

## 1.Machine Pictures:



锯片可0°-90°倾斜, 0°-360°全自动旋转定位  
Saw blade tilt 0°-90°, Rotation 0°-360° automatically.

OPERATOR INTERFACE WITH PC



19" COLOUR TOUCH-SCREEN

PRECISION OF MOVEMENTS WHICH ENABLES  
COMPLEX AND INTRICATE PROCESSING

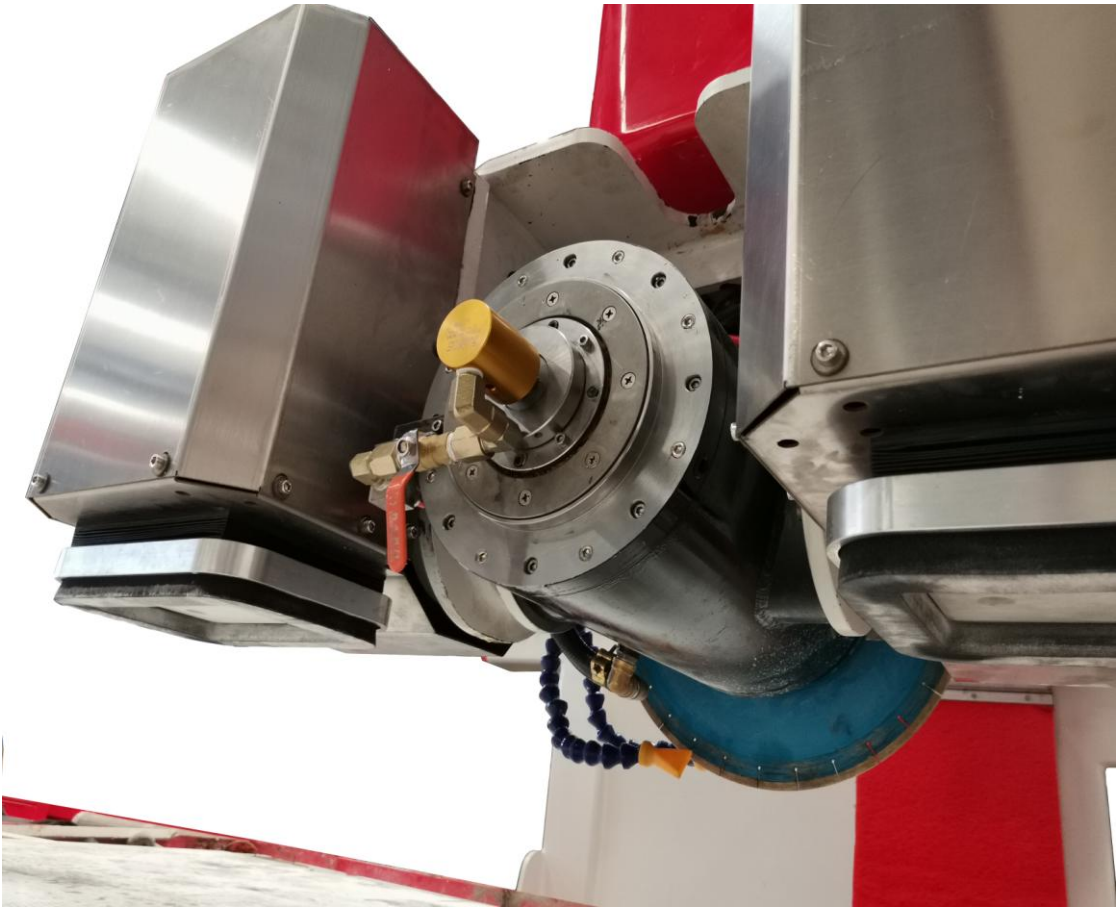
USB PORT FOR TRANSFERRING FILES

Or for Wifi connection

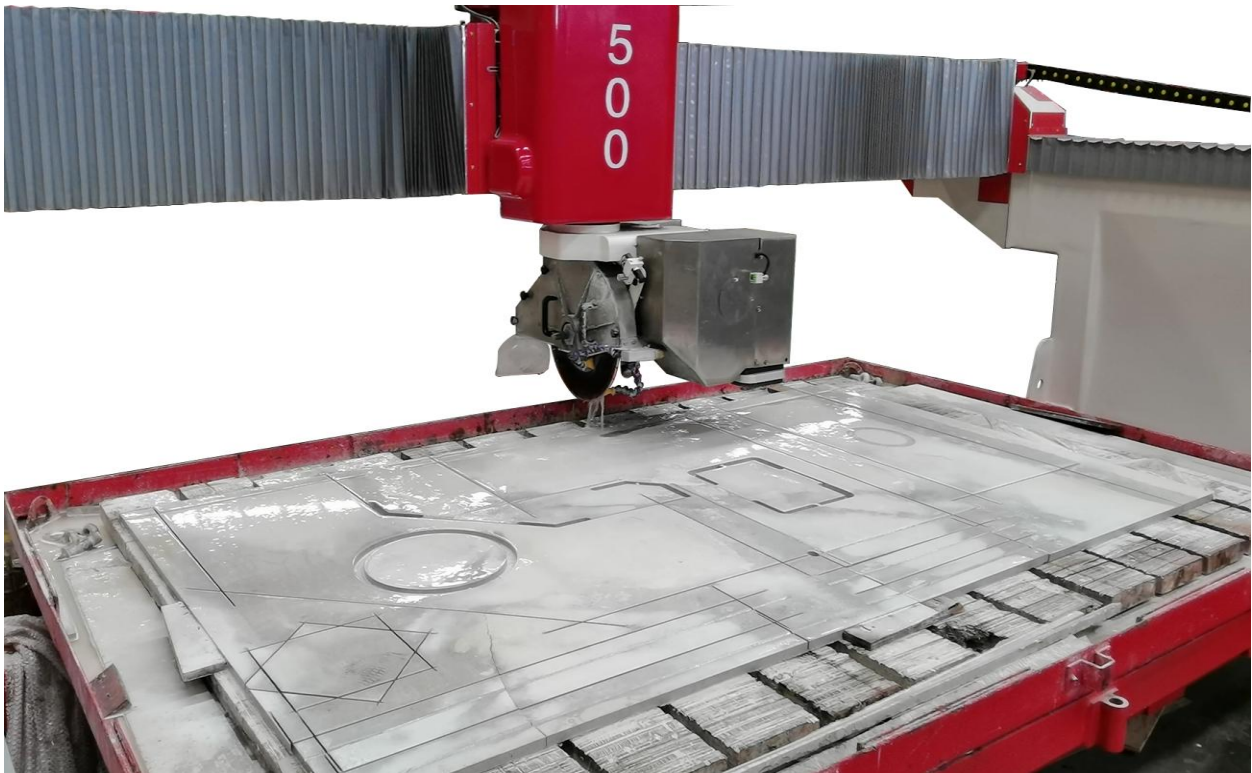


CONTROLS FOR MANUAL MOVEMENT OF AXES









## 技术参数 Technical Parameter

名称	Name	单位/Unit	HKNC-500
锯片直径	Diameter of saw blade	mm	Φ400-500
工作台规格	Dimensions of working platform	mm	3300x2000
最大加工长度	Max. length of horizontal cutting	mm	3300
最大加工厚度	Max. cutting thickness	mm	140
最大升降行程	Max. lifting stroke	mm	250
主机功率	Power of main motor	kw	11
刀架往复电机功率	Power of cutter frame reciprocating motor	kw	2
大梁移动电机功率	Power of crossbeam shifting motor	kw	1.1
液压站电机功率	Power of hydraulic station motor	kw	2.2
升降电机功率	Power of lifting motor	kw	0.85
总功率	Gross power	kw	18
耗水量	Water consumption	m <sup>3</sup> /h	2
机床最大尺寸	Dimensions (LxWxH)	mm	5700x3260x2765
总重量	Gross weight	kg	5400

## 2. Machine Function and Configuration Introduction:

HKNC-500 is equipped with 5 axes (X, Y, Z, C, A) for processing marble, granite and other natural and engineered stones.

