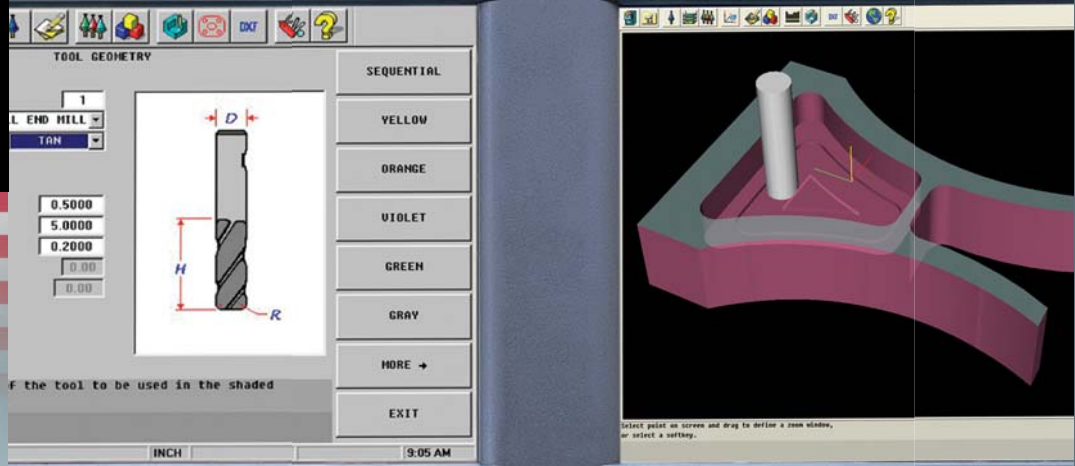


**HURCO**  
USA



The simplicity of truly  
powerful technology  
combined with machines  
that are precise, fast, and  
reliable means measurable  
productivity improvements  
for our customers.



SOFTWARE

MACHINING

TURNING

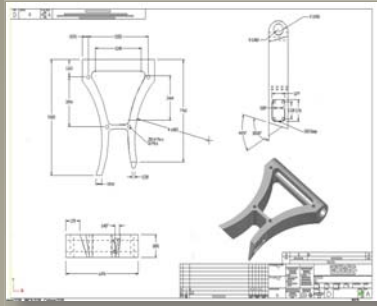
# We're focused on your success.

Whether you're just starting your business or in charge of a high production operation for a big company, Hurco has the perfect machine tool for you. We continue to expand our product line to meet the needs of our customers—who continue to grow. New segments. New parts. New customers. Whether you're one of our loyal Hurco customers who has grown with us through our 40 year history or new to Hurco, your business will benefit from the technology we develop.

It starts with the solid, cast iron construction of reliable machine tools that are rigid and reliable—that's a given. What sets us apart is our technology. When you buy a Hurco machine tool, you're investing in the technology that drives our integrated control. Our technology is the most efficient way for you to increase productivity and profitability.

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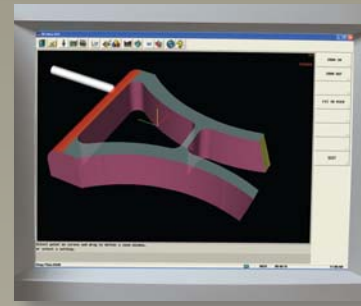
# The best control in the industry.



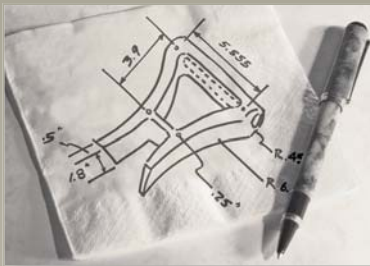
Minimum Dimensions Drawing



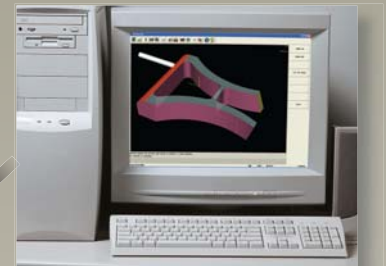
CAD/DXF Files



CAD/CAM Station



Simple Sketch



Desktop



Control Features/Options	WinMax® Software/Automation Packages		
Conversational Programming NC (G-Code) Programming 12-Inch Color LCD Touch Screen Monitor Dual 12-Inch Color LCD Touch Screen Monitors Up to 40 GB Capacity Hard Drive 2 GB RAM 64 Bit Chip Set Technology 3.5" Floppy Disk Drive USB 2.0 Port RS-232 Port, VMC (2), Lathes (1) Text Input Capabilities Up to 600 ipm Programmable Feed-Rate 600 Block Look-Ahead Up to 2,277 bps Processing Speed Multi Processor DSP Motion Control System Power On Diagnostics On Screen System Configuration Recovery Cycle RPM Override Single Cycle Mode Stop Cycle Button	Advanced Verification Graphics with 3D Solid Rendering Auto Interrupt Cycle Automatic Tool Home Backlash Compensation Concurrent Programming (Conversational & NC) Context Sensitive Help Control and Machine Diagnostics Data Block Search Displayed Spindle Load Monitor Distance To Go (Conversational & NC) DXF Transfer Feed Hold Button Feed-Rate Override 4th Axis Rotary Wrap Frame Mill Graphics Display (Tool Path, Solids, Projection in 3 Planes, Isometric) Graphics Error Verification Graphics Scaling Graphics Zoom	Helical Interpolation Inch-Metric Programming Indexer Routine Industry Standard NC (ISNC) Leadscrew Compensation Linear Repeat Mirror Image 99 Work Offsets (G-Code) NC/Conversational Merge NC Probing Canned Cycles NC Productivity Package (NCP) Parts Counter Part Probing Pattern (Scaling, Rotation, Translation) Peck Mill Program Manager Function Program Parameters Program Review with Cut/Copy/Paste Programmable Safety Zones Real Time Tool Simulation Rectangular Repeat	Rigid Tap SelectSurface Finish Quality (SFQ) Simultaneous 5-Axis Speed and Feed Edit while Running Surface Finish Improvement Swept Surface with 3D Mold Test Run Tool Center Point Management Tool and Material Library Tool Change Control (Auto/Manual) Tool Picker System (TPS) Tool Probing True Type Lettering Package UltiNet LAN Interface UltiPocket with Helical Ramp Entry Unlimited Work Offsets (Conversational) WinMax Desktop

Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

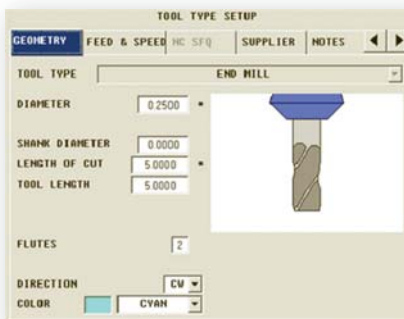
Machines shown with options. Prices and information may change without notice.

## WinMax® takes conversational to a new level.

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.

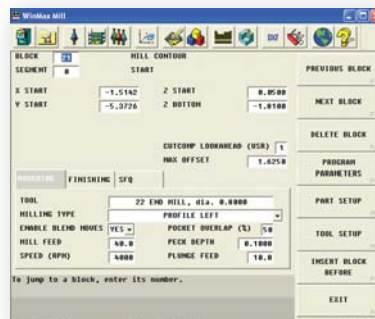
Setup. Program. Verify.

### STEP 1: Setup



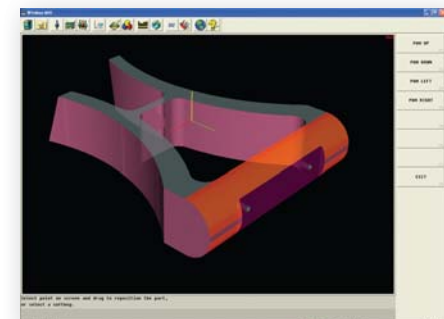
Setup is even easier with the WinMax Tool & Material Library. Set up each tool one time and you're finished—the parameters are stored with the control so you just recall the tool the next time.

### 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



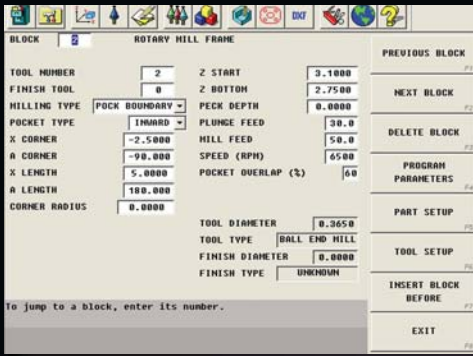
Advanced Verification Graphics with 3D solid rendering of the part, including dynamic rotation and real time tool display, make proving out the part a snap. View the part from any angle without the need to redraw it.

- 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 cut time with SelectSurface Finish Quality.
- 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.



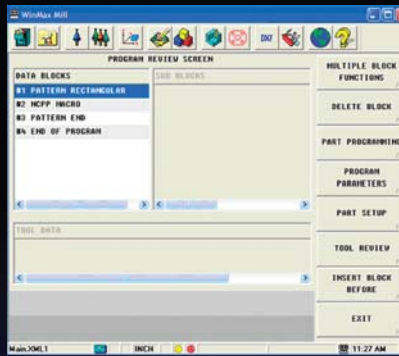
Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

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



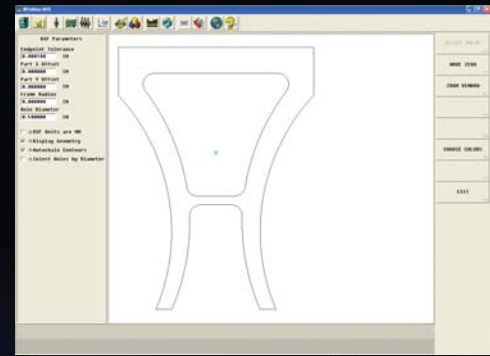
### Industry's best shop floor programming

Conversational programming takes the pain out of going from print to part. The control's Math Assist saves valuable time because it trigs out the missing fields.



### Get maximum benefits with the best of both programming methods

NC/Conversational Merge lets you incorporate NC code into conversational programs.



### Automated Programming with DXF

Send the .dxf file directly to the control. Edit as needed at the machine. Check the part on the screen.

## Dual Touch Screens



### Optimize and Save

Adjust the speeds, feeds, and rapids for optimum machining and then save them instead of manually entering the new values into the part program.



### Program Interrupt

A true program interrupt button that stops cutting, retracts the tool, and when pressed again, resumes right where it left off.

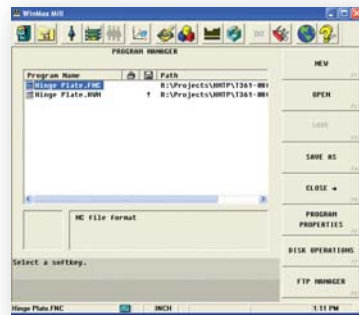


# WinMax

## More benefits with NC.

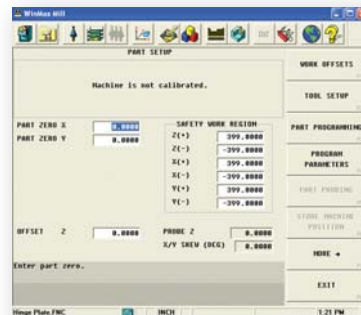
When developing WinMax®, we listened to our customers and our competitors' customers, who were under the impression we only cared about "conversational" and didn't support the NC side. With WinMax, we developed an enhanced NC interpreter that has increased compatibility with CAD/CAM packages. We also added popular software features, such as concurrent programming, to the NC side of our integrated control.

### 1: Load



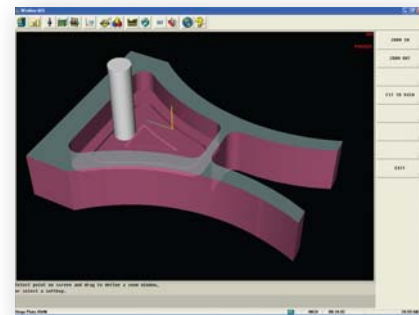
- USB
- Ethernet/Network
- 3.5" Floppy Disk Drive
- RS-232 Port
- 40 GB Hard Disk Drive

### 2: Process



- 2.8 GHz Pentium 4 Processor
- 2 GB RAM
- Up to 2,277 bps Processing Speed
- 600 Block Look Ahead
- S-Curve Acceleration
- Proprietary motion control

### 3: Cut



- Recovery restart
- True Program Interrupt
- Fast editing with Data Block Search
- See 21 lines of NC data and current modal states during run time
- Concurrent Programming lets you edit the next program while the machine is cutting

### Software to simplify 5-axis

Eliminate redundant part zero setups with Tool Center Point Management. Each time you refixture, you have to waste valuable time re-entering the distance from part zero to the centerlines of rotation and then repost the program. With Tool Center Point Management, you can post the program independent of where the stock is fixtured on the table—a substantial time saver for 5-axis parts.

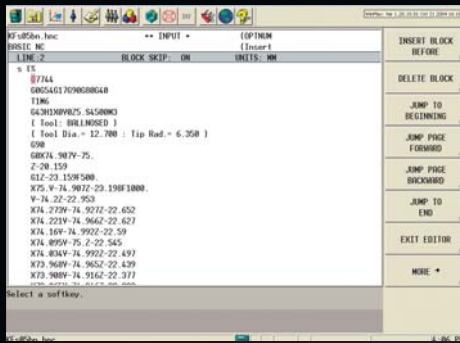
### NC Conversational Merge popular with job shop G-coders

Apply popular conversational features, such as tool probing, part probing, pattern operations, and scaling, to G-code programs.

### Increase the power of your control with Industry Standard NC option

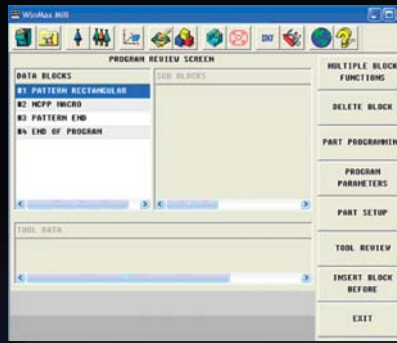
Combine Industry Standard NC (ISNC) with the NC Productivity Package (NCPP) to use existing G-code programs with little or no need to edit. This package provides compatibility with FANUC® programs.





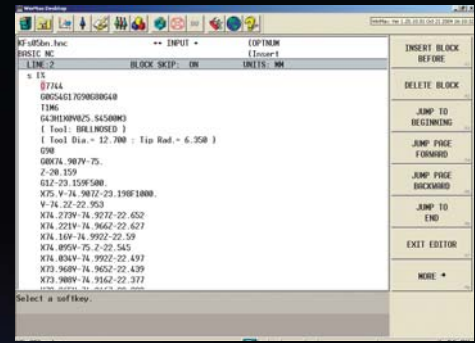
### Full featured G-Code

The enhanced NC interpreter increases compatibility with CAD/CAM packages. Multi-line G-Code lets you see 21 lines of NC data and current modal states during run time.



### NC/Conversational Merge most popular with job shop G-coders

Apply popular conversational features, such as tool probing, part probing, pattern operations, and scaling, to G-code programs.

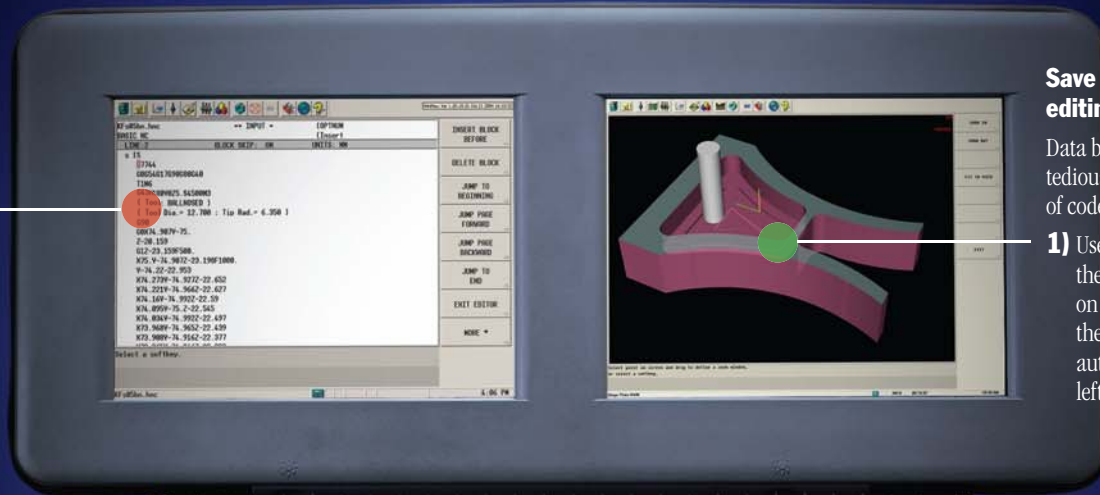


### Faster setups with NC canned cycles

More NC Probing Canned Cycles with WinMax, including part-zero corner, hole, rectangle skew-edge, cylinder, and rectangle pocket.

## Dual Touch Screens

2) The corresponding code automatically appears with one click.



### Save time with one click editing

Data block search eliminates the tedious task of searching for a line of code.

1) Use the touch screen to select the section you need to edit on the graphics screen and the corresponding code automatically appears in the left text screen.



# WinMax

## Best in Class details make it a Hurco machining center.

### ■ Superior Construction. Quality Components.

- Fine grain, high-grade cast iron frame.
- Larger linear rails.
- Double-nut pre-tensioned ball screws.
- State-of-the-art servos, drives, motors.

### Dual wound high torque spindle motor.

### Signal light.

You can see what the machine is doing from across the shop. Indicates end of cycle, motion hold, machine fault, and emergency stop.

### Swing Arm ATC stays out of work cube.

Fully-enclosed, side-mounted, swing arm ATC gives you more room to work and is faster than the umbrella style. The Hurco ATC design lets us deliver machines with larger work cubes and smaller footprints.

- More reliable electrical indexer instead of pneumatic.
- More tool pockets than competitors.
- Full enclosure keeps chips out and tools clean.

### Easy chip management eliminates costly cleanup and saves time.

- 1 Coolant ring with adjustable nozzles.
- 2 Strategically located adjustable washdown nozzles.
- 3 Sloped telescopic way covers protect internal machine parts.
- 4 Dedicated pump system.
- 5 Scraper-type conveyor with barrel height discharge.

### Larger door openings.

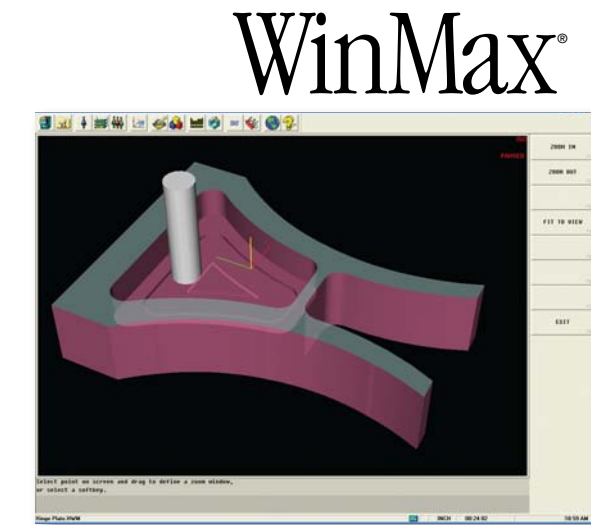
A large front opening gives you more room to load and unload. Easy overhead crane access to load large, heavy parts or fixtures.

### Largest work cube in its class.

On average, the work cubes on Hurco machining centers are 50% larger than competitive models.

### Sloping telescopic way covers.

Designed to keep chips out and to protect the premium components inside the machine.



### Slashes setup time. Increases productivity.

The newest addition to Hurco's integrated control is power packed with 25 new features that will give you measurable productivity gains. Flexible programming puts you in control. With an enhanced NC interpreter, G-Code programming is more powerful and compatible than ever before. WinMax Conversational programming is full of the intuitive software features that let technology do the grunt work so you can focus on the important stuff. Because WinMax uses the proven Windows® platform, you're less likely to get stuck with an outdated control when future technology is developed.

### State of the art spindle technology.

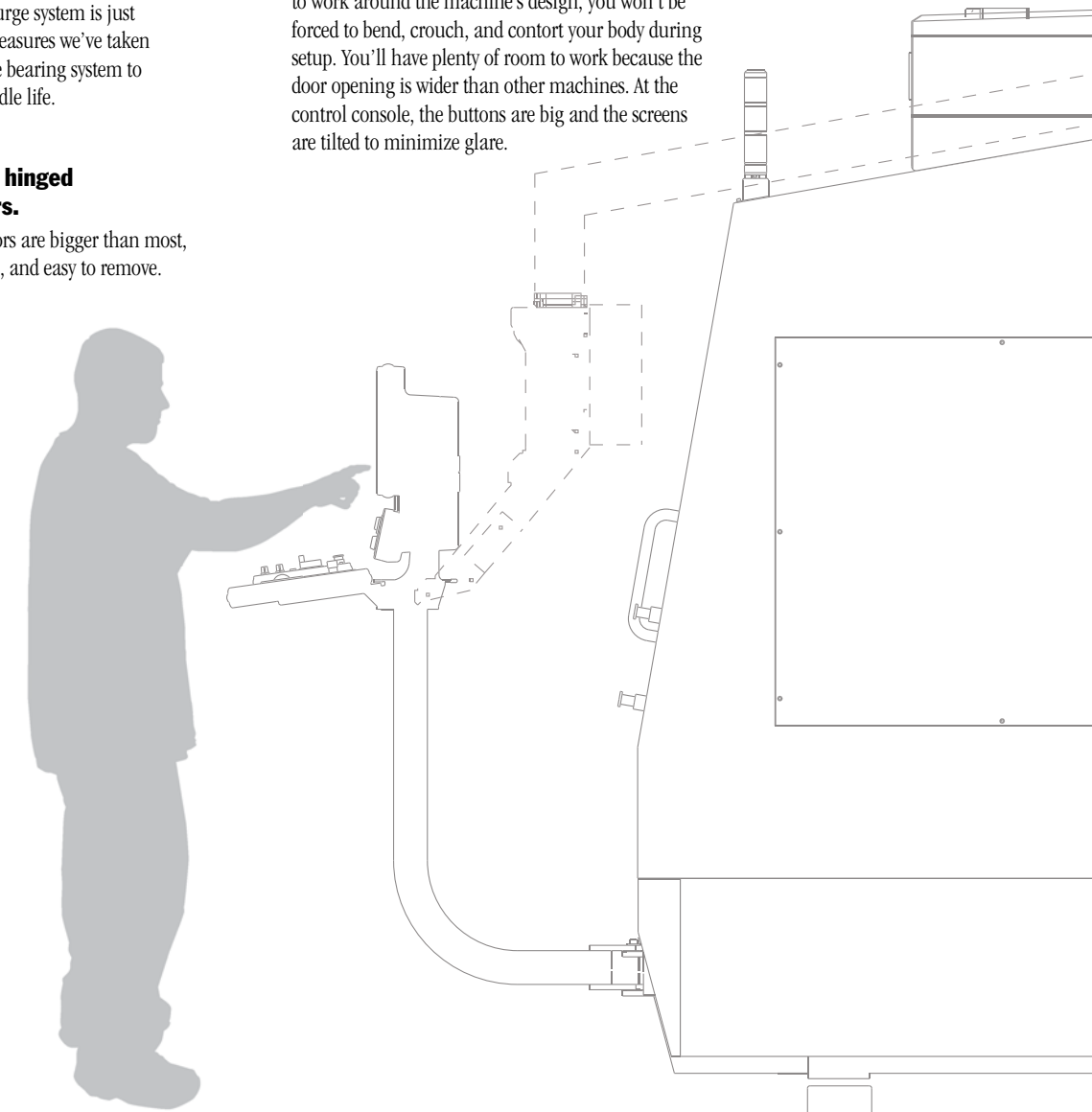
Reliable. Powerful. Precise. A double air purge system is just one of the measures we've taken to protect the bearing system to prolong spindle life.

### Oversize, hinged side doors.

The side doors are bigger than most, easy to open, and easy to remove.

### Designed to fit you.

Designed to fit how you work instead of forcing you to work around the machine's design, you won't be forced to bend, crouch, and contort your body during setup. You'll have plenty of room to work because the door opening is wider than other machines. At the control console, the buttons are big and the screens are tilted to minimize glare.





VMX24  
VMX30  
VMX42  
VMX50  
VMX60  
VMX64  
VMX84



## Precise, fast, and accurate.

The performance and flexibility of the VMX Series of machining centers is so broad, it spans all industries and shop sizes. From the aerospace industry to the medical device industry, there's a VMX vertical machining center that fits the bill.

- High torque, fast feed rates, heavy rigid frame.
- The VMX Series is known for its huge work cube (50% larger on average than competitive models) that lets you schedule a wider variety of work.
- Exceptional cutting feed rates and surface finish software options provide the fastest cut with the best quality.
- Greater part accuracy with heavier, digital servo drives, and larger ball screws.

### FEATURES AND OPTIONS

#### Coolant / Chip Removal

Chip Conveyor  
Coolant Screen System  
Flood Coolant  
High Pressure CTS  
Telescopic Way Covers  
Top Hood  
Wash Down Gun and Air Gun  
Wash Down System

#### Spindle / Motor

Dual Wound Motor  
High Speed Servo Systems  
Low Air Pressure Switch  
Motor Brake in Z-Axis  
Spindle Chiller

#### Tooling / Accessories

Part and Tool Probing  
Rotary Tables  
Tooling and Vises  
Trunnion Tables

#### Frame / Cabinet

Air Conditioner  
Door Interlock  
Dual Work Lights  
E-Stop Button on Control Head  
Easy Access Side Door with Latch  
Fully Contained Tool Storage  
Linear Glass Scales (X, Y, Z)  
Linear Rails (Box ways on Z-axis, VMX64, VMX84)  
Lube Oil Separator  
Power Cabinet Heat Exchanger  
Solid One Piece High-Grade Cast Iron Bed

Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

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

This manufacturer of specialized machining systems used for furniture production and construction part manufacturing switched to Hurco when they realized a 76% reduction in programming time due to the capabilities of the integrated Hurco control. With more than 20 Hurco vertical machining centers at their operation, the company continues to experience significant improvement in productivity and consistency due to their decision to convert to Hurco.



Expert design and premium components result in rugged machining centers with small footprints and extraordinarily large work cubes. The frame is made of fine grain, high-grade cast iron and we wedge lock the linear rails, which reduces vibration, instead of simply face milling the rails to the frame.



	<b>VMX24</b>		<b>VMX30</b>		<b>VMX42</b>		<b>VMX50</b>			<b>VMX60</b>			<b>VMX64</b>		<b>VMX84</b>		
X,Y,Z Axis Travel inches (mm)	24 x 20 x 24 (610 x 508 x 610)		30 x 20 x 24 (762 x 508 x 610)		42 x 24 x 24 (1,067 x 610 x 610)		50 x 26 x 24 (1,270 x 660 x 610)			60 x 26 x 24 (1,524 x 660 x 610)			64 x 34 x 30 (1,625 x 864 x 762)		84 x 34 x 30 (2,134 x 864 x 762)		
Table Size, inches (mm)	30 x 20 (760 x 508)		40 x 20 (1,016 x 508)		50 x 24 (1,270 x 610)		59 x 26 (1,500 x 660)			66 x 26 (1,676 x 660)			66 x 35 (1,676 x 889)		86 x 34 (2,184 x 864)		
Max Wt. on Table, lbs (Kg)	3,000 (1,360)	1,500 (680)	3,000 (1,360)	1,500 (680)	3,000 (1,360)	1,500 (680)	3,000 (1,360)	3,000 (1,360)	1,500 (680)	3,000 (1,360)	3,000 (1,360)	1,500 (680)	6,000 (2,722)		5,000 (2,268)		
Peak Spindle, hp (Kw)	12 (9)	20 (15)	18 (13.4)	20 (15)	24 (18)	29 (21.6)	24 (18)	29.7 (22.2)	29 (21.6)	24 (18)	29.7 (22.2)	29 (21.6)	24 (18)	29.7 (22.2)	24 (18)	29.7 (22.2)	
Max Spindle Motor Torque, ft lbs (Nm) @ rpm	6.5k	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	8k	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10k	85 @ 750 (115) @ 750	75 @ 1,450 (102) @ 1,450	185 @ 500 (251) @ 500	75 @ 1,450 (102) @ 1,450	210 @ 600 (285) @ 600	105 @ 1,450 (142) @ 1,450	210 @ 600 (285) @ 600	N/A	105 @ 1,450 (142) @ 1,450	210 @ 600 (285) @ 600	N/A	105 @ 1,450 (142) @ 1,450	210 @ 600 (285) @ 600	N/A	210 @ 600 (285) @ 600	N/A
	12k	70 @ 900 (95) @ 900	N/A	158 @ 600 (214) @ 600	N/A	175 @ 720 (237) @ 720	N/A	175 @ 720 (237) @ 720	N/A	N/A	175 @ 720 (237) @ 720	N/A	N/A	175 @ 720 (237) @ 720	N/A	175 @ 720 (237) @ 720	N/A
	15k	56 @ 1,125 (76) @ 1,125	N/A	126 @ 750 (171) @ 750	N/A	140 @ 900 (190) @ 900	N/A	140 @ 900 (190) @ 900	N/A	N/A	140 @ 900 (190) @ 900	N/A	N/A	140 @ 900 (190) @ 900	N/A	140 @ 900 (190) @ 900	N/A
Rapid Traverse X,Y / Z Axis inches (M) / min	1,378 / 1,181 (35 / 30)	1,181 / 787 (30 / 20)	1,378 / 1,181 (35 / 30)	1,181 / 787 (30 / 20)	1,378 / 1,181 (35 / 30)	1,181 / 787 (30 / 20)	1,181 / 787 (30 / 20)			1,181 / 787 (30 / 20)			709 / 530 (18 / 13.5)		709 / 530 (18 / 13.5)		
Number of Tools Standard / Option	24 CAT (BT) 40		24 CAT (BT) 40		24/40 CAT (BT) 40			24/40 CAT (BT) 40	30 CAT (BT) 50	24/40 CAT (BT) 40	24/40 CAT (BT) 40	30 CAT (BT) 50	24/40 CAT (BT) 40	24/40 CAT (BT) 40	32 CAT (BT) 50	40 CAT (BT) 40	32 CAT (BT) 50
Positioning, inches (mm)	±0.0002 (0.005)		±0.0002 (0.005)		±0.0002 (0.005)			±0.0002 (0.005)			±0.0002 (0.005)			±0.0002 (0.005)		±0.0002 (0.005)	
Repeatability, inches (mm)	±0.0001 (0.0025)		±0.0001 (0.0025)		±0.0001 (0.0025)			±0.0001 (0.0025)			±0.0001 (0.0025)			±0.0001 (0.0025)		±0.0001 (0.0025)	
Machine Weight, lbs (Kg)	10,225 (4,640)	9,590 (4,350)	10,450 (4,740)	9,810 (4,450)	14,525 (6,590)	14,080 (6,400)	17,900 (8,120)	20,100 (9,120)	19,200 (8,700)	18,560 (8,420)	20,500 (9,300)	19,500 (8,845)	29,220 (13,600)	32,000 (14,510)	35,950 (16,300)	37,260 (16,900)	

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions. Machines shown with options. Prices and information may change without notice.

VM10  
VM20  
VM30  
VM10 Graphite  
VM10P Production



## Small footprint. Large work cube.

The VM Series is used at shops of all sizes, but has been particularly popular with small job shops. This mighty machine beats the competition pound for pound and cut for cut.

- The VM Series combines the smallest footprint in the industry with a large work cube.
- The low base price makes the VM Series the most reasonably priced in its class (starting at \$41,995).
- Swing-arm design of the electric ATC stays out of the way during setup and makes the work cube even bigger.

### FEATURES AND OPTIONS

#### Coolant / Chip Removal

Chip Auger  
Chip Conveyor  
Coolant Screen System  
Coolant Ring  
Flood Coolant  
Spindle Coolant Nozzle  
Telescopic Way Covers  
Top Dome  
Wash Down Gun and Air Gun

#### Spindle / Motor

High Speed Servo Systems  
Low Air Pressure Switch  
Motor Brake in Z-Axis  
Spindle Chiller

#### Tooling / Accessories

Part and Tool Probing  
Rotary Tables  
Tooling and Visers  
Trunnion Tables

#### Frame / Cabinet

Air Conditioner  
Door Interlock  
Dual Work Lights  
E-Stop Button on Control Head  
Easy Access Side Door with Latch  
Fully Contained Tool Storage  
Linear Glass Scales (X, Y, Z)  
Linear Rails  
Lube Oil Separator  
Power Cabinet Heat Exchanger  
Solid One Piece High-Grade Cast Iron Bed

Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

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



### VM10 Graphite

- 20k Spindle, 30k option
- Dust Management System



### VM10P Production

- Chip-to-chip time of 2.5 seconds
- Rigid tap up to 4,000 rpm
- Chip load: (steel) up to 8 cubic inches per minute (aluminum) up to 12 cubic inches per minute

Rigorous attention to detail is standard operating procedure at our wholly owned manufacturing company. Even when designing the breaking resistor, we take care to enclose it in sheet metal instead of just using coils that throw off heat.



		<b>VM10</b>	<b>VM20</b>	<b>VM30</b>	<b>VM10 Graphite</b>	<b>VM10P Production</b>
X, Y, Z Axis Travel, inches (mm)		26 x 16 x 20 (660 x 406 x 508)	40 x 20 x 20 (1,016 x 508 x 508)	50 x 20 x 20 (1,270 x 508 x 508)	26 x 16 x 20 (660 x 406 x 508)	26 x 16 x 20 (660 x 406 x 508)
Table Size, inches (mm)		30 x 14 (762 x 356)	46 x 18 (1,168 x 457)	52 x 18 (1,321 x 457)	30 x 14 (762 x 356)	30 x 14 (762 x 356)
Max Weight on Table, lbs (Kg)		750 (340)	1,200 (545)	1,200 (545)	750 (340)	750 (340)
Peak Spindle Motor, hp (Kw)		15 (11)	20 (15)	20 (15)	10 (7.5)	10 (7.5)
Max Spindle Motor Torque ft lbs (Nm) @ rpm	10k	54 (73) @ 1,450	75 (102) @ 1,450	75 (102) @ 1,450	N/A	N/A
	12k	N/A	N/A	N/A	N/A	35 (47) @ 1,500
	20k	N/A	N/A	N/A	2.2 (3) @ 20,000	N/A
	30k	N/A	N/A	N/A	2.2 (3) @ 24,000	N/A
Rapid Traverse X, Y, Z Axis, inches (M / min)		945 (24)	945 (24)	945 (24)	945 (24)	X, Y / Z 1,181 / 945 (30 / 24)
Number of Tools Standard		20 CAT (BT) 40	20 CAT (BT) 40	20 CAT (BT) 40	20 BT 30	20 BT 30
Positioning, inches (mm)		±0.0002 (0.005)	±0.0002 (0.005)	±0.0002 (0.005)	±0.0002 (0.005)	±0.0002 (0.005)
Repeatability, inches (mm)		±0.0001 (0.0025)	±0.0001 (0.0025)	±0.0001 (0.0025)	±0.0001 (0.0025)	±0.0001 (0.0025)
Machine Weight, lbs (Kg)		6,400 (2,903)	9,200 (4,173)	9,500 (4,309)	6,820 (3,093)	6,820 (3,093)

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.

VTXU  
VM10U  
VMX30U  
VMX42U  
VMX60U  
BX30U



## Optimize your investment with our integrated trunnion table 5-axis machines.

While some brands simply stick a trunnion table on a 3-axis VMC and call it a 5-axis machine, the Hurco U Series machines are designed to be true 5-axis machines. If you have 5-axis positioning work on complex multi-sided parts where overall accuracy and reduced setup time are critical, you need a Hurco 5-Axis U Series machining center.

- Exceptional part clearances and larger part capacity due to integrated trunnion table design.
- High capacity table rotates faster and handles more weight.
- More standard features than other 5-axis machines.

### FEATURES AND OPTIONS

#### Coolant / Chip Removal

Chip Conveyor  
Coolant Ring  
Coolant Screen System  
High Pressure CTS  
Spindle Coolant Nozzle  
Telescopic Way Covers  
Top Dome / Hood  
Wash Down Gun and Air Gun  
Wash Down System

#### Spindle / Motor

High Speed Servo Systems  
Low Air Pressure Switch  
Motor Brake in Z-Axis  
Spindle Chiller

#### Tooling / Accessories

Part and Tool Probing  
Rotary Tables  
Tooling and Vises  
Trunnion Tables

#### Frame / Cabinet

Air Conditioner  
Door Interlock  
Dual Work Lights  
E-Stop Button on Control Head  
Easy Access Side Door with Latch  
Fully Contained Tool Storage  
Linear Glass Scales (X, Y, Z)  
Linear Rails  
Lube Oil Separator  
Power Cabinet Heat Exchanger  
Solid One Piece High-Grade Cast Iron Bed

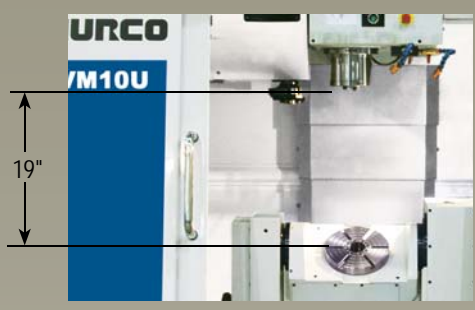
Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

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

**Maximize efficiency with WinMax 5-Axis software features**

- **Tool Path Linearization** Promotes smooth surface finish void of looped marks on part.
- **Tool Vector Input** Executes the part program faster because the post-processor doesn't need the machine configuration and the center line of the rotary axes.
- **Transform Part Zero** Saves valuable time with 5-sided machining. Locate just one part zero and the control calculates the other locations for each of the rotary moves.
- **3D Tool Geometry Compensation** Eliminates the need to repost the part program after adjusting the tool diameter for wear.

The VM10U isn't a VM with a trunnion table attached. We started with the efficient design of the VM machining centers and implemented an integrated trunnion table that provides increased clearance in the Z-axis.



	VM10U	VTXU	VMX30U	VMX42U	VMX60U	BX30U	
X, Y, Z Axis Travel, inches (mm)	21 x 16 x 19 (533 x 406 x 483)	31.5 x 27.5 x 20 (800 x 700 x 510)	30 x 20 x 20.5 (762 x 508 x 520)	42 x 24 x 20.5 (1,067 x 610 x 520)	60 x 26 x 24 (1,524 x 660 x 610)	30 x 22 x 22 (762 x 559 x 559)	
Table Size, inches (mm)	Ø 7.8 (Ø 198)	Ø 24 x □ 20.9 (Ø 610 x □ 530)	Ø 9.8 (Ø 248)	Ø 13.7 (Ø 348)	Ø 19.7 (Ø 500)	Ø 9.8 (Ø 248)	
Max Weight on Table, lbs (Kg)	330 (150)	660 (300)	440 (200)	550 (250)	880 (400)	440 (200)	
Peak Spindle Motor, hp (Kw)	12 (9)	24 (18)	18 (13.4)	24 (18)	24 (18)	47 (35)	
Max Spindle Motor Torque, ft lbs (Nm) @ rpm	10k	42 (57) @ 1,500	N/A	185 (251) @ 500	210 (285) @ 600	210 (285) @ 600	N/A
	12k	N/A	175 (237) @ 720	158 (214) @ 600	175 (237) @ 720	175 (237) @ 720	N/A
	15k	N/A	N/A	126 (171) @ 750	N/A	N/A	N/A
	18k	N/A	N/A	N/A	140 (190) @ 900	140 (190) @ 900	88 (119) @ 2,800
Rapid Traverse X, Y / Z Axis, inches (M) / min	945 / 945 (24 / 24)	1,378 / 1,378 (35 / 35)	1,378 / 1,181 (35 / 30)	1,378 / 1,181 (35 / 30)	1,181 / 787 (30 / 20)	1,575 / 1,545 (40 / 40)	
Number of Tools Standard	20 CAT (BT) 40	48 CAT (BT) 40	24 CAT (BT) 40	24 / 40 CAT (BT) 40	24 / 40 CAT (BT) 40	40 HSK 63A	
Positioning, inches (mm)	±0.0002 (0.005)	±0.0002 (0.005)	±0.0002 (0.005)	±0.0002 (0.005)	±0.0002 (0.005)	±0.0002 (0.005)	
Repeatability, inches (mm)	±0.0001 (0.0025)	±0.0001 (0.0025)	±0.0001 (0.0025)	±0.0001 (0.0025)	±0.0001 (0.0025)	±0.0001 (0.0025)	
Machine Weight, lbs (Kg)	6,550 (2,977)	27,560 (12,525)	10,450 (4,750)	14,608 (6,640)	18,800 (8,545)	16,100 (7,300)	

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.

\*This product is subject to the export control laws of the United States and/or other countries. Hurco complies fully with the export control laws and regulations of the United States and the jurisdictions in which it does business. In its standard configuration, this product includes control software capable of machining in three axes plus positioning in two separate axes ("three plus two") and/or multi-sided five-axis machining. This product is capable of simultaneous contouring in five axes only with the addition of supplemental software subject to separate approval.



## Flexible 5-axis machining with Hurco SR Series.

Hurco 5-Axis machining centers simplify setup and production of complex parts without sacrificing precision and accuracy. The SR 5-Axis machines tackle complex, multi-sided parts with a swivel head and rotary table design that yields a small footprint.

- The Hurco SR machines include software that streamlines setup and simplifies programming for complex parts.
- Includes B-axis with table removed, which means access to four axes.
- Heavier digital servo drives, larger ball screws, and larger linear rails increase accuracy and deliver superb surface finish.

### FEATURES AND OPTIONS

#### Coolant / Chip Removal

Chip Conveyor  
Coolant Ring  
Coolant Screen System  
High Pressure CTS  
Spindle Coolant Nozzle  
Telescopic Way Covers  
Top Hood  
Wash Down Gun and Air Gun  
Wash Down System

#### Spindle / Motor

High Speed Servo Systems  
Low Air Pressure Switch  
Motor Brake in Z-Axis  
Spindle Chiller

#### Tooling / Accessories

Part and Tool Probing  
Tooling and Vises

#### Frame / Cabinet

Air Conditioner  
Door Interlock  
Dual Work Lights  
E-Stop Button on Control Head  
Easy Access Side Door with Latch  
Fully Contained Tool Storage  
Linear Glass Scales (X, Y, Z)  
Linear Rails  
Lube Oil Separator  
Power Cabinet Heat Exchanger  
Solid One Piece High-Grade Cast Iron Bed

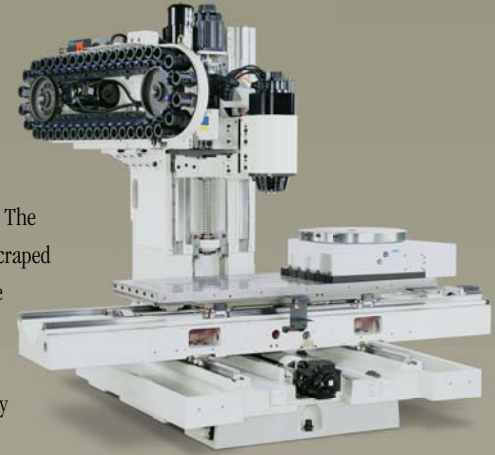
Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

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

**More flexibility means more options**

- 5-sided.
- 5-axis contours.
- 5-sided plus 3-axis on fixed table.
- Horizontal with tombstone on C-table.

Superb frame design and construction are an integral part of accuracy and repeatability for machining centers. We don't cut corners. The frame mounting points are scraped by hand to ensure quality. We also use double-nut pre-tensioned ball screws to increase rigidity and minimize vibration.



	<b>VMX42SR</b>	<b>VMX60SR</b>
X, Y, Z Axis Travel, inches (mm)	42 x 24 x 24 (1,067 x 610 x 610)	60 x 26 x 24 (1,524 x 660 x 610)
C-Axis Table Size, inches (mm)	Ø 24 (610)	Ø 24 (610)
Max Weight on Rotary Table, lbs (Kg)	1,100 (500)	1,100 (500)
Table Size, inches (mm)	50 x 24 (1,270 x 610)	66 x 26 (1,676 x 660)
Peak Spindle Motor, hp (Kw)	48 (36)	48 (36)
Max Spindle Motor Torque, ft lbs (Nm) @ rpm	12k 87 (118) @ 2,900	87 (118) @ 2,900
Rapid Traverse X, Y / Z Axis, inches (M) / min	1,378 / 1,181 (35 / 30)	1,181 / 787 (30 / 20)
Number of Tools Standard	40 CAT (BT) 40	40 CAT (BT) 40
Positioning, inches (mm)	±0.0002 (0.005)	±0.0002 (0.005)
Repeatability, inches (mm)	±0.0001 (0.0025)	±0.0001 (0.0025)
Machine Weight, lbs (Kg)	16,640 (7,565)	20,000 (9,090)

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.

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DCX22  
DCX32



## Introducing the Hurco advantage for large machines.

Shops that produce large parts and molds will benefit from the versatility of the Hurco control. The integrated Hurco control supports NC programming and conversational programming equally well, which gives you more flexibility. Our control technology combined with our stringent design and manufacturing processes, make the DCX machines an excellent investment.

- Meticulous manufacturing practices make the DCX machines rigid and reliable.
- High-grade, cast iron frame tested with dynamic and static Finite Element Analysis.
- Superior to C-frame design when producing larger parts.

### FEATURES AND OPTIONS

#### Coolant / Chip Removal

Chip Conveyor  
Coolant Ring  
Coolant Screen System  
High Pressure CTS  
Spindle Coolant Nozzle  
Telescopic Way Covers  
Wash Down Gun and Air Gun  
Wash Down System

#### Spindle / Motor

High Speed Servo Systems  
Low Air Pressure Switch  
Motor Brake in Z-Axis  
Spindle Chiller

#### Tooling / Accessories

Part and Tool Probing  
Rotary Tables  
Tooling and Vises

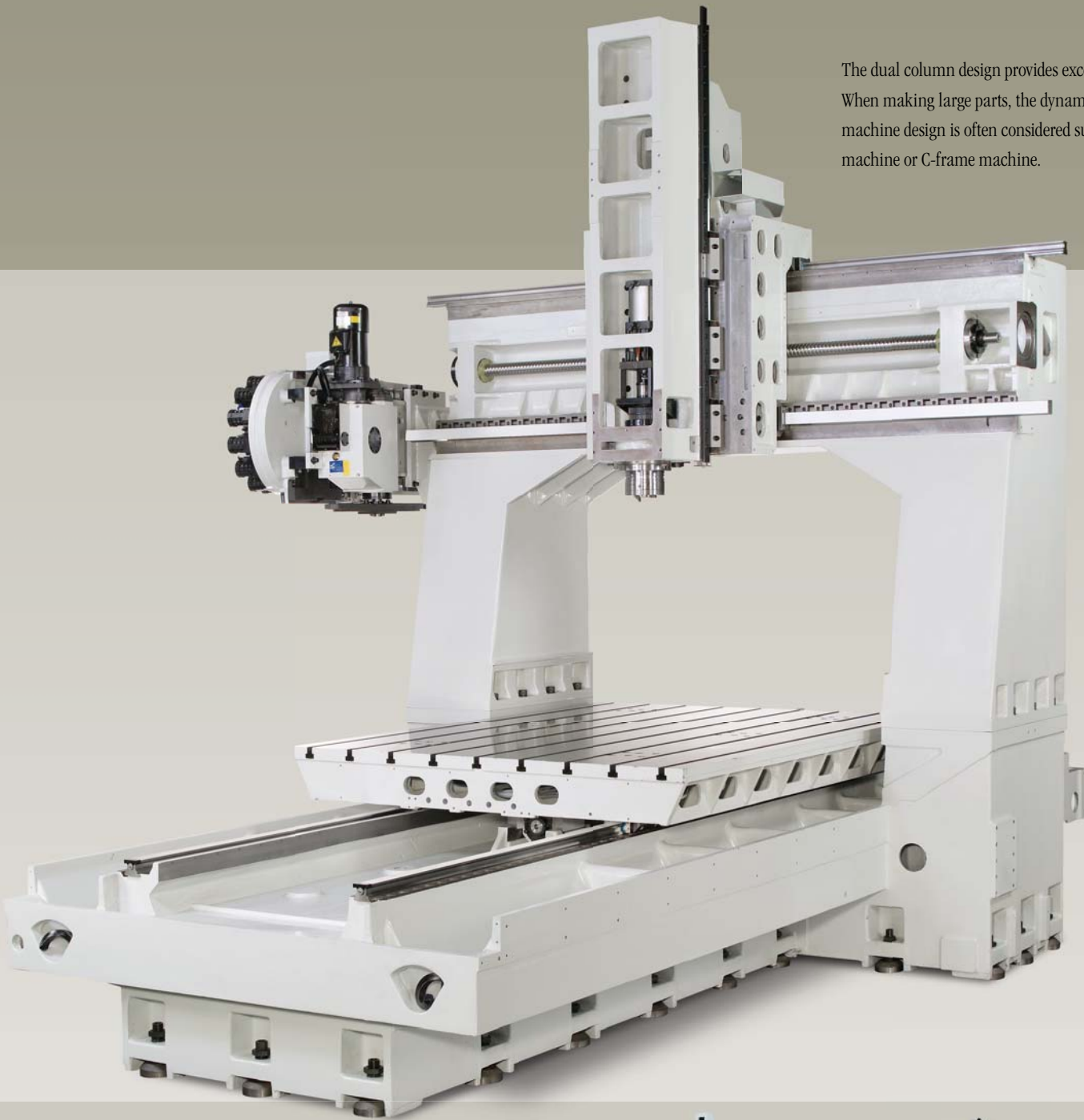
#### Frame / Cabinet

Air Conditioner  
Door Interlock  
Dual Work Lights  
E-Stop Button on Control Head  
Easy Access Side Door with Latch  
Fully Contained Tool Storage  
Linear Glass Scales (X, Y, Z)  
Linear Rails  
Lube Oil Separator  
Power Cabinet Heat Exchanger  
Solid One Piece High-Grade Cast Iron Bed

Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

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

The dual column design provides excellent thermal stability. When making large parts, the dynamic behavior of this machine design is often considered superior over a gantry machine or C-frame machine.



		<b>DCX22</b>		<b>DCX32</b>
X, Y, Z Axis Travel, inches (mm)		86.6 x 66.9 x 29.5 (2,200 x 1,700 x 750)		126 x 82.7 x 36.2 (3,200 x 2,100 x 920)
Table Size, inches (mm)		82.6 x 63 (2,100 x 1,600)		118 x 67 (3,000 x 1,700)
Max Weight on Table, lbs (Kg)		13,200 (6,000)	17,600 (8,000)	24,200 (11,000)
Peak Spindle Motor, hp (Kw)		24 (18)	35 (26)	80 (60)
Max Spindle Motor Torque, ft lbs (Nm) @ rpm	6k	N/A	410 (555) @ 458	420 (570) @ 1000
	8k	252 (341) @ 500	N/A	N/A
	10k	210 (285) @ 600	N/A	420 (570) @ 1000
	15k	140 (190) @ 900	N/A	N/A
Rapid Traverse X,Y / Z Axis, inches (M) / min		945 / 945 (24 / 24)	591 / 472 (15 / 12)	591 / 394 (15 / 10)
Number of Tools Standard		40 CAT (BT) 40	40 CAT (BT) 50	40 CAT (BT) 50
Positioning, inches (mm)		±0.0004 (0.010)		±0.0005 (0.013)
Repeatability, inches (mm)		±0.0002 (0.005)		±0.0003 (0.008)
Machine Weight, lbs (Kg)		44,000 (20,000)	48,400 (22,000)	85,800 (39,000)

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.



## Zone machining center supports flexible manufacturing.

The Hurco VTXZ can work as a dual work zone machine for continuous production or a single zone machine for long structural parts.

- Control supports single zone and dual zone operation with on-screen mode change.
- Machine design includes two 30" x 26" (762 x 660 mm) work zones that can be converted to one zone that facilitates efficient processing of parts up to 80" (2M).
- Right and left doors lock independently—cut in one zone, setup in the other.
- Equal-sized zones with minimal dead zone volume.
- ATC moves with traveling column.

### FEATURES AND OPTIONS

#### Coolant / Chip Removal

Chip Conveyor  
Coolant Ring  
Coolant Screen System  
High Pressure CTS  
Spindle Coolant Nozzle  
Telescopic Way Covers  
Wash Down Gun and Air Gun  
Wash Down System

#### Spindle / Motor

High Speed Servo Systems  
Low Air Pressure Switch  
Motor Brake in Z-Axis  
Spindle Chiller

#### Tooling / Accessories

Part and Tool Probing  
Rotary Tables  
Tooling and Visers

#### Frame / Cabinet

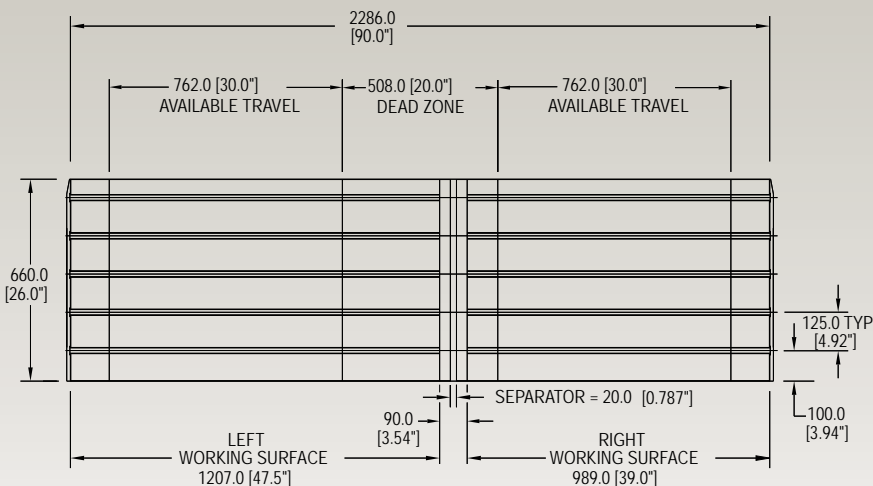
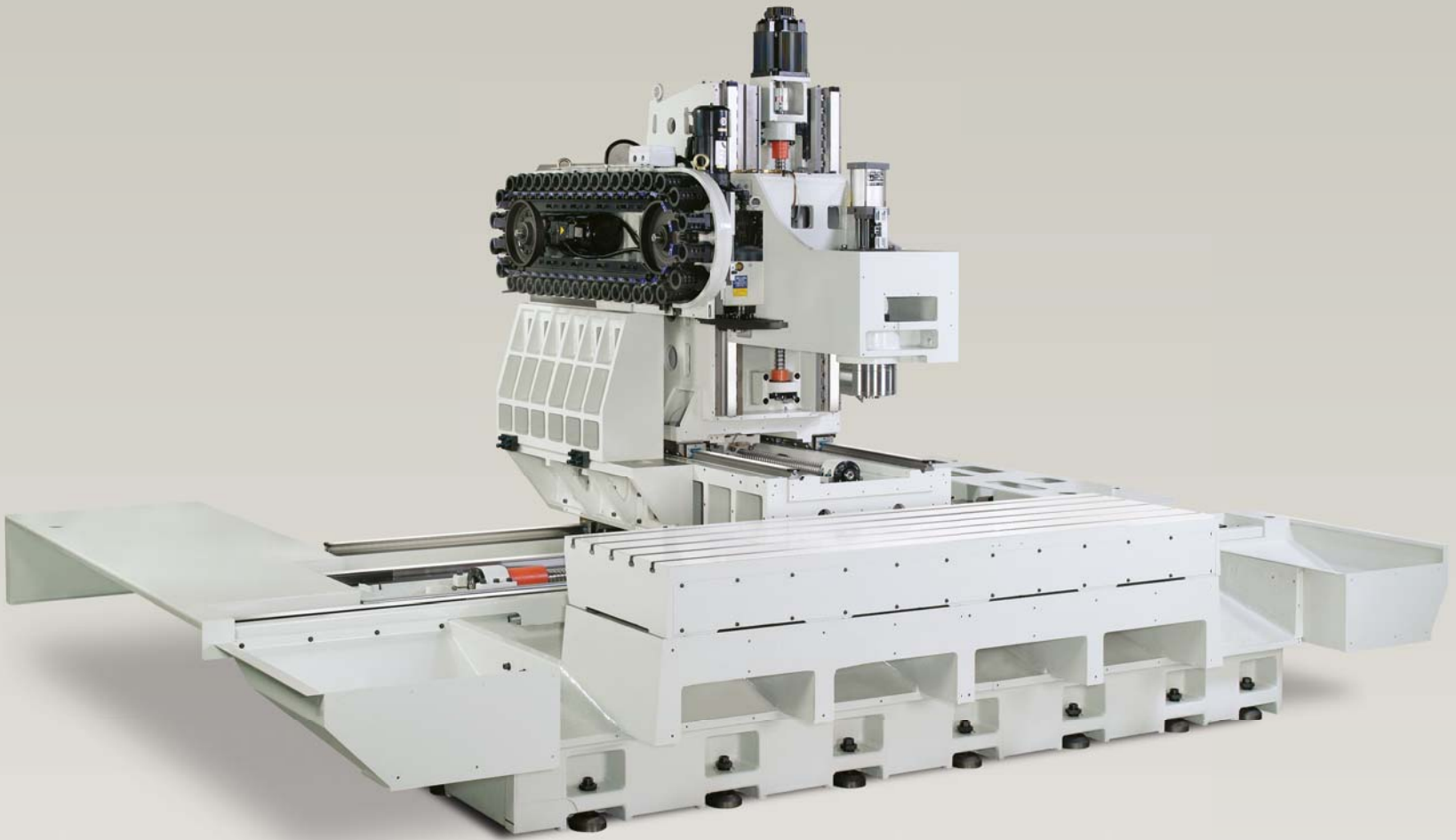
Air Conditioner  
Door Interlock  
Dual Work Lights  
E-Stop Button on Control Head  
Easy Access Side Door with Latch  
Fully Contained Tool Storage  
Linear Glass Scales (X, Y, Z)  
Linear Rails  
Lube Oil Separator  
Power Cabinet Heat Exchanger  
Solid One Piece High-Grade Cast Iron Bed

**Find more product information and specifications at [www.hurco.com](http://www.hurco.com).**

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

The VTXZ supports flexible manufacturing. Shops with a mixed schedule of parts benefit from the ability to adapt the machine to work as one zone for large parts and molds or two separate zones for increased productivity.

Hundreds of design details have been implemented so the frame, and its construction, support the dual purpose intent of the VTXZ.



	<b>VTXZ</b>
X, Y, Z Axis Travel, inches (mm)	2 @ 30 x 26 x 24 (762 x 660 x 610)
Without partition X, Y, Z Axis Travel, inches (mm)	80 x 26 x 24 (2,032 x 660 x 610)
Table Working Surface, inches (mm)	Left @ 48 x 26 (1,219 x 660)
	Right @ 40 x 26 (1,016 x 660)
	Without partition 90 x 26 (2,286 x 660)
Max Weight on Table, lbs (Kg)	2 @ 3,000 (1,364)
Peak Spindle Motor, hp (Kw)	24 (18)
Max Spindle Motor Torque, ft lbs (Nm) @ rpm	12k 175 (237) @ 720
Rapid Traverse X, Y, Z Axis, inches (M) / min	1,378 (35)
Number of Tools Standard	40 CAT (BT) 40
Positioning, inches (mm)	±0.0002 (0.005)
Repeatability, inches (mm)	±0.0001 (0.0025)
Machine Weight, lbs (Kg)	38,500 (17,500)

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.



## Efficient machining of complex production parts.

The HTX horizontal machining centers match the performance of many machines that cost twice as much.

- Fast, twin 500 mm pallet system keeps cycle times low.
- Fully integrated 4-Axis capability to efficiently machine complex production parts accurately (full 4<sup>th</sup> axis rotary table).
- Higher contour machining rates with superior surface finish compared to vertical machining center with similar design.

### FEATURES AND OPTIONS

#### Coolant / Chip Removal

Chip Conveyor  
Coolant Ring  
Coolant Screen System  
High Pressure CTS  
Spindle Coolant Nozzle  
Telescopic Way Covers  
Wash Down Gun and Air Gun  
Wash Down System

#### Spindle / Motor

High Speed Servo Systems  
Low Air Pressure Switch  
Motor Brake in Z-Axis  
Spindle Chiller

#### Tooling / Accessories

Part and Tool Probing  
Tooling  
Tombstone

#### Frame / Cabinet

Air Conditioner  
Door Interlock  
Dual Work Lights  
E-Stop Button on Control Head  
Easy Access Side Door with Latch  
Fully Contained Tool Storage  
Linear Glass Scales (X, Y, Z)  
Linear Rails  
Lube Oil Separator  
Power Cabinet Heat Exchanger  
Solid One Piece High-Grade Cast Iron Bed

Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

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



All Hurco machine tools are ergonomically designed to allow ample room in the work cube for fixturing and part setup.

Our integrated Hurco control with WinMax software is what sets us apart. Our powerful technology coupled with usability design techniques will increase productivity at your business and ultimately help you increase profitability.



		<b>HTX500</b>
X, Y, Z Axis Travel, inches (mm)		28 x 24 x 24 (710 x 610 x 610)
Table Size / Pallet Size, inches (mm)		19.7 x 19.7 (500 x 500)
Max Weight on Table, lbs (Kg)		1,100 (500)
Peak Spindle Motor, hp (Kw)		24 (18)
Max Spindle Motor Torque, ft lbs (Nm) @ rpm	12k	175 (237) @ 720
Rapid Traverse X, Y, Z Axis, inches (M) / min		1,380 (35)
Number of Tools Standard		60 CAT (BT) 40
Positioning, inches (mm)		±0.0002 (0.005)
Repeatability, inches (mm)		±0.0001 (0.0025)
Machine Weight, lbs (Kg)		28,650 (13,020)

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.

## Best in Class details make it a Hurco turning center.

■ **True slant-bed lathes.**

Because our turning centers are true slant-bed lathes, the design results in a much more rigid machine.

■ **Massive, robust construction.**

Rigid, fine grain, cast iron slant-bed design.

■ **All-Digital.**

All-digital controls, drives, and motors with absolute encoders on all linear axes promote superb surface finish.

■ **Flexible 12 station turret.**

Each station accommodates static or live tooling so there's no need to adapt your tooling to the design of the turret—it adapts to you.

■ **Signal light.**

You can see what the machine is doing from across the shop. Indicates end of cycle, motion hold, machine fault, and emergency stop.

■ **Pivoting control mount.**

Place the control where it is comfortable for you.

■ **Convenient storage.**

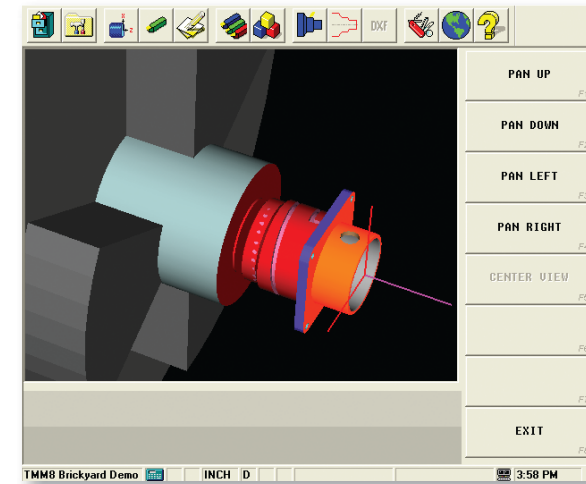
Door folds down to hold prints while programming.

## WinMax<sup>®</sup>

**Slashes setup time.  
Increases productivity.**

The newest addition to Hurco's world renowned control is power packed with 25 new features that will benefit your operation beyond expectations. The Advanced Verification Graphics feature with 3D solid rendering lets you program with confidence. Real time rendering and dynamic rotation are especially powerful when using the Hurco turning centers with multi-tasking (TMX8MY, TMX8MYS, TMM8, and TMM10).

The versatility of Hurco technology gives you more control over your shop's processes because it is equally powerful whether you use NC programming or conversational programming. Our integrated control technology powered by WinMax<sup>®</sup> software is truly an investment in the future that will give you a competitive advantage. And because WinMax uses the proven Microsoft Windows<sup>®</sup> platform, you're less likely to get stuck with an outdated control because the Windows platform is more likely to be compatible with future technology compared to the closed software schemes found on some other brands of machine tools.



■ **USB Port. (Side)**

■ **Oversized spindle bore.**  
Provides generous bar capacity.

■ **Oversized, hinged side doors.**

■ **Front Access for chuck and tailstock pressure.**

■ **State-of-the-art spindle technology.**

Reliable. Powerful. Precise. Cartridge design eliminates maintenance and protects internal bearing system of spindle.

■ **Inside door.**

Keeps coolant and chips inside machine.

■ **Built-in sub-spindle motor with chiller.**

■ **Sloping telescopic way covers.**  
Designed to keep chips out and to protect the premium components inside the machine.

■ **Washdown and air guns.**

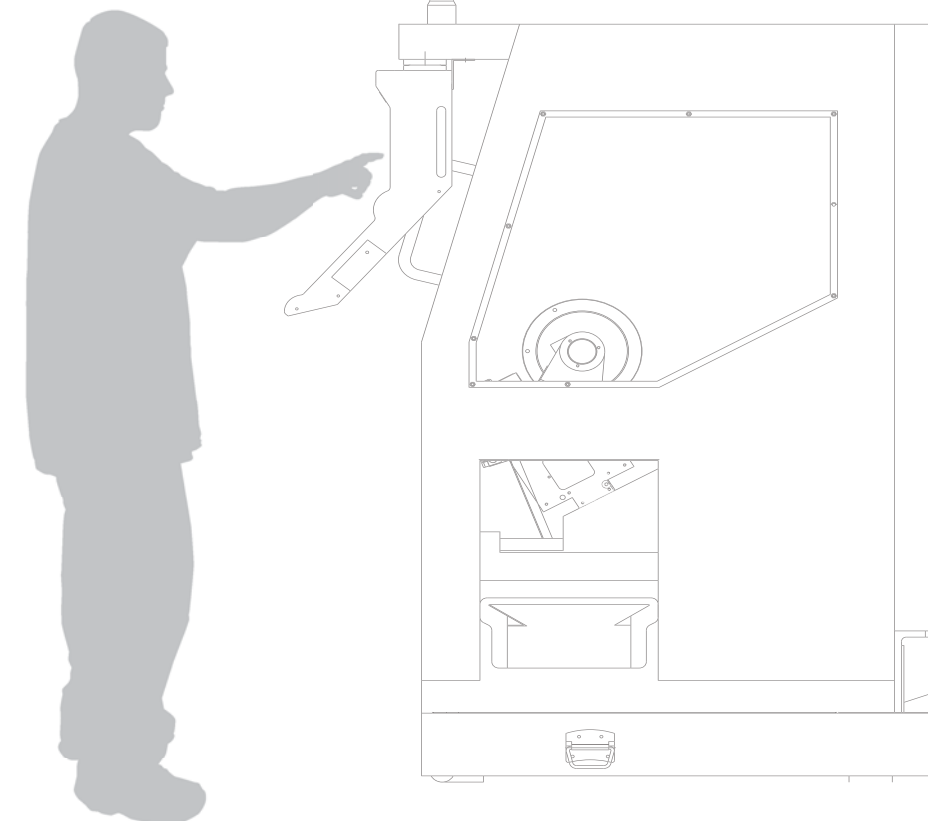
■ **Ergonomic coolant tank design.**

Improves chip management and pulls out from the front for easy cleaning and maintenance.

■ **Chip conveyor.**

■ **Designed to fit you.**

When it comes to machine design, ergonomic features are often an afterthought or overlooked entirely. At Hurco, we take the time to design our products to fit how you work instead of forcing you to work around the design of the machine. You'll notice the benefits of such thoughtful design features—doors with big handles that are easy to open and close; a large work cube so you have more room to work; a control console on a pivoting mount for easy adjustment; big buttons with logical labels that are easy to see; and convenient access to chuck and tailstock pressure.



TMX8  
TMX10  
TMX8MY  
TMX8MYS

High Performance  
Slant-bed Turning Centers



## More power for the money.

The TMX Series of high performance lathes has increased travels, faster spindle acceleration rates, more horsepower, and faster rapids. Additionally, the programmable tailstock and new plug and play options significantly increase productivity. Invest in the TMX lathe that meets your turning needs and gives you the best return on your investment.

- TMX8.
- TMX10.
- TMX8MY with radial live tooling turret and Y-axis.
- TMX8MYS with radial live tooling turret, Y-axis, and sub-spindle.

### FEATURES AND OPTIONS

#### Coolant / Chip Removal

Chip Conveyor  
Coolant Screen System  
High Pressure Coolant Ready  
Telescopic Way Covers  
Wash Down Gun and Air Gun  
Mist Collector

#### Spindle / Motor

High Speed Servo Systems  
Spindle Chiller

#### Tooling / Accessories

Bar Feeder  
Collet Chucks  
Chuck Air Blast  
Tooling  
Tool Setter

#### Frame / Cabinet

Auto Door, Door Interlock  
Easy Access Side Door with Latch  
E-Stop Button on Control  
Fully Contained Tool Storage Shelves  
Linear Rails  
Lube Oil Separator  
Parts Conveyor, Parts Catcher  
Power Cabinet Air Conditioner  
Power Cabinet Heat Exchanger  
Solid One Piece High-Grade Cast Iron Bed  
Work Light

Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

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



## The ultimate in productivity





With the TMX8MYS, you get the optimum return on your investment when it comes to productivity. You not only get the high performance of the TMX slant-bed turning center and motorized live tooling, you get the bonus

Y-axis and a programmable sub-spindle with C-axis control. All of this adds up to increased performance, less setups, and less time handling material because you can finish parts on both the front and back side.



Intelligent design and premium components facilitate turning centers that can withstand the stress of hard turning.



		Live Tooling			
					
		<b>TMX8</b>	<b>TMX10</b>	<b>TMX8MY</b>	<b>TMX8MYS</b>
X, Z, W, Y Axis Travel, inches (mm)*		8 x 22 x 24 (203 x 560 x 610)	9.15 x 26 x 29.13 (232 x 660 x 740)	8.7 x 22 x 24 x 4.4 (220 x 560 x 610 x 110)	8.7 x 22 x 24 x 4.4 (220 x 560 x 610 x 110)
Swing Over Cross Slide, inches (mm)		15 (380)	16.3 (415)	20 (508)	20 (508)
Distance Between Centers, inches (mm)		28.5 (724)	33.6 (854)	28.5 (724)	27.3 (693)
Max Cutting Diameter, inches (mm)		14 (355)	16.3 (415)	13.2 (336)	13.2 (336)
Max Cutting Length, inches (mm)		21 (533)	25 (635)	21 (533)	21 (533)
Bar Capacity, inches (mm)		2.5 (64)	3 (76.2)	2.5 (64)	2.5 (64)
Peak Spindle Motor, hp (Kw)		37.3 (27.8)	37.3 (27.8)	37.3 (27.8)	37.3 (27.8)
Max Spindle Motor Torque, ft lbs (Nm) @ rpm		4.5k 178 (241.5) @ 1100	3k 258.2 (350) @ 759	178 (241.5) @ 1100	178 (241.5) @ 1100
Rapid Traverse X / Z Axis, inches (M) / min		950 / 1,200 (24 / 30)	945 / 1,181 (24 / 30)	950 / 1,200 (24 / 30)	950 / 1,200 (24 / 30)
Tool Shank, inches (mm)		1 (25) Square	1 (25) Square	1 (25) Square	1 (25) Square
Number Of Tools Standard		12 / Slotted	12 / Slotted	12 / Radial	12 / Radial
3 Jaw Chuck, inches (mm)		8 (203)	10 (254)	8 (203)	8 (203)
Turret Index Time - Adjacent (sec)		0.35 Sec	0.12 Sec	0.35 Sec	0.35 Sec
Positioning, inches (mm)		±0.0002 (0.005)	±0.0004 (0.010)	±0.0002 (0.005)	±0.0002 (0.005)
Repeatability, inches (mm)		±0.0001 (0.0025)	±0.0002 (0.005)	±0.0001 (0.0025)	±0.0001 (0.0025)
Weight, lbs (Kg)		10,580 (4,800)	13,420 (6,100)	11,464 (5,200)	11,464 (5,200)
<b>Live Tooling</b>	HP, (Kw)			7.3 (5.4)	7.3 (5.4)
	Torque, ft lbs (Nm) @ rpm	4k		17 (23) @ 2,250	17 (23) @ 2,250
	Tooling			VDI 40 / DIN 5480 / Radial	VDI 40 / DIN 5480 / Radial
<b>Sub-spindle</b>	Peak Spindle Motor, hp (Kw)			N/A	20 (15)
	Torque, ft lbs (Nm) @ rpm	6k		N/A	70.4 (99.5) @ 1,450
	Chuck Size, inches (mm)			N/A	6 (152)
	Bar Capacity, inches (mm)			N/A	1.25 (32)

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.

\*W axis = tailstock axis / sub-spindle

TM6  
TM8  
TM10  
  
TMM8  
TMM10



## Small footprint. Solid design. Affordable price.

The small footprint, large work cube, ergonomic design, chip management system, and affordable price tag of the Hurco CNC slant-bed turning centers make small batch manufacturing profitable.

- The TM Series combines a small footprint with a large work cube.
- More rigid than competitive models.
- Low base price (TM models from \$43,995).
- The TMM lathes with live tooling include C-Axis standard and program to  $\pm.003$  of a degree. Any station can be a live tool.
- Best in class chip management system.

### FEATURES AND OPTIONS

#### Coolant / Chip Removal

Chip Conveyor  
Coolant Screen System  
Telescopic Way Covers  
Wash Down Gun and Air Gun  
Mist Collector

#### Spindle / Motor

High Speed Servo Systems

#### Tooling / Accessories

Bar Feeder  
Collet Chucks  
Chuck Air Blast  
Tooling  
Tool Setter

#### Frame / Cabinet

Door Interlock  
Easy Access Side Door with Latch  
E-Stop Button on Control  
Linear Rails  
Lube Oil Separator  
Parts Catcher  
Power Cabinet Air Conditioner  
Power Cabinet Heat Exchanger  
Solid One Piece High-Grade Cast Iron Bed  
Work Light

Find more product information and specifications at [www.hurco.com](http://www.hurco.com).

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

## Experience the efficiency of multi-tasking

A TMM slant-bed turning center with live tooling is the most efficient solution for small to medium lot sizes of parts that require turning and secondary milling/drilling operations. Save time with one setup and you won't lose accuracy due to refixturing. Many competitive turning centers charge extra for the C-axis, but it is standard on our TMM turning centers. We also use a fast servo turret instead of the slower hydraulic turret to give you the maximum benefit from multi-tasking.

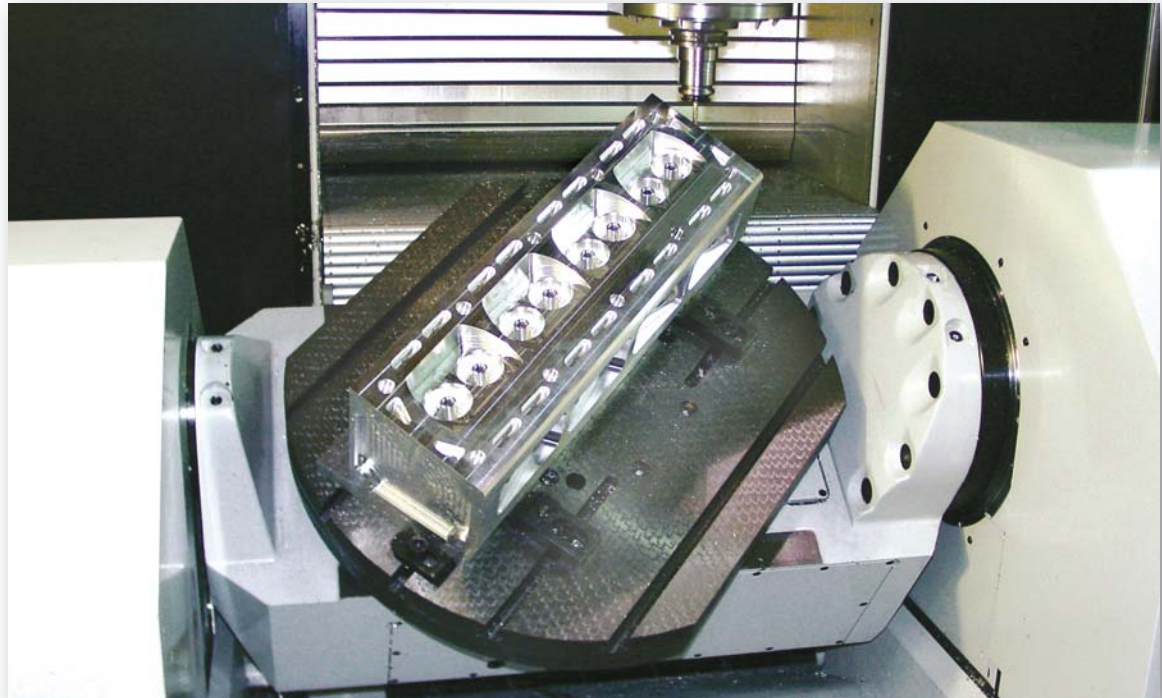


Our TM turning centers are designed and manufactured to make your shop efficient. Unlike Hurco turning centers, many competitive models force you to adapt your tooling to the design of their turret.



	Live Tooling									
	TM6		TM8		TM10		TMM8		TMM10	
X, Z Axis Travel, inches (mm)	7 x 14 (178 x 356)		8 x 20 (203 x 508)		9.8 x 29.5 (250 x 750)		7.8 x 20 (198 x 508)		9.8 x 29.5 (250 x 750)	
Swing Over Cross Slide, inches (mm)	9.4 (240)		11.8 (300)		15.8 (402)		11.8 (300)		15.8 (402)	
Distance Between Centers, inches (mm)	15.8 (403)		23 (588)		27.4 (695)		23 (588)		27.4 (695)	
Max Cutting Diameter, inches (mm)	12.4 (316)		14 (356)		17.7 (450)		10 (256)		11.6 (295)	
Max Cutting Length, inches (mm)	13.4 (340)		19 (483)		28.3 (720)		17.9 (455)		27.6 (700)	
Bar Capacity, inches (mm)	1.77 (45)		2.0 (52)		3.0 (78)		2.0 (52)		3.0 (78)	
Peak Spindle Motor, hp (Kw)	17.5 (13)		22 (16)		29.7 (22)		18 (13.2)		24 (18)	
Max Spindle Motor Torque, ft lbs (Nm) @ rpm	6k	84 (113) @ 1,090	4.8k	133 (180) @ 870	3k	260 (352) @ 600	4.8k	258 (350) @ 360	3k	350 (474) @ 360
Rapid Traverse X / Z Axis, inches (M) / min	750 / 945 (19 / 24)		750 / 945 (19 / 24)		750 / 945 (19 / 24)		750 / 945 (19 / 24)		750 / 945 (19 / 24)	
Tool Shank, inches (mm)	3/4 (19) Square		1 (25) Square		1 (25) Square		3/4 (19) Square		1 (25) Square	
Number Of Tools Standard	12 / Slotted or VDI		10 / Slotted or VDI		12 / Slotted or VDI		12 / Axial		12 / Axial	
3 Jaw Chuck, inches (mm)	6 (152)		8 (203)		10 (254)		8 (203)		10 (254)	
Turret Index Time - Adjacent (sec)	0.5 Sec		0.5 Sec		0.5 Sec		0.23 Sec		0.31 Sec	
Positioning, inches (mm)	±0.0002 (0.005)		±0.0002 (0.005)		±0.0002 (0.005)		±0.0002 (0.005)		±0.0002 (0.005)	
Repeatability, inches (mm)	±0.0001 (0.0025)		±0.0001 (0.0025)		±0.0001 (0.0025)		±0.0001 (0.0025)		±0.0001 (0.0025)	
Weight, lbs (Kg)	7,010 (3,180)		8,700 (3,950)		11,030 (5,000)		8,820 (4,000)		11,025 (5,000)	
HP, (Kw)							6 (4.4)		8.9 (6.6)	
Torque, ft lbs (Nm) @ rpm	5k						21 (28) @ 1,500		31 (42) @ 1,500	
Tooling							VDI 30 / DIN 5480 / Axial		VDI 40 / DIN 5480 / Axial	

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.



### Trunnion Tables

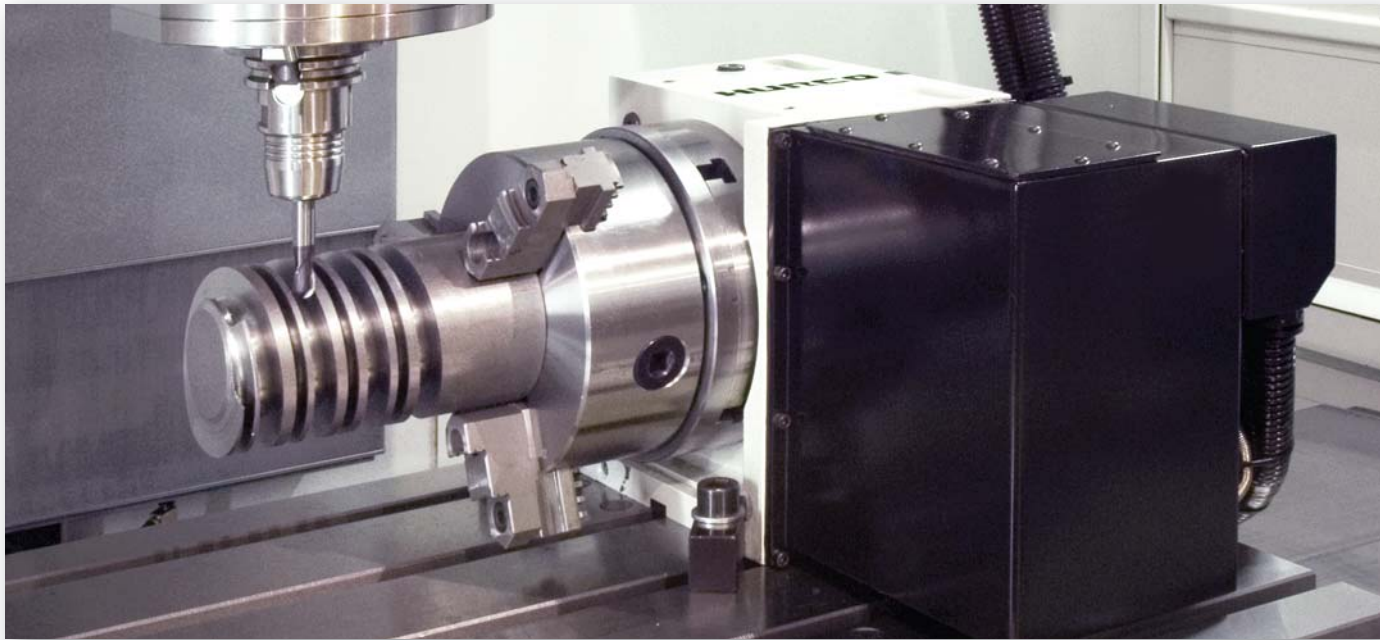
Premium components and quality design of Hurco trunnion tables promote accuracy and reliability.

- Large diameter roller bearings promote rigidity.
- Powerful hydraulic clamping system.
- Anti-backlash worm drive system for A and C axes.
- Rotary encoders yield tighter tolerances.
- Six mounting T-slots.

Model	Table Diameter inches (mm)	Maximum Part Size Ø inches (mm)	Table Load lb (Kg)
HTT 200	7.8 (198)	12.6 (320)	330 (150)
HTT 250	9.8 (248)	15.75 (400)	440 (200)
HTT 350	13.7 (348)	18.7 (475)	550 (250)
HTT 400	15.7 (398)	21.7 (550)	660 (300)
HTT 500	19.7 (500)	23.6 (600)	1,100 (500)

**Find more product information and specifications at [www.hurco.com](http://www.hurco.com).**

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



## Rotary Tables

With a generous through-hole and the ability to be horizontally or vertically mounted, the Hurco rotary tables are a practical way to increase efficiency. The integrated Hurco control offers 5-sided machining using G-Code or Hurco's conversational programming.

- Dual lead worm for increased rigidity.
- Cross roller bearing for increased rigidity, compact design, low friction, and cooler operating temperature.
- Disc brake for positive clamping and low distortion.
- Superior accuracy.

All of the Hurco Rotary Table Kits include the table with motor, electrical harness interface, and cable mounting hardware.



**H160**



**H200**



**H250**



**H320**

	<b>H160</b>	<b>H200</b>	<b>H250</b>	<b>H320</b>
Table Diameter, inches (mm)	6.5 (165)	7.9 (200)	9.8 (250)	12.6 (320)
Center Height in Vertical, inches (mm)	5.5 (140)	5.5 (140)	7.1 (180)	8.3 (210)
Table Height in Horizontal, inches (mm)	7.3 (185)	7.3 (185)	8.7 (220)	8.7 (220)
Through Hole Diameter, inches (mm)	1.57 (39.8)	1.57 (39.8)	2.76 (70)	2.76 (70)
Overall Dimensions (W, D, H), inches (mm)	16.5, 10.6, 10 (420, 270, 255)	16.5, 10.6, 10 (420, 270, 255)	20.5, 12, 13 (520, 305, 330)	20.5, 12, 14.6 (520, 305, 370 <sup>1</sup> )
Maximum RPM	33.3	33.3	33.3	33.3
Positioning Accuracy (sec)	25	25	25	25
Repeatability (sec)	± 2	± 2	± 2	± 2
Clamping Force Kg/M, Air Pressure (5Kg/cm <sup>2</sup> )	25.5	25.5	45.7	45.7
Permissible Load-Horizontal (Kg)	160	160	300	300
Permissible Load-Vertical (Kg)	80	80	125	125

<sup>1</sup>Note: Overall height and width for H320 extends beyond housing.

Hurco offers a one-stop shopping approach, which is attractive when financing a new machine. You can roll all of the accessories into one purchase to get all of the equipment you need to maximize your machining center. In addition to accessories and tooling, Hurco offers financing that simplifies the purchasing process.

### Tooling

For general machining applications, Hurco has created a basic kit of high quality durable tool holders.

- Precision ground tapers ensure precise tool seating.
- Each end mill holder taper is ground to a tolerance of AT3 or better.
- Made of high strength alloy steel.



### Hurco Tooling Kit (CAT 40)

Description	Quantity
ER-16-4 Collet Holder	1
ER-32-4 Collet Holder	1
ER-16-4 ER Collet Set	One 10 pc. set
ER-32-4 ER Collet Set	One 18 pc. set
End Mill Holder for 1/4"-3" (6.35-76.2 mm)	1
End Mill Holder for 3/8"-3" (9.5-76.2 mm)	1
End Mill Holder for 1/2" - 4.63" (12.7-117.6 mm)	1
End Mill Holder for 5/8"-3.75" (15.9-92.25 mm)	1
End Mill Holder for 3/4"-3" (19-76.2 mm)	1
End Mill Holder for 1" - 4" (25.4-101.6 mm)	1
Shell Mill Holder 1" (25.4 mm) Arbor	1
Keyless Chuck Holder 1/2" (12.7 mm)	1



### Hurco Retention Knob Kits (CAT 40 Holders)

Description	Quantity
Non CTS Retention Knobs for CAT-40 Holders	16 pc. set
CTS Retention Knobs for CAT-40 Holders	16 pc. set

**Find more product information and specifications at [www.hurco.com](http://www.hurco.com).**

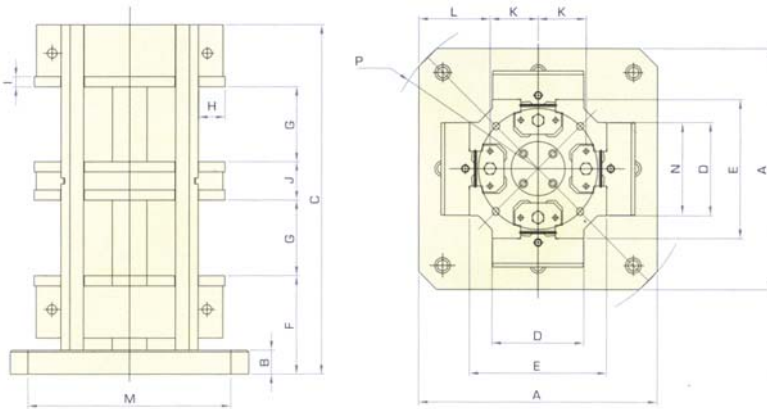
Machines shown with options. Prices and information may change without notice.

## Vises / Tombstones

Hurco vises provide versatile material holding options for optimized job planning.

- Anti-lift clamp design prevents lifting of movable jaw.
- Hardened vise bed and jaw plates maintain accuracy.
- Machined surfaces are square and parallel to .001" for accuracy.

Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Weight
Inch	19.69	1.57	22.83	6.06	9.05	4.84	4.92	1.75	0.67	2.52	3.17	6.67	16.5	5.98	24.1	528 lbs.
mm	500	40	580	154	230	123	125	44.5	17	64	80.5	169.5	420	152	625	240 Kg



Description	Model	Jaw Size	Opening	Clamping Force
4" Hurco Vise	HV44	4" (102 mm)	4" (102 mm)	6,000 lbs (2,722 Kg)
6" Hurco Vise	HV689	6" (152 mm)	8.9" (226 mm)	11,600 lbs (5,270 Kg)
8" Hurco Vise	HV810	8" (203 mm)	10" (254 mm)	11,600 lbs (5,270 Kg)

Description	Model	Jaw Size	Opening	Clamping Force
Stackable Vise	HVS66	6" (152 mm)	6" (152 mm)	16,000 lbs (7,258 Kg)



Description	Model	Jaw Size	Opening
Hurco Double Clamp	HVDC65	6" (152 mm)	5" (127 mm)







# HURCO®

Hurco USA  
A Division of Hurco Companies, Inc.  
One Technology Way  
P.O. Box 68180  
Indianapolis, IN 46268-0180

[www.hurco.com](http://www.hurco.com)  
800.634.2416

