High Speed Double Column Center
V1613HS

CNC vertical machining center

Technical Datasheet

High Speed Double Column Center V1613HS

- Siemens 828D inkl. 10.4“ TFT Bildschirm
- High-quality flat track guides in all axes (roller type)
- Meehanite cast iron tempered for stress relief to ensure structural stability without deformation
- C3 class ballscrews ensure the highest accuracy and durability
- Powerful main spindle, 12.000 min-1 SK40, BT 40 or CAT40

Standard configuration:

- ✔ Siemens 828D control incl. Shopmill
- ✔ HIWIN linear guides in all 3 axles
- ✔ Fully enclosed splash guard
- ✔ Telescopic cover in all axes
- ✔ Heat exchanger for switch cabinet
- ✔ Tapping without compensating chuck
- ✔ USB, CF card, Ethernet
- ✔ Main spindle with direct drive, max. 12,000 min-1
- ✔ Optional spindle taper with SK40, BT 40 or CAT40
- ✔ Automatic lubrication system
- ✔ Coolant system
- ✔ Chip flushing device
- ✔ LED working lamp
- ✔ End of program light
- ✔ Electronic handwheel (MPG)
- ✔ Tool box
- ✔ Levelling screws and bolts
- ✔ Air gun
- ✔ Safety door
- ✔ Operation manual

Optional configuration:

- ■ Spindle oil cooler
- ■ Oil skimmer
- ■ Tool changer with 32 stations
- ■ Coolant through spindle with 20/50 bar (CTS)
- ■ Mitsubishi M 730 V
- ■ CNC Fanuc Oi MF
- ■ Heidenhain TNC 620
- ■ Linear scales
- ■ Oil mist extraction
- ■ Autom. workpiece position measurement and coordinate rotation
- ■ NC rotary table - 4th axis
- ■ Called tiltingtable - 4/5th axis
- ■ Cold air - Air exit 4°-6°
- ■ Two screw conveyors and one chain chip conveyor
- ■ Stand-alone control panel

Technical specifications		V1613HS
Table		
Table size	mm	1700 x 1200
T-slot (width x number x distance)	mm	18 x 7 x 150
Max. load	kg	3000
Travel		
X / Y / Z Travel	mm	1600 / 1300 / 600
Spindle nose to table	mm	200 - 800
Spindle center to column	mm	1380
Spindle		
Spindle taper		SK40 / BT40 / CAT40
Spindle servo motor	kW	9 / 22
Spindle speed	min^{-1}	12.000
Feed		

Technical specifications		V1613HS
Rapid feed	m/min	20
Cutting speed	mm/min	1-12.000
Tool changer		
Number of tools	pcs.	32 (opt.)
Max. tool length	mm	300
Max. diameter	mm	78 / 125 (next releas)
Max. tool weight	kg	8
Accuracy		
Positioning accuracy	mm	± 0.015
Repeatability	mm	0.012
Dimensions & weight		
Dimensions	mm	4880 x 3250 x 3850
Weight	kg	13700
Item-No.		6430031

*The above specifications are subject to change without prior notice, no liability for printing mistakes. Machine may be shown with optional equipment.

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