It allows a wide range of processing such as slab cutting (straight, squares, ellipse, circle, chamfer), using a diamond disc or drilling tools.

Machine adopts 19 inch industrial computer screen from Italy and Italian imported ESA original servo motors for 4 interpolated axes (X, Y, Z, C) and drivers and also uses original Italian Pegasus brand software.

The machine's functions and configuration is listed as followings.

1. 0° to 90° head tilting, 0° to 360° head rotation.
2. 0° to 85° table tilting
3. 0° to 360° automatic positioning cutting.
4. X, Y, Z axis adopts Taiwin Hiwin linear guide for moving to guarantee high cutting accuracy and moving stability.
5. Main electric parts adopt Schneider brand.

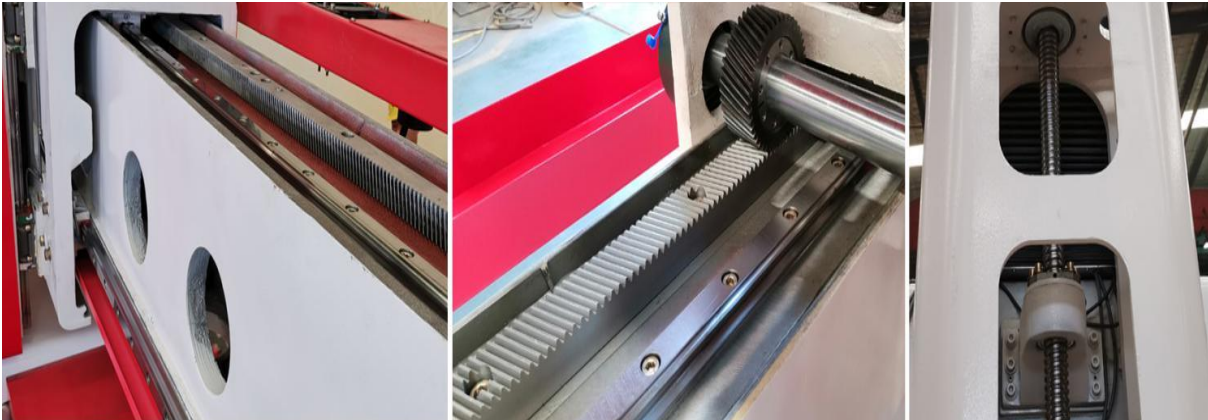
## 3. Machine Structure and Components

- 1) Cross beam is made of cast iron to ensure rigidity and vibration dampening.



- 2) Ball recirculating sliding crosspieces and helical toothed racks ensures fast and precise movements on X, Y axis, with oil bath lubrication and protection by bellows with labyrinth closure.

3) Ball screw/preloaded nut assembled on recirculating roller coupled with linear, guides for the spindle vertical movement in Z axis, with auto grease lubrication.



4) High quality electro-spindles controlled by an inverter allow the adjustment of the nr. of revolutions from 0 to 6000 rpm, so granting the use of blade and diamond tools such as a core drill or milling cutter. The tool change is of manual type.



5) Esa digital servomotor creates a reliable controlling power for X, Y, Z, C axis, which is permanent magnet brushless servo motor with integrated driver.

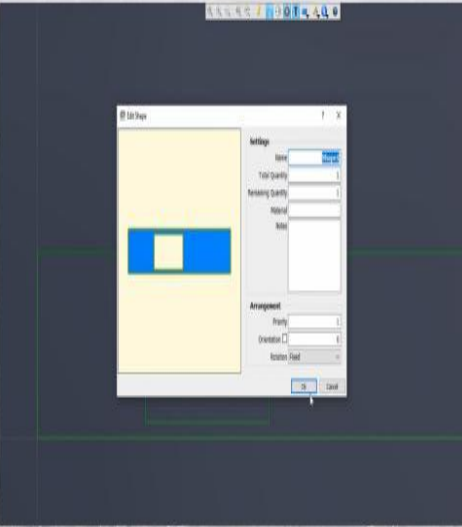



6) Drawing and Design: It is possible to define the machining shapes through 2D CAD tools and parametric Pegasus system

