



SHANDONG WAMIT CNC TECHNOLOGY CO.LTD

International branch: HARBIN QIAN FAN XI FENG MACHINERY CO.LTD

Address: No.1341 of KECHUANG ROAD, GAOXIN DISTRICT, JINAN CITY, CHINA

Mobile: 86-18945047060, **skype:** shuangtai3

Email: sale@waterjetwamit.com, lgmmachinery@foxmail.com

Website: www.machinery.net, www.waterjetwamit.com **WECHAT:** dergirl, **whatsapp:** 0086-18945047060

Facebook: www.facebook.com/waterjetcuttingsystems

Company Profile

SHANDONG WAMIT CNC TECHNOLOGY CO.LTD is the professional manufacturer of water jet cutting machine and spare parts for all Chinese brand water jet cutting machine. Our factory is located in JINAN city, SHANDONG province, China. And HARBIN QIAN FAN XI FENG MACHINERY is our branch for international business. We can also supply laser machines, high pressure cleaners, stone machinery, UV digital printer with factory price and best quality in China.

We have 420Mpa intensifier pump, 600Mpa intensifier pump, direct drive pump and 420mpa with dual intensifier pump, we also can provide 3 axis, 5 axis with 10 degree and dynamic 5 axis with 60 degree cutting head water jet cutting machine, pure water cutting and abrasive sand cutting. Our machines are with excellent quality - efficient and accuracy, economical investment with low initial cost and low maintenance cost to our customers. All the machinery delivered by us come with first class after-sale service. All machines are with one-year warranty of main parts, whole-life after-service for the entire machine.

We can supply water jet cutting machine according to your requests, from the cutting table size to the special design. Especially our new design of automatic abrasive sand removing system brings convenience for glass and marble factories. This system can fit for any brand water jet cutting machine. You needn't stop the machine while it is working.

Our new FLOW type cutting head can improve your 10% cutting efficiency, and our new technology can make the machine moving speed to 30-50m/min so that reduce your 15%-50% cutting cost according to the materials.

Until now we have expanded our market to North America, Australia, Southeast Asia, Central Asia and the Middle East. And establish a good relationship with our customers in Russia, Argentina, America, Canada, UK, Chile, South Africa, Ecuador, Kuwait, Hungary, Saudi Arabia, Vietnam, Turkey, Mexico, Malaysia, Australia and other countries and regions.



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we now have after-service department in America, Russia, South Africa, Ecuador, UK, Argentina, Chile, Mexico, Australia, Saudi Arabia, Malaysia, Vietnam. We take "customer first, reliable quality, honest and faithful, good team work" as our consistent business principle. With the strict management and continuous improvement, we can supply the best way of cutting by water jet. please don't hesitate to contact us if you want to know more!

CNC Water jet cutting machine introduction

Water jet cutting machine is an efficient, economical, and practical equipment, most water jet cutting machine is with intensifier pump, but our water jet cutting machine is with high pressure direct crankshaft pump, the maximum pressure can be up to 420MPa and up to 90% efficiency, superior performance, beautiful appearance, high reliability, as the incidence of water source has been used in metal processing industry, stone processing, glass processing, advertising signs, gifts and art which is widely used in institutions and other enterprises. Among them, the portable water cutting system auxiliary equipment can achieve different objects cutting through the high pressure hose with the system host. The portable water jet cutting machine can be freely used, compact and beautiful, simple operation, easy to control. To adapt the working environment to maximize the fuselage in order to achieve different objects cutting through different chains connections. Can cut and destroy the pipes, plane-like object, suspected hazardous materials. Waterjet cutting capacity is unlimited, water jet can cut any material, and maintain smooth incision, no heat and harmful substances cutting, after cutting, no need or ease for secondary processing, safe, environmental protection, low cost, fast speed, high efficiency, without changing the tool, enabling arbitrary curve cutting, convenient and flexible, and versatile. Water jet cutting, has a good reputation in various industries! Materials commonly cut with a water jet include rubber, foam, plastics, leather, composites, stone, tile, metals, food, paper and much more. Materials that cannot be cut with a water jet are tempered glass, diamonds and certain ceramics. It can cut shaped graphics, graphic work irregular figure, geometry, graphs, non-standard cutting; ceramic mosaic, marble mosaic, copper / aluminum / stainless steel / iron hollow carved, glass arts, mold cutting, cutting a variety of text, letters, advertisements plate engraving, signs and other cutting; engraving on a variety of different materials, patterns, letters and so on.



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alloy steel	steel hardened	rubber
aluminum	tile	porcelain
armor plate	laminated glass	pvc
brass	steel tool	thermoplastics
boron	tantalum	teflon
bronze	tin	urethane
cast iron	titanium	vinyl
cobalt	tungsten	armor plate
copper	wrought iron	bullet proof glass
exotic alloys	zinc	glass
hastalloy	acrylics	mirror glass
hardened steel	ceranucs	ceramic tile
hot rolled steel	composites	granite
inconel	foam	limestone
kevlar	fiberglass	marble
magnesium	kevlar	porcelain
mild steel	mylar laminates	terrazzo
nickel alloys stainless	nylon	hardwood
steel	plastics	
steel alloy	plexiglass	



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Application fields and cases



