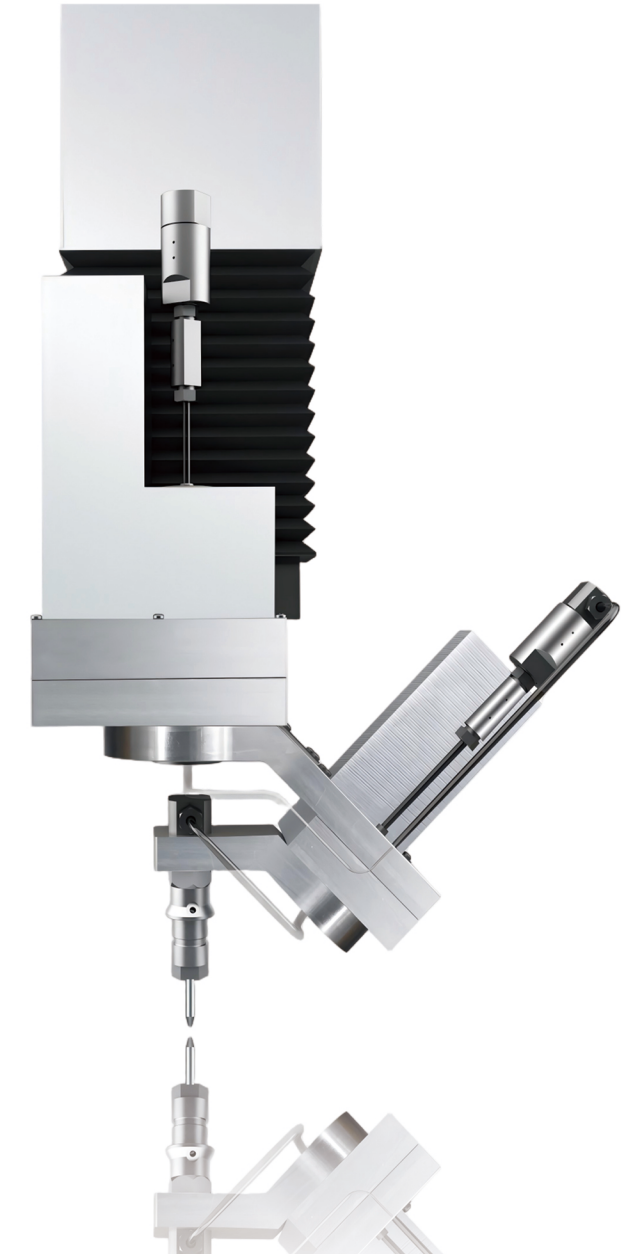




CLEAVE WATERJET

SPECIALIZING IN THE PRODUCTION OF ULTRA-HIGH
PRESSURE WATERJET CUTTING MACHINES

SINCE
1997



HYDERABAD MACHINE TOOLS

Hyderabad Machine Tools

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HYDERABAD MACHINE TOOLS

ABOUT US

COMPANY PROFILE

Hyderabad Machine Tools is a trusted name in the sales and service of CNC-machines, serving the Indian manufacturing industry since 2004. With over two decades of experience, we have built a solid reputation for delivering reliable machine tools, technical expertise, and prompt after-sales support.

We specialize in a wide range of metal cutting machines, including CNC Lathes, Vertical Machining Centers (VMC), Horizontal Machining Centers (HMC), Double Column Machines (DCM), CNC Vertical Turning Lathes (VTL), Boring Machines, Waterjet Cutting Machines, and Laser Cutting Machines. Our solutions cater to diverse industries such as automotive, aerospace, heavy engineering, fabrication and precision manufacturing.

In addition, we deal in advanced metal forming machines, such as Hot Forging Presses, Roll Forging Machines, CNC Press Brakes, Shearing Machines, and Hydraulic Presses, designed to meet modern production demands with high efficiency and accuracy.

At Hyderabad Machine Tools, we are committed to providing quality machines, dependable service, and long-term value to our customers. Our experienced technical team ensures seamless installation, commissioning, maintenance, and support, helping clients maximize productivity and machine life.

Driven by customer satisfaction and continuous improvement, we strive to be a long-term technology partner for manufacturers across India.



CLEAVE
WATERJET

OUR MISSION AND VISION

- To provide high-quality CNC, metal cutting, and metal forming machines that meet global standards.
- To deliver prompt, dependable sales and after-sales service, ensuring maximum machine uptime and customer satisfaction.
- To build long-term relationships through transparency, technical expertise, and customer-focused solutions.
- To continuously upgrade skills, technology, and processes to support the evolving needs of the manufacturing industry.

WIN HONOR

To be a leading and most trusted machine tool solution provider in India, recognized for quality products, reliable service, and long-term partnerships with our customers, while continuously adopting advanced manufacturing technologies.



National Standard Drafting Unit



ISO9001 International



European CE Certification



China High-Tech Enterprise

ENTERPRISE

ENTERPRISE QUALIFICATION

- European CE certification
- Famous trademark
- High-tech enterprise
- High-tech products
- ISO9001 international quality system certification

COOPERATION PARTNER



WATERJET CUTTING MACHINE FOR SINTERED STONE SLABS

4020 GANTRY AC FIVE-AXIS WATERJET



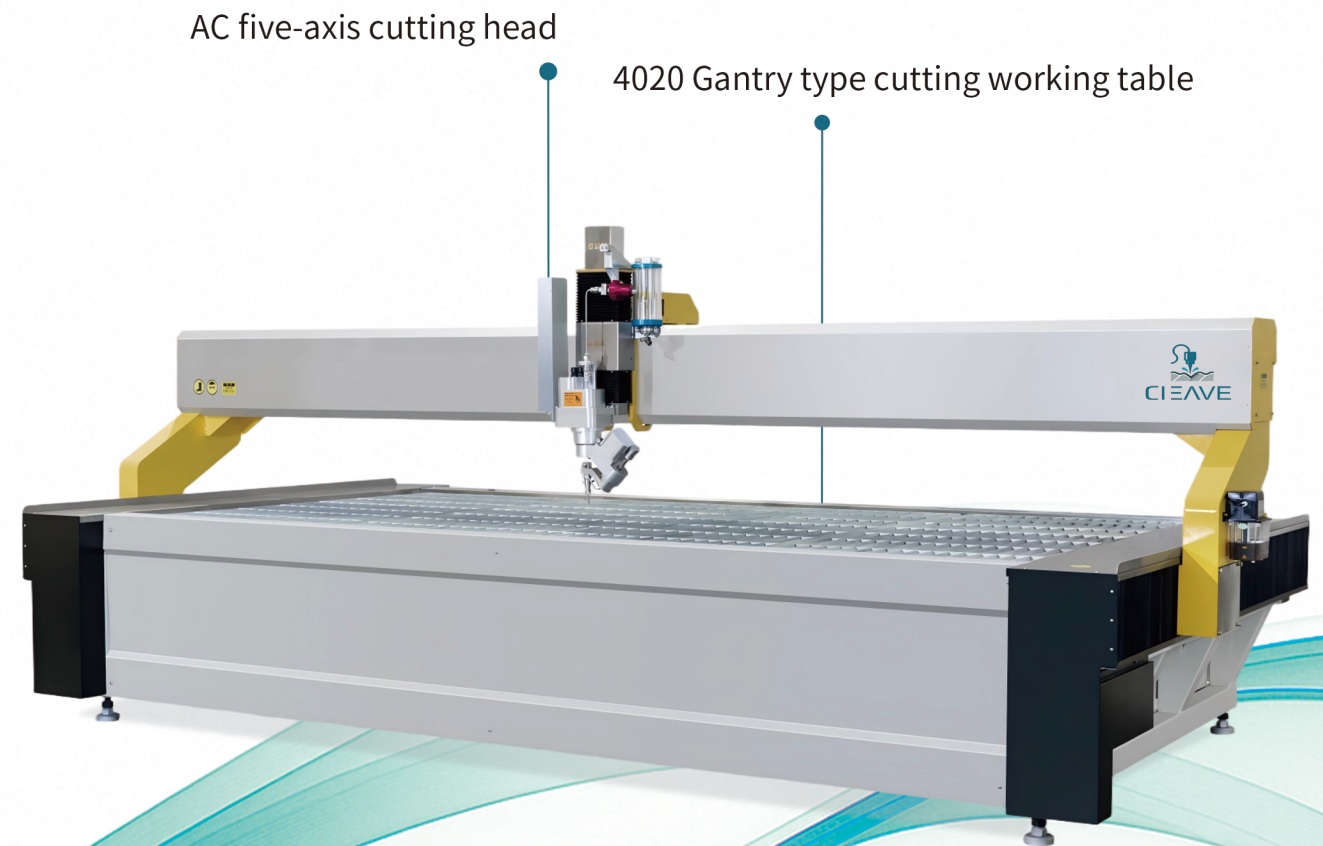
Automatic abrasive feeder



CNC control system



50HE Hydraulic ultra-high pressure pump



AC five-axis cutting head

4020 Gantry type cutting working table



FEATURES

- ⦿ Processing all procedures except grinding edge in deep processing of sintered-stone slabs
- ⦿ High intelligence, automatic cutting in the whole process after graphics input
- ⦿ Cold cutting, no heat affected zone during processing, effectively reducing damage rate

WATERJET CUTTING MACHINE FOR GLASS DEEP PROCESSING

3020 CANTILEVER THREE-AXIS WATERJET

3020 Cantilever type cutting working table



CNC control system



Automatic abrasive feeder

50HE Hydraulic ultra-high pressure pump



FEATURES

- ⊙ High strength cantilever structure, loading material from three sides, easier to realize connecting automatic line
- ⊙ Windows system, high intelligence, can access to the factory's ERP system
- ⊙ Low-pressure piercing and high-pressure cutting, perfectly solve the problem of easy cracking in the process of glass cutting

WATERJET CUTTING MACHINE FOR STONE/CERAMIC TILES INLAY

3020GANTRY AB FIVE-AXIS WATERJET



FEATURES

- Multiple dust proof system, effectively blocking water and abrasive
- NC servo system for precise cutting
- Automatic lubrication system



Automatic abrasive feeder



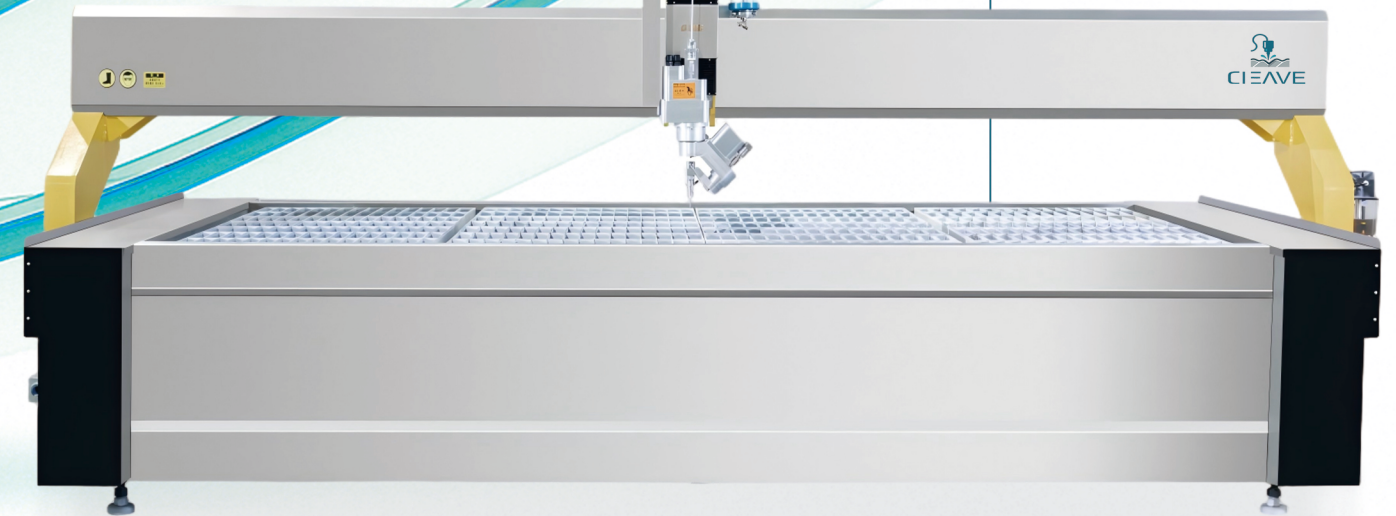
CNC control system



50HE Hydraulic ultra-high pressure pump

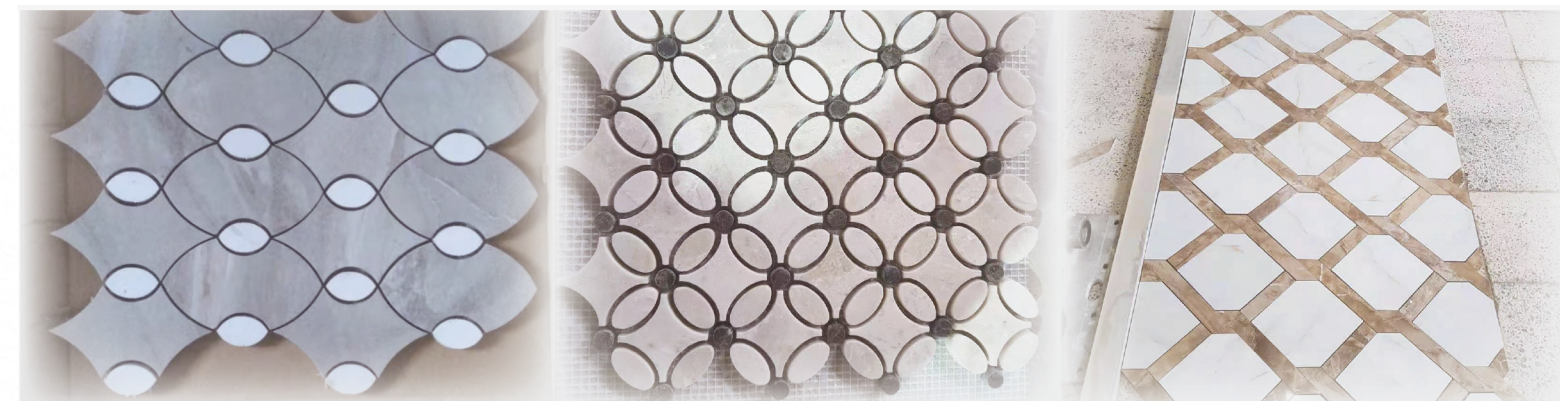
AB five-axis cutting head

3020 Gantry type cutting working table



WATERJET CUTTING MACHINE (DUAL HEADS) FOR MOSAIC

CUTTING MACHINE FOR MOSAIC



FEATURES

- ⦿ Tailored for the mosaic industry
- ⦿ The fastest cutting speed up to 18m/min
- ⦿ Stainless steel multiple dust-proof system, suitable for all kinds harsh working condition

