

ASEMAN MODEL



The Water jet machined do not change the material properties contrary laser, the HAZ can not be seen in pieces. ASEMÁN Model is bigger in size and are produced using the rack and pinion. In this model, customers can choose from two types of engine, Ac Servo Motors and Stepper motors can be used.

Water jet devices have many advantages that are less known in Iran. Some features of this device include:

Possibility of cutting most materials. water jet against laser devices, are enable to cutting reflection materials such as metals. Also, it can also cut heat sensitive materials.

The ASEMÁN model of the rack and pinion instead of Ballscrew have a more speed but slightly reduced for cutting accuracy.

The benefits

- high cutting speeds for various thickness
- No limitations of various forms of cutting
- No limitations in size of the machine undertaking
- Lower investment costs
- cutting a wide range of materials (from steel, plated or stainless steel to glass and ceramics)
- the possibility of a mass-produced parts

- Ability to minimize the waste forms using the Layout
- Lack of environmental pollution
- No thermal cutting in pieces

Technical information water jet Technical information water jet

General information devices

Model name	Aseman
Dimensions	3000 mm 2000*mm
Dimensions Of machine	4120mm(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	10000mm/min
The maximum error of machine in each axis	0.1mm
The maximum error of control system	0.01mm
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

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)

Technical information Components

MOTION MOTORS

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

Gear box

coupling Type	Gear Ratio	Gearbox type	Manufacturer
Straight	1: 10	Belt timing	Borna Abzar

power transmission

type	Brand	Country	Part name
LM Guide 20	HIWIN	South Korea	Rails
Ball Scow	HIWIN	South Korea	power transmission

Mechanical Info

type	Part name
Billets	Electronic box
Billets	Other frames
St37	Holder columns
ST37	Under table Machine
Integrated structures machining	The main structural Machine

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