

## CNC Waterjet Cutter (High Configuration) 51"x51" (1300x1300mm)

Item Code: CNCR-SQ1313



FOB Price: **\$45,008/set**

Mini Order: 1 set

Average Rating: lb (kg)

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### Overview

#### Description:

The Waterjet cutting machine has five components: UHP pump, automatic abrasive delivery system, machine tool, CNC control system, and cutting head.

The multifunctional great performance Waterjet machines use cold supersonic abrasive erosion, to cut almost any material, both metal and non-metal. The highly pressurized water stream carries an abrasive garnet to etch away the material. Our machines have been exported to America, Russia, Oceania, Africa, Mid-east, and other parts of the world.

#### Applications:

This series of waterjet cutting machines have applied in different fields, such as: aviation, weapons, and sophisticated military affairs. It is also widely used in glass, machinery, stonetch, advertising, automotive. Specially designed for materials that cannot be cut by using heat.

Maximum cutting thickness: can cut almost any non-metal or metal materials, except tempered glass.

Aluminum: 5.9" (150mm), glass: 4.7" (120mm), steel plate: 3.9" (100mm), stainless steel: 3.1" (80mm).

#### Configuration Information of Waterjet Machine

UHP System			
Name	Brand	Place of origin	Remark
UHP intensifier	JET imported from USA	USA	Maximum v 400Mpa(60
UHP reversing sensor	CONTRINEX	Switzerland	It can bring
LP System			

Name	Brand	Place of origin	Remark
3 Phase AC Motor, 37KV	Siemens	Proprietorship of Germany	
Displacement pump	REXROTH	Proprietorship of Germany	
Electro-hydraulic reversing valve	REXROTH	Imported from Germany	
Eletromagnetic relief valve		Imported from Germany	

### CNC System

Name	Brand	Place of origin	Remark
Control system	Washing	China	
Program software	CNCKAD	Israel	
Servo motor	Yaskawa	Japan	
Servo drive			

### Electric

Name	Brand	Place of origin	Remark
PLC	Siemens	Germany	
Breaker	OMRON	Japan	
Relay			
Fuse			
Power supply			
AC contactor			
Temperature controller			
Proximity switch			
Thermal protection			

## CNC Machine Tool


Name	Brand	Place of origin	Remark
Ballscrew	ABBA	Taiwan of China	
Linear motion guide			

### Features:

- . Waterjet machines generate no distortion, but may have hazing near the cut. No internal stress built-up.
- . Waterjet cutters work well in non-conductive and conductive materials.
- . Can pierce materials directly without other drilling equipment.
- . Easy setup and rapid programming.
- . Minimal fixing requirement.
- . Waterjet cutters are able to compete, with other cutting devices that have good accuracy, fast setting-up, and cutting speed, and yields no HAZ.
- . Waterjet machines cut five to ten times faster than EDM, when the media thickness is under 1".
- . High light 8 LCD display. Feeding rate can achieve adjustment of magnification at any time.
- . Via COM, USB interface and PC or U disk for interface directly.
- . A hand-held machine tool controller is used to control the X, Y, Z axis, previously moved to the machine side by operator.

**Cutting head:** Consists of one HP control valve, HP water on/off valve (one set), one tee, one mixing chamber, one orifice mount, one nozzle, one diamond orifice.

### Nozzle and Diamond Orifice Size

Nozzle size	Diamond orifice size	
.025"×0.03"×3" (6.35×0.76×76.2mm)	0.01" (0.254mm)	
0.25"×0.04"×3" (6.35×1.016×76.2mm)	0.01" (0.305mm)	

### CAM Software:

It is compatible with many international design software formats , such as ASC, IGS, DXF, DWG, STL, NFL, PRT, STEP, etc.  
 It has the function of a cutter with automatic radius compensation.  
 Automatic lead-in line insertion.  
 Automatic calculation of the cutting line length .  
 Automatic nesting interface.

### Installation and Training:

We will dispatch two engineers to the users' company for installation and training. The user has to provide return tickets, accommodation, local transportation and meals. The installation and training are free of charge, and will take about 10 days. The user also needs to provide a translator, otherwise we will send one, and the user will pay the corresponding fee according to the standard of the engineer.

### Samples



Marble	Metal	Glass
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Details

Manner of Receiving Data	USB
Driver	Servo Motor
Cutting Thickness	5.9" (150mm)
Max. Cutting Speed	393.7" (10m)/min
Max. Cutting Area	51"x51" (1300x1300mm)

Specifications

Model	CNCR-SQ1313
Cutting scope	51"x51" (1300x1300mm)
Machine type	Cantilever style
System control	AC servo system
Running speed	(0-393.7") 0-10m/min
Control accuracy	+/-0.002mm
Cutting accuracy	+/-0.1mm
Maximum pressure	400Mpa(6000psi)
Motor power	30KW
Max. flow rate of UHP water	3.8L/in
Power supply	380V, 50Hz
Certification	CE, SGS
Packaging	Packed by PE Film



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Loading type

374.8lb (170kg) (Control Cabinet)  
352.7lb (160kg) ( Auto abrasive delivery system)  
2314.9lb (1050kg) (UHP pump)  
2046.1lb (928kg) (Water chiller)