HUR-V CNC Vertical Machining Center

Machine Features

HUR-V machining center is made of the best high-quality cast iron body and full rib support, which is ten times more shock-absorbing than ordinary steel wire. The castings with ribs on the inside of the fuselage have extremely high torsion resistance and super shock resistance. In addition, the wide internal space allows the operator to easily change tools and work items. With the high rigidity structure, it creates a small footprint, but high-precision and multi-bacterial automatic machinery.

HUR uses well-known brands of high rigidity and precision linear slide rails. Its process technology is like manufacturing bearings, with zero clearance and all-round bearing characteristics. The linear slide has low consumption, high precision, and fast moving speed, up to 48 meters per minute. The machine is equipped with high-brightness work lights, which is convenient for the operator to load and unload work pieces and make measurements. The work light has the functions of dustproof, waterproof and explosion-proof. A fast, simple, reliable and long-life tool exchange device provides smooth and reliable tool exchange. The unique tool exchange device design, the ability to select tools at any position, can be quickly reached by PLC software control.

Specification

Contact information
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Item	Unit	V850	V1160	V1370	V1580
Machining range					
X axis travel	mm	800	1100	1300	1500
Y axis travel	mm	550	600	700	800
Z axis travel	mm	550	600	700	700
Distance from the nose of the spindle to the worktable	mm	120-670	120-720	120-820	
Distance from the center of the spindle to the track surface of the column	mm	595	650	750	865
Worktable					
Table size	mm	1000x550	1200x600	1400x700	1600x800
Maximum load of workbench	kg	500	800		
T-slot	mm	5x18x90	5x18x100	7x22x110	7x22x100
Spindle					
Spindle speed	rpm	8000		6000	
Spindle torque	N.m	35/47.7	47/70	140/190	
Spindle taper		BT-40		BT-50	
Spindle power	KW	7.5	11	15	
Other					
Dimensions	mm	2600x2500x2700	3200x2700x3000	4180x3050x3187	4580x3050x3187
Machine weight	T	5	6.5	10	15.5

Detail Configuration

Double spiral chip removal device, punched to the spiral chip removal machine on both sides of the machine, can easily send the processed iron chips to the outside of the machine quickly, reducing the waste of nonprocessing time due to the removal of iron chips.

All machines use laser measurement, cutting test, long-term running-in test and strict inspection according to VDI 3441 standard, so that each axis has good repeatability and accurate positioning, ensuring machine accuracy.

The circular measuring instrument Renishaw is used to correct the roundness and the geometric accuracy of the machine, thereby checking and ensuring the vertical accuracy of the three-dimensional space.

The sleeve-type spindle design provides 6000/4500rpm gear-driven spindle or belt-type spindle, and the short-nosed spindle bearing is effectively supported by the sleeve and head casting, so it can greatly improve the rigidity of the spindle. The spindle motor can display the maximum metal cutting rate. With the spindle cooling system, the temperature rise of the bearing can be reduced to extend the life of the spindle.

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