



Chester Vertical Machining Centre • VF Series

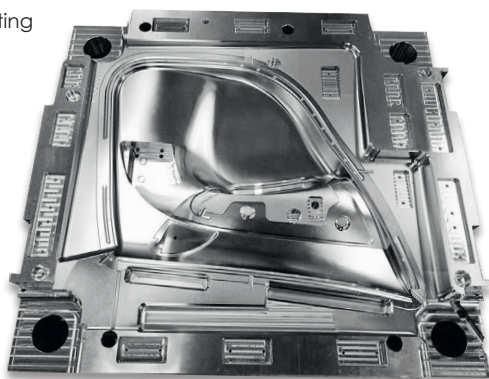


- The VF series ultra high performance centre is specially designed for high speed and high efficiency machining applications
- Advanced design with reinforced body structure through FEM analysis
- The VF series offers superb cutting performance and reduced vibration to meet the highest demands
- Extra wide machine column and base design, ensuring high rigidity during high speed movement
- Motor seat cooling circuit (VF1100 & VF1300)
- Oil cooled ballscrew for VF1100 & VF1300
- Optional Linear scales available for this model



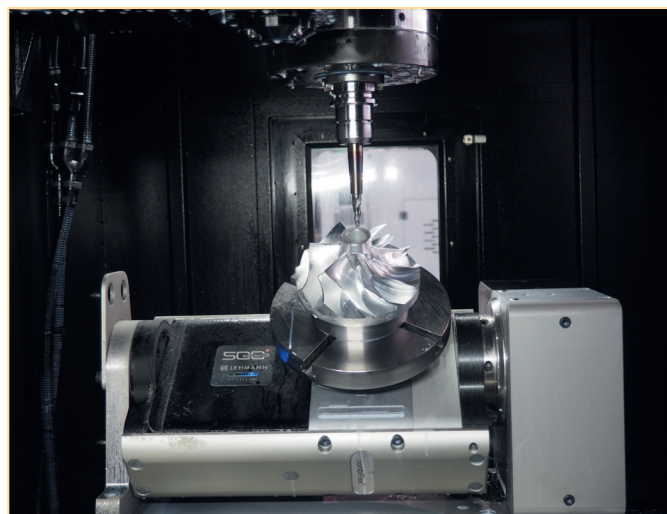
Standard configuration:

- ✓ Fully enclosed splash guard
- ✓ Direct drive spindle 12000 rpm (VF900)
- ✓ Direct drive spindle 15000 rpm (VF1100, VF1300)
- ✓ 24 pockets arm tool changer
- ✓ Two screw type and one chain type (VF 1100, VF1300)
- ✓ Chain type chip conveyor (VF900)
- ✓ Spindle cooling system
- ✓ Air-conditioned electrical cabinet
- ✓ Motor seat cooling circuit (VF1100, VF1300)
- ✓ Rigid tapping
- ✓ Ethernet, CF card and USB interface
- ✓ Automatic lubrication system
- ✓ Coolant system
- ✓ LED working lamp
- ✓ End of program light
- ✓ Electronic handwheel (MPG)
- ✓ Tool box
- ✓ Leveling bolts and blocks
- ✓ Coolant gun
- ✓ Air gun
- ✓ Air blast during cutting
- ✓ User Manual



Optional configuration:

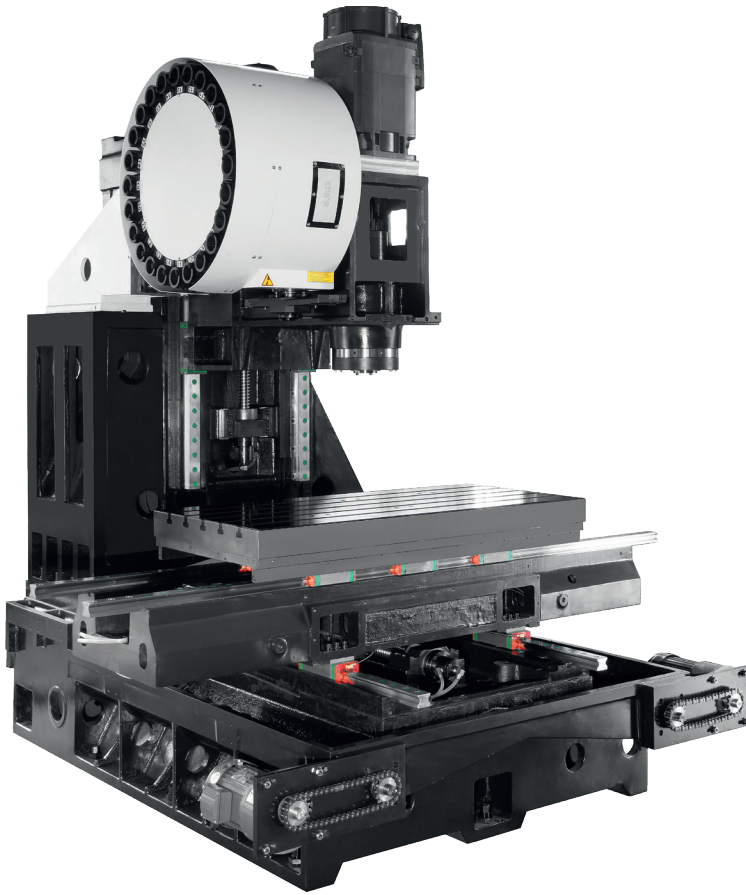
- Direct drive spindle 6000 rpm, BBT50 (VF1100, VF1300)
- Motor spindle 20000 rpm, HSK A63
- Coolant through spindle
- Oil cooled ballscrew
- Oil skimmer
- Linear scales
- 4th axis
- 4/5th axis
- Workpiece probe
- Tool probe



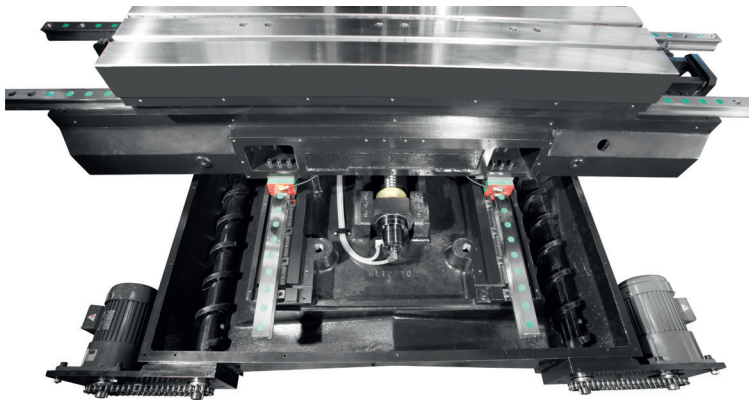
Lehmann 4th & 5th axis



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Cast iron tempered for stress relief to ensure structural stability without deformation



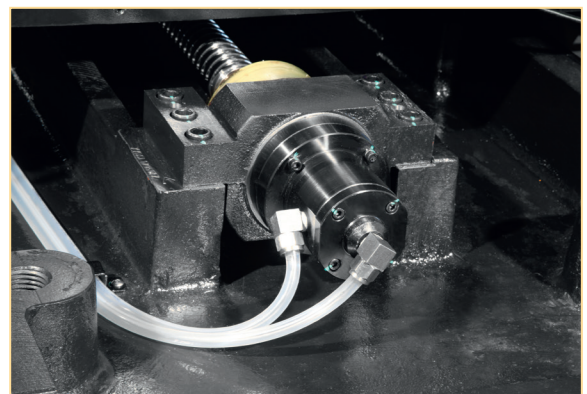
Two screw type chip conveyors in Y-axis (VF1100 & VF1300)



External tool cooling



Roller type linear guideway





Chester Vertical Machining Centre • VF900 - VF1500

Standard configuration:

- ✓ Siemens 828D/Fanuc Type 3 PLUS
- ✓ Fully Enclosed Splash Guard
- ✓ Shopmill (Siemens)
- ✓ Manual Guide I, AICCI and Data Server (Fanuc)
- ✓ Direct Drive Spindle 12000 rpm
- ✓ Spindle Oil Cooler
- ✓ Coolant Through Spindle
- ✓ Coolant through Ballscrew
- ✓ 24 Pockets Arm Tool Changer
- ✓ Air Conditioning for Electrical Cabinet
- ✓ Rigid Tapping
- ✓ Ethernet CF Card and Usb Interface
- ✓ Automatic Lubrication System
- ✓ Coolant System
- ✓ Led Working Lamp
- ✓ End Of Program Light
- ✓ Electronic Handwheel (Mpg)
- ✓ Tool Box
- ✓ Leveling Bolts and Blocks
- ✓ Coolant Gun
- ✓ Air Gun
- ✓ Chain Type Chip Conveyor
- ✓ Chip Flushing System
- ✓ User Manual

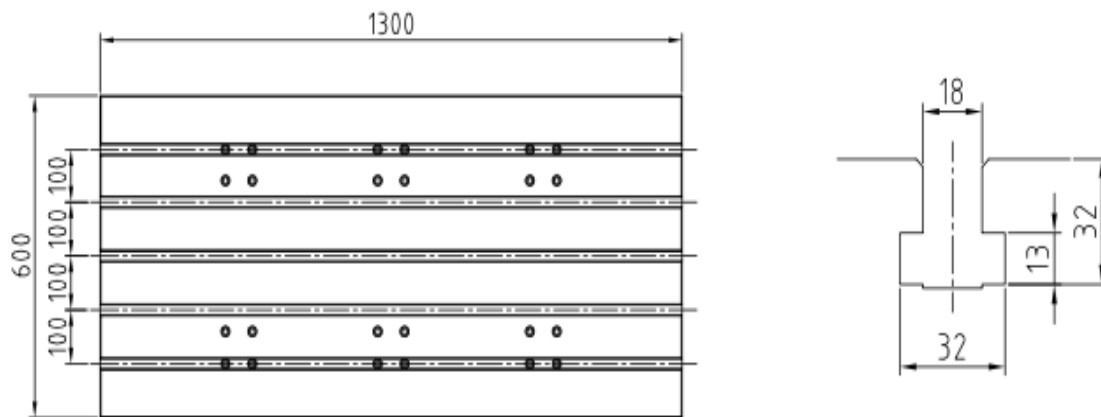
Optional configuration:

- Spindle Speed 15000 rpm, Direct Drive
- Built-In Spindle 20000rpm, HSK A63
- Coolant through spindle
- 4th or 4/5th Axis
- Workpiece probe
- Tool probe
- Oil skimmer

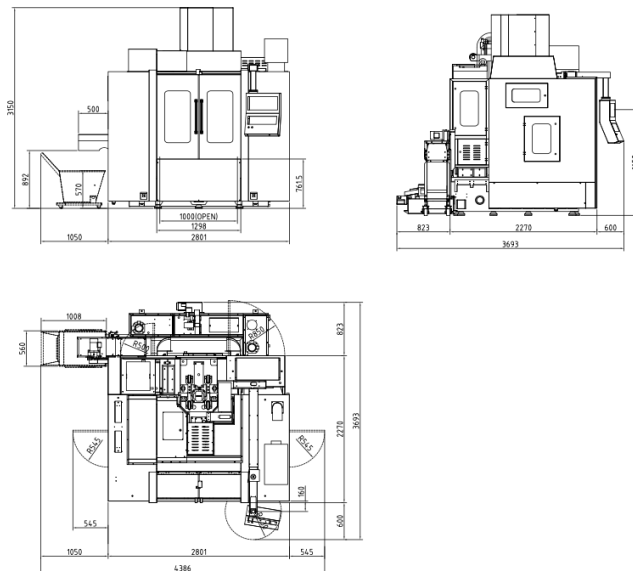
Technical Specifications	VF900	VF1100	VF1300	VF1500
Table				
Table size	1060 x 600mm	1300 x 600 mm	1500 x 650mm	1700 x 700mm
T-slot (width x number x distance)	18 x 5 x 100mm			18 x 6 x 100mm
Max. load	800kgs	1000kgs	1200kgs	1500kgs
Travel				
X/Y/Z Travel	900 / 600 / 600mm	1100 / 650 / 600mm	1300 / 650 / 600mm	1500 / 760 / 700mm
Spindle nose to table	150 - 750mm			130- 830mm
Spindle centre to column	652mm	697mm		802mm
Spindle				
Spindle taper	BBT40			
Spindle servo motor	9 / 22 Siemens, 11 /18.5 Fanuc kW	20 / 53 Siemens, 15 / 30 Fanuc kW		
Spindle speed	12.000 rpm min ⁻¹	15000 Siemens rpm min ⁻¹ , 12000 rpm min ⁻¹ Fanuc		
Spindle(option 1)	HSK A63, 20000rpm			
Motor power / torque	20/24kW; 35/42Nm			
Spindle(option 2)	/	HSK A63, 20000rpm		
Motor power/torque	/	25/28kW; 87/105Nm		
Feed				
Rapid feed X/Y/Z	36 m/min			24 m/min
Cutting feed	1 - 12.000 mm/min			
Tool changer				
Number of tools	24 pcs			
Max. tool length	300 mm			
Max. tool diameter	78 (125) mm			
Max. tool weight	8kgs			
Accuracy (VDI 3441)				
Positioning accuracy (without linear encoder)	0.010mm / Full Travel		0.012mm / Full Travel	
Positioning repeatability (without Linear encoder)	0.006mm / Full Travel		0.008mm / Full Travel	
Positioning accuracy (with linear encoder)	0.006mm / Full Travel		0.008mm / Full Travel	
Positioning repeatability (with linear encoder)	0.004mm / Full Travel		0.006mm / Full Travel	
Dimensions & weight				
Dimensions	3850 x 2335 x 3000mm	3850 x 3093 x 3150mm	4025 x 3693 x 3250mm	4025 x 3693 x 3250mm
Weight	6800kas	8000kas	8500kas	10000kgs



Work table



Dimensions



Cooling unit with Chip conveyor



Keyarrow telescopic covers in all axes