

## CNC Vertical Drilling and Milling Machine

### 1,Description:

Baineng CNC glass drilling and milling machine with high technology. It can perfectly perform complicated working in short time, and the processed sheet is of high level which realized to obtain a CNC machine with smallest investment.

The Vertical CNC working center applies numerical operation and control system to achieve dynamic management of each axis and speed precision control. So the shape is of precision and the processed sheet is of high quality. It is a CNC vertical drilling and milling machine to process simple and complex drawing and featured by the most advanced technology. It is a solution to the requirement on processing precision, high speed and ease operation.

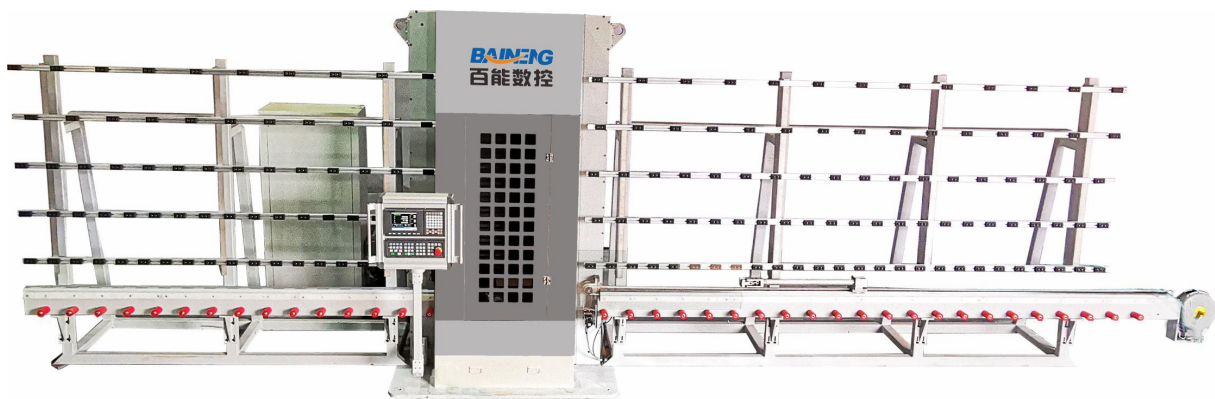
The machine can automatically process complex drilling and milling functions on large flat glass. When the glass was loaded on the feeding rack, the machine begins to execute the prepared program on drilling, milling, etc.

The flexibility of the control system can meet the requirement of different products, the whole work is finished automatically. This machine is suitable to process structural glass (Frameless door, glass curtain wall etc.) The function including:

- Drilling;
- Milling

### 2,Structure

The vertical glass-working machine; with all the main part protectively covered. The structure is convenient to load and unload the machine and occupied less area. It also can reduce the obstruct and easy to process the glass sheet, or even advantaged to the coolant water system.



### 3,Software

BAINENG Software is developed by our IT team.It has common patterns in the system.So you only need to input the parameter then the best route is generated automatically.

Baineng software is easy to learn and operate.You just need to transfer CAD2000.dxf to Baineng software ,then it can automatically generate the codes.

Operation process:

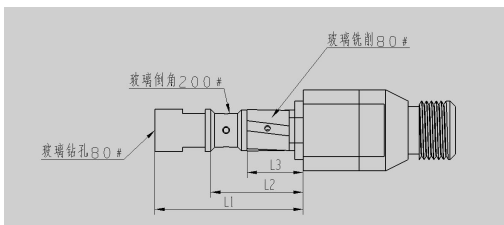
File import→select the lines→set the parameters→update the parameters→generate the codes

- 1) Install Baineng CAM software on Windows system,the user can draw various shapes on CAD,then generate the code by CAM to start processing automatically.
- 2) Developed Proprietary MARCO software for the commonly used doors,like Shower Door,Overhang-Door,Floor Hinge etc.,it can be filled correct size while processing,not need make CAD drawing.
- 3) Developed Scanning code recognition function for small batch orders.

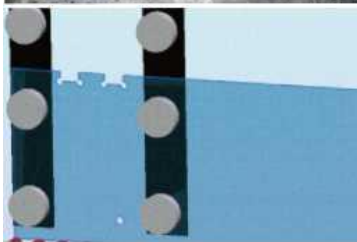
## 4.Functions

The machine can be used for drilling,milling,notching,arising on flat glass.So it's the best solution for holes,notches and cutouts.

