



# 4-axis

machining-centers

HMX i | HBMX i

With the **most**  
**powerful** control  
in industry



# 4-axis

machining centers

- > HMX 500 i
- > HMX 630 i



## Efficient processing of complex parts with 4 - axis horizontal machining centers

- > Fast dual pallet changer reduces cycle times.
- > Fully integrated 4 axis for efficient and precise processing of complex parts (with 4th axis rotary table).
- > High machining capacity in contour machining with high surface finish.

HURCO 's 4 -axis machining centers are designed for manufacturing complex parts. Compared to other 4-axis HURCO 's machining centers are more accurate , faster and easier to use than any other.

The HMX machining centers are ideal for small to medium series. The design supports a better chip removal - leave the rest to gravity.

The unique design of 4-axis machining centers offer high speed and high precision, which enables advanced editing. It allows a much more precise contouring and higher surface quality compared to other vertical machining centers.

The box-in-box design results in higher stiffness than dual preloaded ball screws. The HMX has a fast dual - range, which guarantees short cycle time. With the fully- integrated 4-axis capability a HMX enables production of complex parts that need to be processed efficiently and accurately.



further information

[www.hurco.de](http://www.hurco.de)

	HMX 500 i SK 40	HMX 500 i SK 50	HMX 630 i
<b>Table</b>			
Table working surface (mm)	2 x 500 x 500	2 x 500 x 500	2 x 630 x 630
Pallet (mm)	24 x M 16 x 100	24 x M 16 x 100	24 x M 16 x 125
max. load (uniform distribution) (kg)	500	500	1.000
<b>Travels</b>			
X-axis (mm)	810	810	1.050
Y-axis (mm)	610	610	900
Z-axis (mm)	640	640	1.000
B-axis (°)	360	360	360
<b>Spindlemotor</b>			
Spindlepower max. (KW)	48	56	56
Torque (Nm)	183	445	445
<b>Spindle</b>			
Taper DIN 69871 A	SK 40	SK 50	SK 50
Distance Spindlenose – Tablecenter (mm)	150 – 790	80 – 722	155 – 1.155
Spindlespeed max. (rpm.)	12.000	8.000	8.000
<b>Tool changer</b>			
Stations	60	60	60
max. Tooldiameter (mm)	80	125	125
max. Toollength (mm)	300	450	450
max. Toolweight (kg)	7	20	20
<b>Further Details</b>			
Rapid travel (m/min) X/Y/Z-axis	45 / 40 / 45	45 / 40 / 45	40 / 40 / 40
Rapid travel (rpm.) B-axis	16,6	16,6	16,6
Machine weight (kg)	18.000	18.000	25.800

Further information and technical data on the product, see [www.hurco.eu](http://www.hurco.eu).

Machines shown with options. Prices and information may change without notice.

# 4-Achs

machining centers

- > HBMX 55 i
- > HBMX 80 i
- > HBMX 95 i



## Efficiency and precision on highest technical level - small footprint according to the large work envelope

Horizontal Boring Mills are often used in repair jobs on very large parts. Because of this cost can be enormous. The new Hurco HBMX boring mills have a small footprint, especially considering the large work envelope, and are heavier than competitive boring mills in their class.

The HBMX have a geared head spindle with two speeds and hardened box ways. The HBMX comes with a large diameter quill that allows you to use shorter tools.

As standard there is a contouring 4th axis rotary table (not just positional), linear glass scales to maintain thermal stability and increase accuracy, CTS, and a 60-tool ATC (optional 90-tool ATC).



further information

[www.hurco.de](http://www.hurco.de)

	HBMX 55 i	HBMX 80 i	HBMX 95 i
<b>Table</b>			
Table working surface (mm)	1.120 x 1.250	1.440 x 1.600	1.800 x 2.000
Pallet (mm)	7 x 18H8 x 160	7 x 18H8 x 160	7 x 18H8 x 160
max. load (uniform distribution) (kg)	4.000	6.300	10.000
<b>Travels</b>			
X-axis (mm)	1.400	2.000	2.400
Y-axis (mm)	1.390	1.780	2.100
Z-axis (mm)	1.100	1.700	1.500
B-axis (°)	360	-	-
W-axis (°)	500	500	900
<b>Spindlemotor</b>			
Spindlepower max. (KW)	30	44	44
Torque (Nm)	1.500	1.500	2.500
<b>Spindle</b>			
Taper DIN 69871 A	SK50	SK/BT 50	SK/BT 50
Distance Spindlenose – Tablecenter (mm)	720 – 1.820	720 – 1.820	-
Spindlespeed max. (rpm.)	2.500	2.500	-
<b>Tool changer</b>			
Stations	60	60 (90)	60 (90)
max. Tooldiameter (mm)	120	120	250
max. Toollength (mm)	400	400	-
max. Toolweight (kg)	25	25	-
<b>Further Details</b>			
Rapid travel (m/min) X/Y/Z-axis	10 / 10 / 10 / 4	10 / 10 / 10 / 4	10 / 10 / 10 / 4
Rapid travel (rpm.) B-axis	1	1	-
Machine weight (kg)	19.200	ca. 23.500	26.000

Further information and technical data on the product, see [www.hurco.eu](http://www.hurco.eu).

Machines shown with options. Prices and information may change without notice.

# WinMax<sup>®</sup>

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

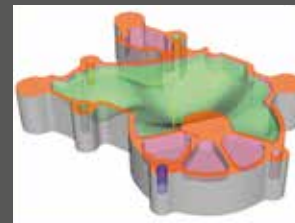


## WinMax®: Faster from the drawing to the finished part

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.



### 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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