CNC control system



50HE Hydraulic ultra-high pressure pump



Automatic abrasive feeder

Dual cutting heads

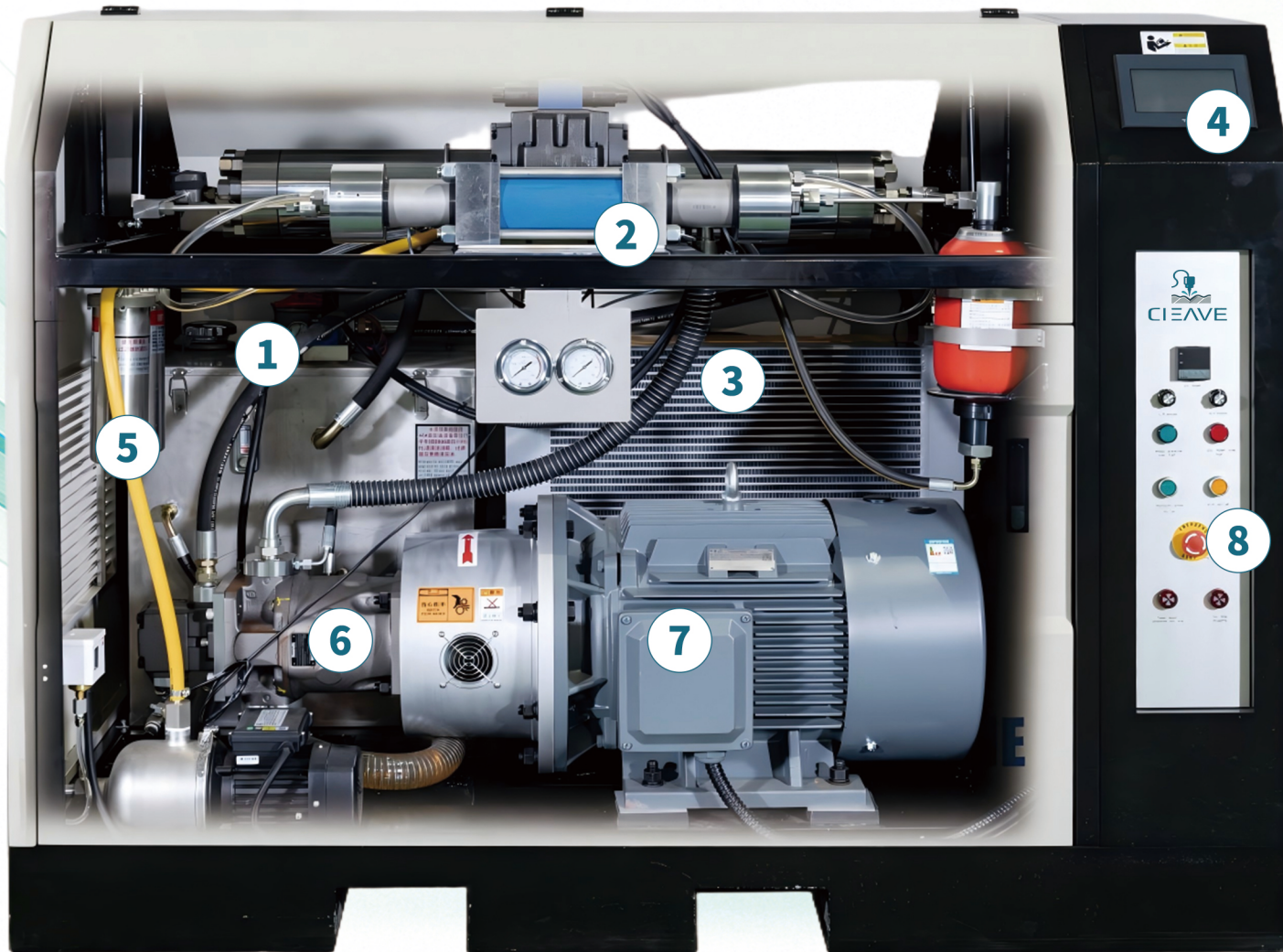


2516 Gantry type dual-head cutting working table

ULTRA-HIGH PRESSURE PUMP WITH INTENSIFIER(AIR COOLING)

PRODUCT FEATURES

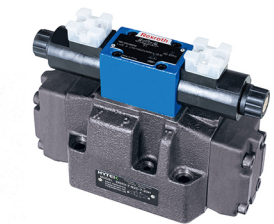
- ⊙ Designed based on CE and ISO9001 standards
- ⊙ Adopt high performance hydraulic pump
- ⊙ Imported PLC system and friendly man-machine interface
- ⊙ Setting two levels pressure for cutting different kind of materials
- ⊙ Built-in air cooling system, no external cooling water source



Servo electro-hydraulic proportional valve



1 Stainless steel hydraulic oil tank



2 Special electro-hydraulic reversing valve for waterjet



3 Air-cooling system



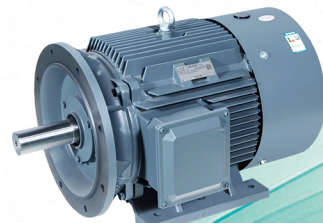
4 Man-machine interface



5 Stainless steel water supply and filtration system



6 High performance variable piston pump



7 Three-phase asynchronous motor IP55



8 Soft starter

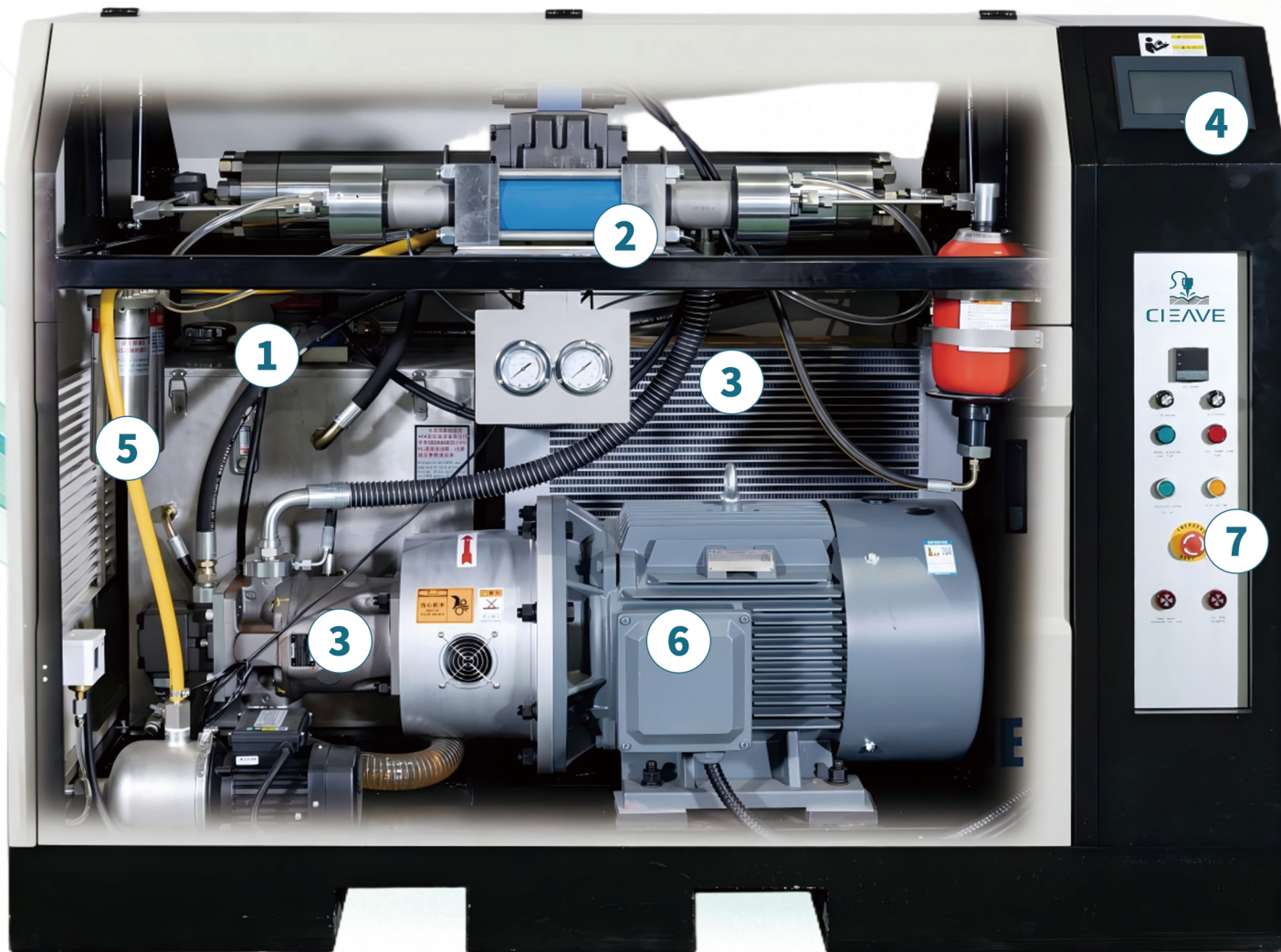
TECHNICAL PARAMETER

Dimension(L*W*H)	1800*1000*1400mm 70.8 * 39.3 * 55.1inch
Weight	1130kg (2511 lbs)
Power rate	37kw (50 hp)
Max. Pressure	420MPa (4200 bar)
Working pressure	300-350MPa (3000-3500 bar)
Max. Flow rate	0.0037m3/min 3.7L/min
Max. Orifice	Φ0.35mm (Φ0.014 inch)
Water supply	0.0151 m3/min 15.1L/min
Water pressure	≥0.1MPa (1 bar)
Power supply	380V 50Hz

ULTRA-HIGH PRESSURE PUMP WITH INTENSIFIER(WATER COOLING)

PRODUCT FEATURES

- ◎ Designed based on CE and ISO9001 standards
- ◎ Adopt high performance hydraulic pump
- ◎ Imported PLC system and friendly man-machine interface
- ◎ Setting two levels pressure for cutting different kind of materials
- ◎ Adopt high efficiency external water cooling system



Servo electro-hydraulic proportional valve



1 Stainless steel hydraulic oil tank

2 Special electro-hydraulic reversing valve for waterjet

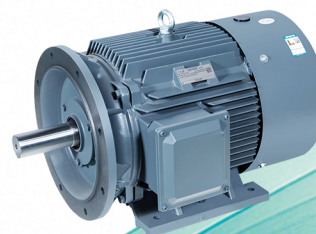
3 High performance variable piston pump



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Special electro-hydraulic reversing valve for waterjet

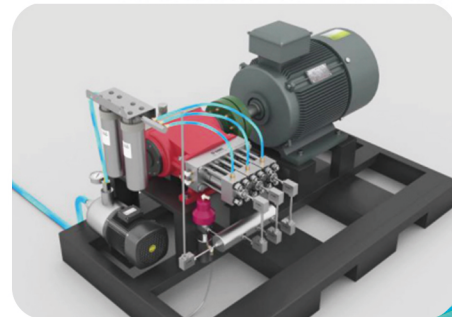
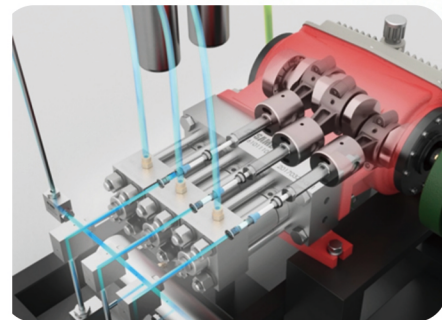
TECHNICAL PARAMETER

Dimension(L*W*H)	1800*1000*1400mm 70.8 * 39.3 * 55.1inch
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Power rate	37kw (50 hp)
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Working pressure	300-350MPa (3000-3500 bar)
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Max. Orifice	Φ0.35mm (Φ0.014 inch)
Water supply	0.0151 m3/min 15.1L/min
Water pressure	≥0.1MPa (1 bar)
Power supply	380V 50Hz

DIRECT-DRIVE ULTRA-HIGH PRESSURE PUMP

PRODUCT FEATURES

- ◎ Patented energy saving technology. consume Skw-10kw of electricity per hour.
- ◎ Compare with the ultra-high pressure oil pump with intensifet, cutting efficiency increase by 20% at same pressure.
- ◎ No hydraulic transmission link,easy for maintenance.
- ◎ Low energy consumption, Large flow rate and high pressure.

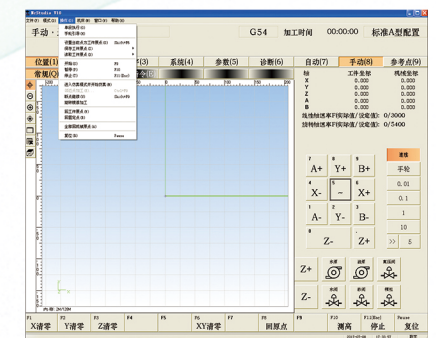
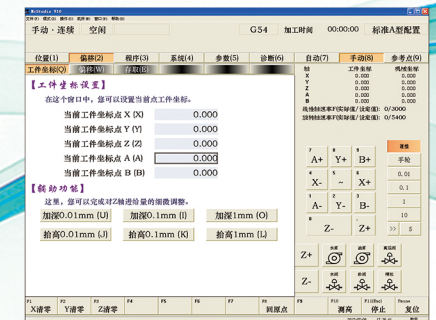


TECHNICAL PARAMETER

Dimension(L*W*H)	1600*980*950mm 63*38.6*37.4inch
Weight	600kg (1333 lbs)
Power rate	18.5kw (25 hp)
Max. Pressure	400MPa (4000 bar)
Working pressure	200-300MPa (2000 -3000 bar)
Max. Flow rate	4L/min 0.004m3/min (4L/min)
Max. Orifice	φ0.35mm (φ0.014 inch)
Water supply	0.0151m3/min 15.1L/min
Water pressure	≥0.1MPa (1 bar)
Power supply	380V 50Hz

CONTROL SYSTEM

- ◎ System supports DXF files without CAM software,which reduces programming difficulty ad saves costs.
- ◎ Support the angle and speed setting of different line segments on the same graph to realize continuous cutting of liesgments with different bevek.
- ◎ Laser height measurement is used to effectively sohe the problem of uneven rock slab bending caused by contactmeasurement.
- ◎ Adopt an optimized cutting strategy for adjacent line segments with different inclination angles in the graph to ensurebetter cutting effect.
- ◎ Support splitting software and CAD tool path to realize cutting at different incination angles.
- ◎ Automatically recognize the inner hole and outer frame to realize optimized cutting.
- ◎ Support dfferent inclination angle and different tool compensation to ensure the consistency of cutting accuracy.
- ◎ Support layers to set proces parameters to improve cutting efficiency.



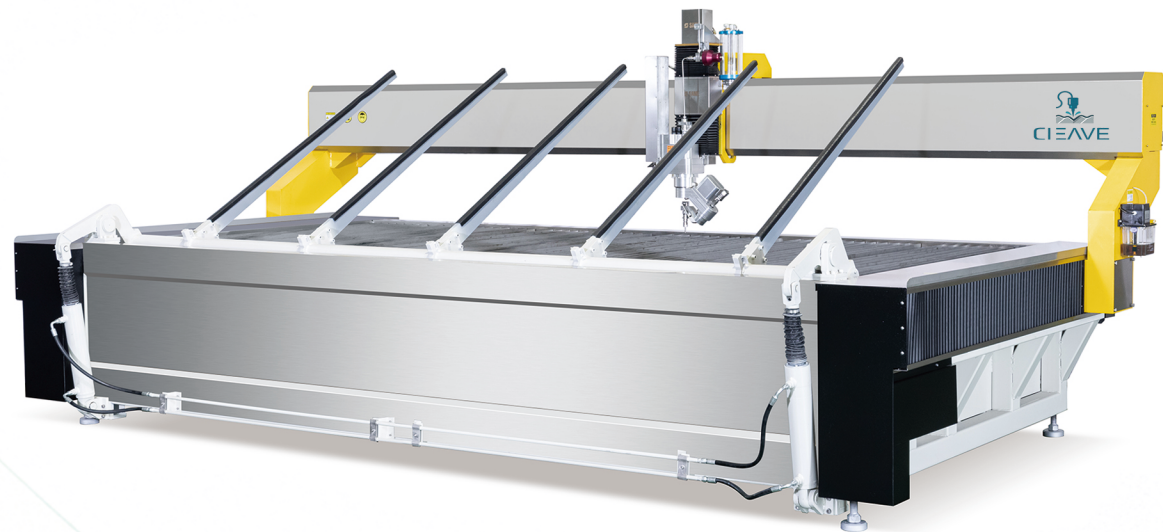
TECHNICAL PARAMETER

Dimension(L*W*H)	600mm*550mm*1500mm(23.6*21.6*59 inch)
Weight	200kg(444.4 lbs)
Power supply	380V 50Hz

LOADING FLIP PLATFORM(OPTIONAL)

FEATURES

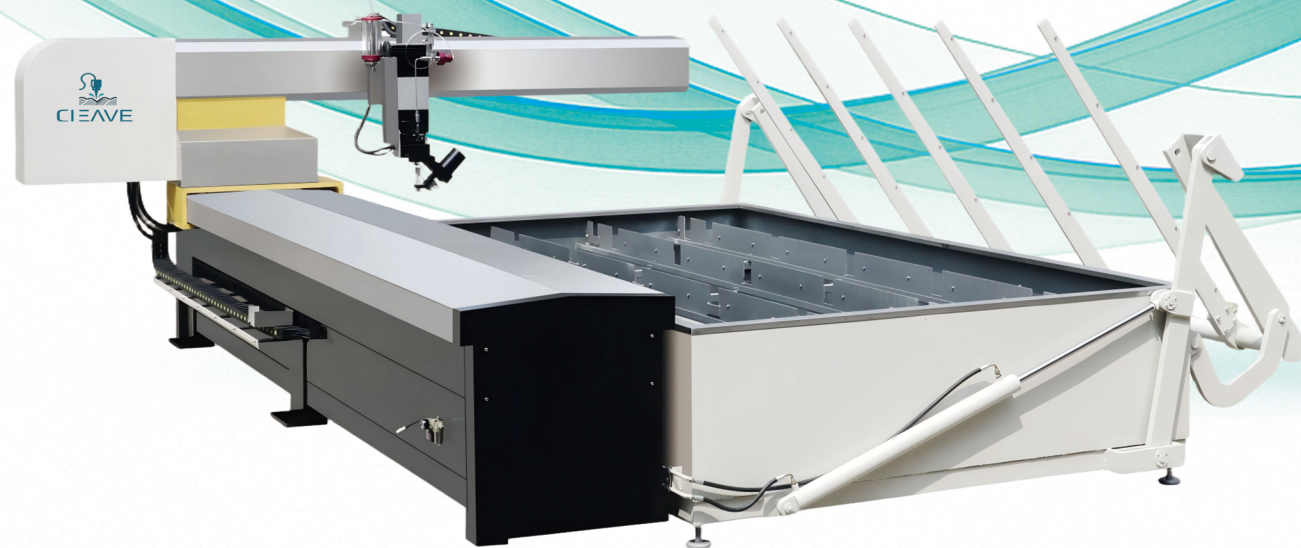
The loading turnover platform can solve the problem of frequent loading and unloading in mass production, improve work efficiency, and provide convenience to customers who need to cut large workpieces.



LOADING PLATFORM(OPTIONAL)

FEATURES

The hydraulic loading platform can solve the problem of frequent loading and unloading in mass production, improve work efficiency, and provide convenience to customers who need to cut large workpieces.



AC5-AXIS CUTTING SYSTEM(OPTIONAL)

FEATURES

- AC 5-axis cutting head system can offer $0^{\circ}\sim\pm 75^{\circ}$ bevel cutting.
- Essential for cutting sintered stone plate.
- Solve traditional waterjet cutting bevel problem, and easily realize 2D/3D cutting.

TECHNICAL PARAMETER

A axis	$\pm 120^{\circ}$
C axis	$\pm 360^{\circ}$
Bevel cutting	$\pm 75^{\circ}$



AB5-AXIS CUTTING SYSTEM(OPTIONAL)

FEATURES

- The upgraded AB five-axis compared with the traditional AB five-axis, the efficiency is improved by more than 10%.
- Essential for make perfect marble mosaic and parquettile, achieve perfect sharp corners, eliminate grinding process, and save labor effectively.

TECHNICAL PARAMETER

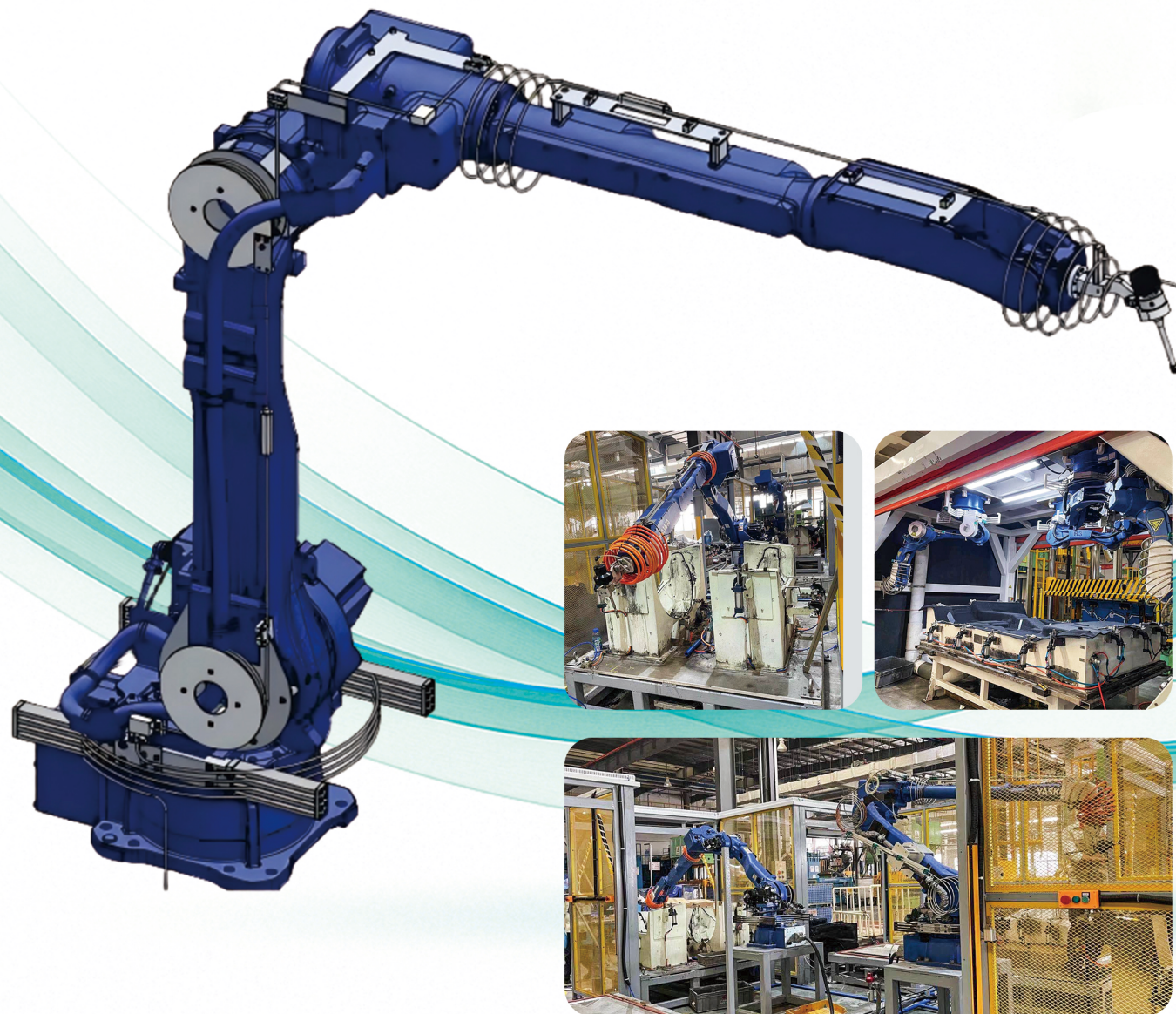
A axis	$\pm 10^{\circ}$
C axis	$\pm 10^{\circ}$
Bevel cutting	$\pm 5^{\circ}$



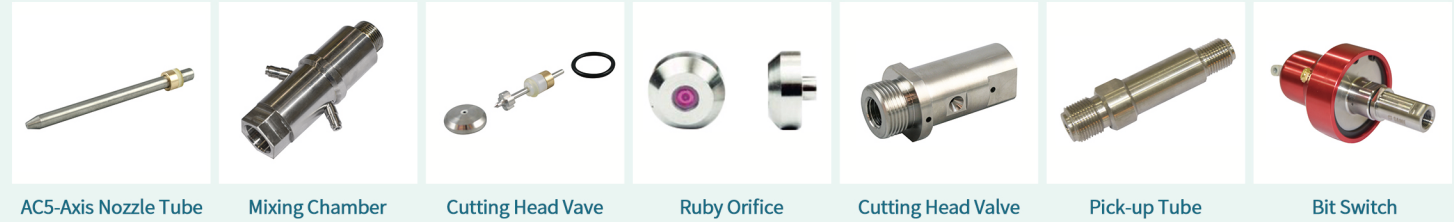
ROBOT WATERJET CUTTING STATION

FEATURES

- Flexible production.
- High cutting accuracy and good stability.
- Multiple robots can be used to work together to improve production efficiency.
- Realize 3D cutting.



Cutting Head Accessories



Direct-Drive Ultra-High Pressure Pump Accessories



SOHE/50HC Hydraulic Ultra-high Pressure Pump Accessories

