

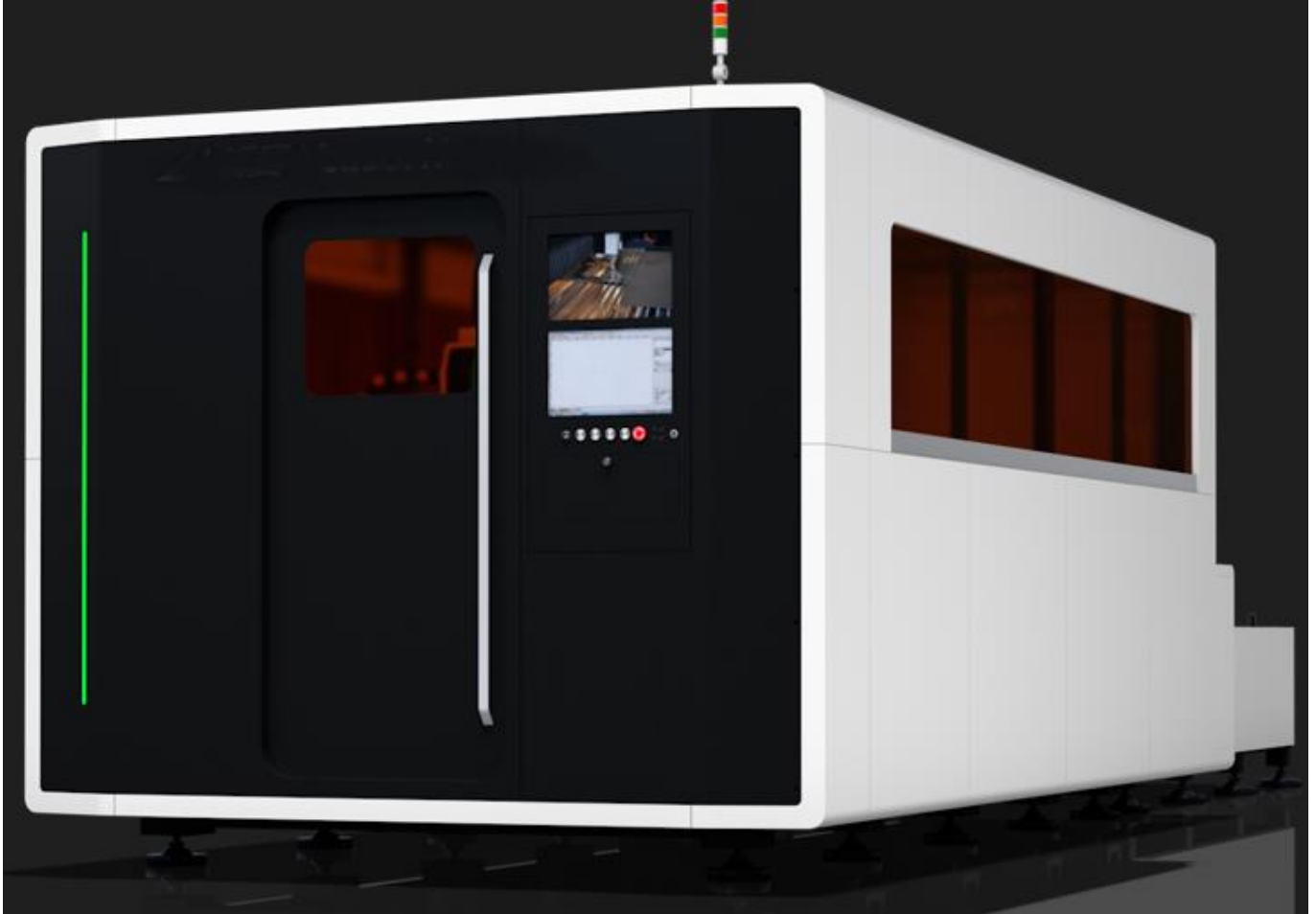
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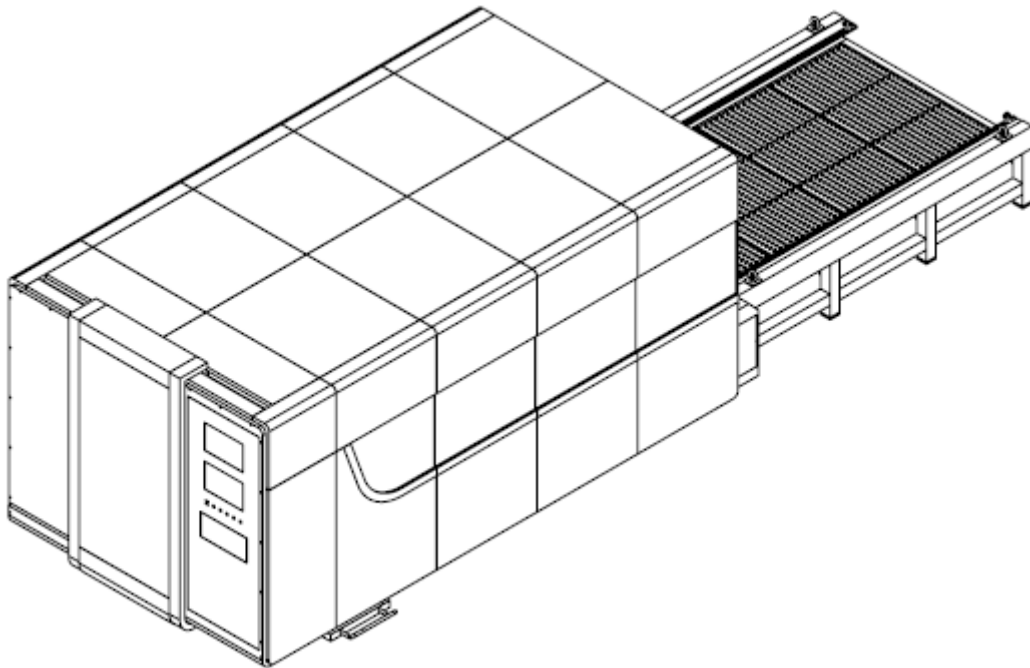
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info:

## Képgyűjtemény

### Fiber lézervágó berendezés

CAXTC\_LM\_3015E\_6kW\_J\_1.0 fiber lézervágó berendezés / Fiber cutting machine





- **Alkalmazási területek / Machine Application**

Widely used in sheetmetal processing, aviation, aerospace, electronics, electrical appliances, automobile, food machinery, textilemachinery, engineering machinery, precision parts, ships, metallurgy equipment, elevators, household appliances, craft gifts, tool processing, decoration, advertising, and other fields. Professional used to cut sheet metal like carbon/mildsteel, stainless steel, aluminum alloy, galvanized sheet, electrolytic plate, titanium alloy, aluminum zinc plate, etc.



- **Lézer rezonátor / JPT 6000 Fiber Laser (6000W)**



Excellent quality of laser beam, constant BP within all the ranges of laser powers, getting very small size laser spot even with longfocus.

- Special wavelength (1080nm), unique ability to cut high-reflective materials, such as aluminum, copper and brass, etc.
- Electro-optical conversion rate of the laser >25%, much more efficient than that of CO2 laser (<10%), greatly reducing power consumption.
- Laser transmission through fiber, no transmission loss.
- Modular design, "plug and play", mini size, easy installation, no maintenance of laser and beam transmission system.
- Pumping source service life > 100,000
- Precise quality of laser beam with pretty small divergence angle.

Parameter	Unit	Specification		
Product Model		JPTCW-3000-MM-K	JPTCW-4000-MM-K	JPTCW-6000-MM-K
Nominal Average Output Power	W	3000	4000	6000
Beam Parameter Product	mm*mrad	≤4.5		
Central Emission Wavelength	nm	1080		
Spectral Width@3db	nm	<6		
Delivery Cable Length	m	15		
Cooling Method		Water Cooling (Purified Water)		
Operating Voltage, Single-phase	V	380(AC)		
Maximum Power Consumption	W	12000	16000	24000
Operation Temperature	°C	10~40		
Storage Temperature	°C	-20~50		
Weight	KG	600		
Size	mm	930*1000*1300		

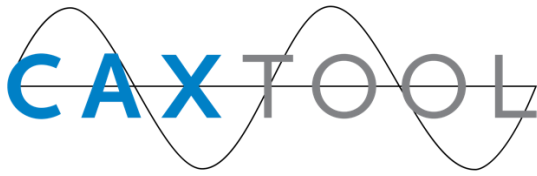
- **Lézerfej / Laser Cutting Head RayTools BM06K autofókusz**

### Raytools BM06K lézerfej



#### **Power rating 6KW; Standard auto focus laser cutting.**

- Cooling structure for both collimation module and focus module, and cooling to nozzle which effectively protects the nozzle & ceramic part and extends the lifespan.
- 4 cover glasses designed to effectively decrease contamination risk during replacement of fiber & cover glass and extend the lifespan of collimation lens and focus lens.
- Auto focus by moving collimation lens to achieve higher speed and bigger auto focus range
- Monitoring to temperature of bottom cover glass could be accessed at mobile APP or computer desktop in real-time. Alarm output for overheating to protect the optical path system effectively.
- Integrated design to ensure sealing. Improved fiber interface (QBH, QD, G5) to benefit their compatibility of lasers and prevent from being stuck for leaks and rusts.



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#### Efficient Cooling

Cooling structure for both collimation module and focus module, and air cooling to nozzle which effectively protects the nozzle & ceramic part and extends the lifespan.

#### Multiple Cover Glasses

4 cover glasses designed to effectively decrease contamination risk during replacement of fiber & cover glass and extend the lifespan of collimation lens and focus lens.

#### Fast Focusing

Auto focus by moving collimation lens to achieve higher speed and bigger auto focus range.



#### Intelligent Monitoring

Monitoring to temperature of bottom cover glass could be accessed at mobile APP or computer desktop in real-time. Alarm output for overheating to protect the optical path system effectively.

#### Optimized Structural Design

Integrated design to ensure sealing. Improved fiber interface(QBH, QD, G5) to benefit their compatibility of lasers and prevent from being stuck for leaks and rusts.

## Technical Data

Fiber Interface	QBH, QD, G5
NA	0.13
Auto Focus	
- Range	-35 ~ +25 mm
- Acceleration	$\leq 10 \text{ m/s}^2$
- Velocity	$\leq 200 \text{ m/min}$
- Accuracy	$\leq 10 \mu\text{m}$
Cover Glasses	
- Collimation Side (Top)	$\Phi 24.9 * 1.5 \text{ mm}$
- Focusing Side (Bottom/Middle)	$\Phi 37 * 7 \text{ mm}$

Collimation Length	100mm
Focus Length	150mm, 200mm
Nozzle Styles	Single, Double, Boost
Diameter of Nozzle Tip	
- Single	1.2-5.0mm
- Double	1.0-1.8mm
- Boost	1.6-7.0mm
Assist Gas Pressure	$\leq 30 \text{ bar}$
Weight	$\sim 7.5 \text{ kg}$

