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CNC Machin Manufacture

New World. New Tool...



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Water jet - ABGOON MODEL

- ABGOON



Water jet

CNC water jet cutting machine is very advanced answer to all needs are cutting. This device, having the optimal layout software that possible the reduce waste in the raw materials, most valuable has. Also easy to replace the maps of the production, the device can be easily prepared for different parts. Efficient use of time and resources in the industry for the production is the basic success factors for each industrial unit. But today to this factors added two other factors: • reduce waste • Flexibility of production Abgoon model devices are produced by using Ballscrew and having a great accuracy. But in a large scale there is not possible to production. This motors of this model is Ac Servo Motors that is the newest control's motor in the world.



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Advantages:

- High Accuracy
- Lower depreciation (relative to the shoulder gear models)
- No limitations cutting of various forms
- Cutting a wide range of materials (steel, stainless steel and ceramic)
- The possibility of produced mass of parts
- Ability to minimize the waste between forms by using the Layout
- Lack of environmental pollution
- no Heat affected zone(haz) on the parts
- excellent quality of cut surface that a cut to pieces can be used without need machining.

Machine Information

| | |
|--|---------------------------|
| Working voltage | Ac380 v 50hz |
| Motion engines | AC Servo Motors |
| feedback | Incoder 10000 Pulse/r.p.m |
| 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) |
| Soft ware | TCMC |



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Technical information water jet

General information devices

| | |
|--|--|
| Model name | Abgoon |
| 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) |



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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 | BornaAbzar |

power transmission

| type | Brand | Country | Part name |
|------------|-------|-------------|--------------------|
| LM Guid 20 | HIWIN | South Korea | Rails |
| Ball Scow | HIWIN | South Korea | power transmission |

Mechanical Info

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



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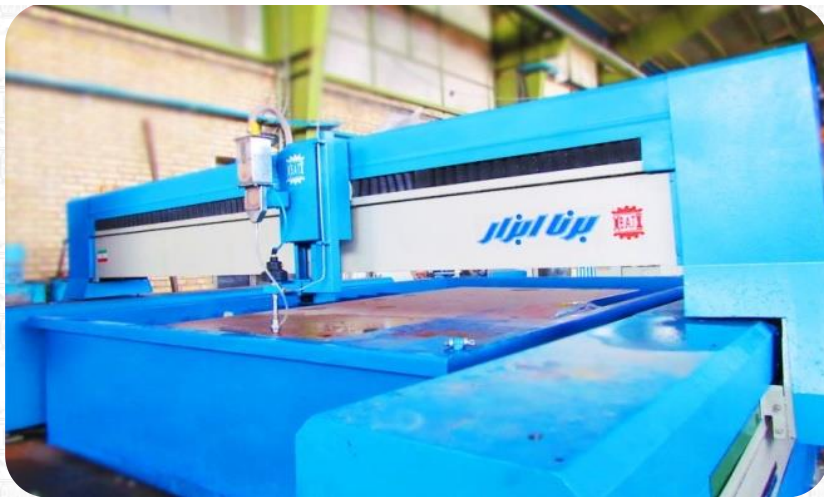


ABGOON Model

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GALARY





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Sample:

