

Iron Hand 130 mini 5 Axes megmunkáló központ



# Mini 5-Axes Machining Center



 **IRON  
HAND**  
*130*

**CHUNG HSIWH INDUSTRIAL CO., LTD.**

# Mini 5-Axes Machining Center



**IRON HAND**

- To use the 5-axis machining technology can simplify the complex. The multi-face parts with excellent surface finishing quality, saving the time without sacrificing accuracy.
- The dual-lead worm drive has been adopted with B-axis swing head, the excellent drive torque to convey the high efficiency.
- The table outside diameter is 130mm. C-axis table can be loaded to 10kg workpiece.

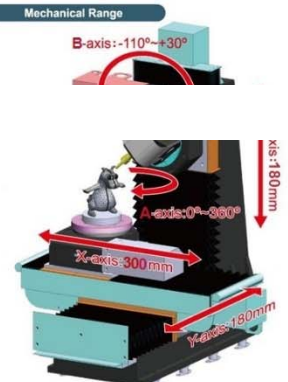
**Built-in spindle of high precision to enhance the machining accuracy and surface smoothness, speed can reach 50,000 rpm.**

Spindle oil cooler ensures the rigidity of the spindle structure while repeating cooled cycles along the spindle sleeve, and ensuring the spindle temperature to keep in low degree and the machining accuracy controlled in scope of the requirement.



**Mechanical Range**

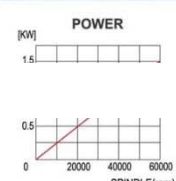
B-axis: -110°~+30°



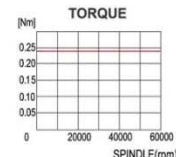
X-axis: 300mm  
Y-axis: 180mm  
Z-axis: 180mm

**Spindle Motor Horsepower Chart**

**POWER**



**TORQUE**



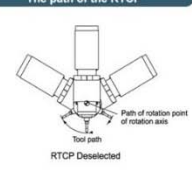
**Intelligent Controller System**

- IRON HAND series combined with FANUC 31i-B5 and Siemens 840D SL intelligent controller system, easy to operate and user-friendly interface, 10.4" TFT portable color monitor as standard specifications.
- FANUC 31i-B5 and Siemens 840D SL process the function of the "Rotary tool center point" (RTCP) in each axis of the VHTC-130. The RTCP does not need to re-transfer the program from the CAM when the tool is cutting. The tool length could be compensated directly and to save time without sacrificing accuracy.

**CONTROLLER OPTION**

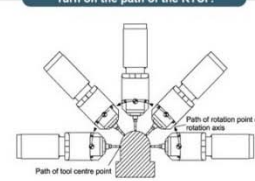
- FANUC 31i-B5(5 axis)
- SIEMENS 840D SL(5 axis)
- Heidenhain iTNC530 (5 axis)
- Fagor 6070 (5 axis)

**The path of the RTCP**



RTCP Deselected

**Turn on the path of the RTCP.**



RTCP selected

Model	IRON HAND 130 Mini 5 Axis CNC Machine
Product demention	920(H)X1060(L)X2080(W) mm
Effective work area	500x400x(130)mm
Precision ballscrew	1605
XYZ rail material	Hard chrome shaft
X/Y rail diameter	300/180mm
Z rail diameter	180mm
XYZ axis torque	57*78 250 OZ/IN (2.2N/CM)
4th and 5th	57*56
4th and 5th transmission ratio	1:6
Repeat positioning accuracy	+/-0.005 / +/- 0.003mm
Working precision	0.02mm
Processing speed	0-4000 mm/Min
A-axis B-axis rotation speed	0-180 rpm/min
XY table maximum load	10kg
XY+A+B axis table maximum load	10kg
Tailgate material	Stainless steel
Switching Power Supply	Integrated 24V 350W
Spindle power	1200W water-cooled frequency spindle
Spindle converter	1500w
Input Power	220V / 110V power supply
Output Current	Drive 4.5A (peak 5A)
Drive motor	57*78 stepper motors (two-phase 4 wire)
Net Weight	500kg