



FIVE TOOL SIMULTANEOUS PRECISION

CNC LATHE



HANBS

Zhongcong scientific and technological innovation leads The Times

GUANGDONG ZHONGCONG INTELLIGENT EQUIPMENT CO., LTD

ADD: No.,13 13 Wenti Road, Shuikou Village, Dalang Town,

Dongguan City, Guangdong Province

TEL: 0769-39029879 ext. 888 marketing department

E-mail: info@hanbs.com

Web: www.hanbs.com www.hanbscnc.com



中聰品牌設計 188 0769 3058



GUANGDONG ZHONGCONG INTELLIGENT EQUIPMENT CO., LTD

Due to the needs of the market and product improvement, the photos, technical parameters, and descriptions of the products listed in this manual may be changed without notice. The final interpretation right belongs to our company!



FIVE TOOL SIMULTANEOUS PRECISION CNC LATHE

Model parameter list			
Machine type	HS-W15	HS-W20	Remarks
Maximum machining diameter	15mm	20mm	
Maximum machining length(including core mode)	50mm		
Tapping ability(spindle forward and reverse mode)	M6		Copper
Tapping ability(simultaneous rapid tapping)	M5		Copper
Maximum spindle speed	6000rpm		
Threading function	Have		
Multi-tool synchronous processing function	Have		
Z1, Z2, Z3, Z4, Z5 axis travel	50mm		
X1, X2, X3 axis travel	30mm		
X4 axis travel	46mm		
X5 axis travel	35mm		
Back axis travel	150mm		
Turning tool size	8x8		
Bore arm diameter	Φ5 (Three)	Φ6 (Two)	
Side milling function	Optional		
End milling function	Optional		Cyclone mill can be added
Back spindle	Optional		
Back multi-axis drilling	Optional		
Quick tap in the same direction	Optional		
Long bar processing	Optional		An automatic take-up mechanism is required
Automatic feeder	Optional		
Receiving box	The lower version is the higher version		
Automatic feeder	Optional		
Numerical control system	Zhongcong research (A5 1.0 version)		
Number of control axes	Servo bus 12 axes		
Programming mode	5 channel G code programming		Each axis can be individually programmed
Linkage mode	Synchronization can be specified between channels		
Spindle power	2.0kw with servo indexing		
Rear platform shaft power	1.0kw		
Z1, Z2, Z3, Z4, Z5 axis power	400W		
X1, X2, X3, X4, X5 axis power	400W		
Maximum total power	7.6kw		
General power consumption	2.0kw		
The amount of oil in the tank	75L		
Machine size	1550 × 1060 × 1650		
Total machine weight	1.6 Ton		

Internal drawings are standard



High profile interior drawing



COMPANY PROFILE



R&D



Design



Quality



Service

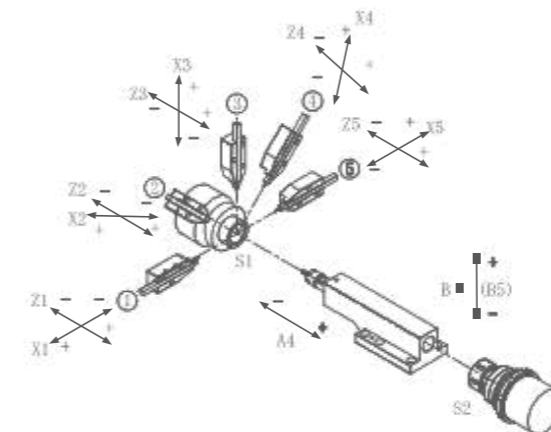
Guangdong Zhongcong Intelligent Equipment Co., LTD., a national high-tech enterprise, is located in Dalang Town, Dongguan City, the center of Guangdong-Hong Kong-Macao Greater Bay Area. The company integrates the research and development, production, sales and training of CNC machine walking in one, dedicates itself to the field of high-end precision CNC machine walking, and strives to build a Chinese national brand. The company was founded in 2013, the existing patents more than 90, over the years has been to use good materials, with good intentions of the principle of two uses, and strive to practical action, do not forget the original intention, adhere to quality, to provide users with high precision, stability, reliability of precision machine tools. Welcome the majority of users to visit the guidance, on-site experience, Zhongcong, will bring you a different feeling!



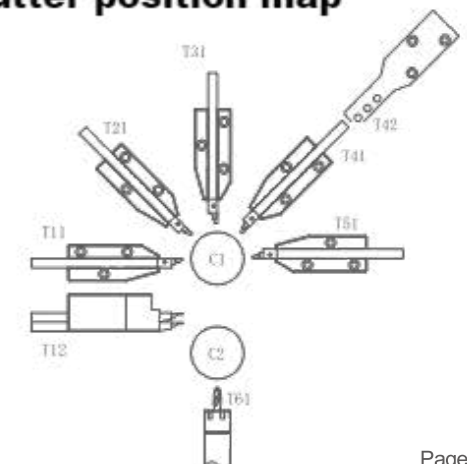
In response to customer demand, in order to solve the Industry pain points, the R&D team lasted 4 years, developed the world's first 12-axis five-tool 11 axis absolute servo motor and spindle servo motor, can be processed for Five tools at the same time, not only the processing efficiency is several times that of traditional equipment, and the operation is simple and easy to learn, Programming is fast and convenient, and because each knife of the machine can be independently programmed, as well as the modular combination of Design, the machine has a rich function and application scenarios, providing unlimited possibilities for hardware precision parts processing.



Axis view

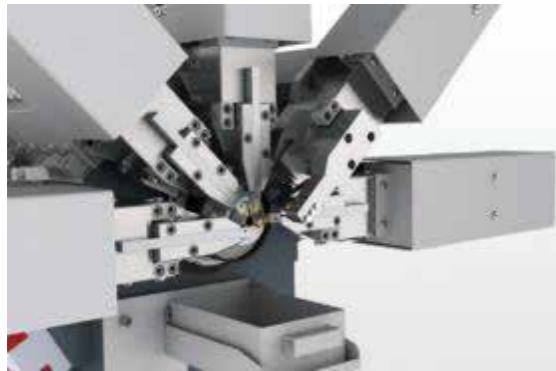


Cutter position map

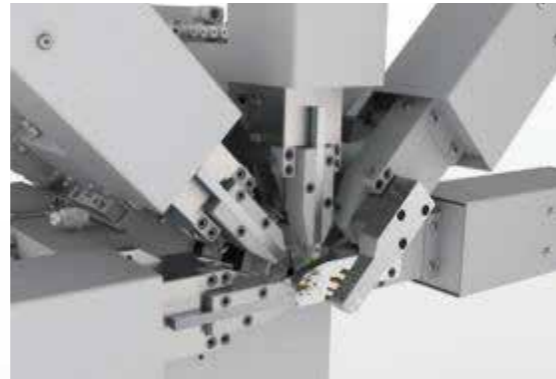


HS-W15/20

Function introduction



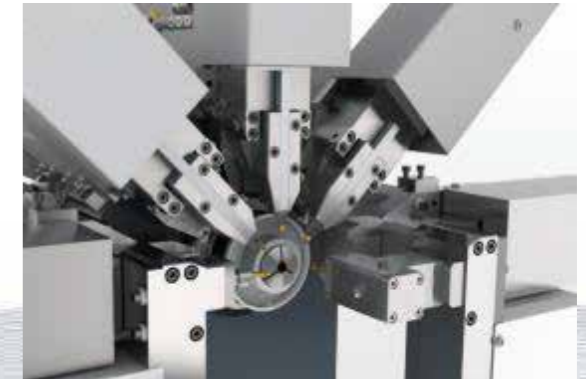
■ Five-knife simultaneous CNC lathe
Each tool can be moved separately and synchronized with each other.



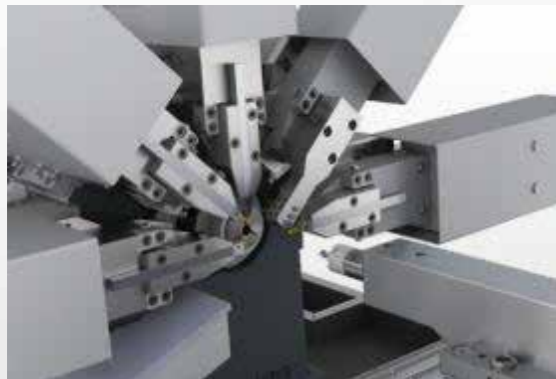
■ Guide sleeve(support nozzle)mode
Can be synchronized with the turning tool movement,suitable for processing slender parts.



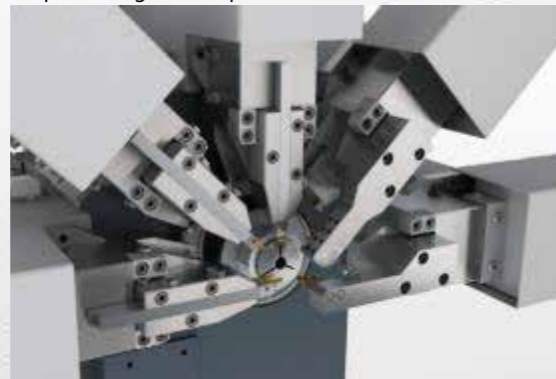
■ Bilateral milling mode
Both 1 and 5 knife racks can be installed with one side power.



■ Side milling+end milling
The end mill can be mounted on for or hexagon sides.



■ Backshaft strong drilling
The rear 1kw servo shaft enables strong drilling.



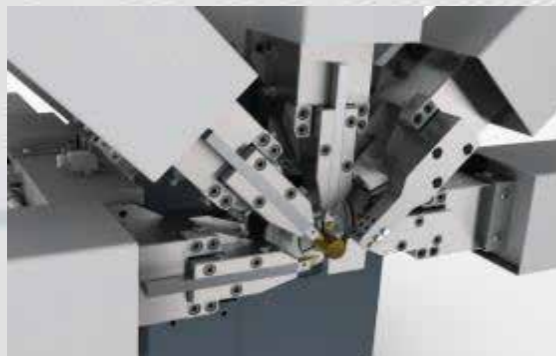
■ Multi-knife mode
Double tool rest+Up to 13 tools can be installed in the multi-hole wall combination



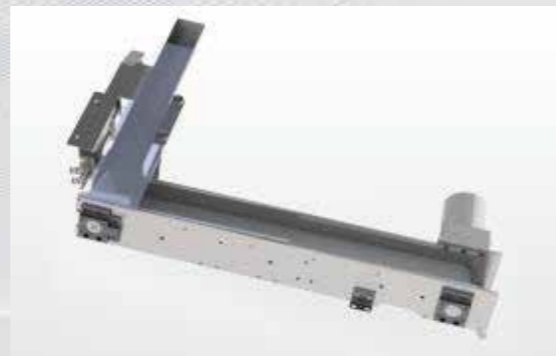
■ Back spindle
The back side is a type 12 spindle,using the spindle end drill processing.



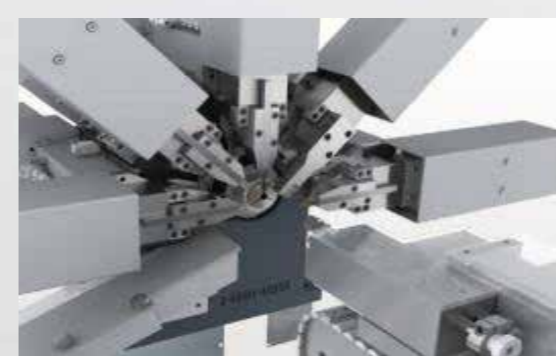
■ Multi-axis drilling on the back
Back 4 ER11 spindle end



■ Eliminate tail ding support material rack
For the support of aniseed cut off,the residual amount of tail can be reduced.



■ Automatic splicing conveyor
When the product is cut off,it is sent to the feeding box by the conveyor belt.



■ Rapid backside tap in the same direction
The back tapping mechanism rotates in the same direction as the main shaft,and the tapping does not change direction.



■ Long material processing device
When the long material and removed by the servo manipulator.

A51 numerical control system

Programming instructions

This machine uses five-channel G-code CNC programming, each channel is consistent with the common two-axis CNC programming. Each channel can specify synchronization, waiting, cooperation processing, etc., related programming instructions are as follows:

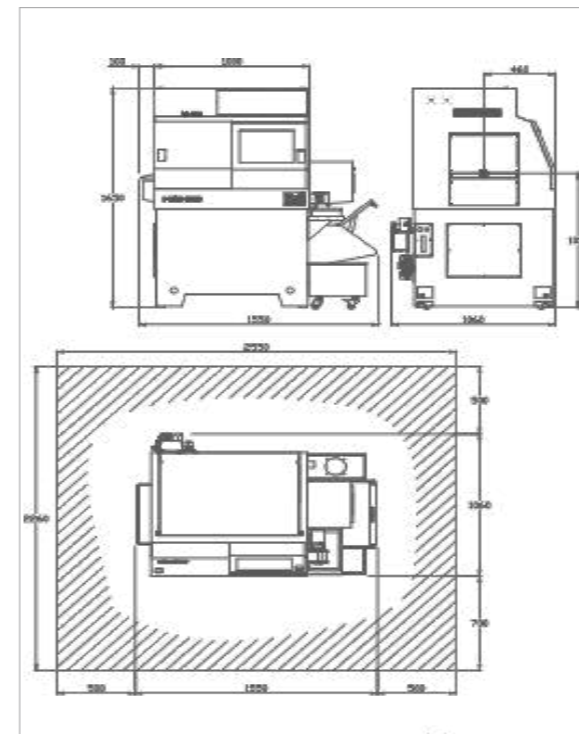
- The top column**
 The top bar displays information such as the title, connection status, running mode, fault alarm, date and time of the currently edited file.
- Enabled state**
 The enable state shows whether the code for the current channel will be loaded and can pass the (switching enabling) key in the function key area is used to switch whether the corresponding channel is enables ability.



Examples of processed products



- Edit area**
 The editing area can edit the code of each channel, and the basic syntax is consistent with the general CNC instruction. Only M500 Exxx and M600 Exxx are dedicated instructions for the synchronization of each channel. When it is necessary to synchronize between channels, M600 is used to wait for synchronization signals in the channel to be synchronized, and M500 is used to send synchronization signals. When M500 is the same as E after M600, a set of synchronization instructions are formed.
- Cursor indicator area**
 Indicates the position of the current cursor.
- Functional key area**
 Execute the corresponding key-press function.
- Load status indication**
 Indicates the status after the current program is loaded.
- Screen key area:** the corresponding menu function at the bottom of the screen.
- Main keyboard area:** each function screen switch and program and data input
- Function key area:** the switch that controls the corresponding function.
- Rate switch, mode switch:** control the program operation rate and machine tool operation respectively pattern.
- Hand wheel, power supply control area, emergency stop switch:** the hand wheel can control the shaft movement and the hand wheel simulation of program operation, power switch, emergency stop function.
- Switch area:** control program start and stop and spindle start, stop, program, the lock can control the program editing permission.



Outline dimensions of the machine table.



Expendable tool (8x8)

Specification table of variable diameter sleeve of drilling seat

External diameter	Internal diameter specification (Φ)						
	1.5	2.0	2.5	3.0	3.5	4.0	5.0
Φ5	1.5	2.0	2.5	3.0	3.5	4.0	
Φ6	1.5	2.0	2.5	3.0	3.5	4.0	5.0