### DEFINE SHAPES

It is possible to define the shapes being machined through:

- 2D CAD Tools







### DEFINE SHAPES

It is possible to define the shapes being machined through:

- 2D CAD Tools
- Parametric macro

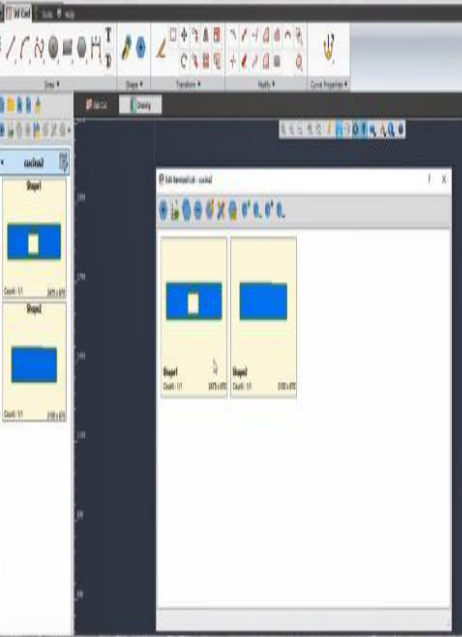





### DEFINE SHAPES

It is possible to define the shapes being machined through:

- 2D CAD Tools
- Parametric macro
- Importing CAD file

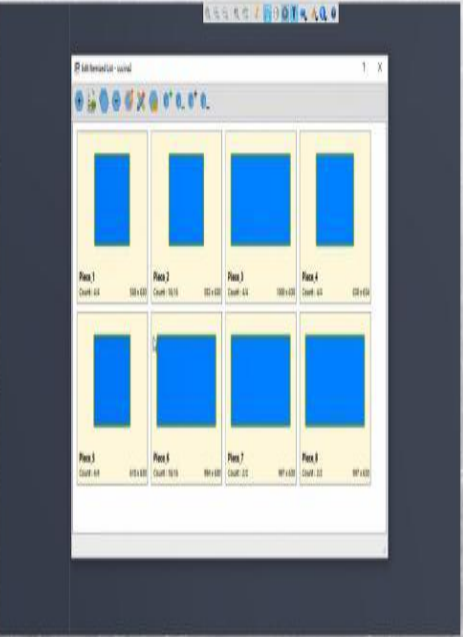





### DEFINE SHAPES

It is possible to define the shapes being machined through:

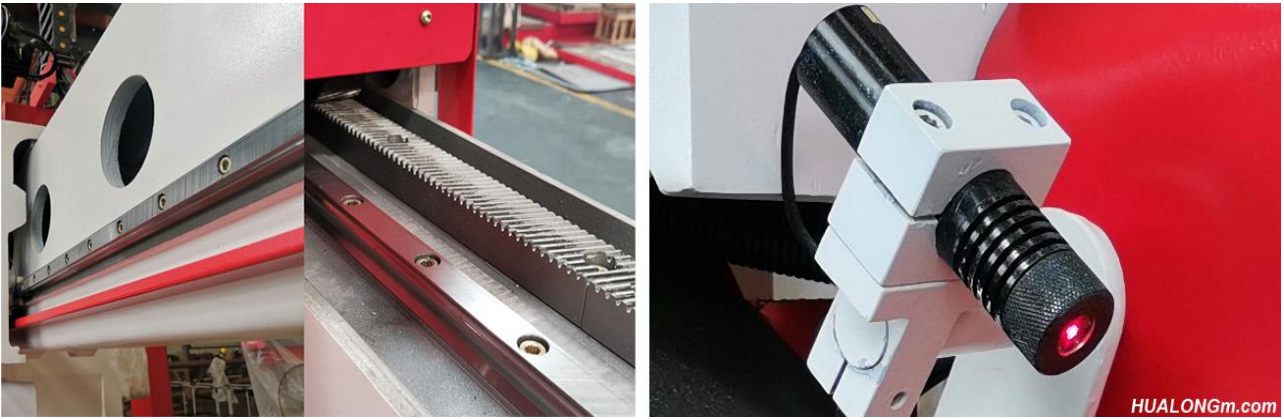
- 2D CAD Tools
- Parametric macro
- Importing CAD file
- Import of a list from a proprietary format: Excel, CSV



	Ref.	Quant.	X	Y
1	Piece 1	4	588	833
2	Piece 2	16	583	833
3	Piece 3	4	1000	833
4	Piece 4	4	830	834
5	Piece 5	4	810	833
6	Piece 6	16	894	833
7	Piece 7	2	907	833
8	Piece 8	2	907	833



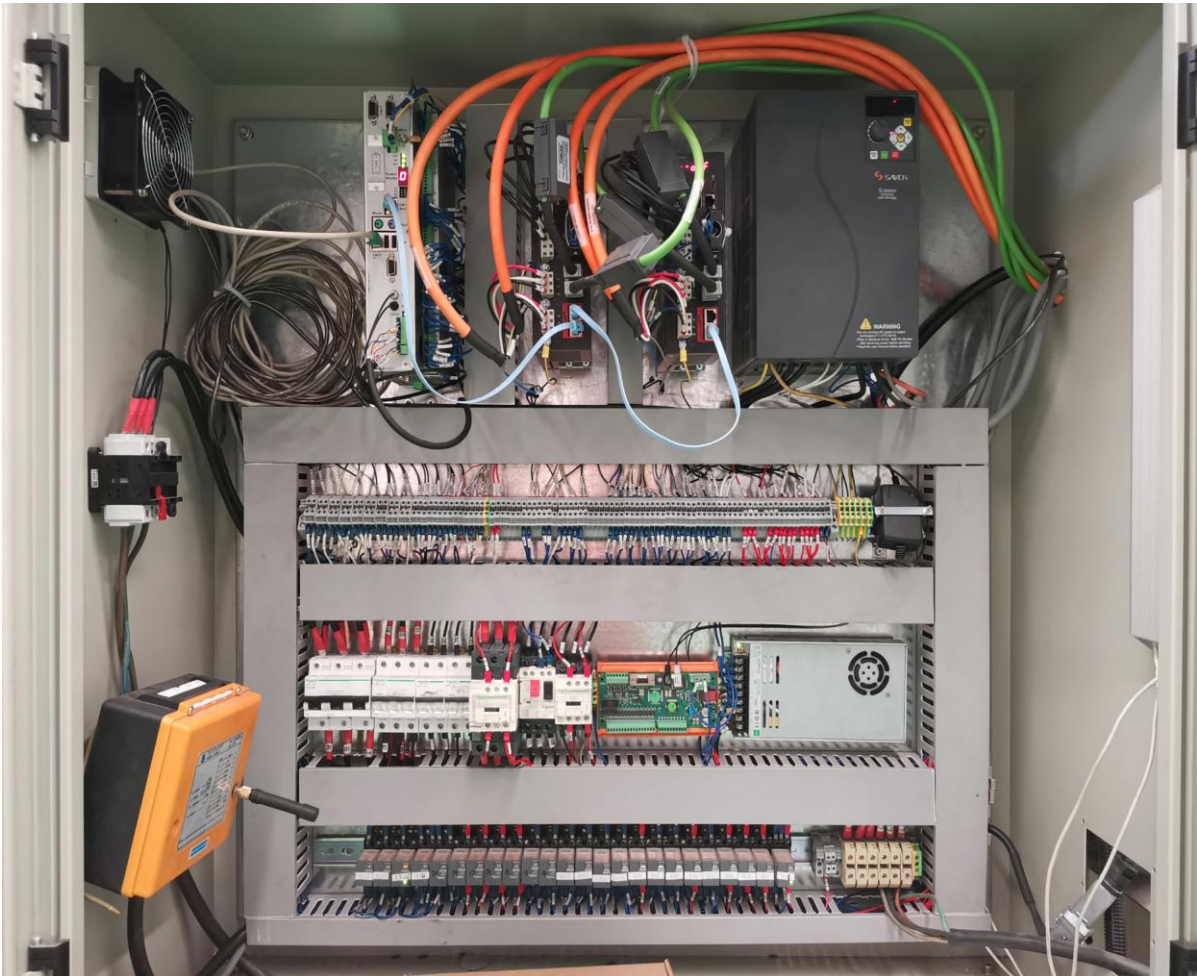
7)



Hiwin Linear Guide

Red Laser Reticule Apparatus

8) Electric Cabinet: Machine main motor is equipped with inverter for speed adjustment. The brand for main electric parts is Schneider.



4.Cutting pictures for reference:

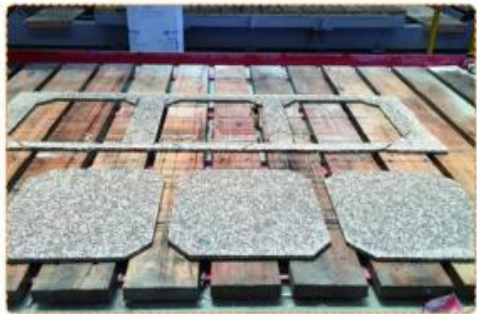
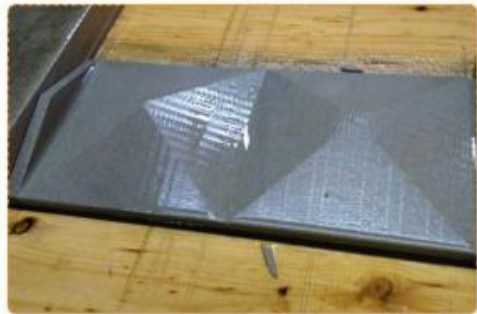
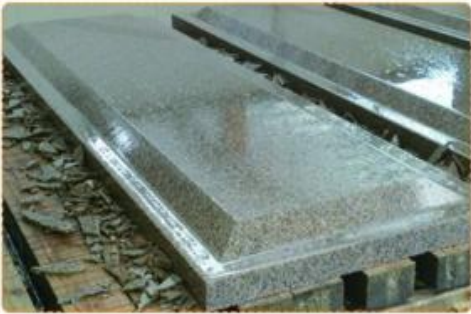