**Some tools for Processing:**

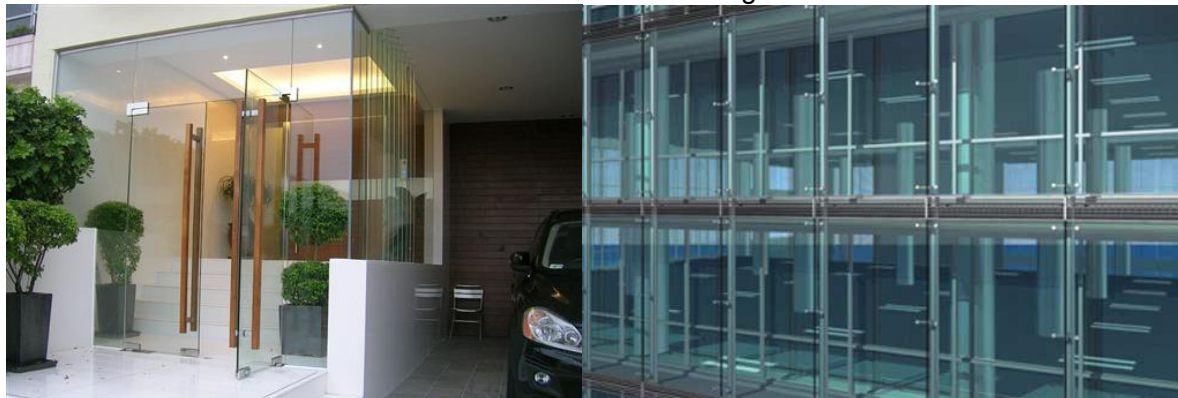


**Processing on Glass:**



## 5,Applications

The machine can be applied for mass production for frameless shower doors, Sliding door, glass curtain wall.etc. So that it can save a lot of labors and costing.



## 6,Components for machine

Description	Brand	Made in
Linear Guide	Hiwin	Taiwan
Ball Screw	HIWIN/TPI	Taiwan
Servo Motor	Mitsubishi/Syntec	Japan/Taiwan
Bearing	NSK	Japan
Sliding Block	Hiwin	Taiwan
Control System	Syntec	Taiwan
Control Electrical	SCHNEIDER	France
Image Converter Software	BAINENG	China
Spindle	Baineng	China
Synchronous Belt		China
Air Cylinder	Airtac	Taiwan
Synchronous Wheel		China
Water Pump		China
Steel Plate	Baosteel	China
Protection Cover		China

## 7. Parts with machine

Description	Quantity	Remark
Gloves	1pair	
Adjustable cushion	4pcs	
X axis synchronous belt	1pcs	
Toolbox	1box	
Adjustable wrench	1pcs	250*30(mm)
Allen wrench	9pcs	S1.5 S2.0 S3.0 S4.0 S5.0 S6.0 S8.0 S10.0 S.12
Inner Allen screw	Some pcs	M6*10,M6*20
Allen Nut	Some pcs	M10*20,M6*10,M6...
Thread seal tape	1pcs	
Water Pump	1set	
Transformer	1set	
spindle water cooled machine	1set	
3functions in one tool	3pcs	Including milling,drilling,chamfering

## 8.Technical parameters

	机型 MODEL	BN-V3015	BN-V3712	BN-V3720	BN-V4720	BN-V4525
	最大玻璃加工尺寸 Max Glass Size	3000*1500mm	3700*1200mm	3700*2000mm	4700*2000mm	4500*2500mm
	最小玻璃加工尺寸 Min Glass Size	500*500mm	500*500mm	500*500mm	500*500mm	500*500mm
	主轴转速 Speed Of Spindle	0-12000/Min	0-12000/Min	0-12000/Min	0-12000/Min	0-12000/Min
	总功率 Total Power	11KW	11KW	13KW	13KW	13KW
	主轴功率 Spindle Power	5.5KW	5.5KW	7.5KW	7.5KW	7.5KW
	空气压缩 Air Compression	0.7Mpa	0.7Mpa	0.7Mpa	0.7Mpa	0.7Mpa
	机器重量 Machine Weight	6000KG	6500kg	7000kg	7500kg	8000kg
	机器尺寸 Machine Size	8700*1700*3300mm	9400*1900*3000mm	9400*1900*3800mm	10400*1900*3800mm	10200*1900*4300mm
	玻璃厚度 Glass Thickness	4-30MM	4-30mm	4-30mm	4-30mm	4-30mm
	用电标准 Electricity Standard	380V/50HZ	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
	轴数 Number of Axis	3AXIS	3Axis	3Aixs	3Axis	3Aixs

## 9.Prepare for Training and installation

- 1) Prepare 8pcs steel plates in size300\*300\*5mm.Put the plates to the bearing feet of machine.
- 2) Compressed air to 0.7-0.8MPA or Prepare Air Compressor.
- 3) Air Pipe in 10mm Diameter(Length will according to installation space).
- 4) Power Circuit:3\*6<sup>2</sup> & 2\*4<sup>2</sup>(Length will according to installation space)
- 5) Independent power control circuit breaker(3P45A)
- 6) A 10-20tons Jack Lifting(Adjust the level of machine).
- 7) Windows7 with 32bits computer

## 10.Detailed principle

- 1)Free warranty for 1 year after installation
- 2)The buyer shall take charge of round-trip airplane tickets, hotel, food and local traffic.
- 3)Installation and training charges : USD100/day/person besides all the costs motioned in 2.
- 4)Working days: The engineer should work from Monday to Friday. Eight hours per day.
- 5)Hotel requirements : standard business hotel, with independent bathroom, shower is available, cleaning, middling level on local

## 11. Pictures of real machine:

