HURCO®



MACHINING CENTERS TECHNICAL CATALOG / HORIZONTALS

A CONTROL FOR EVERY GENERATION.

HURCO® PRODUCT LINE-UP

5-AXIS MACHINING CENTERS


VC500i


VCX600i


VM10Ui / VM10UHSi


VMX30Ui


VMX30UHSi

VERTICAL MACHINING CENTERS


HTM30i


VM5i / VM10i / VM10HSi

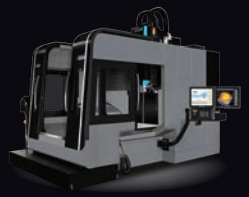

VM20i / VM30i


VMX24i / VMX24Di

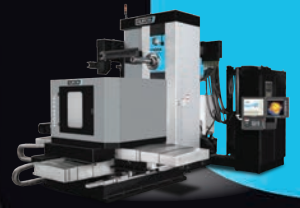

VMX30i / VMX30Di / VMX30HSi

DOUBLE COLUMN & HORIZONTAL


BX40Ui


BX40i / BX50i / BX60i


HM1700i / HM1700Ri


HBMX55i / HBMX80i

TURNING CENTERS


HTL8-60i / HTL10-60i / HTL12-40i


TM6i


TM8i / TM10i


TM12i


TM18i

For over 50 years, Hurco has been empowering machinists of every generation with cutting-edge control technology that's easy to learn and easy to use. See which one of our 65+ models of CNC machines is right for you—rigid and reliable CNC machines equipped with the control that makes shops more productive and more profitable.


VMX42Ui / VMX42UHSi


VMX60Ui


VTXUi


VMX42SRTi / VMX42HSRTi

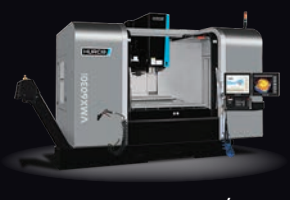

VMX60SRTi


VMX42SWi / VMX60SWi


VMX84SWi


VMX42i / VMX42Di

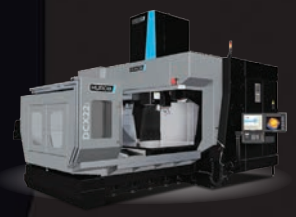

VMX50i / VMX50i-50T


VMX6030i / VMX6030i-50T

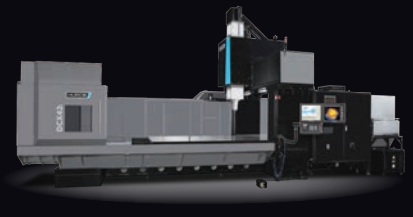

VMX64i / VMX64i-50T

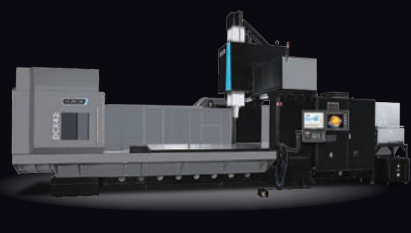

VMX84i / VMX84i-50T


HBMX120i


DCX22i / DCX22i-50T


DCX32-5Si / DCX32-5CSi


DCX32i / DCX3226i


DCX42i

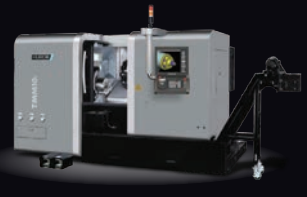

TM18Li / TM18LBBi


TMX8i /TMX10i


TMX8MYi / TMX10MYi


TMX8MYSi / TMX10MYSi


TMM8i


TMM10i

HM1700i

With fast rapids, large work cube, and unique frame design, complex production parts can be machined efficiently and accurately



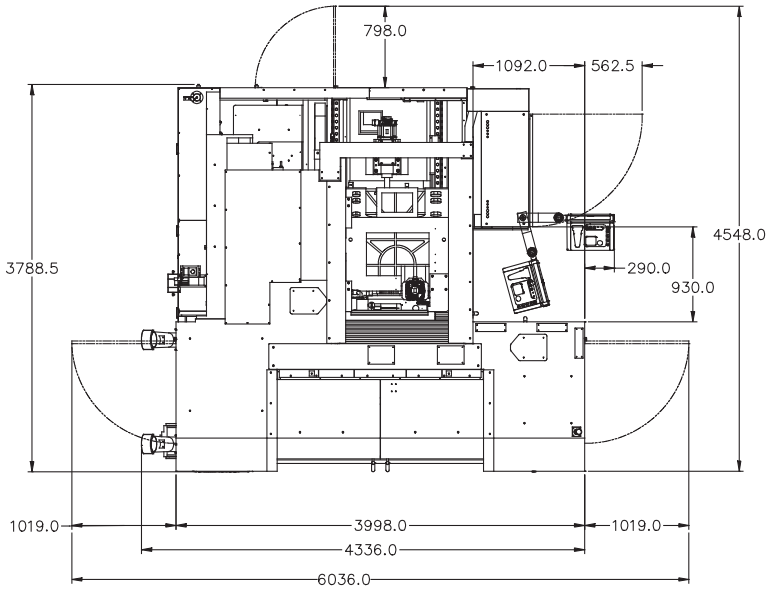
Machine Overview

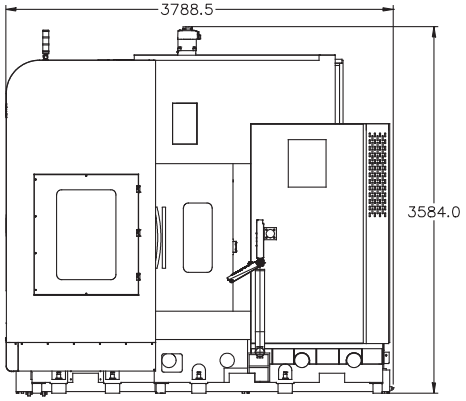
- 67 x 51 x 35 in (1,700 x 1,00 x 900 mm) travels
- 67 x 36 in (1,700 x 914 mm) table, 6,614 lbs (3,000 kg) capacity
- 35.4 HP (26.4 kW) peak spindle
- Heavily ribbed fine-grade cast iron frame optimized with Finite Element Analysis (FEA)
- Linear roller guideways on X/Y/Z axes
- 8,000 RPM motorized, liquid cooled spindle
- 1,181 IPM Rapid Traverse Rates X/Z Axis, 787 IPM on Y
- 30 station ATC (60 station optional)
- 3.7 Second tool-to-tool ATC time
- Full enclosure with large access doors on front and side of machine
- Washdown and air gun assembly
- Metal telescopic way covers
- WinMax Mill Conversational and Industry Standard NC programming
- Ergonomically designed MAX5 console with 19" LCD screen
- Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive

Did you know? The Hurco control provides customers with the flexibility to use the programming method that makes the most sense for their particular job or situation: conversational, NC (G-code), or merging both methods with the NC/Conversational Merge feature. Whether you're using a napkin sketch, a blueprint, electronic file, or programming with an offline CAD/CAM system, WinMax will get the job done faster! **Find out more at Hurco.com/WinMax.**

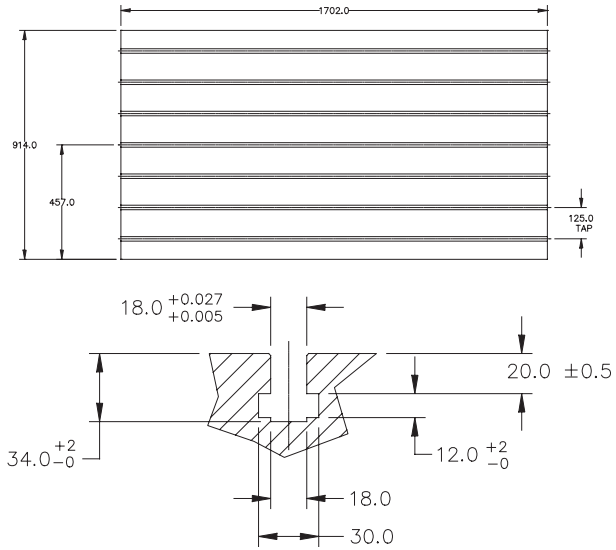
Machine specifications can be found on Page 21

POWER & CAPACITY HM1700i



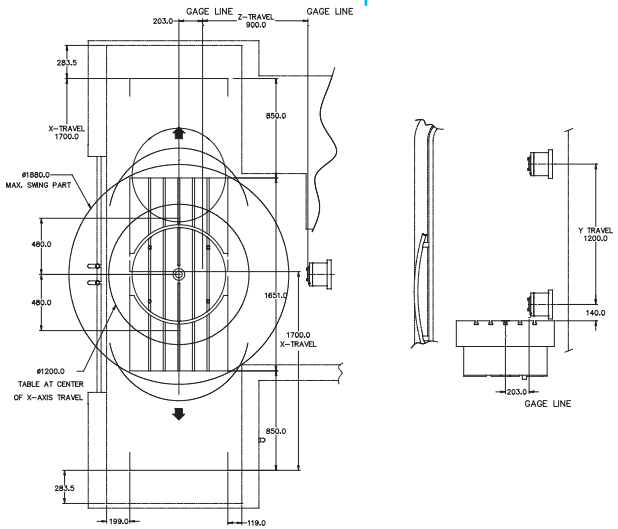


OPERATING DIMENSIONS

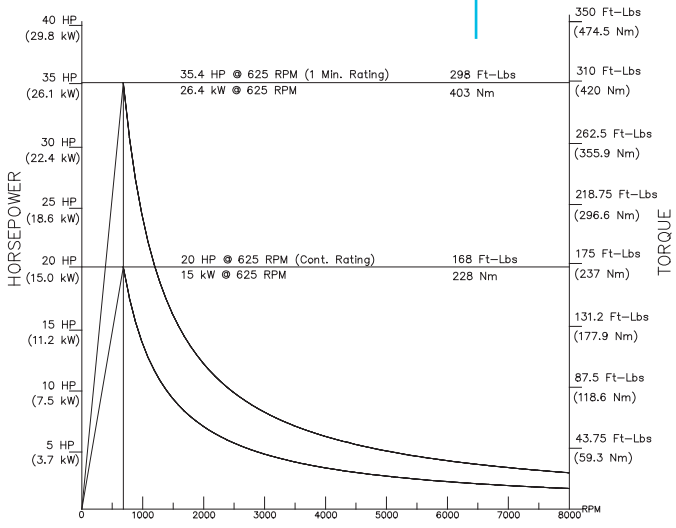


PALLET SPECIFICATION

INTERIOR CLEARANCES



POWER & TORQUE



HM1700Ri

Horizontal machining for low to medium-batch production runs



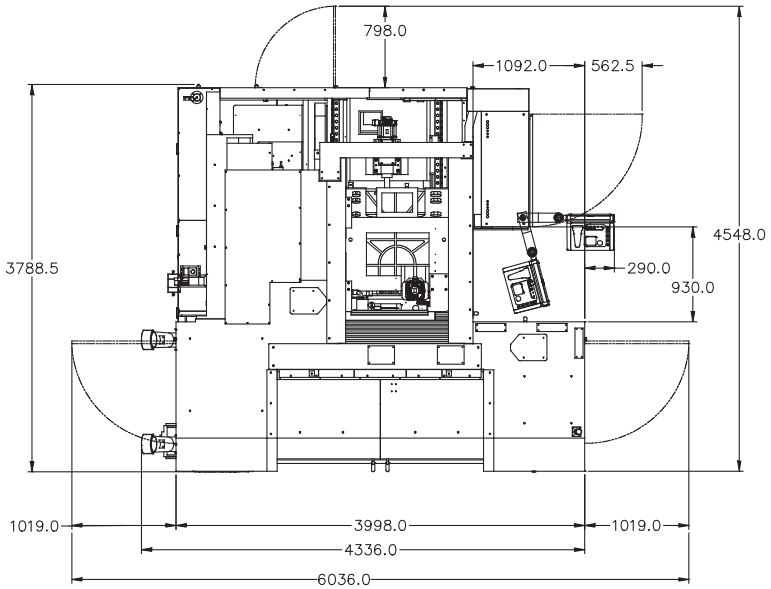
Machine Overview

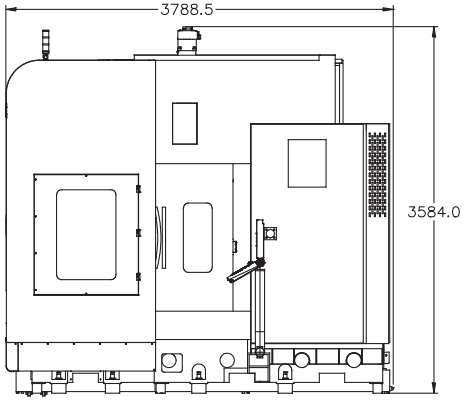
- 67 x 51 x 35 in (1,700 x 1,00 x 900 mm) travels
- 67 x 36 in (1,700 x 914 mm) table, 6,614 lbs (3,000 kg) capacity
- Direct drive B-axis table (torque table)
- 35.4 HP (26.4 kW) peak spindle
- Heavily ribbed fine-grade cast iron frame optimized with Finite Element Analysis (FEA)
- Linear roller guideways on X/Y/Z axes
- 8,000 RPM motorized, liquid cooled spindle
- 1,181 IPM Rapid Traverse Rates X/Z Axis, 787 IPM on Y
- 30 station ATC (60 station optional)
- 3.7 Second tool-to-tool ATC time
- Full enclosure with large access doors in front and side of machine
- Washdown and air gun assembly
- Metal telescopic way covers
- WinMax Mill Conversational and Industry Standard NC programming
- Ergonomically designed MAX5 console with 19" LCD screen
- Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive

Did you know? All Hurco Horizontal machines are equipped with UltiMotion technology (invented by Hurco), which simultaneously reduces cycle time (by up to 30% or more) and improves surface finish quality. Exclusive motion control only available from Hurco.
To learn more, visit Hurco.com/UltiMotion.

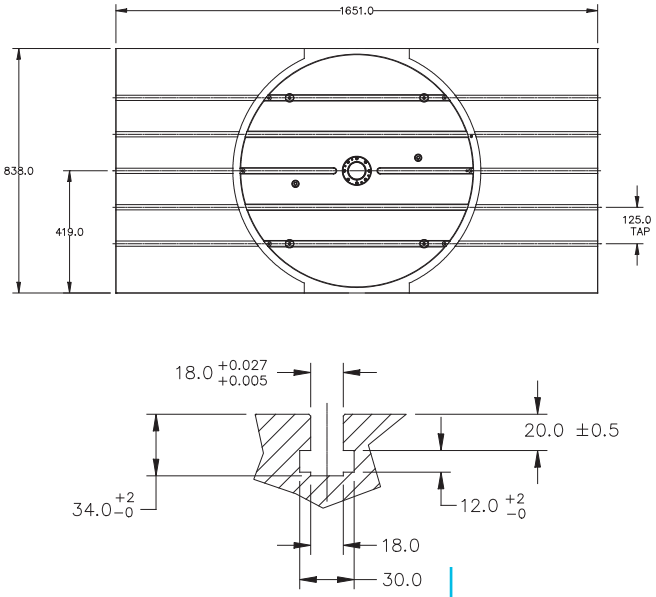
Machine specifications can be found on Page 21

POWER & CAPACITY HM1700Ri



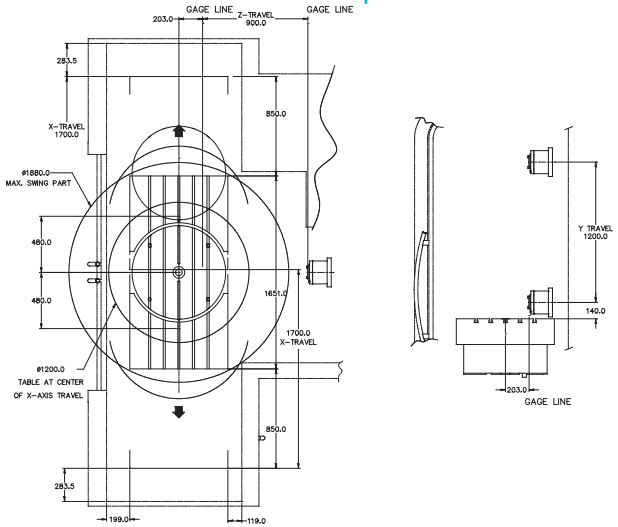


OPERATING DIMENSIONS

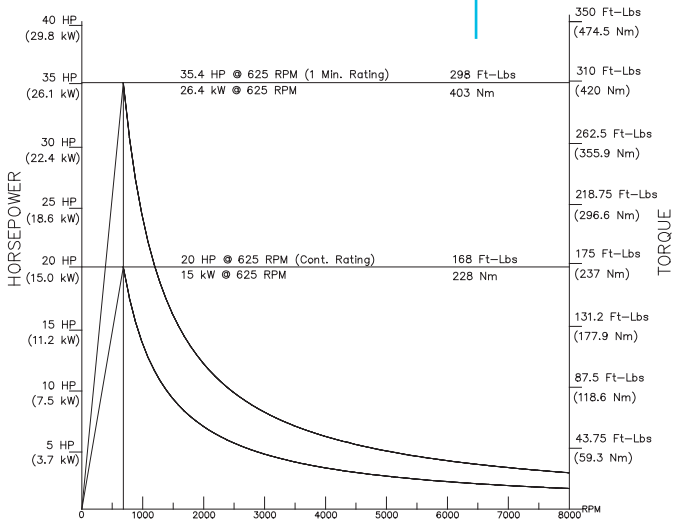


PALLET SPECIFICATION

INTERIOR CLEARANCES



POWER & TORQUE



HBMX55i

Horizontal boring mill with a large work envelope and small footprint



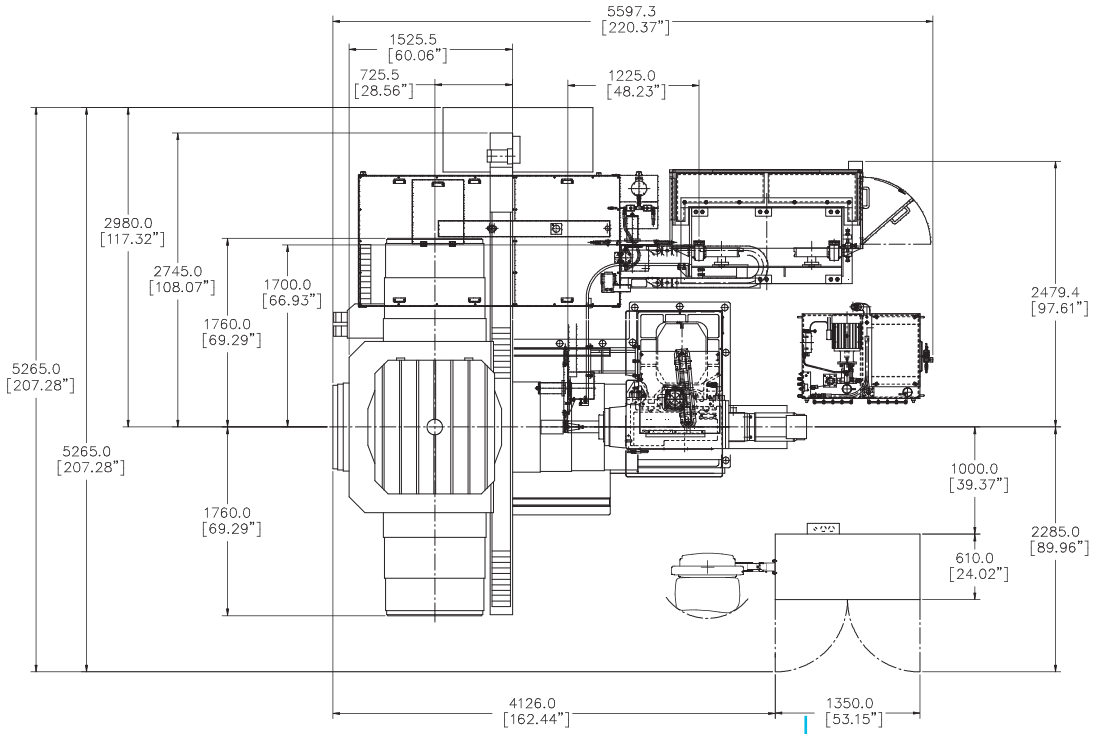
BONUS: Equipped with patented UltiMotion technology. Invented by Hurco. Simultaneously reduce cycle time by up to 30% (or more) and improve surface finish quality with UltiMotion. Exclusive technology only available on Hurco mills.

Machine Overview

- 55.1 x 54.7 x 43.3 in (1,400 x 1,390 x 1,100 mm) travels
- 44.1 x 49.2 in (1,120 x 1,250 mm) table, 8,819 lbs (4,000 kg) capacity
- 2,500 (high gear) 454 (low gear) RPM Spindle
- 40.2 HP (30 kW) peak spindle
- 50T with 60 station automatic swing-arm ATC
- Brushless AC Servos
- WinMax Mill Conversational or NC programming
- Solid cast iron frame
- Box way construction
- 19.7 in (500 mm) travel for W-axis
- 4.3 in (110 mm) quill spindle
- Full contouring B-Axis
- MAX5 ergonomically designed console with two 19" LCD screens
- Robust control specifications (standard) –
  2.7GHz Dual Core Processor, 4GB RAM Memory,
  128GB Solid State Hard Drive, 10,000 block lookahead

Machine specifications can be found on Page 21

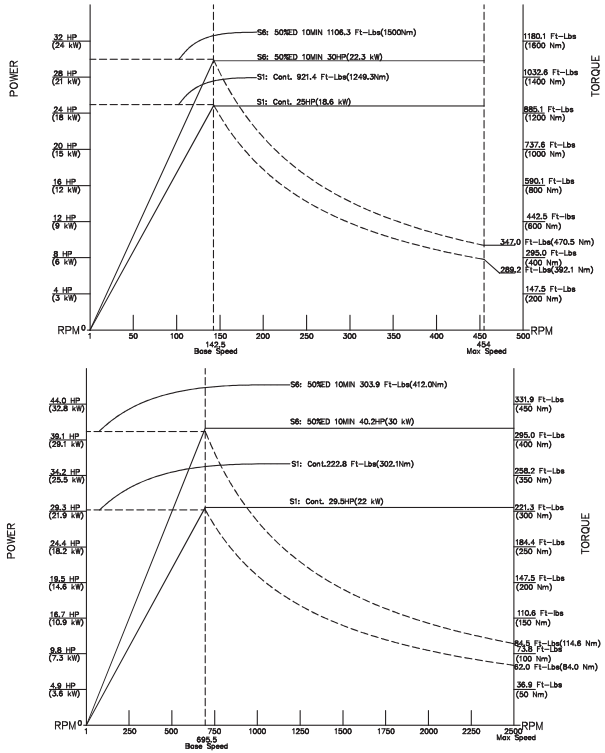
POWER & CAPACITY HBMX55i



OPERATING DIMENSIONS

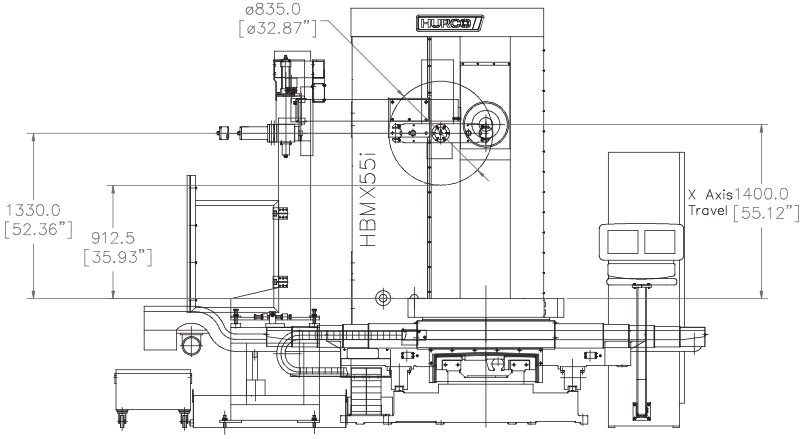
Low gear

High Gear

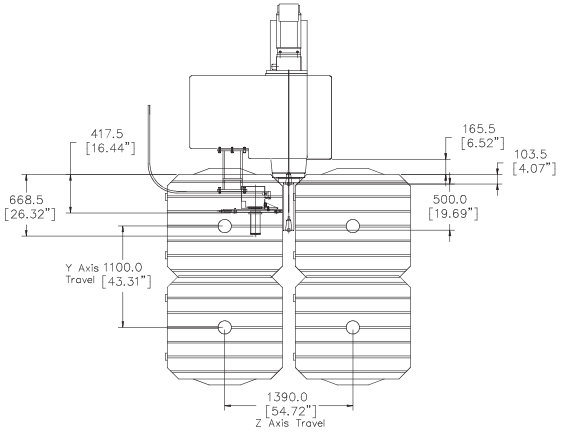


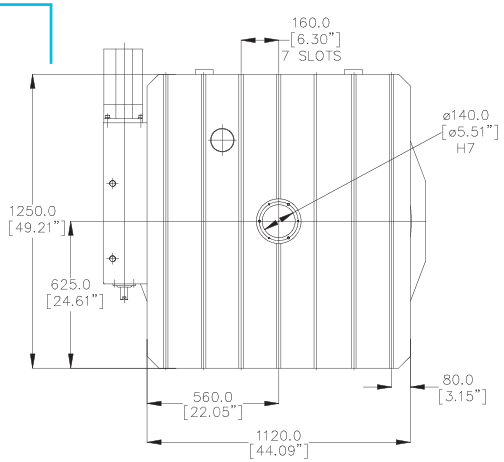
POWER & TORQUE

INTERIOR CLEARANCES



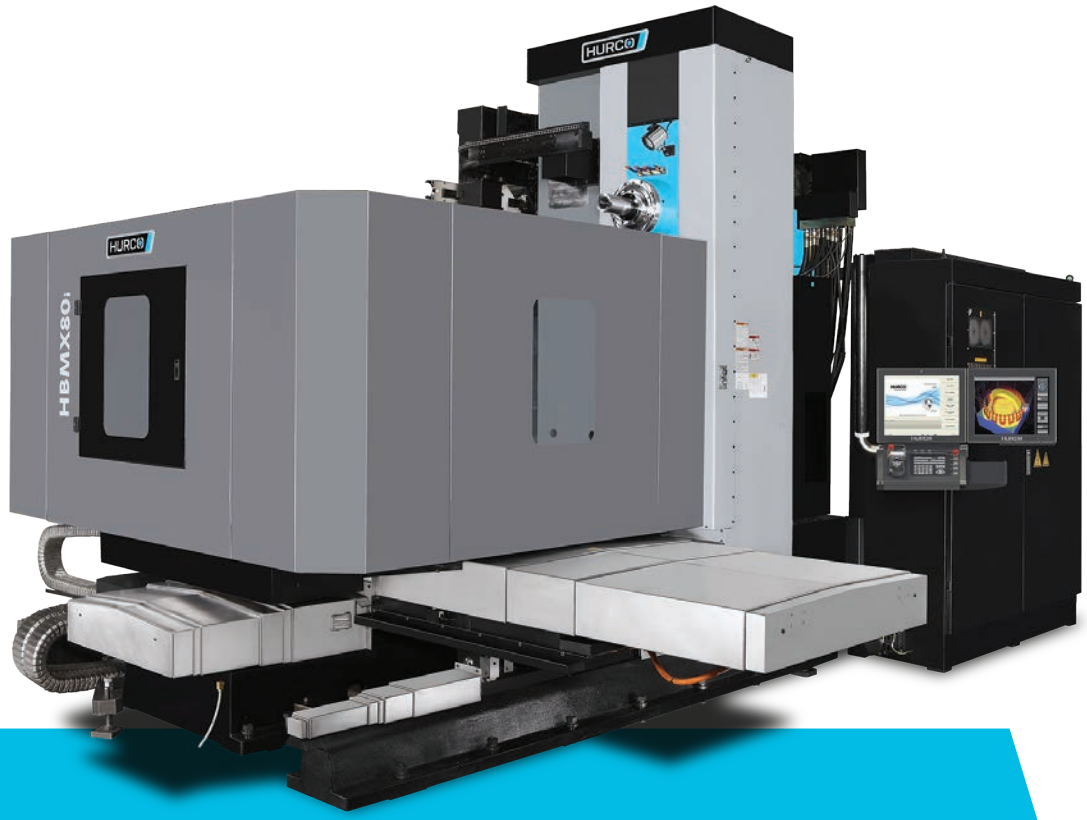
PALLET SPECIFICATION





HBMX80i

Horizontal boring mill with a large work envelope and small footprint



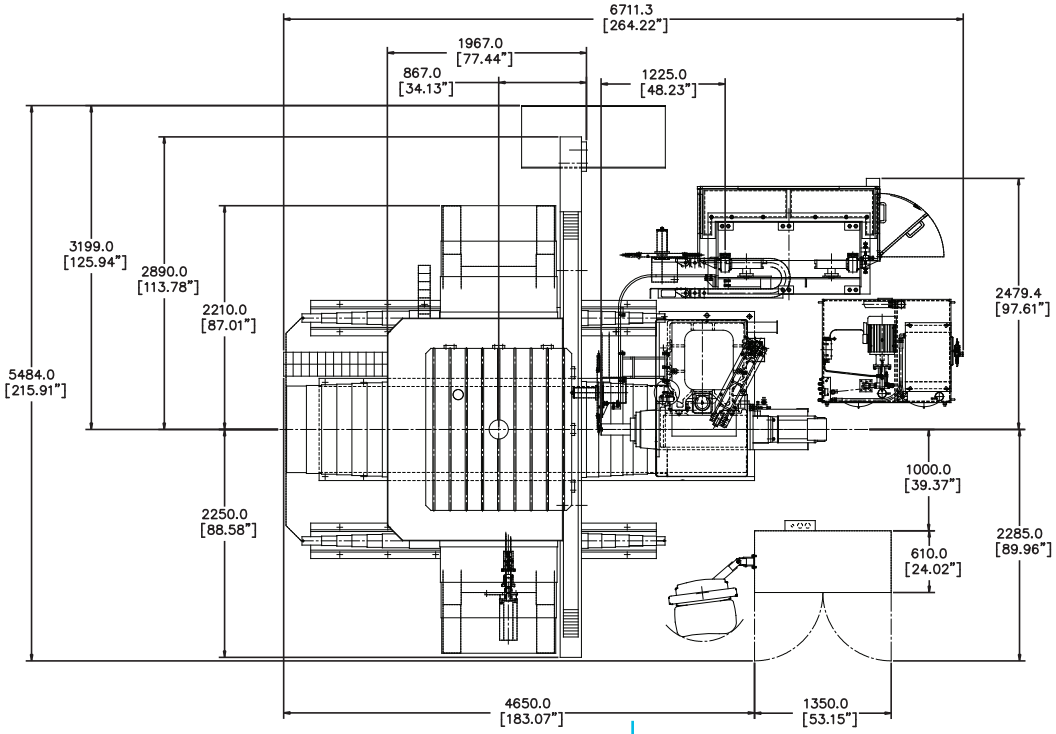
Machine Overview

- 79 x 71 x 67 in (2,000 x 1,780 x 1,700 mm) travels
- 57 x 63 in (1,440 x 1,600 mm) table, 13,860 lbs (6,300 kg) capacity
- 2,500 (high gear) 454 (low gear) RPM Spindle
- 40.2 HP (30 kW) peak spindle
- 50T with 60 station automatic swing-arm ATC
- Brushless AC Servos
- WinMax Mill Conversational or NC programming
- Solid cast iron frame
- Box way construction
- Double-nut pretensioned ball screws
- 19.7 in (500 mm) travel for W-axis
- 4.3 in (110 mm) quill spindle
- Full contouring B-Axis
- MAX5 ergonomically designed console with two 19" LCD screens
- Robust control specifications (standard) –
  2.7GHz Dual Core Processor, 4GB RAM Memory,
  128GB Solid State Hard Drive, 10,000 block lookahead

Did you know? The 3D Import feature on the Hurco control creates Transform Planes automatically for easy three-axis, four and five-sided conversational programming. No need to enter feature dimensions—simply click and cut. Plus, integrated CAD/CAM and tool path simulation. **Find out more at Hurco.com/3DImport.**

Machine specifications can be found on Page 21

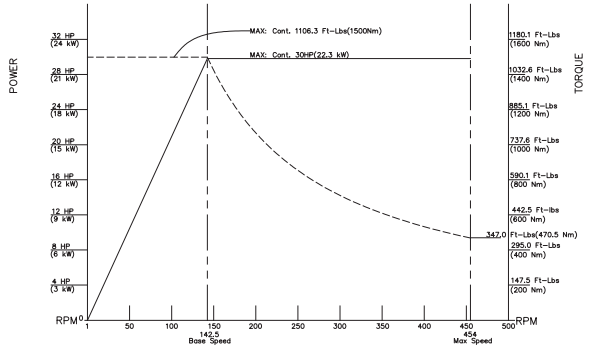
POWER & CAPACITY HBMX80i



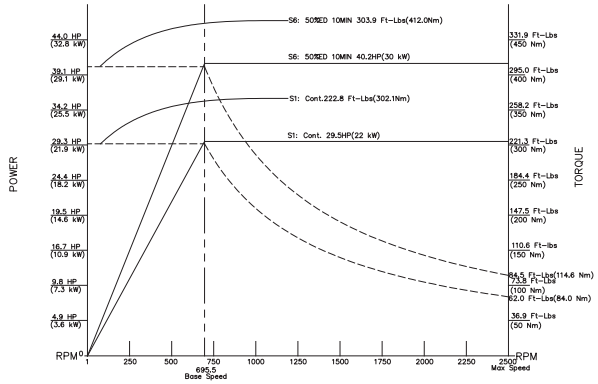
OPERATING DIMENSIONS

POWER & TORQUE

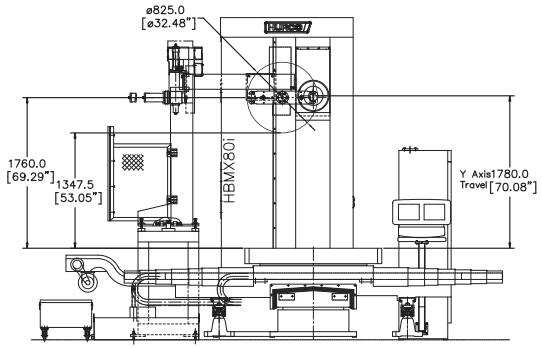
Low gear

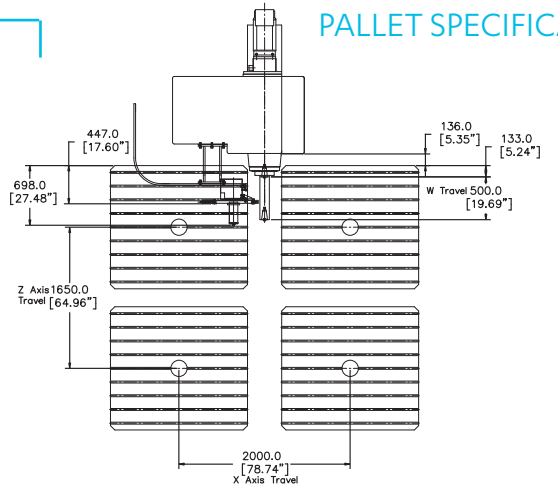


High Gear

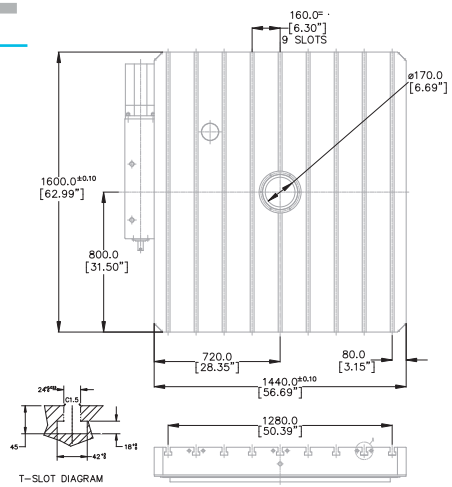


INTERIOR CLEARANCES



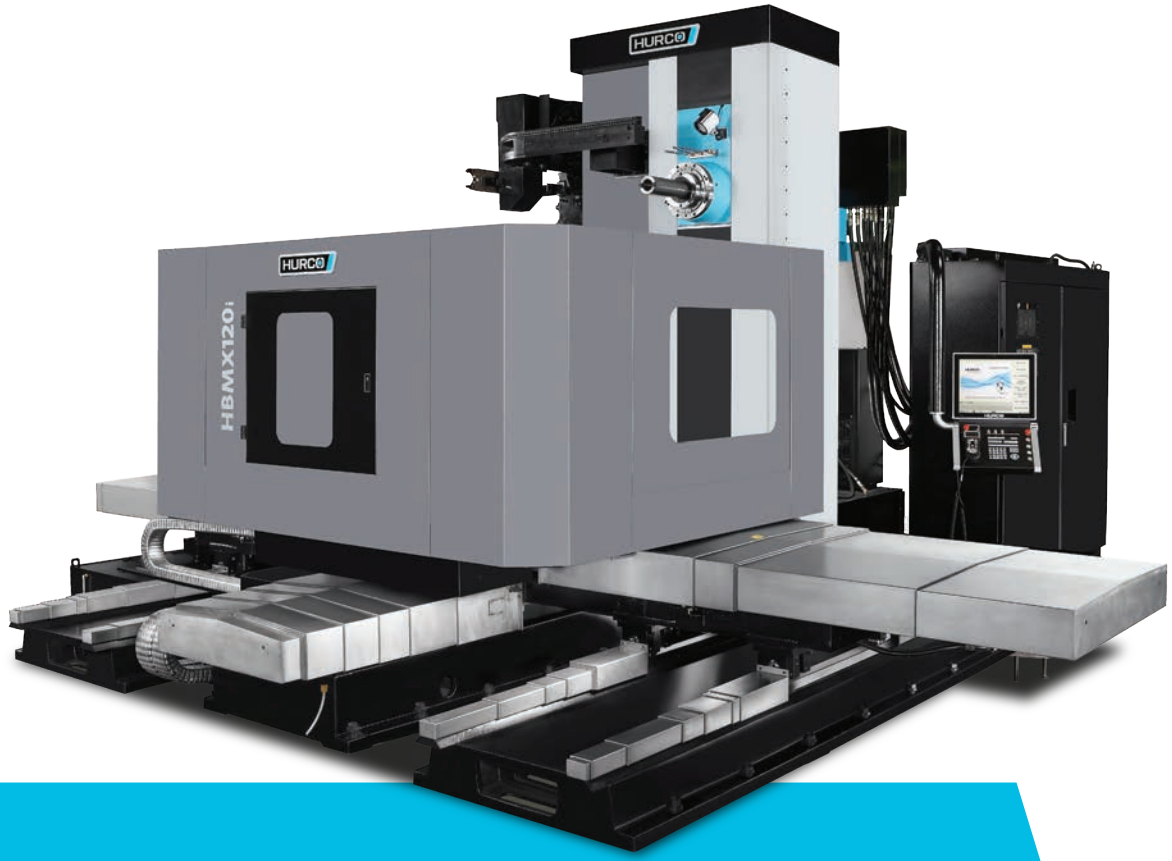


PALLET SPECIFICATION



HBMX120i

Horizontal boring mill that includes the features you need for typical applications instead of requiring them as options

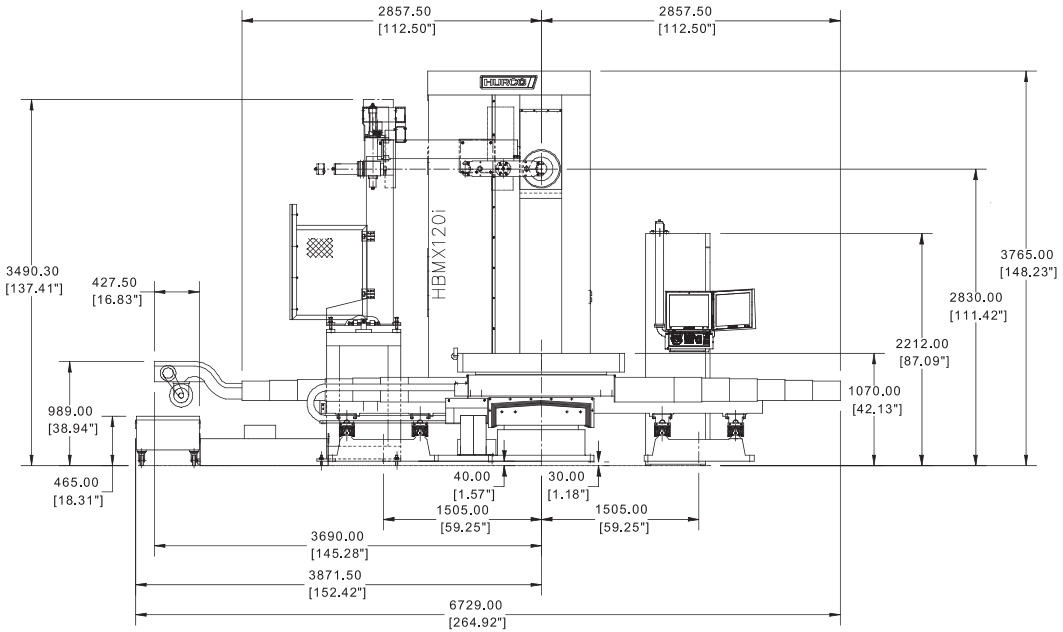


Machine Overview

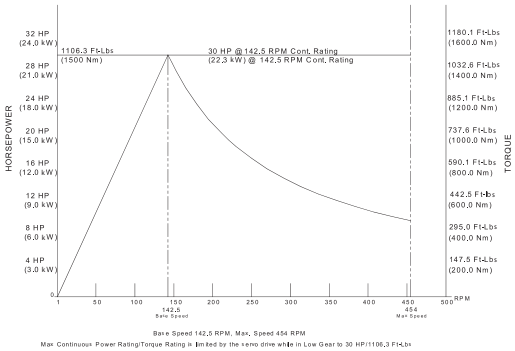
- 118.1 x 70.1 x 66.9 x 19.7 in (3,000 x 1,780 x 1,650 x 500 mm) travels
- 56.7 x 63 in (1,440 x 1,600 mm) table, 13,889 lbs (6,300 kg) capacity
- 2,500 (high gear) 454 (low gear) RPM Spindle
- 40.2 HP (30 kW) peak spindle
- Heavily Ribbed Fine-Grade Cast Iron Frame Optimized with Finite Element Analysis (FEA)
- Box Ways for X,Y, Z Axes
- Direct Drive for X,Y, Z Axes
- Yaskawa Sigma V Digital AC Servos
- Electric Swing-arm 60 Station ATC – Random Access
- Brushless AC Servos
- WinMax Mill Conversational or NC programming
- Solid cast iron frame
- Box way construction
- Double-nut pretensioned ball screws
- 19.7 in (500 mm) travel for W-axis
- 4.3 in (110 mm) quill spindle
- Full contouring B-Axis
- MAX5 ergonomically designed console with two 19" LCD screens
- Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead

Did you know? The easy to use NC editor on the Hurco WinMax control is powerful, useful, and customizable. It has powerful search functions, search and replace, and also displays the meaning of any G-code that is highlighted in the editor.
Find out more at Hurco.com/WinMax.

POWER & CAPACITY HBMX120i

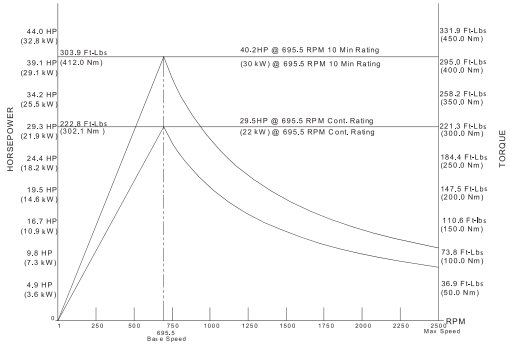


Low gear



Base Speed 142.5 RPM, Max. Speed 454 RPM
Max Continuous Power Rating/Torque Rating is limited by the servo drive while in Low Gear to 30 HP/1106.3 Ft-Lbs

High Gear

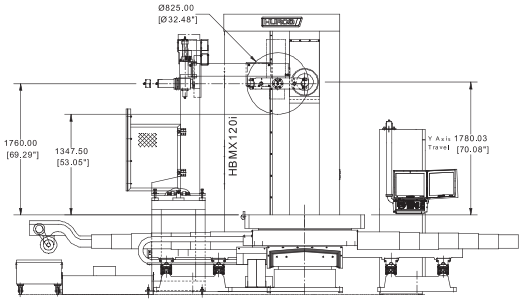


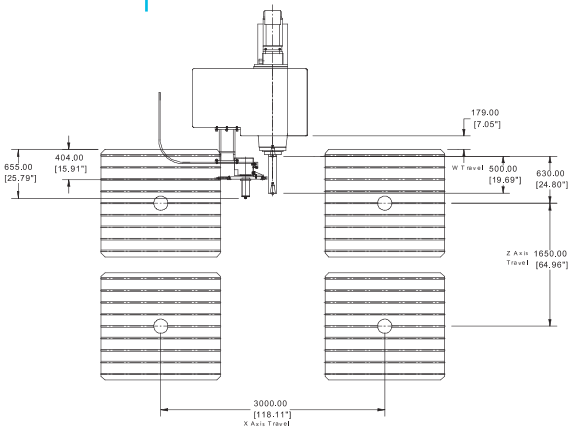
Base Speed 695.5 RPM, Max. Speed 2500 RPM
10min. Power Rating/Torque Rating = 42.2 HP/303.9 Ft-Lbs
Continuous Power Rating/Torque Rating = 29.5 HP/222.8 Ft-Lbs

OPERATING DIMENSIONS

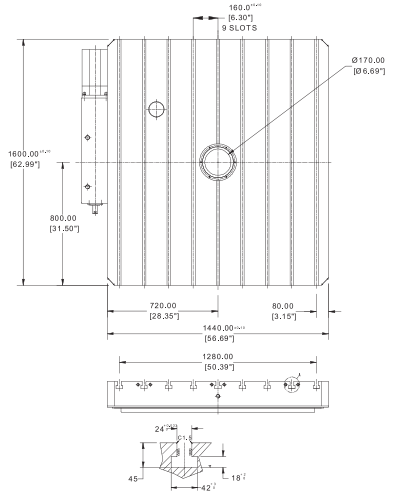
POWER & TORQUE

INTERIOR CLEARANCES





PALLET SPECIFICATION



Designed and built for machinists.

The MAX5 Hurco control is the epitome of user-centric design. Based on the feedback from customers who participated in multiple usability tests of the initial MAX5 console design, we made more than 80 improvements. The ergonomic design of the MAX5 combined with its industry-leading technical specifications maximize productivity, which ultimately helps our customers increase their profit margins.

Industry-Leading Control Specifications (Standard)

- 4GB RAM Memory
- 2.7 GHz Dual Core Processor
- 128GB Solid State Hard drive
- Up to 4,000 bps Processing Speed
- Up to 10,000 block look ahead



» Override knobs with convenient one-press presets



» Buttons designed with tactile cues for enhanced usability



» Adjustable-angle keypad



» Adjustable height control arm



» Flip-Out hook for hanging air nozzles + other tools

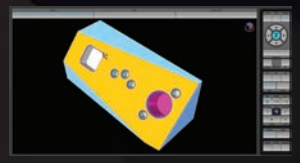


» Retractable QWERTY keyboard with trackball





» 19-inch touch screen LCD with customizable view options.



Full graphics screen



Large DRO with mini graphics



Large graphics with mini DRO

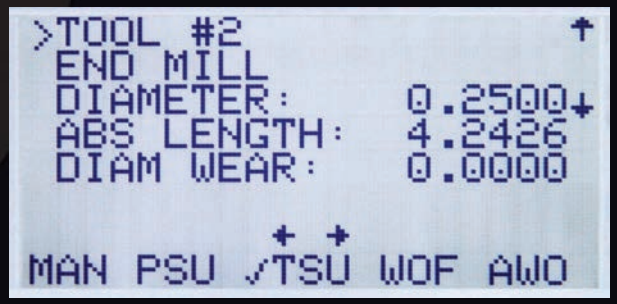
» Webcam

» Additional coolant + air controls

» Dual USB ports

» Remote jog with LCD Digital Read Out lets you store data from the pendant

» Modes such as part setup + tool setup are available from jog units with LCD option



The Industry's Most Flexible Control

- ★ **Industry Standard NC**
- ★ **Conversational**
- ★ **NC/Conversational Merge**

WinMax®



» Integrated flashlight



» Magnetic feet

» Flashlight toggle button

» Wireless remote jog unit option

WINMAX® CONTROL

Our control. Your expertise.

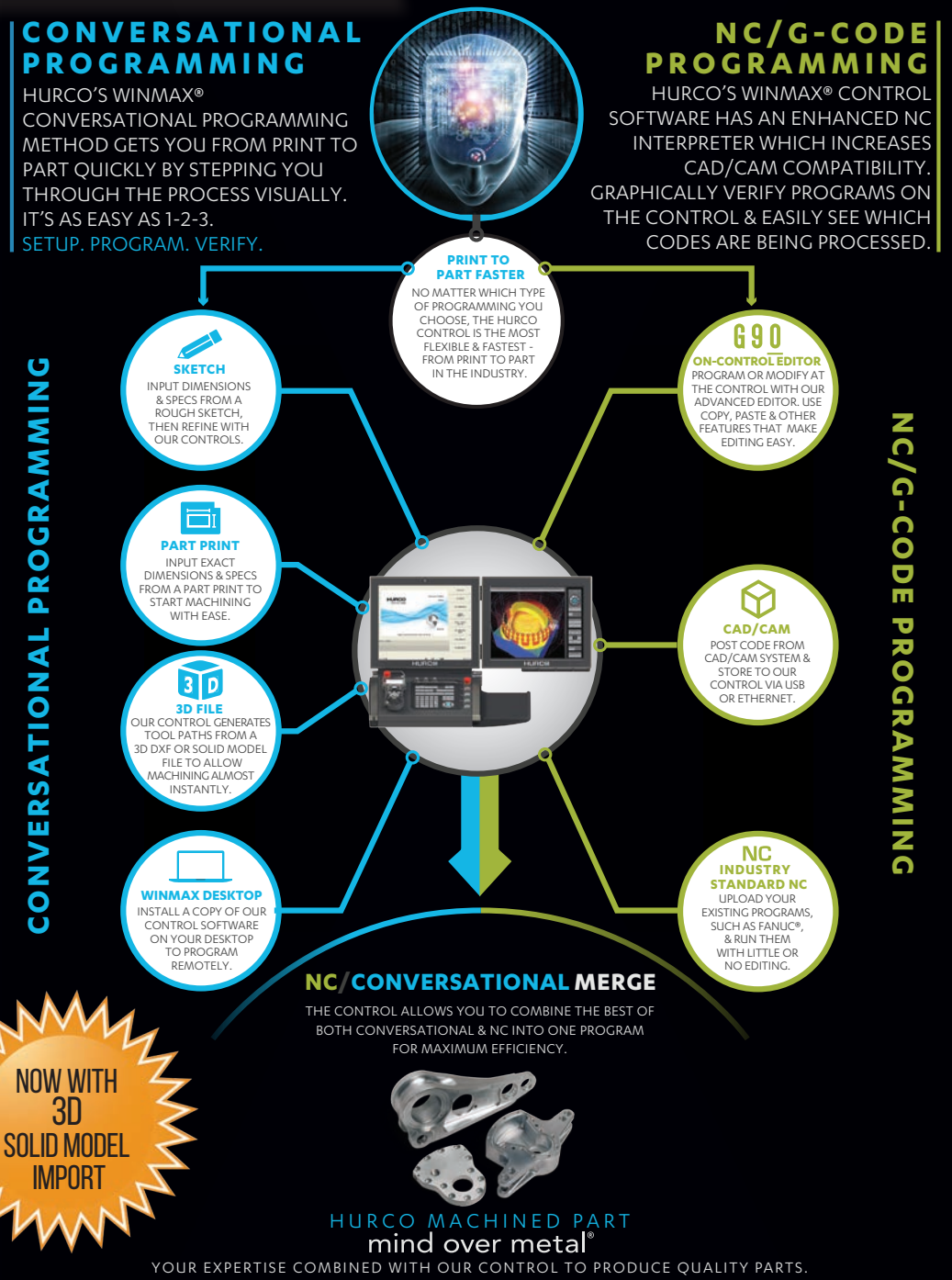
The integrated Hurco control powered by WinMax® is the most flexible and intuitive control in the industry. WinMax offers processing power and an intuitive graphical user interface that supports multiple machining strategies. Hurco Conversational Programming is the gold standard in the industry, and NC Programming includes many high-end features.

Go from print to part faster.

» **Conversational** programming simplifies complex operations. Easy to learn. Intuitive, user-friendly interface.

» **NC with ISO/EIA support** means you don't have to change a thing. Our control can do everything you're doing now and it has the processing speed and memory you need for NC.

» **NC/Conversational Merge** This Hurco feature combines the best of Industry Standard NC and Conversational. NC/Conversational Merge makes it easy to apply conversational features, such as pattern operations, scaling, tool probing, part probing, and unlimited work offsets, to existing NC programs. Patterns include loop rotate, loop translate, loop linear, loop angular, pattern locations, scale, and mirror image.



WINMAX® Software / Features

Latest Features

- 3D Import
- 3D DXF
- AdaptiPath™
- Customizable View Options
- Dynamic Variable Look Ahead capable of up to 10,000 blocks (with UltiMotion®)
- DXF Scaling
- Fast Draw Graphics Engine
- Font Magnification
- Job List
- Mill Frame with Enhanced Corner
- Geometry
- Multiple Options to Store Tool
- NC Work Offsets with Conversational Programming
- Probing Results
- Relative Position DRO
- Roughing Stock Allowance
- Stick Lettering
- Tool Life Management
- TrueType® Fonts Along a Contour
- User Assigned Tool Pockets
- WinMax Desktop Complete

Programming

- 4th Axis Rotary Wrap
- 99 Work Offsets (NC)
- 99 Tool Offsets (NC)
- AutoCalc
- Autosave
- Blend Arcs
- Canned Cycle Blocks
- Chamfers
- Comment Block
- Concurrent Programming
- Context Sensitive Help
- Drill/Dwell Cycles (Chip Break + Peck)
- Drilling and Boring with Inserted Drill
- DXF Transfer
- Frame Mill
- Helical Interpolation
- Hole Operations – Tap, Drill, Center Drill, Dwell and Ream
- Inch/Metric Programming
- Indexer Routine
- Industry Standard NC (ISNC)
- Language Toggle
- Lines & Arcs
- Linear Repeat
- Mirror Image
- M-Code Auxiliary Functions
- NC/Conversational Merge
- NC Editor
- NC Macro Package (NCMP)
- NC Probing Cycles
- NC Productivity Package (NCPP)
- Pattern (Scaling, Rotation, Translation)
- On-screen User Prompt
- Optional Stop
- Parts Counter
- Part Zero Shift
- Peck Mill
- Program Manager Functions
- Program Parameters
- Program Review with Cut/Copy/Paste
- Programmable Safety Zones
- Rectangular Repeat
- Rigid Tap
- Roughing Stock Allowance
- Select Surface Finish Quality (SFQ)
- Serial Number (Letter & Part Serialization)
- Slots
- Speed and Feed Edit while Running
- Swept Surface with 3D Mold
- Thread Milling
- Tool Setup and Review with Graphics
- Tool & Material Library
- Tool Change Optimization
- TrueType® Lettering Package
- UltiPocket with Helical Ramp Entry
- Unlimited Work Offsets (Conversational)

Verification

- 3D Solid Rendering
- Automatic Error Check
- Advanced Verification Graphics with
- Data Block Search
- Graphics Display (Tool Path, Solids,
- Projection in 3 Planes, Isometric)
- Graphics Error Verification
- Graphics Scaling
- Graphics Zoom
- Real Time Tool Simulation
- Wire frame graphics of part geometry with zoom. Includes error verification

Operational

- 128GB Solid State Hard Drive
- 2.7 GHz Dual Core Processor
- 4GB RAM Memory
- Auto Interrupt Cycle
- Automatic Tool Home
- Control and Machine Diagnostics
- Coolant Select (Dual)
- Distance To Go
- Estimated Run Time
- Feed Hold Button
- Feedrate Override
- Inch/Metric Toggle
- Programmable Feedrate
- Spindle Load Monitor
- UltiMonitor®
- UltiMotion®



5-Axis

- 3D Tool Compensation
- Automatic Safe Repositioning
- Rotary Axes Centerline Probing
- Shortest Angular Traverse
- Tool Center Point Management
- Tool Path Linearization
- Transform Plane
- Tool Vector Canned Cycles
- Tool Vector Input & Retract
- Universal Rotary

New Feature:

3D Import with 3D DXF Technology

Hurco's 3D Import feature includes 3D DXF technology that now displays all CAD geometry, including splines and Z-depths.

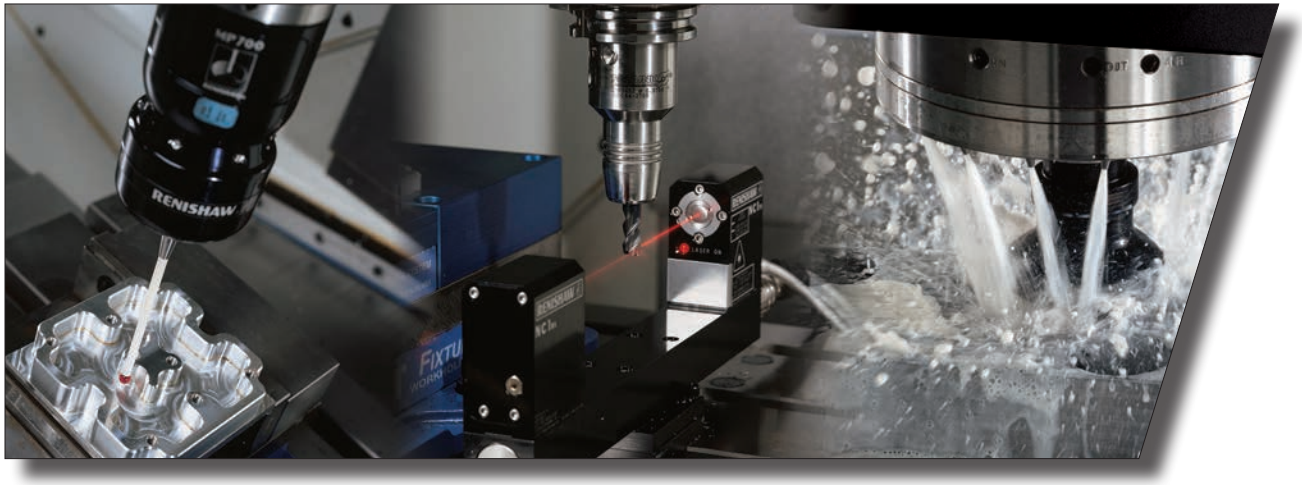
- Integrated CAD/CAM and tool path simulation
- No need to enter feature dimensions – simply click and cut
- Transform Planes created automatically for easy 5-sided conversational programming – no data entry required

Lathe

- Auto Tool Nose Radius Compensation
- Bar Feed Cycle Blocks
- Bar Puller Data Block
- Constant Surface Speed, Selectable
- Cutoff Cycle Blocks
- Diameter/Radius Programming Modes
- Drill Tip Compensation
- Grooving Cycle- chamfer, radius, or square corners with ability to taper the groove walls from the on-screen menu
- ID/OD Profile Turning with face, turn, taper, arc with blend arcs or chamfers between elements
- Internal/External Chucking
- Lead-in and out angles, multi-start, constant or decreasing depth of cut.
- Thread Cycle Blocks – inside or outside(straight or tapered)
- Thread Repair
- Turret Index Control (Auto/Manual)
- Spindle Harmonic Control

ACCESSORIES

» Productivity Options



Rotary Tables Hurco rotary tables include a generous through-hole and the ability to be horizontally or vertically mounted. Other advantages include dual lead worm for increased rigidity; cross roller bearing to provide a compact design, low friction, cooler operating temperatures, and increased rigidity; and disc brake for positive clamping and low distortion.

Coolant Through the Spindle (CTS) Hurco's CTS has two times the flow rate (measured in gallons per minute) than the competition. If you're doing deep hole drilling, CTS will pay for itself quickly with increased productivity and extended tool life. CTS is also recommended for pocket milling because you can cut faster and your tools last longer. Additionally, CTS provides cooling to fight heat dissipation, which helps to preserve accuracy. Hurco offers 300 and 1,000 psi CTS options.

Thermal Stabilization Package Our spindle oil chiller is thermostatically controlled to ward against spindle head growth. It is the most efficient way to preserve spindle life and preserve accuracy.

Part Probing Hurco offers a Conversational Part Probing package with fully-featured conversational data blocks that allow you to execute hands-free part and inspection probing, and full support of Renishaw® part probing (see page 45 for more information).

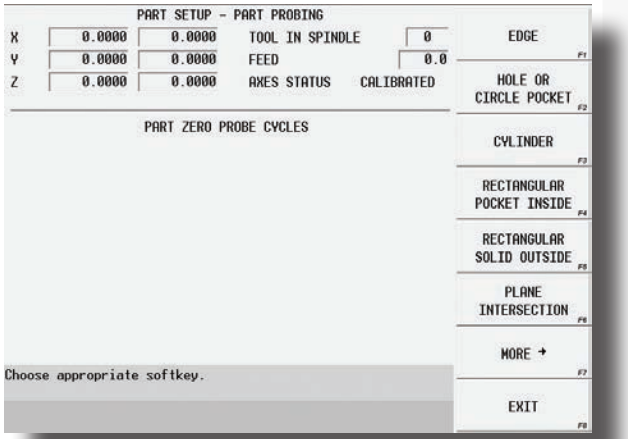
Tool Probing Hurco has two compact, yet robust, tool setting probe packages for accurate measurement of tool length and diameter in a free spindle state or in rotation. The basic package uses a stylus touch application and the non-contact package uses a laser beam non-contact application, and full support of Renishaw® tool probing (see page 45 for more information).

PART & TOOL PROBING

Why spend 30 minutes aligning your part to the machine when you can align the machine to the part in just 30 seconds with Hurco Conversational Probing?

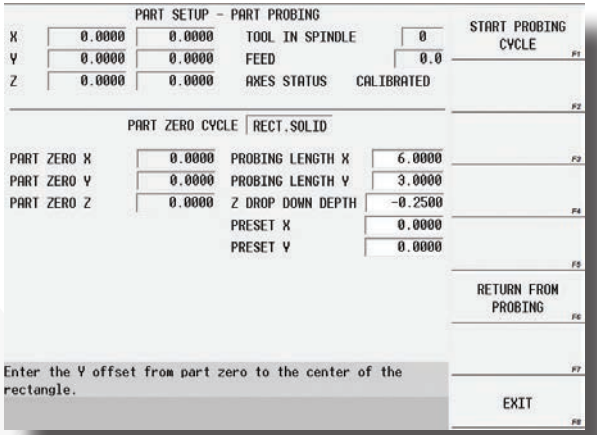
```
N300
M1(TEST 3-CALIBRATE "Z" AXIS-UPDATE-)
(PROBE TOOL OFFSET NUMBER)
(PROTECTED POSITION OVER Z SURFACE)
(MEASURE TOP SURFACE-Z DATUM)
(Protected Positioning Move)
G65 P9810 X1.49Y-4.1F100
G65 P9811 Z-.167 W1
#100=#137
G90G31Z1.
N400
M1(TEST 4-MEASURE CENTER OF RECT POCKET)
(STORED IN WORK OFFSET 57)
(Position over pocket)
G90 G31 X4.65 Y-1.85 F100
(Protected Position Move)
G91 G65 P9810 Z-.167 F100.
(Measure Pocket in X Y Place in G57 Offset)
G65 P9812 X1.75 W1
G65 P9812 Y1.75 W1
G90G31Z1.
```

If you don't have Hurco conversational probing, this is an example of the NC Macros you will need to navigate. Difficult to look at, not to mention time consuming, since you have to enter all kinds of information to make the macro program useful.



This is the Hurco MAX5 screen that shows all the probing cycles available: Edge, Hole or Circle Pocket, Cylinder, Rectangular Pocket Inside, Rectangular Solid Outside, Plane Intersection, Slot Inside, Web Outside.

It's really this easy



This is an example of how easy it is to probe a Rectangular Solid. Simply enter the dimensions of the part in X & Y, add the drop down distance, and press START PROBING CYCLE softkey.

» *Machinist's Favorite: Hurco Skew Probe Cycles*

Part Skew Probe Cycles allow the operator to probe a part for skew, which eliminates the need to indicate large parts straight before running the program. The Skew cycle will "skew" the program to match the skewed angle of the part on the table.
List of Skew Cycles: Edge, Hole or Circle Pocket, Cylinder, Rectangular Pocket Inside, Rectangular Solid Outside, Two Point Edge.

STANDARD & OPTIONAL ITEMS	HM1700i	HM1700Ri	HBMX55i	HBMX80i	HBMX120i
Dual wound AC spindle motor	S	S	S	S	S
Geared, liquid cooled spindle	—	—	S	S	S
Spindle thermal chiller	S	S	S	S	S
Spindle air purge and blast	S	S	S	S	S
Advanced motion control with AC brushless servos	S	S	S	S	S
Remote jog	S	S	S	S	S
Fine grain, all cast frame designed with FEA	S	S	S	S	S
Oversized linear guideways	S	S	—	—	—
Hardened box ways	—	—	S	S	S
Double-nut pretensioned ball screws	S	S	S	S	S
Linear glass scales X, Y, Z	O	O	O	O	O
Automatic central lubrication system	S	S	S	S	S
Way lube separation system	O	O	O	O	O
ANSI door interlock (B11.23)	S	S	S	S	S
Automatic swing-arm tool changer	S	S	S	S	S
Expanded station tool changer	O	O	—	—	—
BT tool changer conversion	O	O	O	O	O
Lift-up chip conveyor	S	S	S	S	S
Enclosure wash down system	S	S	—	—	—
Wash down & air gun	S	S	S	S	S
Flood coolant system	S	S	S	S	S
Coolant thru spindle	S	S	S	S	S
LED work light(s)	S	S	S	S	S
Power cabinet heat exchanger	S	S	S	S	S
Control cabinet air conditioner	O	O	O	O	O
Renishaw part probing	O	O	O	O	O
Renishaw tool probing	O	O	O	O	O
Extended parts warranty	O	O	O	O	O

S = Standard | O = Option | — = Not Applicable

HURCO®

BUILT FOR ACCURACY & RELIABILITY

The MAX5 Control Powered by WinMax®



New Feature:

3D Import with 3D DXF Technology

Hurco's 3D Import feature includes 3D DXF technology that now displays all CAD geometry, including splines and Z-depths.

To learn more scan the QR code

or visit **HURCO.com/3DImport**

Information may change without notice. Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.

SPECIFICATIONS

		HM1700i	HM1700Ri	HBMX55i	HBMX80i	HBMX120i
CAPACITY	Table size	67 x 36 in (1,700 x 914 mm)	65 x 33 in (1,650 x 840 mm)	44.1 x 49.2 in (1,120 x 1,250 mm)	56.7 x 63 in (1,440 x 1,600 mm)	56.7 x 63 in (1,440 x 1,600 mm)
	Maximum weight on machine table	6,614 lbs (3,000 kg)	4,410 lbs (2,000 kg)	8,819 lbs (4,000 kg)	13,889 lbs (6,299 kg)	13,889 lbs (6,299 kg)
	Spindle nose to table min / max	8 in (203 mm) / 43.4 in (1,102 mm)	8 in (203 mm) / 43.4 in (1,102 mm)	28.3 (720 mm) / 71.7 in (1,820 mm)	22.8 in (579 mm) to 89.8 in (2,280 mm) SPINDLE NOSE TO PALLET CENTER	5.1 in (129 mm) to 89.8 in (2,280 mm) SPINDLE NOSE TO PALLET CENTER
	Table t-slots	7 (177 mm) x .7 in (17 mm) on 4.92 in (124 mm) centers	7 (177 mm) x .7 in (17 mm) on 4.92 in (124 mm) centers	7 (177 mm) x 0.9 in (22 mm)	9 (228 mm) x 0.9 in (22 mm) on 6.3 in (160 mm) centers	9 (228 mm) x 0.9 in (22 mm) on 6.3 in (160 mm) centers
TRAVEL	X-axis	67 in (1,700 mm)	67 in (1,700 mm)	55.1 in (1,400 mm)	78.7 in (1,998 mm)	118.1 in (3,000 mm)
	Y-axis	51 in (1,300 mm)	47 in (1,200 mm)	54.7 in (1,389 mm)	70.1 in (1,780 mm)	70.1 in (1,780 mm)
	Z-axis	35 in (900 mm)	35 in (900 mm)	43.3 in (1,099 mm)	66.9 in (1,699 mm)	66.9 in (1,699 mm)
	B-axis	Continuous	Continuous	Continuous	Continuous	Continuous
	W-axis	—	—	4.3 in (109 mm) diameter / 19.7 in (500 mm) stroke	4.3 in (109 mm) diameter / 19.7 in (500 mm) stroke	19.7 in (500 mm)
SPINDLE	Maximum spindle speed / tool type	8,000 rpm / CAT 50	8,000 rpm / CAT 50	8-454 rpm low gear / 8-2,500 rpm high gear / CAT 50	8-454 rpm low gear / 8-2,500 rpm high gear / CAT 50	8-454 rpm low gear / 8-2,500 rpm high gear / CAT 50
	Spindle power (peak)	35.4 hp (26.4 kW) @ 625 rpm	35.4 hp (26.4 kW) @ 625 rpm	40.2 hp (29.9 kW) @ 695.5 rpm	40.2 hp (29.9 kW) @ 695.5 rpm	40.2 hp (29.9 kW) @ 695.5 rpm
	Spindle torque (peak)	298 ft-lbs (403 Nm)	298 ft-lbs (403 Nm)	1,106.3 ft-lbs (1,499 Nm) low gear / 303.9 ft-lbs (412 Nm) high gear	1,106.3 ft-lbs (1,499 Nm) low gear / 303.9 ft-lbs (412 Nm) high gear	1,106.3 ft-lbs (1,499 Nm) low gear / 303.9 ft-lbs (412 Nm) high gear
ATC	Tool capacity / (optional)	30	30	60	60 (90 optional)	60 (90 optional)
	Maximum tool diameter	4.7 in (120 mm)	4.7 in (120 mm)	4.7 in (120 mm)	4.7 in (120 mm)	4.7 in (120 mm)
	Maximum tool length	11.8 in (300 mm)	11.8 in (300 mm)	15.7 in (398 mm)	15.7 in (398 mm)	15.7 in (398 mm)
	Maximum tool weight	44 lbs (20 kg)	44 lbs (20 kg)	55.1 lbs (25 kg)	55.1 lbs (25 kg)	55.1 lbs (25 kg)
	Tool to tool ATC time	3.7 sec	3.7 sec	15 sec	15 sec	15 sec
FEEDRATE	Rapid Traverse XYZ per minute	XZ = 1,81 in (30 m)	XZ = 1,81 in (30 m)	XYZ = 393.7 in (10 m)	XYZ = 393.7 in (10 m)	XYZ = 393.7 in (10 m)
		Y = 787 in (20 m)	Y = 787 in (20 m)	W = 157.5 in (4 m)	W = 157.5 in (4 m)	W = 157.5 in (4 m)
	Prog. feedrate per minute	787 in (20 m) unlimited*	787 in (20 m) unlimited*	393.7 in (10 m)	393.7 in (10 m)	393.7 in (10 m)
	B-axis maximum rpm	50 rpm	50 rpm	1 rpm	1 rpm	1 rpm
	W-axis per minute	—	—	157.5 in (4 m)	157.5 in (4 m)	157.5 in (4 m)
SIZE	Required floor space	237.6 x 179 in (6,036 x 4,548 mm)	237.6 x 179 in (6,036 x 4,548 mm)	220.4 x 207.3 in (5,598 x 5,265 mm)	256.2 x 209.1 in (6,507 x 5,311 mm)	264.7 x 287.6 in (6,723 x 7,305 mm)
	Machine height	141 in (3,584 mm)	141 in (3,584 mm)	132.7 in (3,370 mm)	150 in (3,810 mm)	150 in (3,810 mm)
	Machine weight	39,690 lbs (18,003 kg)	44,517 lb (20,235 kg)	42,328 lbs (19,199 kg)	48,501 lbs (21,999 kg)	56,218 lbs (25,500 kg)
	Power rating / full load KVA	152 KVA	152 KVA	67 KVA	88 KVA	89 KVA

Information may change without notice. Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.

A History of Innovation

Hurco has been advancing the manufacturing industry for over 50 years. From the first computer controlled back gauge in 1969 to our patented UltiMotion system, we are dedicated to technology innovation that makes manufacturing more efficient and manufacturing companies more profitable.



1968 Hurco founded by Edward Humston and Gerald Roch

1969 First product introduced (Autobend). Hurco exhibits first computer controlled back gauge.



1971 Hurco becomes publicly held company (Nasdaq: HURC)

1974 Hurco demonstrates first computer numerically controlled (CNC) mill at IMTS

1976 Hurco invents Conversational Programming

1978 First CNC mill Introduced (KM1)



1979 Hurco Europe established

1984 UltiMax control introduced



1986 BMC machining centers introduced



1987 UltiMax 2 control introduced



1988 Hurco Germany established

1991 Hurco France established

Hurco Southeast Asia established

Hurco opens new international headquarters



1992 DXF Transfer invented

1995 IMS Technologies established to oversee patent licensing

UltiMax 3 control introduced

1996 MAX single-screen control introduced



1997 VMX machining centers introduced

HURCO®

mind over metal®

1998



UltiMax 4 control introduced

1999

Hurco Italy established

Hurco Manufacturing Ltd established

2000



WinMax Desktop software released

2003

VM machining centers introduced



First Hurco 5-axis machine introduced



2004



TM turning centers introduced

2005

Record sales

2006



WinMax control software released

TMM turning centers with live tooling introduced

SR 5-axis machining centers introduced

Record sales

2008

Hurco India established

TMX turning centers introduced

U-Series 5-Axis machining centers expanded

DCX double column machining centers introduced



2010



TM and TMX Series expanded to include heavy-duty turning and multi-axis

Hurco invents UltiMotion®

Hurco China established

2012

Global rebranding initiative launched

New “i” series machine design introduced

HSi high speed machining centers introduced

SRTi 5-axis machines introduced



2013

Hurco acquires LCM

USA machine assembly operation established

2014

HBMXi boring mills introduced



2015



MAX5 control introduced

Hurco acquires Milltronics and Takumi

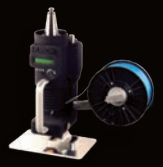
2016

Record sales

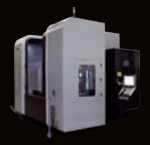
BXi machining centers introduced



3D print head introduced



2017



HM horizontal machining centers introduced

Record sales

2018

50th Anniversary

Nasdaq Closing Bell Ceremony



Record sales

HURCO.com

MACHINING CENTERS / TURNING CENTERS / 5-AXIS / DOUBLE COLUMN / BORING MILLS

HURCO NORTH AMERICA
A DIVISION OF HURCO COMPANIES, INC.

HURCO CORPORATE HEADQUARTERS
ONE TECHNOLOGY WAY / P. O. BOX 68180
INDIANAPOLIS, IN 46268-0180
800.634.2416

© 2019 Hurco Companies, Inc. Printed in USA.
Information may change without notice.
Company and product names mentioned herein are trademarks of their respective companies.
704-3001-042 Rev. A T497|07.19