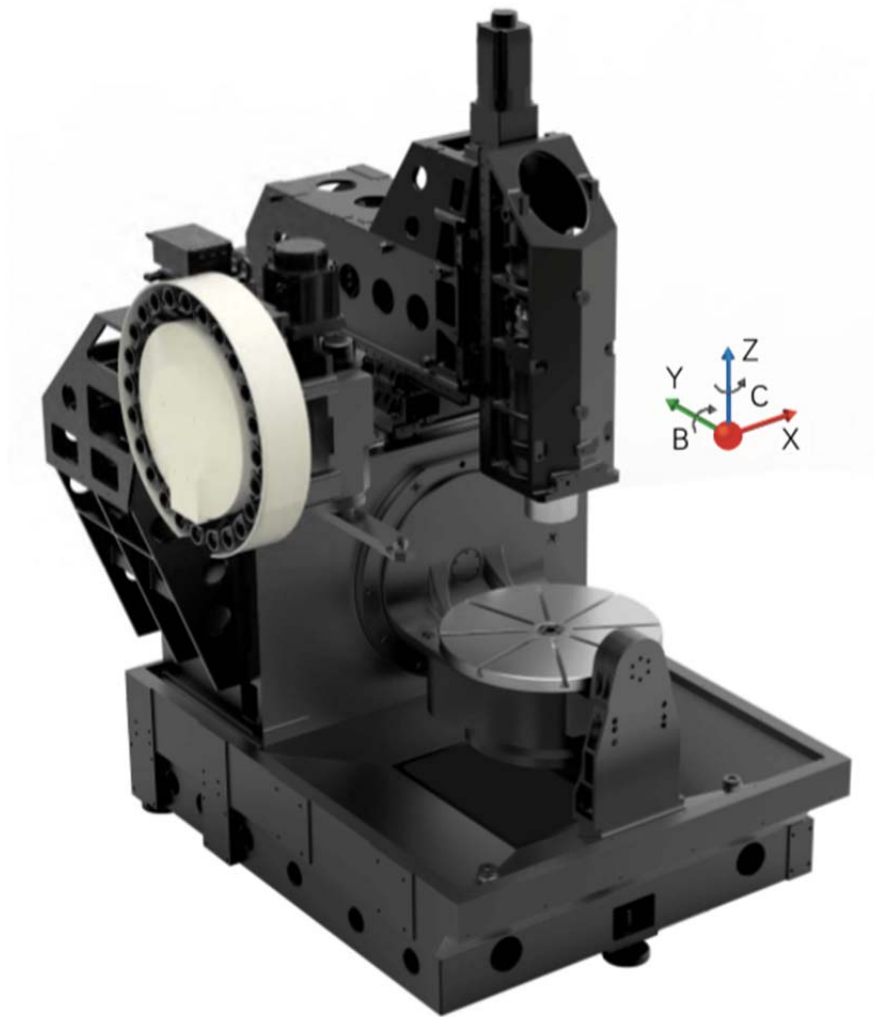




HUR – 630 Five-Axis Vertical Machining Center

CTB self-developed five-axis vertical machining center, with stable C-shaped structure, standard high-speed motorized spindle, direct drive CNC turning-table and servo tool library, can achieve high-speed and high-precision processing of complex parts. It is widely used in the manufacture of electric vehicle motors, gearboxes, engines, moulds, robots, medical devices and other products.



Self-development of BT40/HSKA63 motorized spindle, high precision, high power density, high dynamic response, greatly improve processing efficiency and accuracy, reduce machine noise and vibration



Self-developed BC dual-axis direct drive CNC turning-table, built –in motor with large torque, high precision, high dynamic response, greatly improve the performance and application of machine tools.



Hydraulic synchronous tool change technology realizes the coordinated control of servo tool library and servo hydraulic station. The tool switch time can reach 1.2s.



Equipped with precision high-speed screw, roller guide, to ensure the rigidity and accuracy of machine tools.



The powerful hardware architecture and intelligent control algorithm of SINUMERIK 840D sl, assisted by excellent driving and motor technology, enable the processing process to have very high dynamic performance and accuracy.

<u>Main parameter</u>			
	Item	Unit	Parameter
Worktable	worktable diameter	mm	630
	Maximum horizontal load	kg	500
	Maximum vertical load	kg	300
	T-slot	mm	8X14H8
Processing range	Distance between spindle end face and worktable end face (Max)	mm	550
	Distance between spindle end face and worktable end face (Min)	mm	150
	X axis	mm	600
	Y axis	mm	450
	Z axis	mm	400
	B axis	°	-35°~+110°
	C axis	°	X360°
Spindle	Taper(7 :24)	CTB	BT40D
	Max. speed	rpm	12000
	Rated torque S1	N.m	69
	Max. Torque S6	N.m	98
	Output power S1	W	13
	Output power S6	W	18.5
Axis	X axis Rapid traverse speed	m/min	36
	Y axis Rapid traverse speed	m/min	36
	Z axis Rapid traverse speed	m/min	36
	B axis Max. speed	rpm	80
	C axis Max. speed	rpm	80
Tool magazine	Type		Disc type
	Tool selection method		Bidirectional nearest tool sele
	Capacity	T	24
	Max. tool length	mm	300
	Max. tool weight	kg	8
	Max. cutter disc diameter(Full Tool)	mm	80
	Maximum cutter disc diameter (Adjacent empty tool)	mm	120



Tool	Tool holder type		MAS403 BT40
	Latin type		MAS403 BT40-1
Accuracy	Enforcement criteria		GB/T20957.4(ISO10791-4)
	Positioning accuracy(X/Y/Z)	mm	0.008
	positioning accuracy(B/C)		8"
	Repeated positioning accuracy(X/Y/Z)	mm	0.006
	Repeated positioning accuracy(B/C)		6"
Weight		kg	6000
Capacity		KVA	45
Overall dimension		mm	2400X3500X2850
Machine weight (N.W./ G.W.)		Kg	5500/6000
Package size		mm	3600X2500X2700
Machine installation space		mm	4000X4000X3000

Options:

No.	Item	Brand	Configuration	Remark
1	Hydraulic station	GermanyHydraulic	1P1V3-4-H	HEIDENHAINencoders
2	Turntable	CTB	BC630	
3	Raster scale	Spain FAGOR	S2AS	Measurement set
6	Tool measuringsystem	Renishaw	RTS	
7	Workpiecemeasuring system	Renishaw	RMP40	
8	Rotary axis Lineinspection tool	Renishaw	Axiset	

