HUR - V - HQ

A high-quality CNC machining center with high-accuracy and high-rigidity, which is used to process workpieces that require high-precision machining such as automobile/aerospace/military industry.

OM - V - HQ machine adopts advanced casting technology from Germany and Switzerland. It is a vertical machining center with high speed, high precision, high efficiency and high stability.

The column adopts the design of rice-shaped wind circulation to ensure rigid shock absorption and thermal deformation, ATC installation structure design, the weight of the tool magazine is directly transferred down to the foundation of the machine to obtain better support, which can avoid the deformation of the machine column.

High-precision spindle box, double inclined-pull 7 symmetrical reinforcing ribs to increase stability.

Six sliders and integral screw nut seat, six sets of bearings, double pre-tensioning, double positioning, greatly improving reliability.

X Axis:35mm; Y Axis:45mm; Z Axis: 45mm

Dual-drive dual-servo intelligent tool magazine, tool change faster, improve production speed and reduce failure rate.

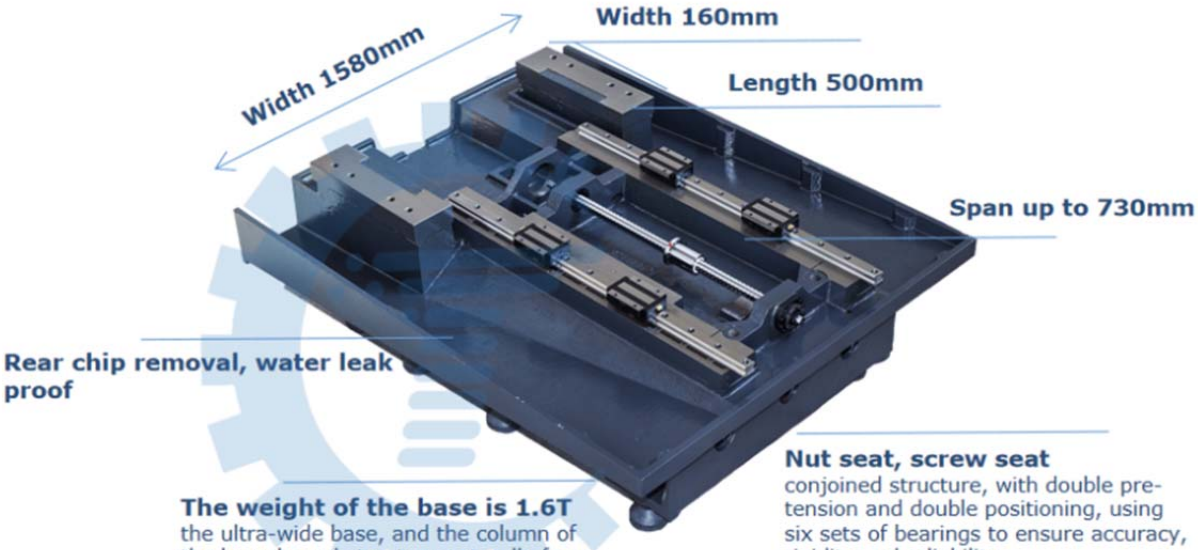
Contact information
Modiin Technology GmbH (modiin-technology.com)
Steinklüftstraße,12, St.Gilgen, 5340, Austria







Bed Body



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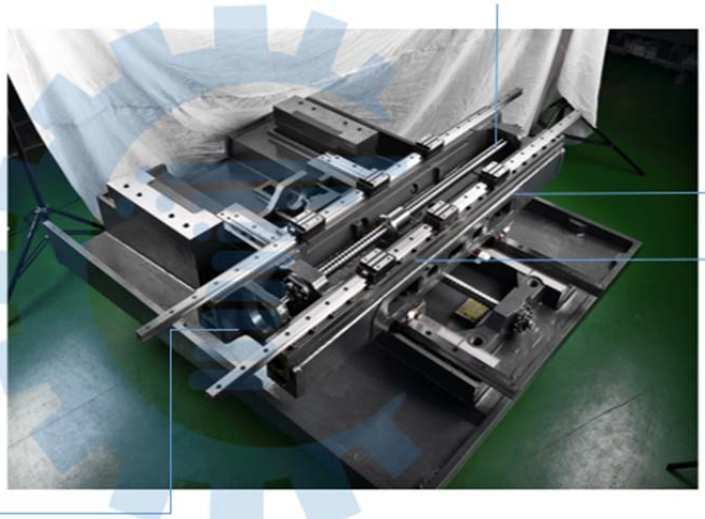
Screw

C2 grade screw
high grade ensures excellent rigidity, machine tool accuracy and repeatability



The castings are returned to the furnace twice
Inhibit thermal expansion, thermal deformation

Six sliders and integral screw nut seat
six sets of bearings, double pre-tensioning, double positioning, greatly improving reliability

Hollow screw
inhibit thermal expansion and thermal deformation. And no need for machine heating in advance, improve production efficiency

Nack Machine

Dual-drive dual-servo
intelligent tool magazine, improve production speed and reduce failure rate

Adopt four sets of FAG bearings

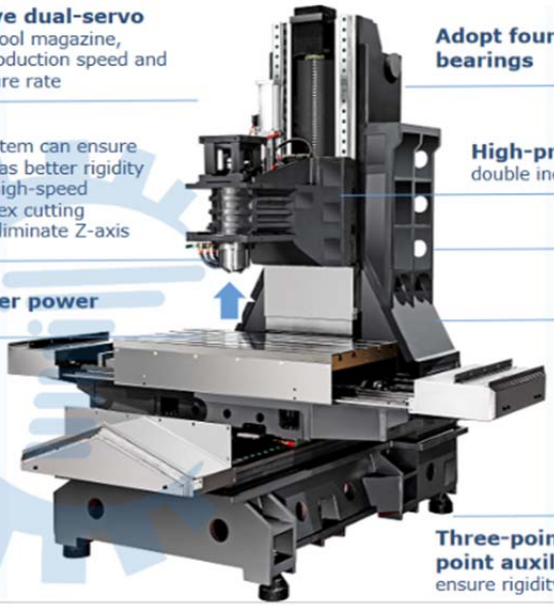
Spindle system
BIG-PLUS spindle system can ensure that the tool holder has better rigidity and accuracy under high-speed conditions and complex cutting conditions, and can eliminate Z-axis variation

High-precision spindle
double inclined-pull seven symmetrical stiffeners

Spindle up to 660mm
Strong milling and drilling capability

Automatic rise after power failure

Diagonal-stayed reinforcing rib width 550mm
ensure the deflection and inclination of the machine tool



Three-point support and six-point auxiliary support
ensure rigidity and maintain stability

