

## Cantilever Waterjet cutting machine technical specifications



The CANTILEVER type waterjet machines are ideal for cutting marble slabs, granite and glass because of its ease of access to the cutting table by having a fully accessible side of the machine.

## Cantilever Waterjet cutting machine technical specifications

Model	C06*08	C12*12	C15*15	C15*20	C15*25	C15*30	C15*40	C15*60	C18*30	C20*40
<b>Cutting Range</b>	0.6 m x 0.8 m	1.2m x 1.2m	1.5m x 1.5m	1.5m x 2.0m	1.5m x 2.5m	1.5m x3.0m	1.5m x4.0m	1.5m x 6.0m	1.8m x3.0m	2.0m x 4.0m
<b>Maxi travel -X</b>	650mm	1250mm	1550mm	1550mm	1550mm	1550 mm	1550 mm	1550mm	1850 mm	2050mm
<b>Maxi Travel-Y</b>	850mm	1250mm	1550mm	2050mm	2550mm	3050mm	4050mm	6050mm	3050mm	4050mm
<b>Travel of Z axis</b>	180-200 mm(Customized)									
<b>Machine Type</b>	Cantilever/fly arm, Three axis									
<b>Dry Running Speed X / Y / Z (mm/min)</b>	X and Y:0 - 10000mm/min; Z: 0 - 5000mm/min									
<b>Maxi cutting speed (mm/min)</b>	0 - 5000mm/min									
<b>Maxi loading (Kg)</b>	1000kgs per m <sup>2</sup>									
<b>Standard beveling head</b>	By manual you can tilt the head for beveling on X or Y axis									
<b>Precise and accurate movements</b>	Linear guide and ball-screw shaft									
<b>Complete protection of precise movements</b>	Unique system of protection against dust, water splashes by all stainless steel covers and rubber seals									
<b>Lubrication system</b>	Auto-lubrication for all axis									
<b>Tolerance of movements of the axes</b>	Axis X & Y ±0 .03 mm									
<b>Accuracy of repositioning</b>	± 0.0254 mm (±0.001")									
<b>Limit switches</b>	All absolutely value servos, CAN open, Ether CAT, MII									

1. The Machine came complete, Cutting Table CNC, CNC control, High pressure pump with fan cooler, abrasive delivery system and all piping and wire connection.

2. Linear guide and ball screw shaft are brand HIWIN and TBI

3. Servo motor on XYZ are Brand "MITSUBISHI", "WISE", "PANASONIC" or "YASKAWA"

4. All Axis longer than 6000 MM long, will be Tempered toothed rack and pinion

## Technical specifications of the Ultra High Pressure pump 420 MPA

<b>Nominal power of the main engine</b>	37 kW(50 hp)
<b>Nominal current of the main motor</b>	380 V/50 Hz- 72 A
<b>Main Engine Brand</b>	SIEMENS/SIEMENS BEIDE
<b>Main engine Low start</b>	SIEMENS Soft starter
<b>Pressure control system</b>	Dual system pressure auto - control (Low/high range 70~380 MPa)
<b>Maximum Circuit Breaker at 380V/50Hz</b>	160 A Schneider Main switch
<b>H.P Control System / Language PLC</b>	SIEMENS PLC Control / English language or OMRON + Touch screen
<b>Inlet Water Pressure range request</b>	3.0~6.0 bar
<b>Inlet water pressure after Booster</b>	6~10 bar
<b>High Pressure Attenuator volume</b>	1.49 Liter maintenance free attenuator
<b>Inlet water Filter assembly</b>	5 $\mu$ m, 1 $\mu$ m, 1 $\mu$ m 3 filters
<b>Request for water treatment</b>	According to the requirement of inlet water quality
<b>Intensifier bearing pressure</b>	420 MPA (4137 bar/60000psi)
<b>Hydraulic High Pressure piping</b>	3 layers steel wired hydraulic piping
<b>Outlet High Pressure tubing</b>	1/4" High Pressure tubing imported
<b>High Pressure tubing Inside Pump</b>	3/8" High Pressure tubing imported
<b>Display information</b>	Inlet water pressure, outlet high pressure, oil pressure, oil temperature

**Pressurization / intensifier rate**

Hydraulic 1:20 (oil : water)

**Intensifier Type**

50 hp Short type

**High Pressure stable**

25~380 MPA (3500~55,000 psi)

**Hydraulic Tank Capacity**

120 Liter

**Maximum water flow rate**

3.5 liter /min

**Temperature of machine working**

Min. 5 °C (40 °F) maxi 40 °C (104 °F)

**oil Pump brand & model**

Liyuan-Rexroth Type: A10V or Rexroth

**Directional valve**

SUNNY(U.S.A) or Rexroth

**Oil Type and Brand**

46# anti-wear hydraulic oil

**Controlled oil temp range**

25~50 °C

**Maximum Flow Rate at 1440rpm**

156 liters / min

**Maximum Torque**

160 Nm

**Maximum noise level**

75 dB (A)

## Technical specifications of the CNC control

<b>Easy and friendly Control</b>	Operator select the material, thickness, Press START and the machine do the rest.
<b>3D cutting</b>	Only in five axis AC machine
<b>Simulator</b>	standard in all machines
<b>Abrasive flow regulator on line</b>	Adjust button from 0 to 100%
<b>CNC</b>	NC Studio PC Based Windows English Language
<b>Extension file accepted</b>	dxf. nce. nc. cnc. eng. plt. G-code etc.
<b>Dynamic speed</b>	Dynamically controlled to speed corners and small radius
<b>High Pressure control</b>	Pressure adjustable in cutting software from 0-100%
<b>All alarms protection</b>	All alarms can be read from software
<b>engrave</b>	with the same program the operator can chose low pressure and make engrave
<b>possibility of cutting with water only</b>	Just chose only water cutting
<b>Z automatic safety</b>	Using this to avoid collisions
<b>USB</b>	Two USB
<b>Industrial computer configuration</b>	Intel dual-core, 4G RAM,1T,19 inch screen
<b>Keyboard wireless</b>	All standard machine, and wireless mouse
<b>Remote control</b>	All standard, easy for service by factory

## Optional

Garnet Auto Feeder 200 L /1000KGS

Height Positioning Device

Water cooler 10-15 °C - Chiller (3HP/5HP)

Laser Pointer

Automatic water level submerged cutting

Additional independently head

Additional head simply added

Five Axis Head AA with compensation cutting, titling with 10° ,professional for marble medallion, ceramic pattern cutting

Five axis head AC with compensation cutting, beveling cutting, 3D cutting

Hydraulic automatic sheet loader for working materials

100HP pump with dual-intensifiers

ESA and ECS system

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