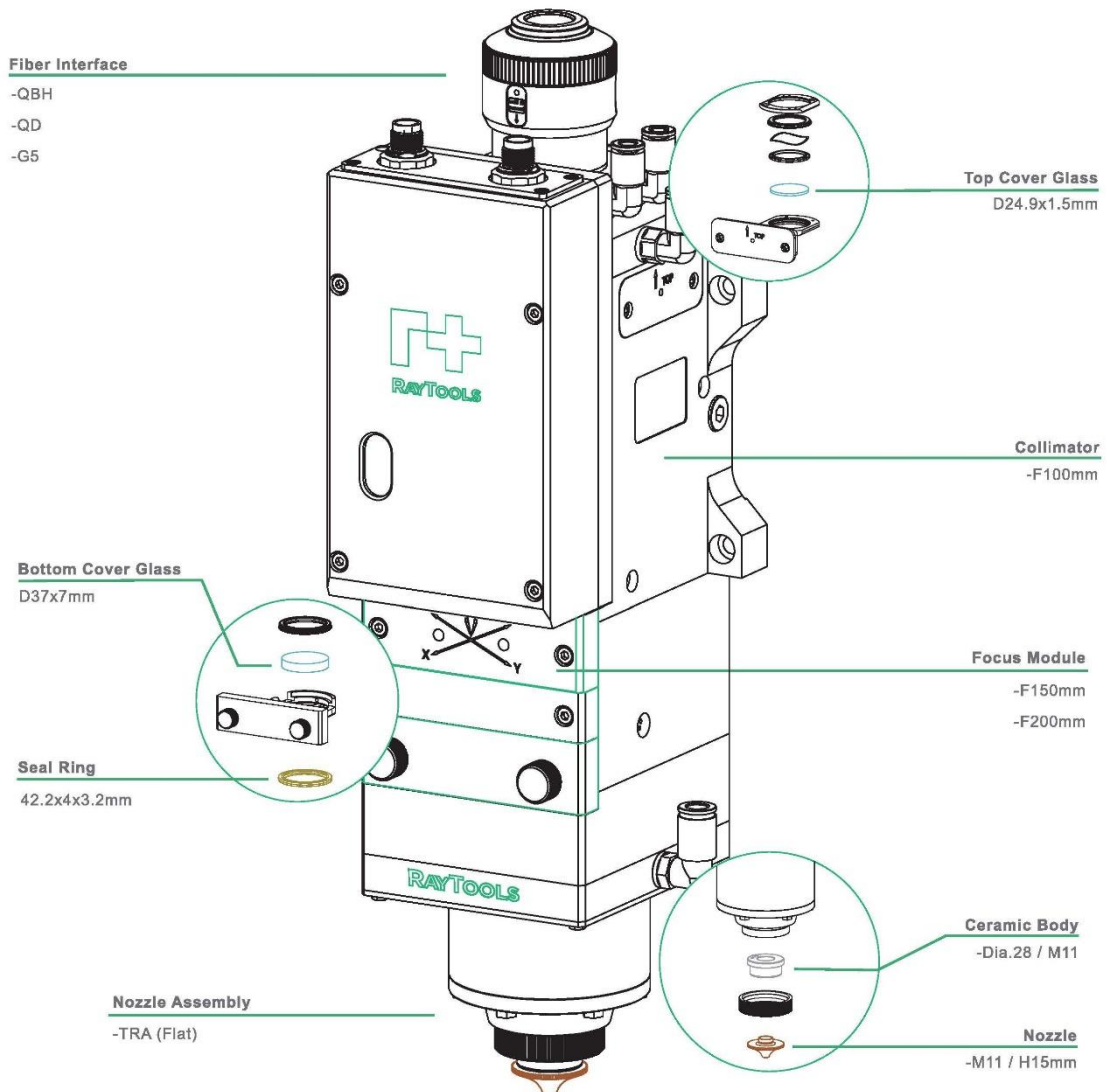
Specifications subject to change without notice.

# RAYTOOLS BM06K SERIES



Auto Focus Laser Cutting Head

Power Rating **6KW**





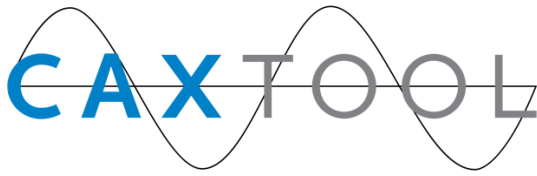
- **Vízűtő / Cooling System S&A CWFL-6000**

Industrial Temperature Control System CWFL-6000 for 6kW High Power Fiber Laser Equipment

**TEYU industrial temperature control system CWFL-6000** is specially designed for fiber laser processes up to 6KW. It comes with a dual refrigeration circuit and each refrigeration circuit is working independently from the other. Thanks to this brilliant circuit design, both the fiber laser and the optics can be perfectly cooled. Therefore, the laser output from the fiber laser processes can be more stable.

Industrial chiller CWFL-6000 has a water temperature control range of 5°C ~35°C and precision of ±1°C. Each of TEYU water chillers is tested under simulated load conditions at the factory before shipment and conforms to CE, RoHS and REACH standards. With Modbus-485 communication function, CWFL-6000 **fiber laser chiller** can easily communicate with the laser system to realize intelligent laser processing.





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- **CNC Control System FSCUT 2000E and Software CypCutE, CypNest**

- **FSCUT 2000E**

- FSCUT2000E medium power laser cutting system is for 1000-4000W power laser cutting scenarios. It is easy to install and debug with excellent performance and complete solution.

- **Technical Data**

- Model FSCUT2000E
- Control card BMC228A
- I/O terminal board BCL4566E
- Motor control signal EtherCAT
- Common Output 24 channels
- Max load of a single channel: DC 24V/700mA
- Software CypCutE
- Interface PCIE bus, X4 and up
- Power Supply 24V DC/2A
- Work Environment Temperature: 0-60°C
- Humidity: 10%-90% RH(no condensation)
- Dedicated Output 2 DA: 0~10V, 12bit, 50mA
- 2 PWM: 5V/24V, 5KHz (0.3%)
- Common Input 27 channels:
- IN1-IN24, active low, 0~15V
- IN25-IN27, active high, 24~8V
- Benefits
- Technique Frame Border Contour: Frame profiled plate
- One-Path FlyCut: Supported for all figures to improve efficiency
- Circle Center: Auto center on circular plate and start cutting
- Pallet Changer: Unloading while cutting, keep safe and efficient
- Path accuracy 0.01mm, positioning accuracy 0.001 mm,
- Control repetitive positioning accuracy 0.002 mm.
- Unlimited cutting/travel speed
- Maximum acceleration 2G

- **Hardware:**

- BCL4566E **BCL4566E terminal board**





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- WKBWireless hand-held remote



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- BMC228A master card bmc228a



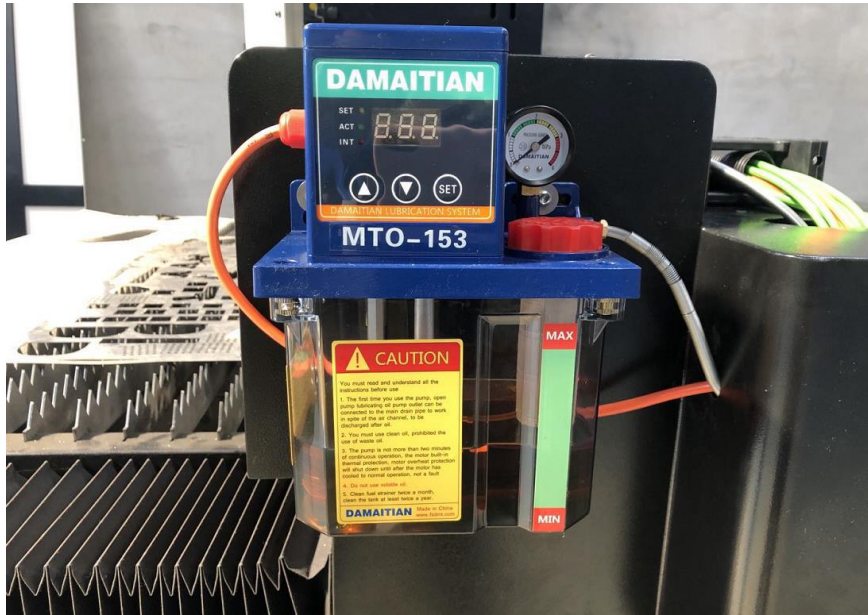
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- **CypNest** is a nesting software designed for CypCut/HypCut sheet laser cutting system. It integrates advanced functions of drawing modification, quick nesting, toolpath generation, analysis report and more to meet your production needs.
- Drawing Modification and ImportIntelligent parts recognition, drawing error identification and optimization. Support file formats of DWG and DXF. Support batch create and import parts via Excel table.

- Nesting Strategy Powerful algorithm engine of high efficiency and production rate; no limit of sheet and parts quantity in nesting; support manual and automatic nesting; support free form sheet nesting.
- Toolpath Optimization Smart toolpath strategy to minimize travel length; smooth operation style for toolpath adjusting; multiple common line options to meet your production needs.
- Production Assist Generate analysis report of production and pricing. Technique and cutting parameter perfectly match with HypCut/CypCut laser cutting software.
- Friendless **CypCutE** 2D cutting software is for medium power EtherCAT cutting system. CypCutE is easy to use, rich in functions, stable and reliable. It has advanced functions such as "Smooth MicroJoint", "Fast Cutting" and "Circle Center" to meet various processing needs.
- **Lineáris rendszer elemei / Transmission System**



Machine is with Taiwan YYC gear rack and PMI linear rail transmission, which ensures machine high speed movement, precision and stability as well.

- **Vezetérendszer kenése / Auto Lubrication**



It automatically lubricates guide rails, which ensures the machine keep moving smoothly and with good precision.

- **Füst elszívó ventilátor / Exhaust System**



A 2.2Kw centrifugal exhaust fan strongly removes the fumes and dusts caused during cutting.

- **Gázvezérlő szelep / Gas Assist Valves (Solenoid Valve, SMC Proportional Valve)**

