Vertical 3-Axes Machining Center

VIVIX 30i





Keydata



	VMX 30i
Travels (X/Y/Z) [mm]	760 / 510 / 610
Spindle Speed [1/min]	12,000
Spindle Power [kW]	13.5
Torque [Nm]	214
ATC stations (option)	30 (40)

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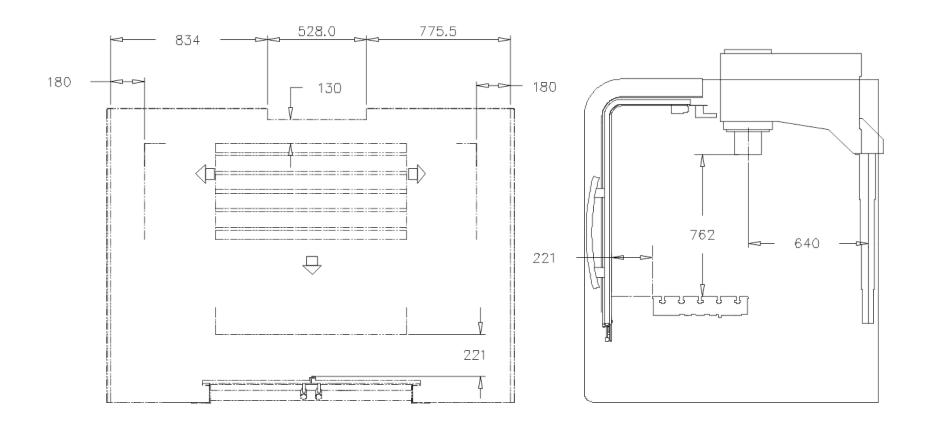
Technical Specification

Machine Capacity		Rapids X / Y / Z [m/min]	35 / 35 / 30	
Travels X/Y/Z [mm]	760 / 510 / 610	Axis Thrust X/Y/Z [N]	10,900 / 10,900 / 23,700	
Spindle Nose To Table [mm]	150 - 760	Automatic Tool Changer		
Table Working Surface W x D [mm]	1020 x 510	Number of stations (optional)	30 / 40	
T – Slots (DIN 650)	5 x 18 ^{H8} x 100	Max. Tool Diameter [mm]	80 / 76	
Max. load (uniform distribution) [kg]	1360	Adjacent Sides Empty [mm]	130 / 150	
Spindle		Max. Tool length [mm]	300	
Spindle Taper (DIN 69871 A)	Sk 40	Max. Tool weight [kg]	7	
Max. Speed [min ⁻¹]	12,000	ATC Time (Tool to tool) [sek.]	2	
Max. Power [kW]	13.5	ATC Time (Chip to chip) [sek]	6	
Max. Torque [Nm]	214	Service Requirements		
Retention knobs	ISO 7388/II B	Electrical	31 kVA / 45 A / 400V	
Accuracy (VDI / DGQ 3441)		Air (Dry, clean air acc. DIN/ISO 8573-1, class 4)	7bar / 150 l/min	
Positioning P _{max} [mm]	0.01 (Full travel)	Weights		
Repetability P _S [mm]	0.005	Machine Weight [kg]	5,000*	
Feedrates		Shipping Weight [kg]	5,500*	
Cutting feedrate X / Y / Z [mm/min]	30,000 / 30,000 / 22,900	Chip Conveyor [kg]	500	

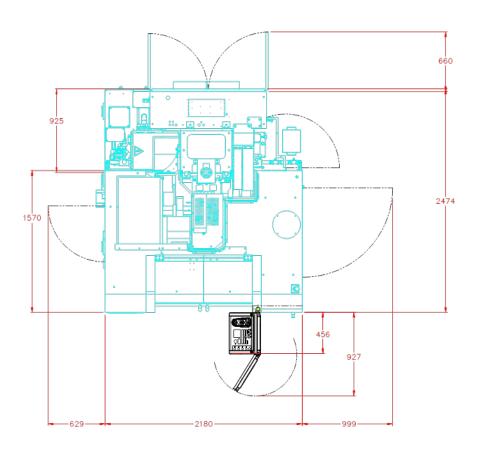
*due to the position of the mass center of the machine, for unloading by forklift it is recommended to plan with a higher carrying capacity of 30%

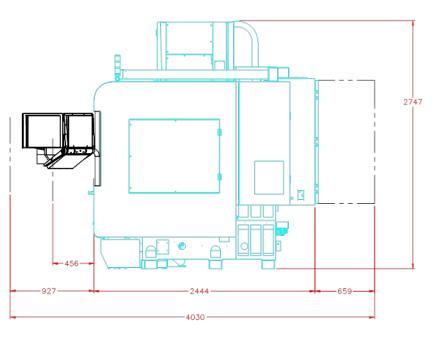
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Interior Clearances

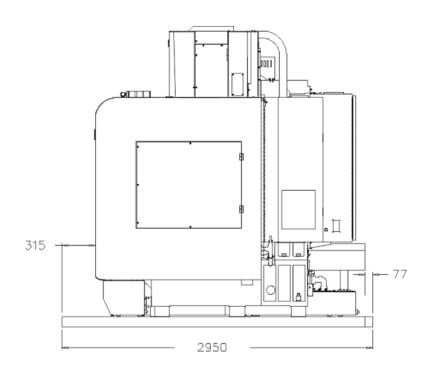


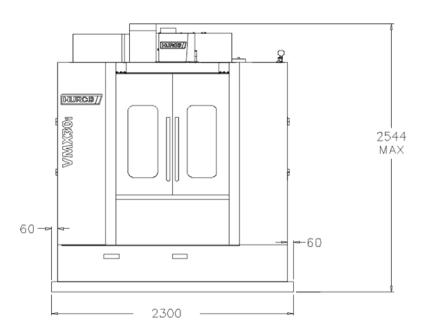
Operating Dimensions



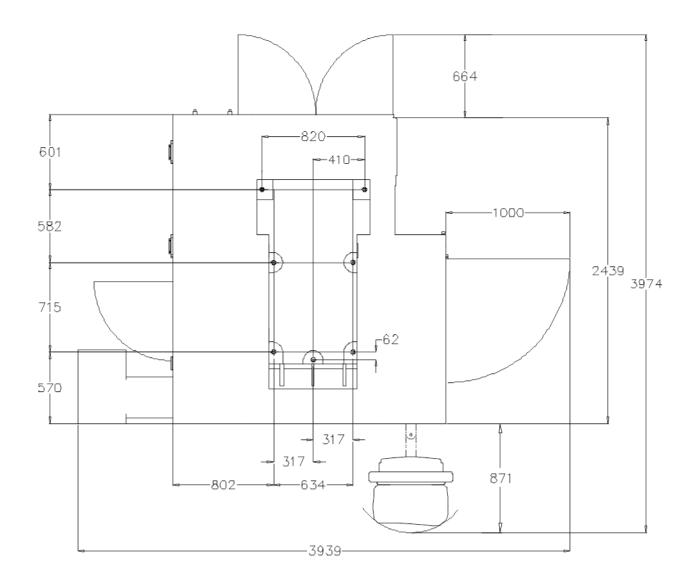


Shipping Dimensions





Foundation



Machine Options

- Coolant air through coolant nozzles
 - selectively coolant water or coolant air through coolant nozzles. Programmable as "Coolant 2" or by M-function
- Coolant air through Spindle
 - as before, however supplying is through the spindle. Option "Coolant through Spindle" (CTS) is required
- BT-Arm
 - for usage of BT-tool holders instead of SK holders
- Part- and Tool Probing <u>more</u>
- Coolant through Spindle (CTS) <u>more</u>
- Production Package <u>more</u>
- Bypass Filter <u>more</u>
- Rotoclear
 - The rotating pane throws off cooling emulsion, leaving the view free for the machine operator
- Linear Scales
 - Evaluation of axis position with a linear scale instead of rotary encoders (requires dry, clean air acc. DIN/ISO 8573-1, class 1, dew point 3°)

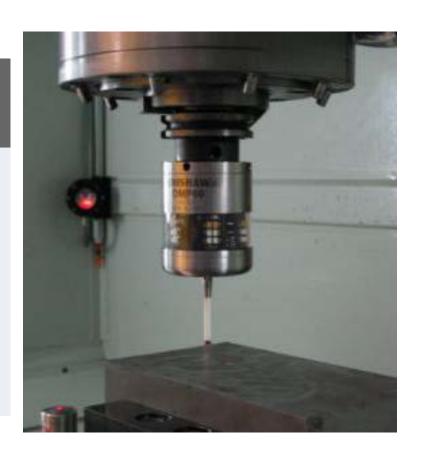
HURCO°

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Part- and Tool Probing

Partprobing

- Probing Part Zero:
 - Edge
 - Corner
 - Hole or Circle
 - Cylinder
 - Rectangular Pocket
 - Rectangular Solid
- Probing Skew Angle
- Measuring of Workpiece



Part- and Tool Probing

Tool Probing with Touch Probe

- Probing of Tool Length
- Tool Breakage Control of Tool Length and – if Tool is broken – Usage of a Spare Tool
- NO Probing of Tool Diameter



Part- and Tool Probing

Tool Probing with Laser

- Probing of Tool Length
- Probing of Tool Diameter
- Tool Breakage Detection and if the Tool is broken – Usage of a Spare Tool
- Tool Wear Detection and Compensation



Part Probing and Tool Probing with Touch Probe



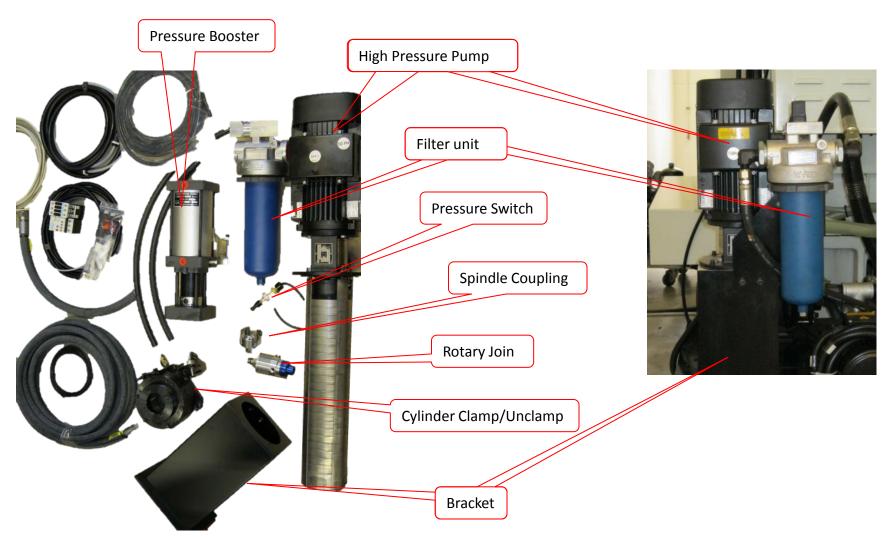


Part Probing and Tool Probing with Laser Probe



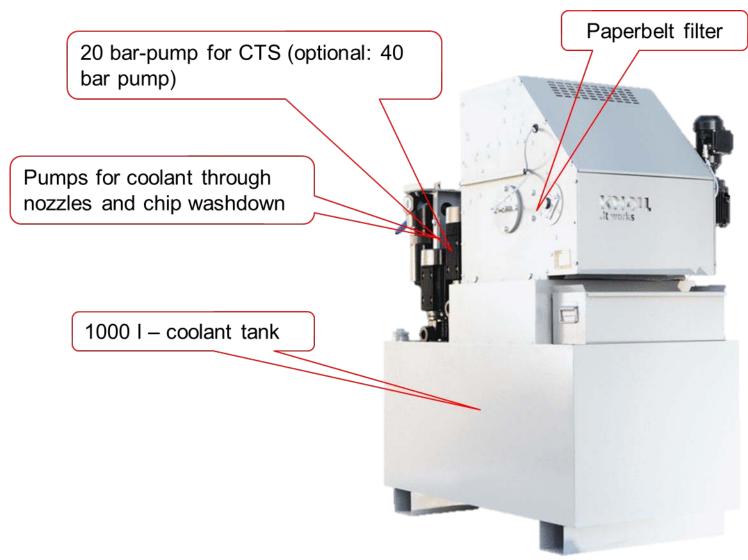


Coolant through Spindle 20 bar



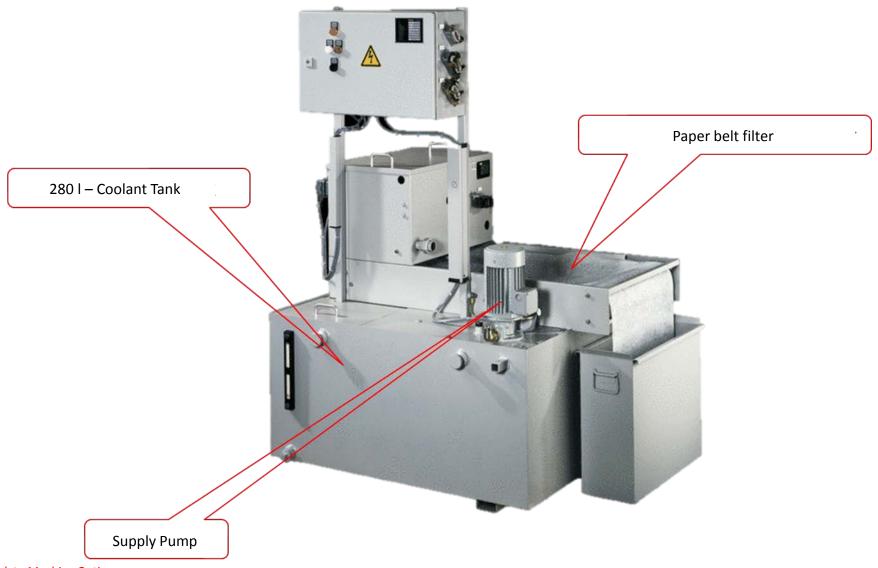
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Production Package KF400



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Bypass Filter



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Rotaries

	Rotary	Eligibility	Faceplate Diameter (mm)	Center Height (mm)	Spindle Bore (mm)	Clamping Torque (Nm @ 0,5MPa)
	MR 120	x	128	120	32	150
	MR 160	x	165	140	40	310
	GT 200	x	200	140	45	820
x well suited o after consulting - not suited	GT 250	х	250	180	70	1600
	GT 320	х	320	225	105	2800
	TT 101	х	110	140	32	180 (4.) 300 (5.)
	TT 182	х	180	180	40	450 (4.) 800 (5.)
	TT 251	0	250	250	70	900 (4.) 1200 (5.)
	TT 321	-	320	255	110	2600 (4.) 2600 (5.)

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