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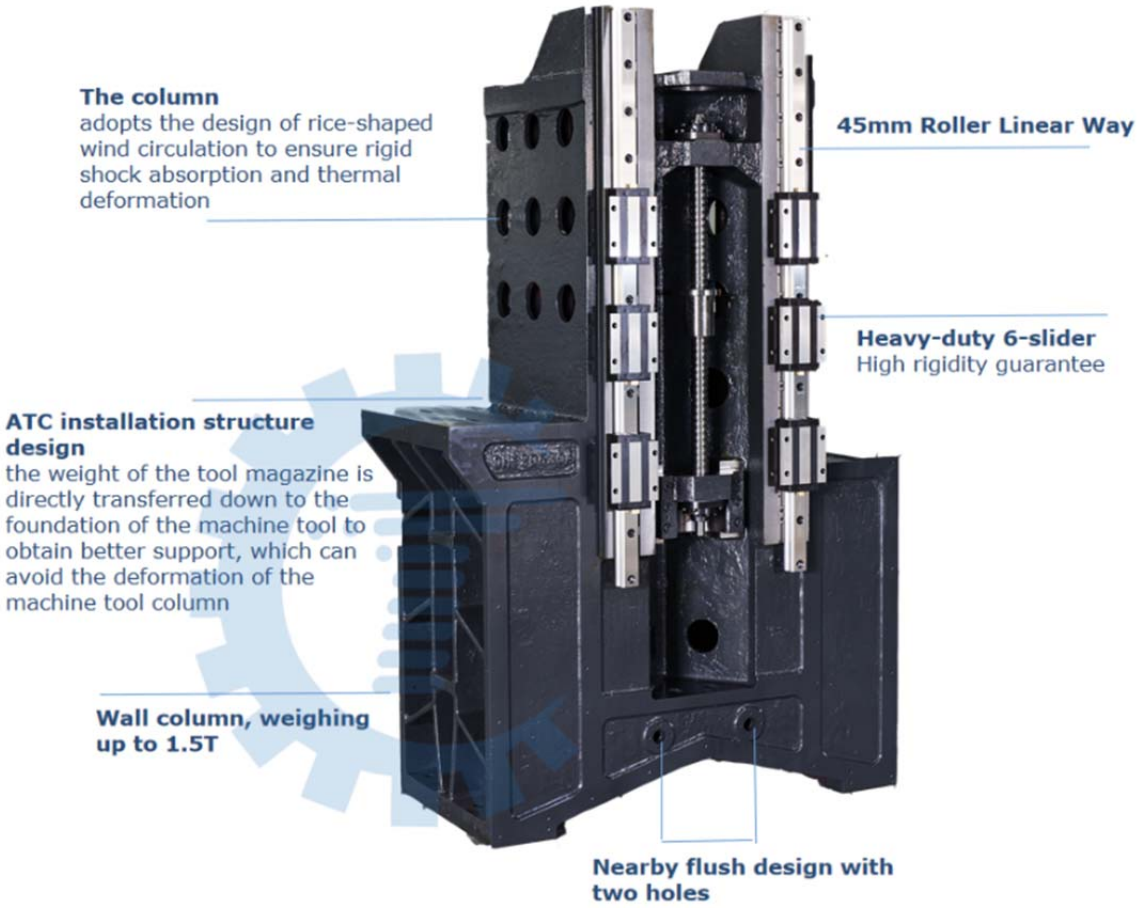
Column



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Travel					
X axis	mm	800	800	800	1100
Y axis	mm	500	500	500	500
Z axis	mm	600	600	600	600
Spindle nose end to table	mm	200-800/250-850/320-920			
Spindle Center to Column Plate	mm	512	512	512	512
Workbench					
Length	mm	1300	1300	1300	1300
Width	mm	480	480	480	480
Table load-bearing	KG	950	1700	1200	950
T-groove size	mm	4*14*100	4*14*100	4*14*100	4*14*100
Spindle					
Spindle velocity		BT40	BT40	BT40	BT40
Maximum spindle velocity	rpm	8000belt/12000direct connect			
Spindle motor power	KW	11/15	15/18.5	13.5/12	11/15
Spindle lubrication	NM	191/118	118	250/126	191/118
Parameters of axis					
Rapid feed rate(X/Y)	m/min	48/48/36	64/64/64	72/72/64	48/48/36
X/Y/Z Axis Servomotor	KW	3.0/3.0/3.0	4.0/4.0/4.0	3.0/3.0/5.2	3.0/3.0/3.0
Accuracy					
Positioning accuracy	mm	0.008	0.006	0.006	0.008
Repeated positioning accuracy	mm	0.004	0.004	0.004	0.004
Automatic Tool Changer					
Tool magazine capacity	PCS	24(30 Optional)	24(30 Optional)	24(30 Optional)	24(30 Optional)
Maximum tool diameter	mm	80	80	80	80
Maximum tool length	mm	300	300	300	300
Maximum tool weight	KG	8	8	8	8
Tool change time	sec	2.5	2.5	2.2	2.5
Machine Weight	KG	7600	7600	7600	8000
Minimun pressure requirement	Bar	5	5	5	5

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