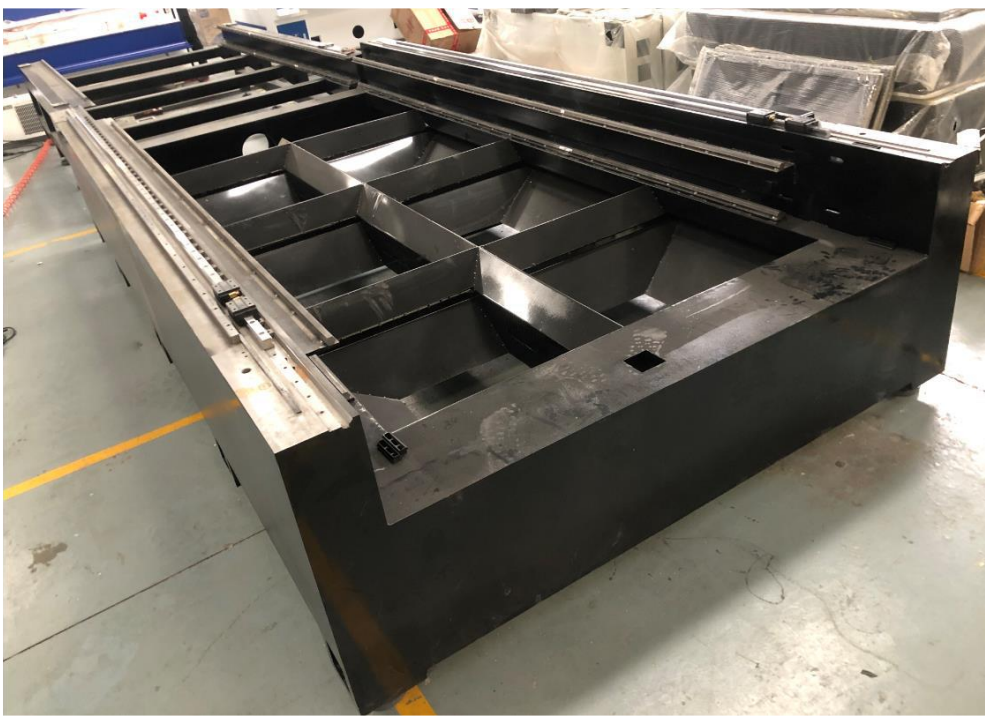


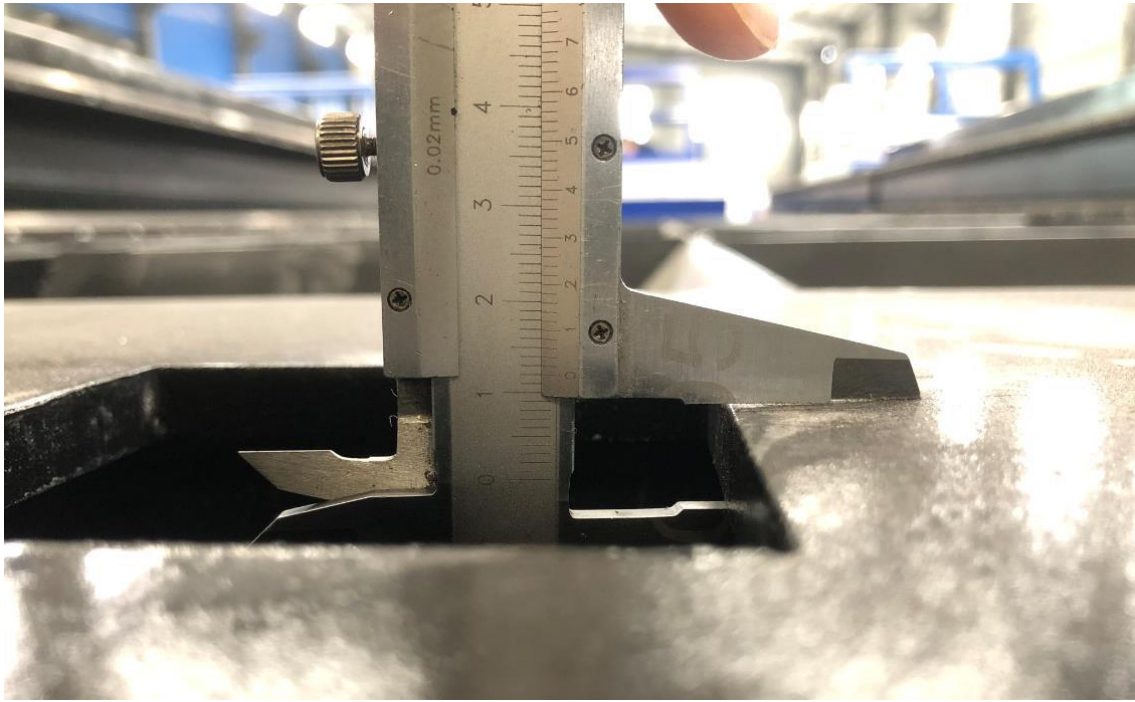


Gas assists cutting either in cutting speed, cutting thickness or cutting effect. For example, oxygen helps to cut faster and thicker; nitrogen helps to get brighter cutting edge. The solenoid valve controls the gas blowing. Gas blows only during cutting, which saves your gas cost. SMC proportional valve controls the gas pressure and brings good cutting all the time, for example, gas pressure is lowered when cutting corners.

- **Gépágy / Machine Body**

Hegesztett gépágy 12 mm-es lemezvastagsággal. Plate welded machine body. Plate thickness: 12mm.





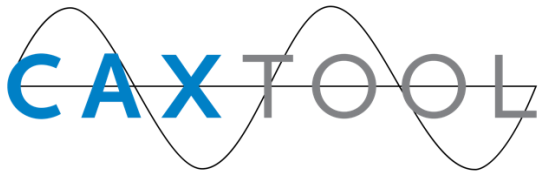
- **Gépasztal / Machine Table**

Saw-shape machine table holds metal sheet steady with little touch with metal sheet. The saws are thick and durable. In both sides of machine table, there are rolling balls for assisting sheets loading. Machine table size is 1500mm by 3000 mm. There are 2 machine tables which are exchange able. You can load material on to one table during machine is cutting on another table. After cutting, the tables they exchange.

Exchange table transmission is by chain.







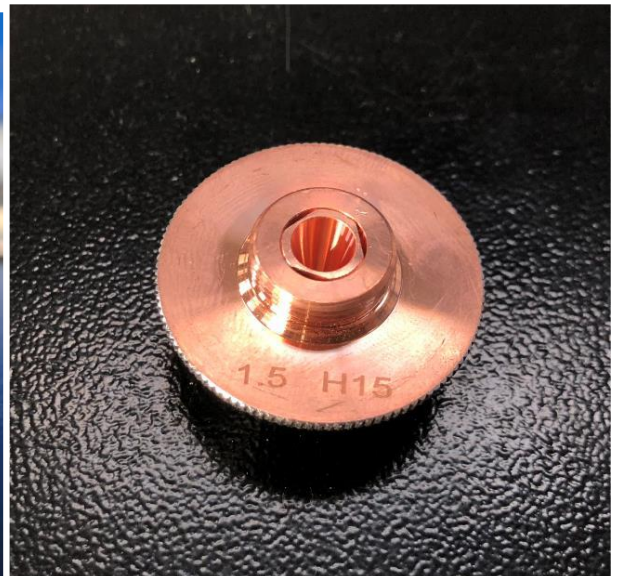
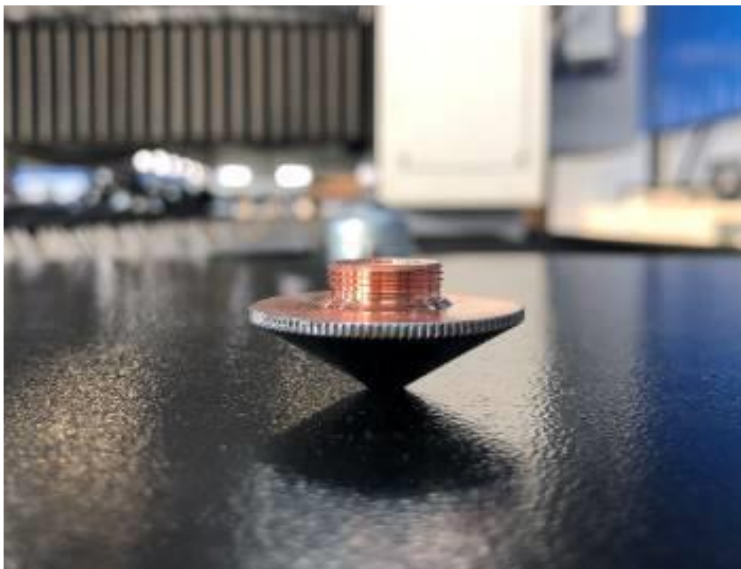
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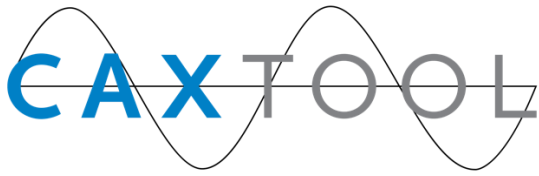
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- **Fogyó anyagok / Spare Parts With Machine**

Nozzles (single/double layers, 1.0/1.5/2.0/2.5/3.0 diameter for your choice) and protective lenses.





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- **Lézervédelmi szemüveg / Safety goggles**