100mm stainless steel





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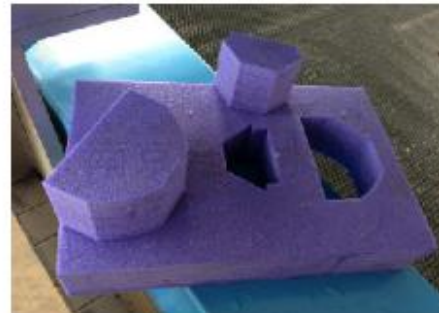
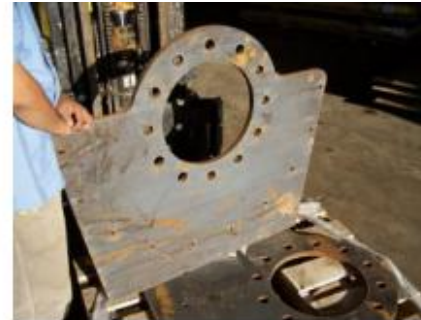
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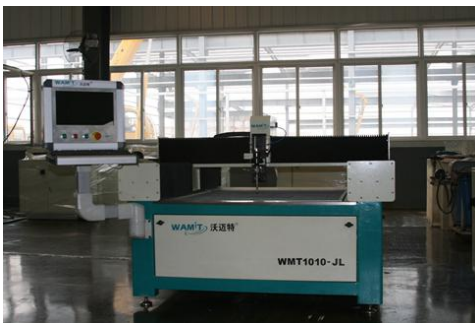
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This model no need installation, with 1*1m cutting size and 420mpa pump





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Bridge type CNC water jet cutting machine

There are 4 basic parts of water jet cutting machine, CNC controller, cutting table, intensifier pump, abrasive sand feeding system.

1. CNC controller

Control System



19 inch screen



cnc controller



Siemens plc



Industrial PC





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Features

1. colour LCD 21 inch(cpu: yonah, RAM: 2G, mainboard: GUANMING 945, HDD: 320G, DVD, USB)
2. Support starts, breakpoint continue, handwheel guiding function.
3. windows 7 operating system, professional water cutting software: NC studio V9.30
4. Graphic simulation and analog processing functions
5. Return function along the original track
6. Reverse cutting function
7. Auto division of materials function
8. Display / Rotate / Mirror Cut
9. Metric / imperial conversion
10. Chinese / English online switch
11. Magnification adjustment function
12. Cutting gap compensation
13. PLC is from SIEMENS
14. can set the on/off valve sequence and time interval
15. Corner deceleration function
16. Professional water jet cutting software from WEIHONG
17. Suitable file format dxf. Nce.nc.cnc.eng.plt.G-code etc
18. Electric components are Schneider brand
19. Cnc controller buttons are Schneider brand





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2. Cutting table



Pure water platform



Dual platform



Rolling platform



overall platform



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NEW MODEL MACHINE WHICH NO NEED INSTALLATION.





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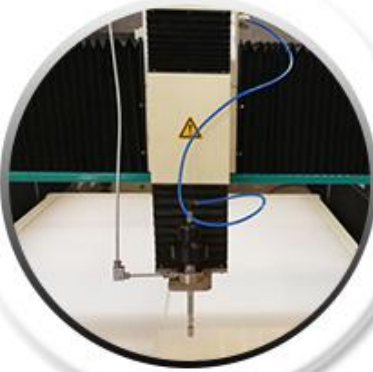
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Pure water
cutting head



5 axis with 10
degree cutting head



5 axis with 60
degree cutting head

(5 axis with 10 degree cutting head is with better function than 4 axis and



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widely used in marble cutting)

Designed specially for stone/marble industry

Designed specifically for the stone industry five axis water jet cutting head, this axis water jet cutting head is with optimized structural design, small size, light weight, and can be installed on existing cantilever and gantry type waterjet cutting machine.

Its maximum tilt angle of 10 degree, and can around the Z axis by unlimited rotation. There is angle ruler on the head, the user can easily set the desired tilt angle.

This product is for improving the processing efficiency in building materials industry, granite, marble, stone, ceramics, glass and other industries, especially for the decorative floral industry and parquet marble processing, eliminating the tedious process of secondary grinding, to improve the speed and quality of processing, while in the glass and metal cutting applications can also improve the perpendicularity of the cutting.

Z axis rotation speed can be 180 degree per second.

Can be installed on the classic Cantilever structure water jet cutting machine. easy loading and unloading .

Can be cut vertical or inclined.

Cutting can be manually adjusted to 10 degrees, the operation is simple and convenient





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Ordinary marble mosaic waterjet cutting

10 degree five axis marble mosaic cutting

Cutting - Grinding - inlay - Glue - Sealant

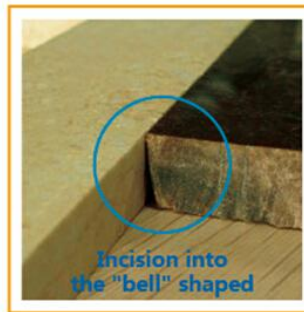
Cutting - inlay - Glue - Sealant

Waterjetting



VS

Polish-free waterjetting

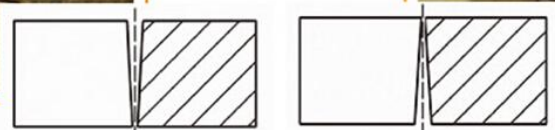
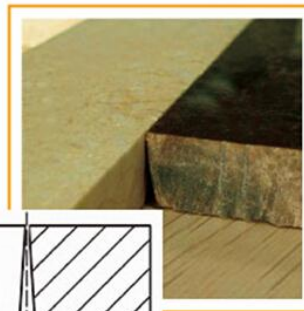


Waterjetting



VS

Polish-free waterjetting





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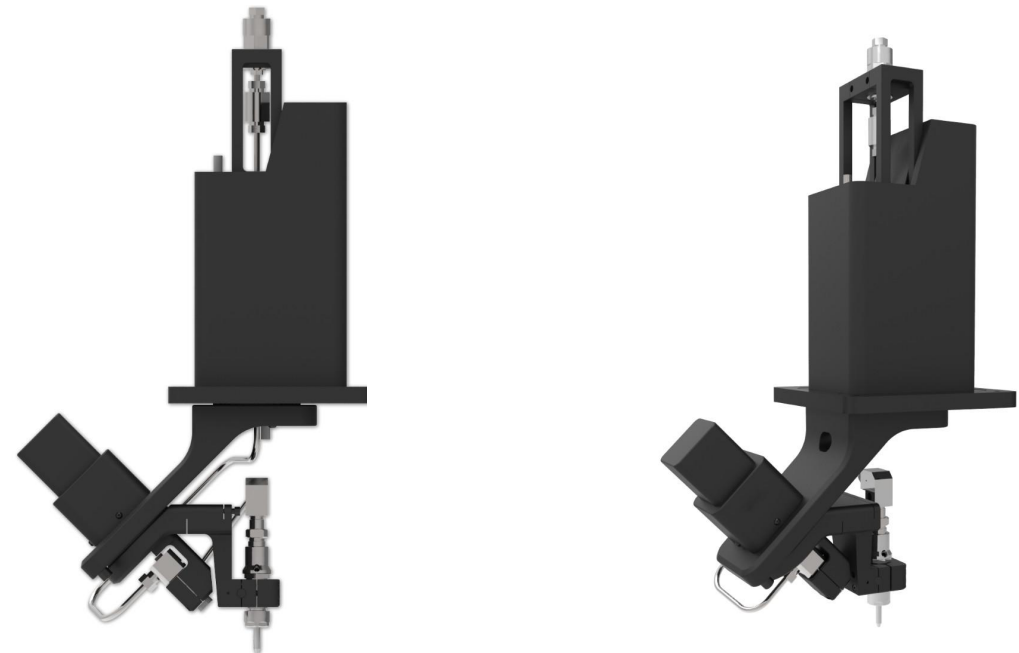
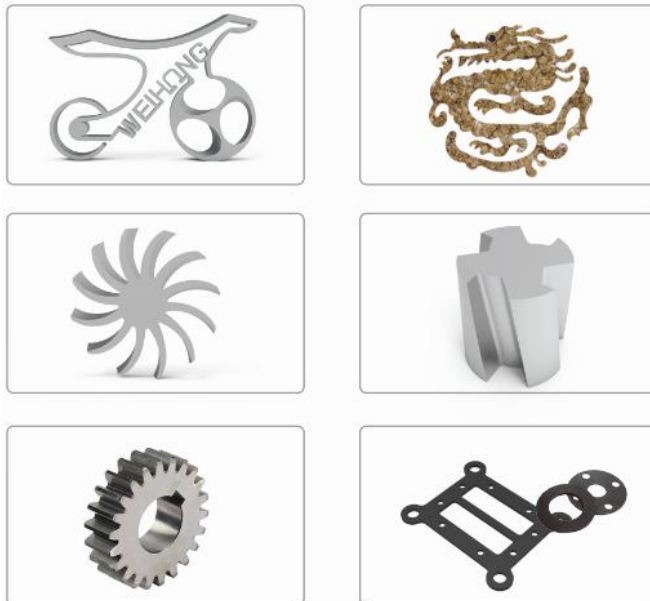
60 DEGREE FIVE Axis water jet cutting machine

Video address:

<https://youtu.be/QS0u804xHhk>

Advantage:

1. In the 380Mpa high-pressure water recoil force, cutting point position offset variation is less than 0.01mm
2. At 0-40 degrees Celsius temperature changes of the environment, cutting point position offset variation is less than 0.01mm
3. C-axis unlimited rotation degree can eliminates the cutting point hole in the return processing of start and stop which caused by high pressure water.
4. Excellent 5 axis WEIHONG cnc controlling system.





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Specification

Power	220/380/415VAC , 50/60HZ
Max speed of X axis	6000mm/min, we have new technology, the moving speed can be 30-50m/min.
Max speed of Y axis	6000mm/min, we have new technology, the moving speed can be 30-50m/min.
Max speed of Z axis	1000mm/min
Control accuracy	$\pm 0.01\text{mm}$
Cutting accuracy	$\pm 0.1 - \pm 0.2\text{mm}$ (depend on cutting speed and material thickness)
Repeat positioning accuracy	$\pm 0.05\text{mm}$
Driving system	imported AC servo motor system



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Advantage of our cutting table

