



Chester Vertical Machining Centre • VF Series



Watch the Video

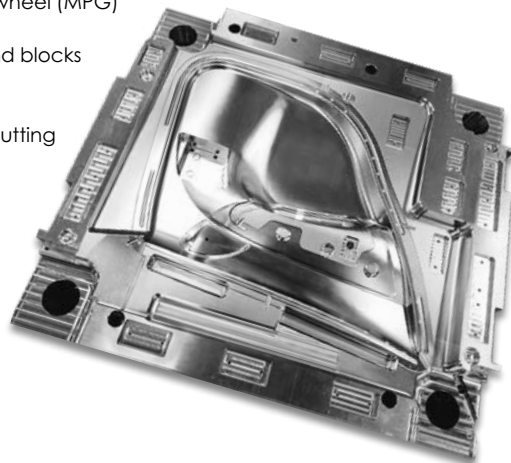


- The VF series ultra high performance centre is specially designed for high speed and high efficiency machining applications
- Advanced design with reinforced body structure through FEM analysis
- The VF series offers superb cutting performance and reduced vibration to meet the highest machining demands
- Extra wide machine column and base design ensures the high rigidity during high speed movement
- Motor seat cooling circuit (VF1100 & VF1300)
- Oil cooled ballscrew for VF1100 & VF1300 & VF1500 (option)
- Linear scales (option)



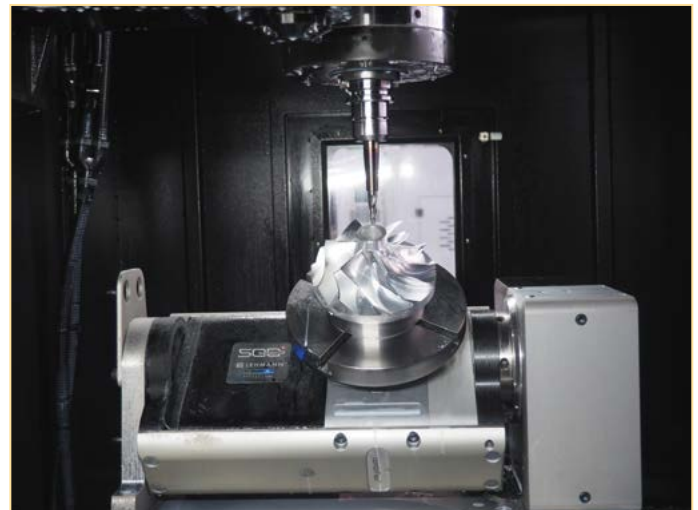
Standard configuration:

- ✓ 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, VF1500)
- ✓ Chain type chip conveyor (VF900)
- ✓ Spindle cooling system
- ✓ Air-conditioned electrical cabinet
- ✓ Motor seat cooling circuit (VF1100, VF1300, VF1500)
- ✓ 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, VF1500)
- Motor spindle 20000 rpm, HSK A63
- CTS coolant through spindle + ATS
- Oil cooled ballscrew
- Oil skimmer
- Linear scales
- 4th axis
- 4/5th axis
- Workpiece probe
- Tool probe



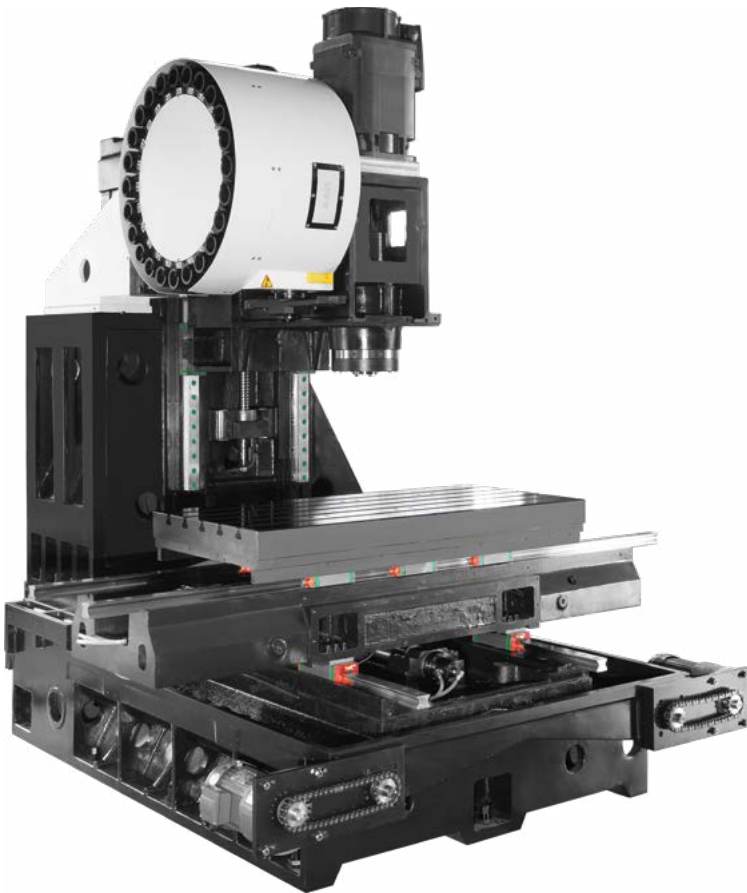
Lehmann 4th & 5th axis

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





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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 & VF1500)



External tool cooling



Roller type linear guideway



Oil cooled ballscrews (VF1100 & VF1300 & VF1500)

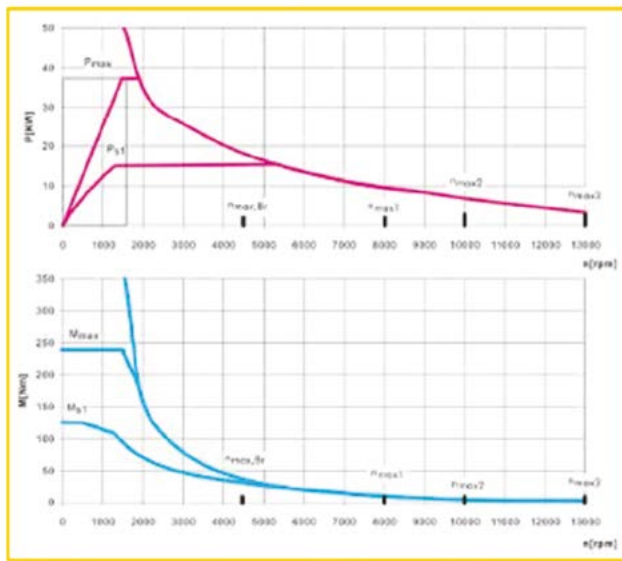
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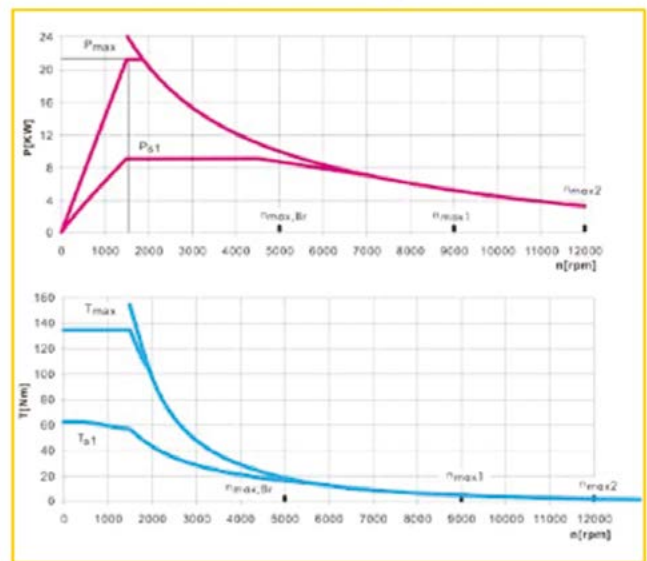


Torque diagram for standard Siemens version

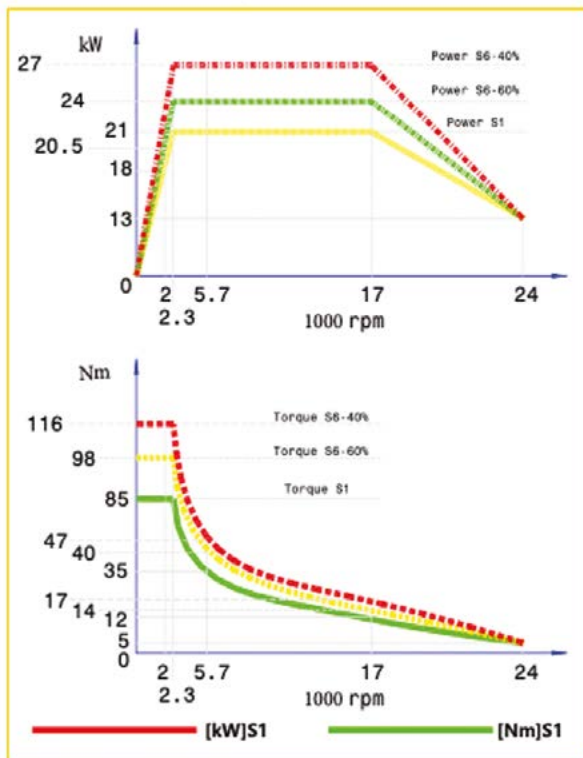
VF1100



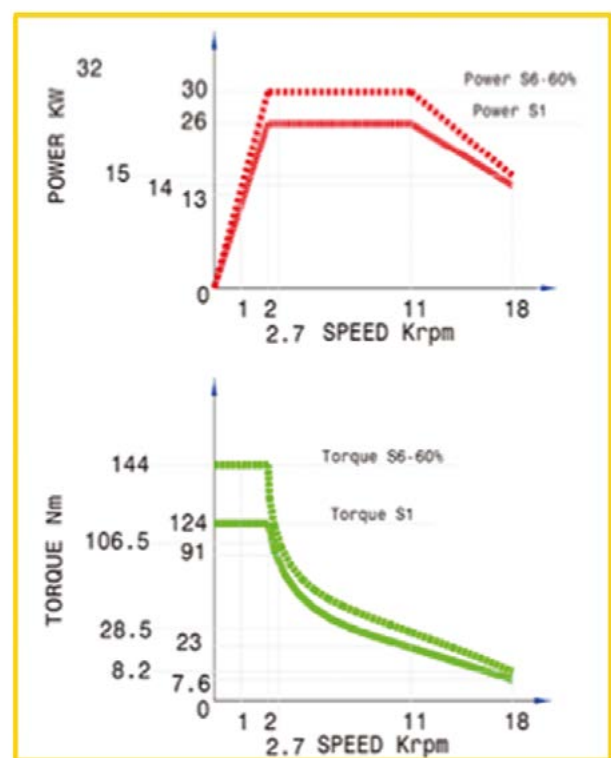
VF900



VF1100 · 24000 rpm · HSK A63



VF1100 · 18000 rpm · HSK A63

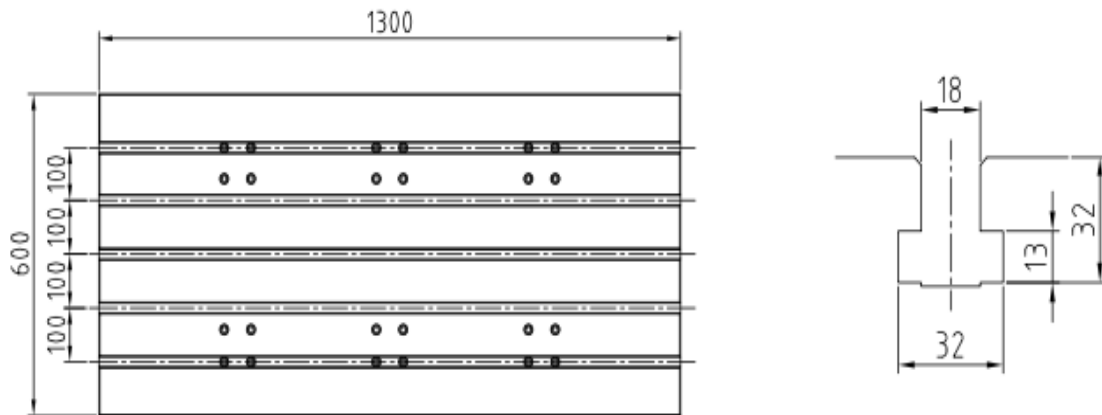


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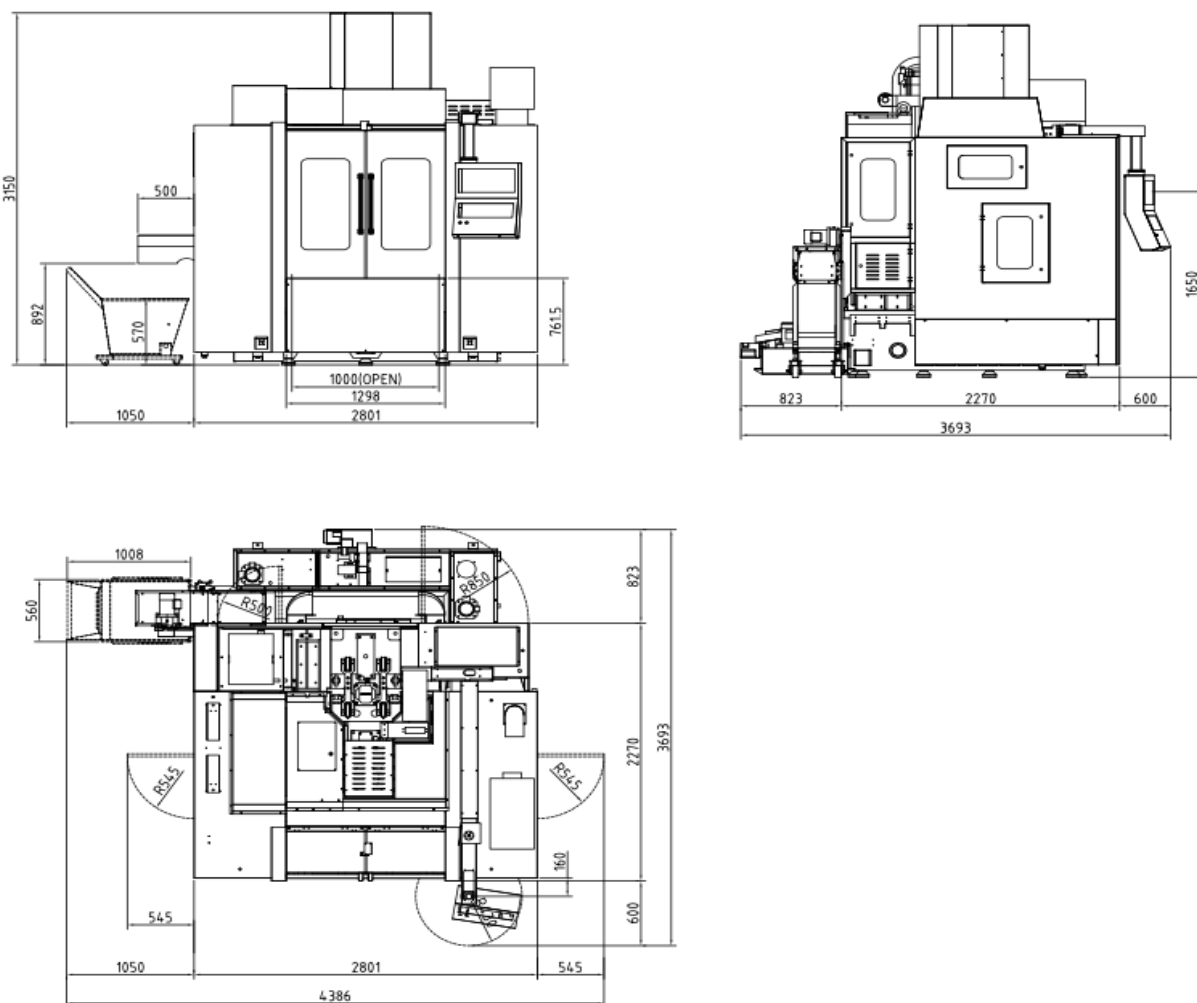




Work table (VF1100)



Dimensions (VF1100)



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Technical Specifications

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		SK40 / BBT40 / CAT 40		
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	6800kgs	8000kgs	8500kgs	10000kgs



Cooling unit with Chip conveyor



Keyarrow telescopic covers in all axes

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