



5-axis

machining-centers

Highpower-series | Moving columns-series | Highspeed-series

With the **most powerful** control in industry



5-axis

machining-centers
with swivel head and roundtable

- > VMX 42 HSRTi
- > VMX 42 SRTi
- > VMX 60 SRTi

VMX42SRTi



Benefits of 3-axis machining-centers of the SRTi-series

Benefits of the SR 5-Axis Mill

The design of the swivel head 5-axis machining center makes the SR the best choice for certain applications.

Versatility. The large rotary table provides versatility that allows you to use the extra table space for secondary operations or 3-axis work.

Heavier Parts. Because the table is stationary, the swivel head/rotary table 5-axis machining centers are typically preferred when machining heavier parts.

Better chip control. With the swivel head/rotary table configuration, you can run the machine horizontally and gain better chip control.

Unlimited angular movement of C-axis. With a swivel head/rotary table 5-axis machining center, it is extremely important to make sure the table (C-axis) supports unlimited angular movement. For example, if you are machining down a steep wall and going around the part, the table needs to rotate in a continuous motion. If the C-axis is limited to +360 / -360 degrees of motion, it will literally need to unwind at regular intervals to machine the part. Conversely, the tables on the HURCO SR 5-axis mills are built with unlimited and continuous rotation because our focus from design to delivery is to maximize productivity and profitability for our customers.

Tool access for swept surfaces and complex contours. There are certain applications, such as impellers or turbines, when it is beneficial to approach the part from underneath. When you mill uphill, as it is sometimes called, the base of the spindle is lower than the tool tip. The B-axis tilting head with the C-axis rotary table of the SR machining center supports this type of cutting strategy, whereas a trunnion style 5-axis mill doesn't.

High torque. The cooled spindle motor of the C-axis enables a spindlespeed up to 100 U./min. and therefore an extraordinary high torque.

further information

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	VMX 42 SRTi	VMX 42 HSRTi	VMX 60 SRTi
Table			
Working surface (mm)	1.270 x 610	1.270 x 610	1.675 x 660
Working surface Rotarytable (mm)	Ø 600	Ø 600	Ø 600
T-Slots (DIN 650) (mm)	5 x 18 x 100	5 x 18 x 100	6 x 18 x 100
max. Tableload (kg)	1.360	1.360	1.360
max. Tableload Rotarytable (kg)	500	500	500
Travels			
X-Axis (mm)	1.067	1.067	1.524
Y-Axis (mm)	610	610	660
Z-Axis (mm)	610	610	610
A-Axis (°)	+/- 92	+/- 92	+/- 92
C-Axis (°)	360	360	360
Spindlemotor			
Spindlepower (KW)	36,5	35	36,5
Torque (Nm)	118	119	118
Spindle			
Taper	SK-40	HSK 63 A	SK-40
Distance Spindlenose – Table (mm)	600	600	600
Spindlespeed max. (rpm.)	12.000	18.000	12.000
Toolchanger			
Stations	40	40	40
max. Tool.-Diameter. (mm)	75	75	75
max. Tool.-Length (mm)	300	300	250
max. Tool.-Weight (kg)	7	8	7
Further details			
Rapid travel (m/min.) X/Y/Z-Axis	35 / 35 / 30	35 / 35 / 30	30 / 30 / 20
Rapid Travel (rpm.) A/C-Axis	50 / 100	50 / 100	50 / 100
Machineweight (kg)	7.600	7.600	9.100

5-axis

machining-centers:

- > with trunnion table
- > moving column with trunnion table

- > VMX Ui
- > VMX UHSi
- > VCX 600 i
- > VTX Ui
- > DCX 5SCi

Trunnion Table 5-Axis makes 5-Sided Machining Easy

The efficient design of the HURCO 5-axis trunnion table machining centers is a key benefit to consider—we use an integrated trunnion table at HURCO instead of simply sticking a trunnion table on a 3-axis machining center and passing it off as a 5-axis machine. The integrated trunnion table design provides more clearance in Z compared to other brands.

Benefits of Trunnion 5-Axis Mill

Easy transition from 3-axis machining. The 5-axis trunnion style machining centers are an ideal configuration for 5-sided machining, especially if you've always worked on a 3-axis machine because the trunnion style design uses the same principles as 3-axis (i.e., you still machine in a linear fashion, but you just machine more sides). This means less training, less setup time, and more flexibility.

More clearance in Z-axis. The integrated design of the trunnion table 5-axis VMC gives you more clearance in Z, especially compared to 3-axis VMCs with a trunnion table added to simulate a 5-axis VMC.

VCX 600 i: Machine accuracy and vibration-damping at highest technical level. Cutting forces are absorbed into the intelligent trunnion table design. The Hydropol® material, used into the machine base, damps the vibration directly at the tool center point, causing a superb surface quality and longer tool life in high dynamic metal cutting. The working area design enables an ergonomically working environment.

further information

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	VMX 10 Ui	VMX 10 UHSi	VMX 30 Ui WZW 40	VMX 30 UHSi WZW 40	VMX 42 Ui WZW 40	VCX 600 i	VTX Ui WZW 48	VTX Ui WZW 96	DCX 32-55Ci
Table									
Working surface (mm)	Ø 200	Ø 200	Ø 250	Ø 250	Ø 350	Ø 600 x 600	Ø 610 x 530	Ø 610 x 530	3.000 x 1.700
T-Slots (DIN 650) (mm)	6 x 10	6 x 10	6 x 12	6 x 12	6 x 14		5 x 18	5 x 18	7 x 22 H8 x 220
max. Tableload (kg)	150	150	200	200	250	350	400	400	11.000
Travels									
X-Axis (mm)	533	533	762	762	1.067	750	800	800	3.200
Y-Axis (mm)	406	406	508	508	610	550	700	700	1.900
Z-Axis (mm)	483	483	520	520	520	500	510	510	900
A-Axis (°)	-110 / +30	-110 / +30	-110 / +30	-110 / +30	-110 / +30	-40 / +110	-110 / +30	-110 / +30	-
B-Axis (°)	-	-	-	-	-	-	-	-	+/-105
C-Axis (°)	360	360	360	360	360	360	360	360	360
Spindlemotor									
Spindlepower (KW)	8,9	8,5	13,4	35	18	16	18	18	54
Torque (Nm)	57	6	214	119	237	109	237	237	85
Spindle									
Taper	SK-40	BT 30	SK-A40	HSK 63 A	SK-40	SK-40	SK-40	SK-40	HSK 63 A
Distance Spindlenose – Table (mm)	36 - 519	36 - 519	90 - 610	90 - 610	90 - 610	200 - 700	150 - 660	150 - 660	70 - 720
Spindlespeed max. (rpm.)	10.000	20.000	12.000	18.000	12.000	12.000	12.000	12.000	18.000
Toolchanger									
Stations	20	20	40	40	40	30	48	96	40
max. Tool.-Diameter. (mm)	89	60	75	75	75	80	75	75	75
max. Tool.-Length (mm)	250	250	300	300	300	250	280	280	300
max. Tool.-Weight (kg)	7	5	7	7	7	7	7	7	7
Further details									
Rapid travel (m/min.) X/Y/Z-Axis	24 / 24 / 24	24 / 24 / 24	35 / 35 / 30	45 / 45 / 40	35 / 35 / 30	30 / 30 / 30	35 / 35 / 35	35 / 35 / 35	15 / 15 / 10
Rapid Travel (rpm.) A/C-Axis	25 / 25	25 / 25	25 / 25	25 / 25	25 / 25	25 / 25	16,6 / 16,6	16,6 / 16,6	11,25 / 7,5
Machineweight (kg)	3.400	3.100	5.300	5.300	7.200	10.000	12.500	13.000	37.000

Maschinen sind mit Optionen abgebildet.
Technische Daten können ohne vorherige
Ankündigung geändert werden.

WinMax[®]

All in one:
The most powerful
control in industry

- > faster from the drawing to the finished part
- > shortest learning curve
- > fastest programming
- > quick overview by double screen
- > designed ergonomically



Sketch



Drawing



CAD / CAM



Desktop



DXF file

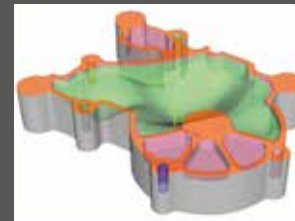
New



WinMax®: Faster from the drawing to the finished part

HURCO continues its reputation for technology innovation that yields measurable productivity gains for its customers because we're focused on your success. When we designed WinMax® control software, we focused on simplicity for the user less keystrokes, intuitive software, advanced graphics capabilities, and an enhanced graphical interface. Conversational programming with WinMax® gets you from print to part faster than ever. Three steps and you're there.

- > **Setup.**
- > **Program.**
- > **Verify.**
- > Powerful software simplifies 5-sided programming.
- > Reduce programming time by 80 percent with Swept Surface. Additional tool path strategies simplify 3D mold programming.
- > Maximize surface finish and minimize time with Select Surface Finish Quality Machining.
- > Eliminate bottlenecks with automated programming of DXF Transfer feature.
- > Incorporate NC code into conversational programs with NC/Conversational Merge.
- > Save time with Math Assist feature that automatically trigs out missing values.



further information

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Step 1: Setup

Setup is even easier with the WinMax® Tool & Material Library. Set up each tool one time and you're finished—the parameters are stored with the control so you just recall the tool the next time.

Step 2: Program

The graphical user interface of WinMax simplifies programming. Conversational programming with WinMax® will save you time and give you peace of mind — especially when you need to hire and train employees because it's easy to learn and easy to use.

Step 3: Verify

Advanced Verification Graphics with 3D solid rendering of the part, including dynamic rotation and real time tool display, make proving out the part a snap. View the part from any angle without the need to redraw it.

> Tool- und Materiallibrary
9.999 programmable tools

> 3D-Plus*

> Tool change optimization with Conversational Programs*

> Conversational NC-Merge*

> HURCO Ultimotion*

* optional

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