1. Japanese Yaskawa servo motor



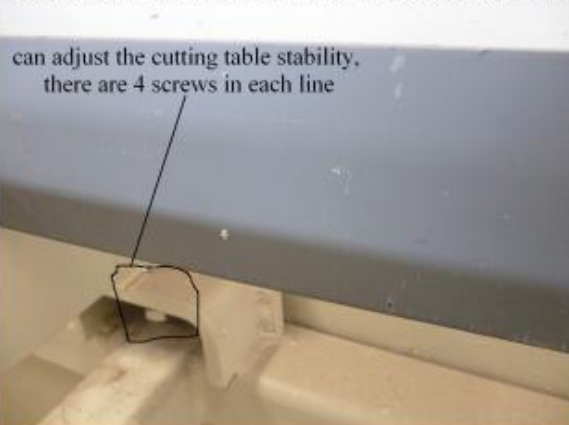
2. 6mm water tank thickness



3. 10mm steel water tank supporter



4. cutting table stability adjust screw (this is special design in our factory)





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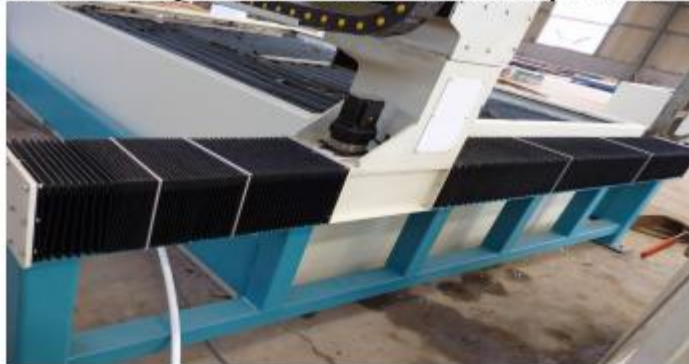
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4. Soft cover of linear guider(this soft cover can protect linear guider better)



5. Use 8mm steel beam (there are many factories use aluminum beam, the machine weight is lighter, but the accuracy of the machine will be worse depending on the using time)





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6. Install linear guider automatically oil supply system(with this equipment, the linear guider no need maintenance and keep accuracy longer)



7. Flow abrasive sand hopper (make the abrasive sand supply is stable and not easy to be broken)





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8. TAIWAN imported TBI brand linear guider.



9. We have new technology that can make the machine axis moving speed is to 30-50m/min. This technology will greatly reduce cutting cost for glass industries, rubber industries, plastic processing, foam cutting, soft materials cutting and so on.



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Cutting table size range

Models of Bridge type CNC waterjet cutting machine

Model number	X Axis (mm)	Y Axis (mm)	Z Axis (mm)
WMT1010-AL	1000	1000	150-200
WMT1515-AL	1300	1300	150-200
WMT2015-AL	1500	2000	150-200
WMT2515-AL	1500	2500	150-200
WMT2520-AL	2000	2500	150-200
WMT3015-AL	1500	3000	150-200
WMT3020-AL	1800	3000	150-200
WMT4020-AL	1500	4000	150-200
WMT4030-AL	1800	4000	150-200
WMT5020-AL	2000	5000	150-200
WMT6020-AL	2000	6000	150-200
WMT8020-AL	2000	8000	150-200
WMT12020-AL	2000	12000	150-200
WMT5030-AL	3000	5000	150-200
WMT6030-AL	3000	6000	150-200
WMT8030-AL	3000	8000	150-200
WMT12030-AL	3000	12000	150-200

Models of cantilever type CNC waterjet cutting machine

Model number	X Axis (mm)	Y Axis (mm)	Z Axis (mm)
WMT1010-AX	1000	1000	150-200
WMT1515-AX	1300	1300	150-200
WMT2015-AX	1500	2000	150-200
WMT2515-AX	1500	2500	150-200
WMT2520-AX	2000	2500	150-200
WMT3015-AX	1500	3000	150-200
WMT3020-AX	1800	3000	150-200
WMT4015-AX	1500	4000	150-200
WMT4020-AX	1800	4000	150-200
WMT4030-AX	2000	4000	150-200
WMT5020-AX	2000	5000	150-200
WMT6020-AX	2000	6000	150-200
WMT8020-AX	2000	8000	150-200
WMT9020-AX	2000	9000	150-200
WMT10020-AX	2000	10000	150-200



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3. 420Mpa ULTRA HIGH PRESSURE INTENSIFIER PUMP

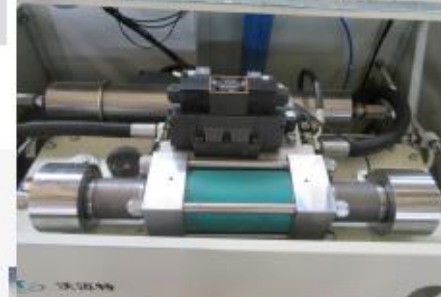
HP intensifier pump specification

Model	WMT3742Z
Power (KW)	37
Max pressure (Mpa)	420(60000PSI)
Max Flow rate	3.8L/MIN
Supercharger number	1
Dia mm	0.25/0.3/0.33MM
Sand cutting gap	1.0-1.8
Water cutting gap	0.15-0.3
voltage	220V/380V/415V



Visible glass cover

AMERICAN
ACCUSTREAM
INTENSIFIER



JAPAN SIEMENS MOTOR





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◀◀ MAX CUTTING THICKNESS 150MM.

DIRECT DRIVE PUMP

WAMIT-600P MAX CUTTING THICKNESS 400MM. ▶▶



420MPA



SAVE YOUR ELECTRICITY COST AND SPARE
PARTS USING COST.



600MPA



SHANDONG WAMIT CNC TECHNOLOGY CO.LTD

International branch: HARBIN QIAN FAN XI FENG MACHINERY CO.LTD

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4. Abrasive sand feeding system

200kg capacity

Consumption: 25kg/hour





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Other free accessories

High pressure water switch	1.Pneumatic valve, which makes moment open and moment(delayed) shut of the high pressure water. 2.CNC miscellaneous functions makes autocontrol of the high pressure water 3.Blockage pressure can be adjusted at will and realizes drilling in low pressure. 4.The quick-wear parts are easy to be replaced
Sand control valve	1.Self-absorption type sand handling. 2.Pneumatic valve overcomes sand blocking and breaking caused by magnetism of the solenoid valve 3.Manual adjustment for sand flow 4.CNC miscellaneous functions makes autocontrol of ABRA
Sand hopper	1.Side-attached sand hopper. 2.Side mounted window to watch consumption of ABRA, prompting the operation staff when to replenish sand

Others(optional)





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New model---automatic abrasive sand removing and recycling system for any brand water jet cutting machine



WAMIT water cutting abrasive sand removal system is dedicated to cleaning waste sand for water cutting equipment. The equipment break through the traditional



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waste sand to clear the various problems, in international and domestic market it is the most effective, most convenient, most simple water cutting grit removal system.

WA-046-type abrasive sand removal system features:

1. not affect normal waterjet cutting work

The abrasive sand removal device can also work when the water jet cutting machine is working. put the sand suction nozzle into the waterjet tank, abrasive sand removal work can be carried out. At the same time it will not affect the completion of Desanding waterjets work properly. The device is fully avoid the traditional sand must be shut down, the water tank must be drained, after exhausted sand you need to fill with water again in before.

2. Simple operation, sand removal thoroughly, very fast

The device requires only five steps in the operation can be completed Desanding: 1, equipment in place → 2, turn on the air supply → 3, the sand suction nozzle into the tank → 4, turn on the gas source switch degritting → 5 After sand full stop dumping waste sand. Desanding rate of the device at more than 90%, if the Sand is much, but mud and other impurities (plastic, paper, nylon mesh, etc.) is not much, finish work only needs 30 minutes.

3. Large capacity

The device diameter is 630mm, height is 2.2M, sand removal capacity is up to 460 liters. For example 2X3M tank, clear 3-4 cans, you can continue to use.

4. thick steel plate, perfect hydraulic system

The device uses 8mm thick steel tank, in the tank internal integration of advanced water-sand separation system. Base is made of 20mm thick steel plate, durable. Switch door manual hydraulic system, and a safety bolt that door switch and sealing easy, safe and convenient.

5. powerful, stable

The device uses the most advanced pneumatic fluid pump, driven by the high-pressure gas can generate a steady stream of high-pressure water, provide the impetus for rapid Desanding

6. Energy Saving

The device does not process the whole Desanding loss of water in the tank, no waste water.

Note: 1, the gas source required 12mm diameter pipe, the gas pressure to 0.4 ~ 0.8MPa, gas supply must be greater than 0.6m³ / min.

2, before remove sand, the system much be filled with water. After finish work, the water go into the tank and the waste sand go into the removing system.



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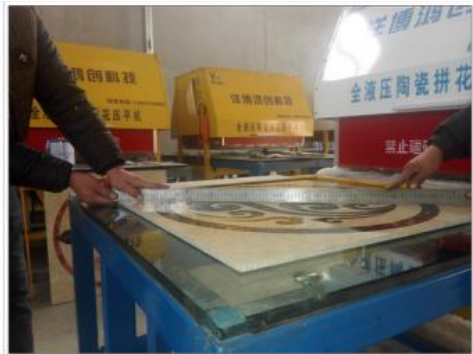
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This system can also recycle the abrasive sand, reduce your abrasive sand cost, labor cost, power cost. PLEASE CHECK THE VIDEO ON MY FACEBOOK!

Fully hydraulic ceramic mosaic flattening machine





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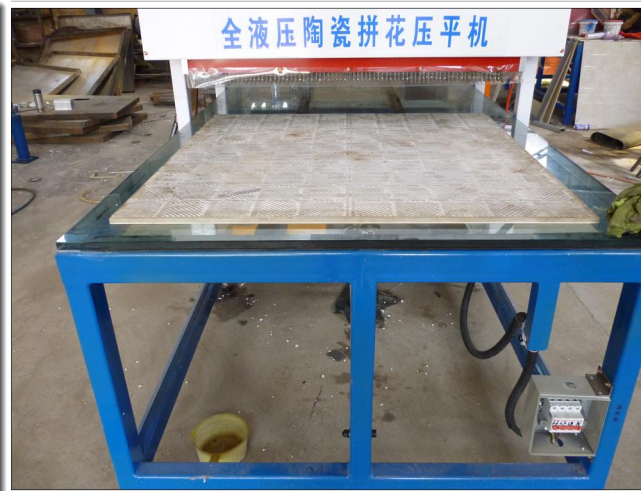
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Introduction

Our fully hydraulic ceramic mosaic flattening machine is used for the processing of marble mosaic. It is with double working table which will save flattening time. The result is very smooth and no rework. Traditional flat way by workers at least have 10% rework. Our machine can make 30 pcs in one day, but workers can only make 10-12 pcs in one day, and our machine can work 24 hours one day.

Making one marble mosaic generally need 3 people, but our machine only need one people. can do any shape within 1m*1m size. Low noise, no easy-wear spare parts. The most important is you needn't hire specialist. Anyone can make marble mosaic by our machine. The electricity consumption is one 2 degrees in one hours, and it can cooperate with 2 sets water jet cutting machine.

Details





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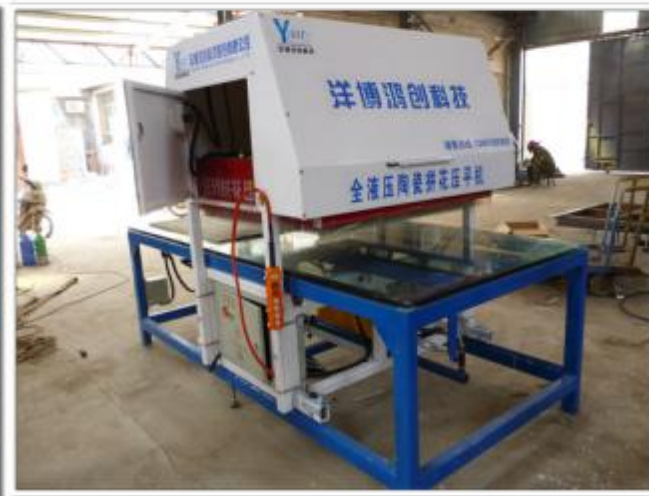
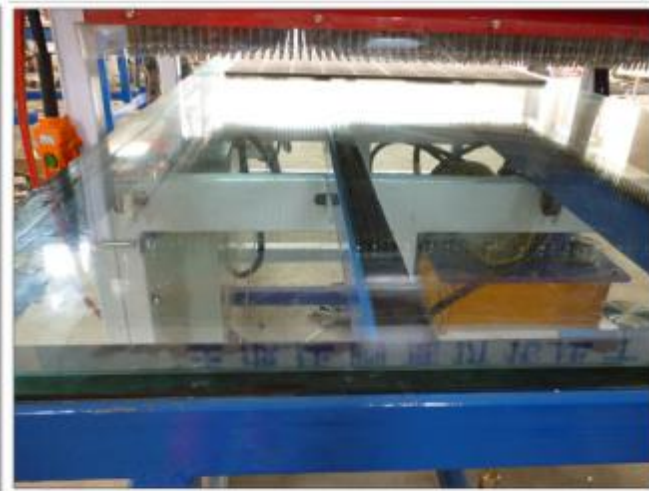
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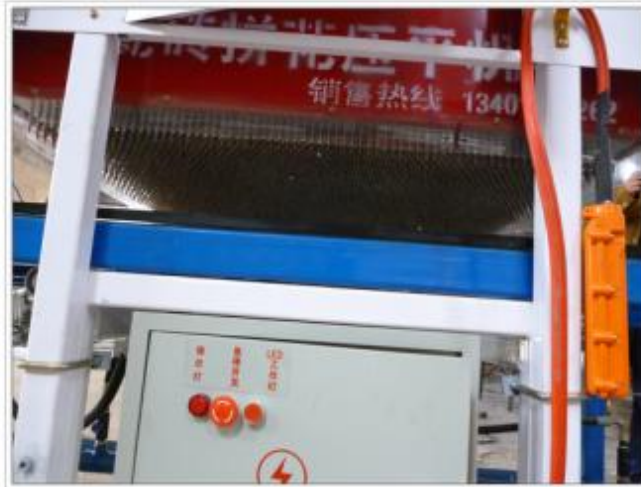
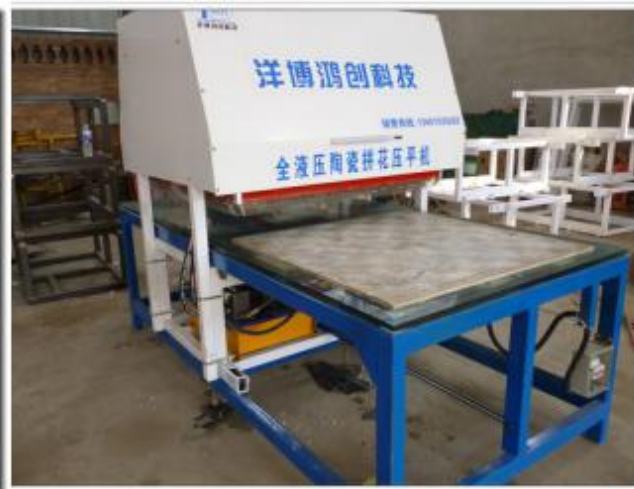
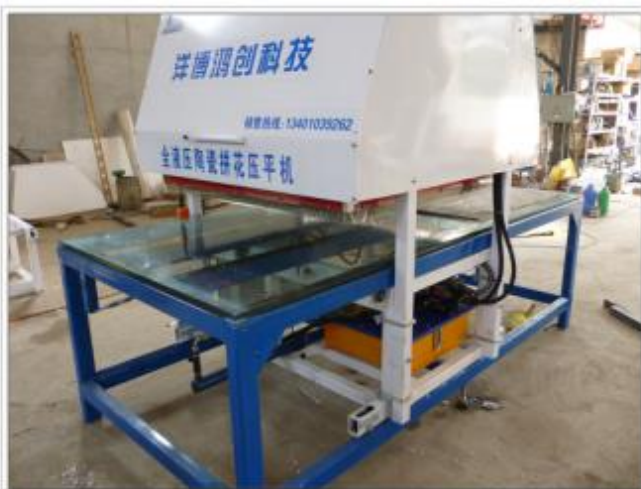
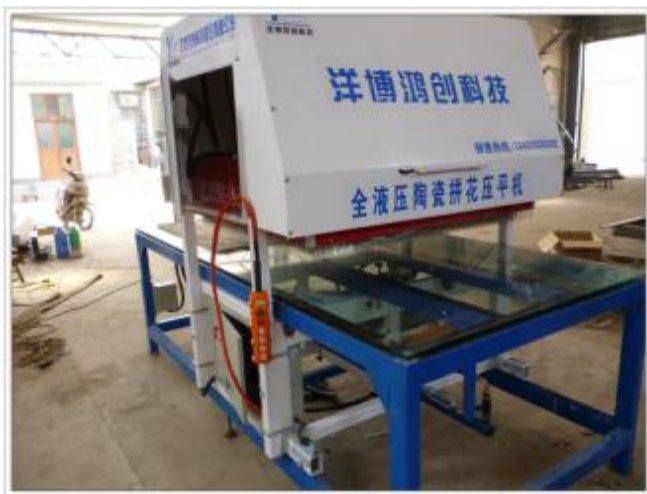
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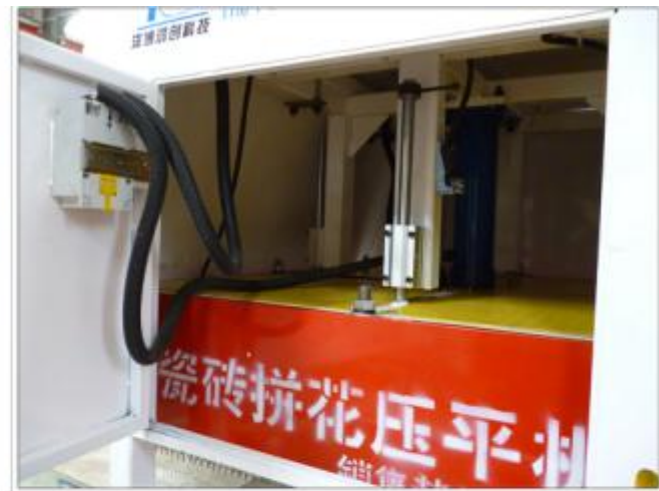
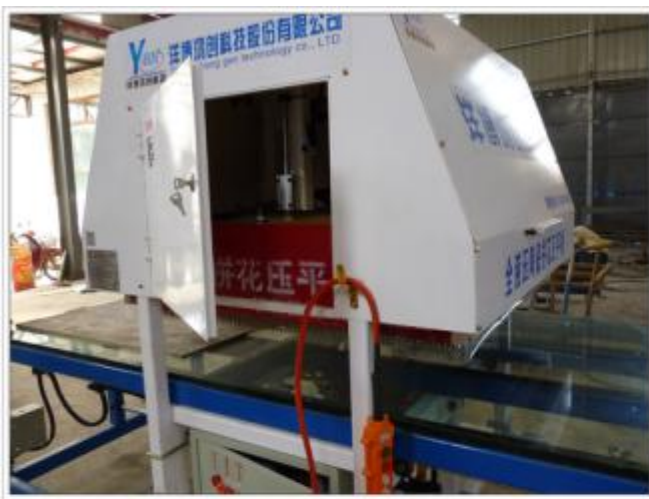
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Specification

Size: 2.5m*1.3m*1.8m(L*W*H)

Tempered glass table thickness: 19mm

Table material: A grade Tempered glass with CCC certificate.

Drive type: fully hydraulic

Oil pressure: 0.7Mpa(can be adjusted)

Moving speed: 1.5-1.8m/min(can be adjusted)

Power: 4.5KW (in winter), 2.5KW(in summer)

Heating time: 10-12 minutes

Processing size: 1m*1m

Flattening point: 6000 points

The distance between each point: 9mm

Machine accessories:

1. Holding fixture 1 set
2. Hot melt glue stick 5 pcs
3. Hot melt glue gun 1 set



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Comparison of our machine and worker for making one piece ceramic mosaic:

	Worker quantity	Processing time	Rework rate	efficiency	output	Easy-Wear spare parts	Processing size	Specialist need	Electricity consumption
machine	1	In summer, 7 minutes, in winter, 12 minutes	0	One machine can work for 2 sets water jet cutting machine	30 pcs in one day	no	1m*1m any shape	No need specialist, can reduce worker cost	2 degree in one hour
worker	3	In summer, at least 30 minutes, in winter, at least 15 minutes	10%	Depend on the worker processing speed	10-12 pcs in one day	no	Any shape and size	Need specialist	No need electricity



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Parts drawing





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CUTTING SPEED

Material	Thickness (mm)	Cutting Speed of 420MPa (mm/min)
Marble	20	410
	30	360
Granite	20	380
	30	250
Glass Brick	12	1100
Glass	5	1610
	10	725
	20	420
Glue Chipped Glass	10	630
Sponge	50	6500
Foam	50	6500
Wood	10	1350
	50	270
Steel	2	800
	4	570
	6	520



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	8	360
	10	260
	15	150
	20	60
	60	26
Laminates	10	2000
Aluminum	5	970
Copper	5	460
Glass Fibre Reinforced plastic	2	1650

●The above parameters is test data, only for reference

●The main factor of affecting cutting surface quality, cutting speed is the pressure and pressure stability. And meanwhile the cutting speed and cutting surface quality is also related.

