



CNC Waterjet Machine

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## Abteen



**Water jet machine**, a device that is used to cut a variety of materials. The basis of this machine is a strong pump, water out from the pump with the high pressure, Same amount of Abrasive mixed with water and comes out of the nozzle. High pressure water carrier the abrasive, it is rapidly being cut into pieces to be shipped, In fact, high speed abrasive, cause wear and finally work piece be cut. Cnc cutting machine, acts as a carrier cutting nozzle and control with high precision through advanced software. These devices are made in different models, one of which is Abteen model.

The Model of the Water jet because of the optimization of the machine design it's made Fly Arm with unique features. Method of transmission and the accuracy according to the order, can be changed to the rack and pinion transmission system. In this case have lower accuracy 0.3mm.

### Advantages:

- Less installation space
- allow easy loading and unloading
- Easy Maintenance
- Easy emptying the contents of the desktop
- Ability to use the Rack and pinion.
- the low dissipation devices
- capabilities easy maintenance due to modular system of electronic circuits that can be easily
- professional Software with a some layout
- Less than pricing than ABGOON Model(gateway).



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## Machine Specifications

Voltage	Ac 380 v 50hz
Motors	AC Servo Motors
Feedback	In coder 10000 Pulse/r
Maximum machine speed	10000 (mm/min)
Maximum cutting speed	5000 (mm/min)
The maximum error in each axis	0.1 (mm)
0.01 (mm)	the Maximum error of control system
Software	Simorgh

## Technical info

### Technical information water jet

Model name	Abteen
Dimensions	3000 mm *2000 mm
Dimensions Of machine	3800mm(W)*4300mm(L)*1400mm(H)
Number of cutting head torch	1
weight of the moving machined	250 kg
Total weight of Machine(rails and desktop)	1600 kg
Operating voltage	AC 220 V, 50HZ
Max speed of machine	10000 mm/min
The maximum error of machine in each axis	0.1 mm
The maximum error of control system	0.01 mm
Maximum thickness of cutting	Depending on the power of water jet pump
Cutting devices	cutting head –pipe –valve–nozel
Stop and connect water flow system	automatic
Cutting head height control system	Electrically by the operator
Automatic cutting head height control system	Installation (to order)
Additional panel screen for easy operator access	8 major and minor direction for cutting without a computer
Rapid increase system to three times of the speed	By key of the panel control



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General information devices

Soft ware info

Software is installed in win xp and 7
Array to optimize the cut pieces of plate
Possible to set the starting point of cutting, the cutting distance of the main
Priority to other forms of cutting
Scale mode
Design parts or use the patterns
cutting Information ; length cutting, work time, cutting time and ...
System information from files produced by AutoCAD (transfer with flash, CD or network)

MOTION MOTORS

**Technical information Components**

Country	Brand	Power	Rotational speed	ampere	Working voltage	Motor type
Taiwan	Delta	750W	3000 r.p.m	4A	220 v Ac	Ac servo motor

1375EN Model



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Gallery



GREEN Model



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Sample