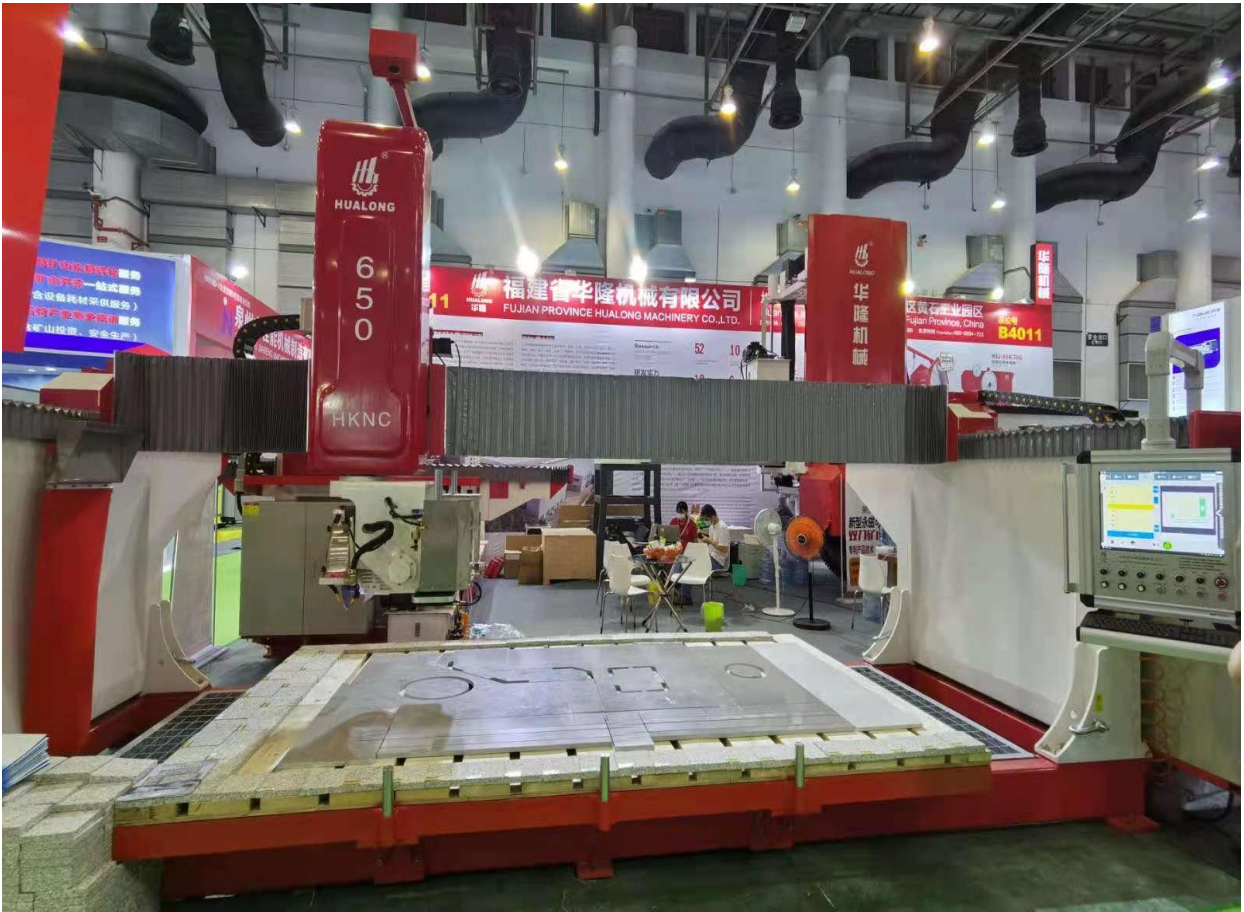












5.Factory Pictures:

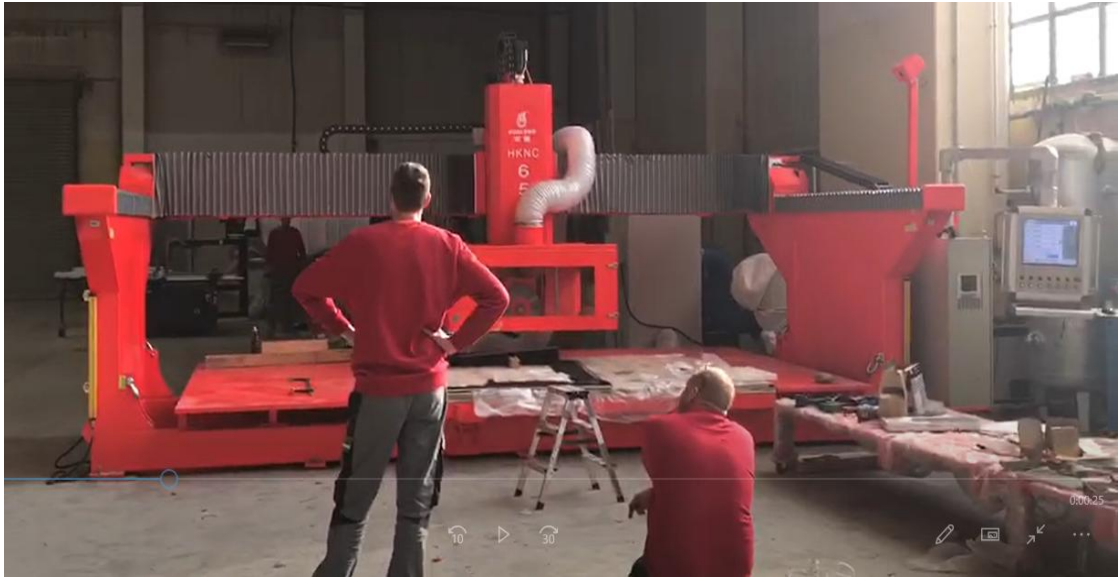




**6. Customers Usage Scenario:**











7. Machine Loading Pictures:



