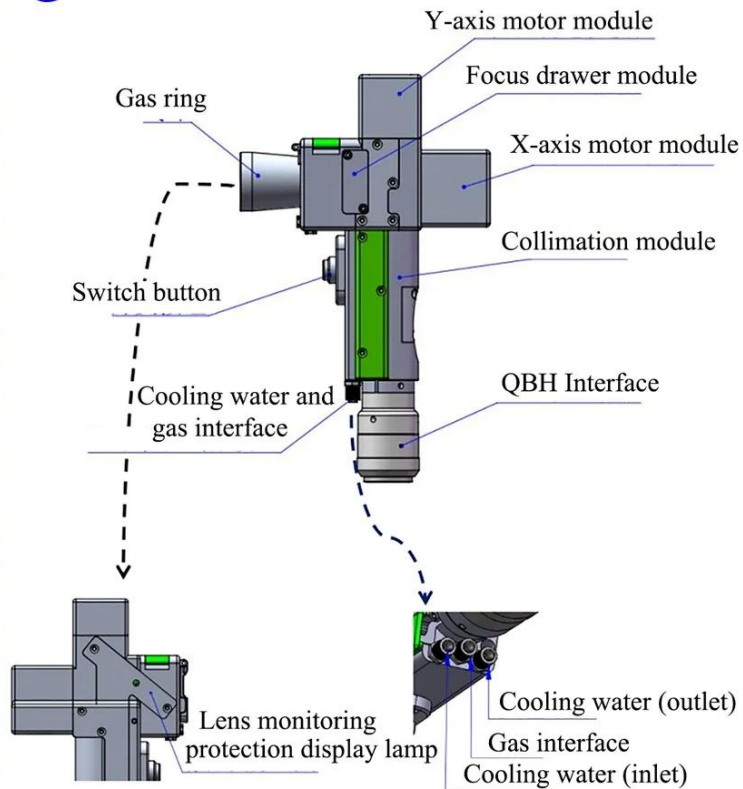
S&A Water Chiller

- The temperature stability can be up to $\pm 0.3^{\circ}\text{C}$.
- Long lifespan, working 24 hours
- High efficiency and low maintenance
- High cooling rate
- Stable working performance



CWFL-1500ANW08

Double Pendulum Handheld Cleaning Head



6 cleaning modes

- The double wobble cleaning head adopts motor-driven X and Y axis lenses with 6 swing modes.
- High precision, cleaning without damaging the substrate
- Maximum cleaning width 300MM
- Faster cleaning speed: 20000mm/s

Intelligent Operation Syetem

Main interface of HMI



- **Fault intelligent system diagnosis**
- **5 major issues: automatic system alarm**
(Gas undervoltage alarm, Cold water flow alarm, Laser alarm, High temperature alarm for protective lenses, Galvanometer malfunction alarm)
- **5 languages setting**

Product parameters

Name	Intelligent Double Pendulum Handheld Cleaning Head
Model	FWH20-DC30A
Fiber interface	QBH
Wavelength scope	1070 $\pm$ 20nm
Rated power	$\leq$ 3000W
Collimation focal length	F50mm
Focus focal length	F800mm
Scanning width	0~300mm
Scanning speed	20000mm/s
Auxiliary pressure	$\geq$ 0.5~0.8Mpa
Effective clear aperture	ϕ 22
Swing type	— ○   
Weight	0.96Kg

Laser Source Parameters	
Power	1500W
Wavelength	1080±10 nm
Output fiber core diameter	20μm、25μm or 50μm
Cable Length	12 m or Customized
Beam Delivery	QBH or Customized
Guide Beam	Red
Operation Mode	Continuous or Modulated
Polarization	Random
(25°C) Power Stability	<±1.5% (2h)
Power Adjustment Scope	10%-100%
Max. Modulation Frequency	5kHz
Weight & Size	
Weight	<26Kg
Outline Feature	80mm*402mm*346mm
Characteristic	
Voltage	220±20V,AC,PE,50/60Hz
Power Consumption	4.5 kW
Control Interface	RS232