●Abrasive quality, sand amount, nozzle diameter, orifice diameter and the matching of them will effect the cutting parameters.

●General kerf width is about 1-1.5mm, drill hole diameter is about 1.5-2.0mm. the kerf width is also depended on material and thickness.

Usage: rubber gasket , hexagon sponge , leather and metal composite material , nylon material fiberglass , , cut hot melted holder , glass pen holder , cut hot melted glass handicraft, glass cutting sample , stainless



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steel carriage , stainless steel map , 100mm stainless steel and so on.

CUTTING COST (420MPA)

ITEM		NAME	PRICE（USD）	LIFE	COST PER HOUR (USD)
POWER	1	water		3.1L/min	0.1
	2	electric		37Kw	3
	3	abrasive	170.00 /mt	20-25kg/H	3.4
WEAR PARTS	4	orifice	15.00 /per	50H	0.3
	5	nozzle （imported）	150.00 /per	150-200H	1
	6	on-off valve assemblies(one set)	50,00/set	500H	0.1
	7	cutting head	75.00/per	500H	0.15
	8	HP cylinder	1500.00/per	2,000H	0.75
	9	Check valve main body	900.00/per	2,000H	0.45
	10	High pressure assemblies(1 set) （imported）	200.00/set	1000H	0.2
	11	One-way valve assemblies(1 set)	30.00/set	500H	0.06
	12	other			1
USD 10.54/H(420Mpa cost)					



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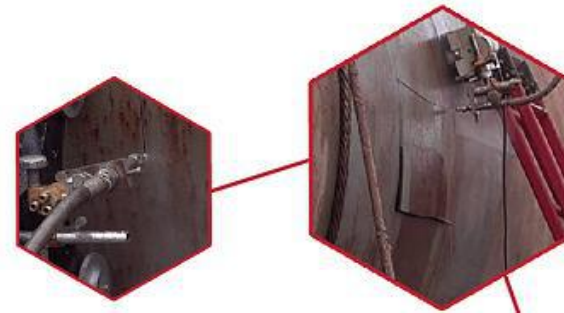
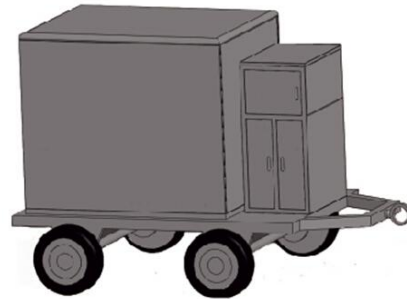
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UHP Potable waterjet cutting machine

Ultra high-pressure scene waterjet cutting equipment appearance and composition

1. Three piston pump
2. 22KW motor
3. Front Pump
4. abrasive feeder
5. Control system
6. Actuator
7. Toolbox
8. Move Trailer



The significance of the scene cut of portable waterjet cutting machine

Waterjet scene cut is limited and constrained by environmental conditions, and because of this, the waterjet scene cut has unique significance. Sometimes, there is pressure, toxic, flammable and explosive things, and other known and unknown factors, under this situation, portable waterjet cutting machine can be used. Traffic accident scene, not to cause an explosion and rescue trapped people, cold cut is needed, cut shells for risk, sudden emergency (fire, earthquake, etc.) the site also requires the demolition site broken water cutting jobs, in short, on-site water cutting operating is widely used because of no heat.





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AFTER SERVICE WARRANTY

1. The seller is liable for troubles resulting from performance and quality deficiency within **TWO YEARS (2500 hours)**. In this case the seller offer diagrams or other paper materials and solve the problems by phone, fax or email with buyer's help at site of operation. Buyer is liable for troubles resulting from improper operation. In this case the buyer shall carry repair expenses and the seller shall provide timely support not later than 7 days from time of trouble. (Please see warranty for HP components' useful life)

2. The seller offer technical support for life without charge.

3. The buyer can purchase spare parts and wearing parts from parent company or its branches and agents. The prices and service fees are the same form branch to branch.

b. Training

Seller offer demonstration disk, tool kit, toolbox and some spare parts without charge.

Seller also provides 7-10days training for setting up, operating and maintenance.

Buyer has two choices for training:

1. Seller's engineer goes to Buyer's place, Buyer shall afford visa cost, round-trip air-tickets, food & hotel

2. Buyer comes to Seller's company and the fees under his account. Training period is 7-10 days.

Training contents

- intensifier principle
- introduction of every parts
- wear parts changing
- common trouble removal
- table maintenance



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- on-off valve, cutting head and abrasive controller maintenance.
- drawing designing and programming
- software operating, parameters setting and saving
- Equipment practice

we now have after-service department in America, Russia, South Africa, Ecuador, UK, Argentina, Chile, Mexico, Australia, Saudi Arabia, Malaysia, Vietnam and you can enjoy local service!