

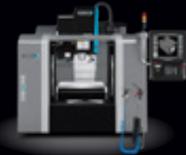
PRODUCT CATALOG

***MIND OVER METAL***



# HURCO® *PRODUCT LINE-UP*

## 3-AXIS VERTICAL MACHINING CENTERS



VM ONE



VM10i / VM10HSi



VM15Di



VM20i

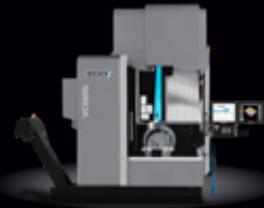


VM30i

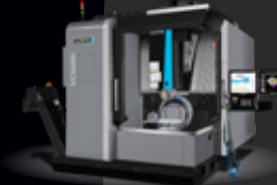
## 5-AXIS VERTICAL MACHINING CENTERS



VC500i



VC600i



VCX600i



VM10Ui / VM10UHSi

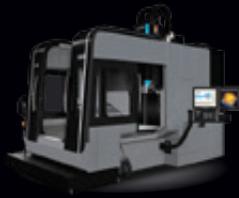


VMX30Ui

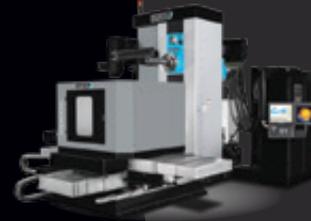
## DOUBLE COLUMN & HORIZONTAL



BX40Ui



BX40i / BX50i / BX60i



HBMX55i / HBMX80i



HBMX120i

## TURNING CENTERS



TM6i



TM8i



TM10i



TM12i

For over 50 years, Hurco has been empowering machinists 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.



VMX24i / VMX24Di



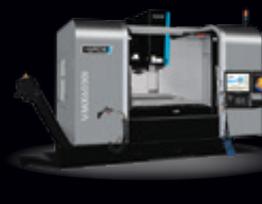
VMX30i / VMX30Di



VMX42i / VMX42Di



VMX50i / Di / 50T



VMX6030i / Di / 50T



VMX64i / 50T



VMX84i / 50T



VMX30UDi



VMX42Ui



VMX42SRTi / VMX42HSRTi



VMX60SRTi



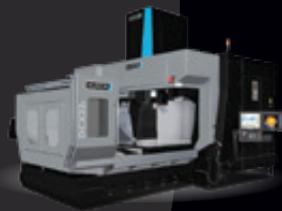
VMX42SWi / VMX60SWi



VMX84SWi



HM1700Ri



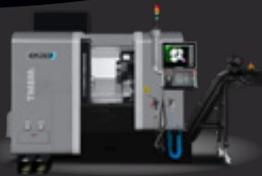
DCX22i / 50T



DCX32i / DCX3226i



DCX42i



TM8Mi



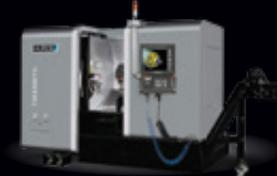
TM10Mi / TM12Mi



TMX8i / TMX10i



TMX8MYi / TMX10MYi



TMX8MYSi / TMX10MYSi

# HURCO®

mind over metal®

## *What's MIND OVER METAL?*

*Your expertise combined with our technology  
to produce quality parts more profitably.  
That's Mind Over Metal. That's HURCO!*

With more than 80 improvements to our initial MAX5 control console after usability tests with customers, its functionality is the epitome of user-centered design. The industry leading specifications of the MAX5 control combined with its ergonomic design and programming flexibility makes our customers more productive and more profitable.

### **INDUSTRY-LEADING CONTROL SPECIFICATIONS**

- Up to 10,000 block lookahead with UltiMotion®
- 128GB Solid State Hard Drive
- 4GB RAM Memory
- 2.7 GHz Dual Core Processor
- Up to 4,000 bps Processing Speed
- Dual 19" LCD Touch Screen Monitors\*

\*Some models single screen.

**LEARN MORE AT [HURCO.COM/WINMAX](http://HURCO.COM/WINMAX)**

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# HURCO®

## mind over metal®



## Why Hurco?

Why Hurco? Here's what our customers tell us on their surveys: Our control. The people (more specifically, helpful people who care about their success). And machines that are built to last.

The Hurco control is the most flexible control in the industry that lets you decide which programming method is best for each job: conversational, NC, or you can use a customer favorite called NC/Conversational Merge.

The Hurco CNC control makes job shops more profitable because it is designed to make high-mix manufacturing efficient with features that reduce setup and programming time. We are focused on leading the industry in the development of sophisticated control technology that is easy to learn and easy to use. With 50+ years of experience and multiple patents, our mission is to continuously improve and innovate so we can help our customers be more productive and profitable. When our customers succeed. We succeed. It's that simple.

**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.**

# VMi Series

## General Purpose 3-Axis Vertical Mills

- » VM ONE
- » VM10i
- » VM10HSi
- » VM15Di
- » VM20i
- » VM30i

# 3-AXIS



### SERIES OVERVIEW

- » Small footprint. Large work cube. Big value.
- » One-piece, solid, cast-iron, machine base.
- » One of the heaviest machine weights in its class.
- » BIG-PLUS® dual-contact spindle system / CAT 40 tooling (standard not an option).
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Larger, heavy-duty, linear rails on all three axes:
  - The rails are mounted and wedge locked to a machined shoulder for increased rigidity and reduced vibration just like all other Hurco machining centers.
  - The Y-axis rails are strategically spaced for increased strength and rigidity.
- » Wider machine tables extend beyond the X-axis travels to provide manufacturing flexibility that promotes high-mix manufacturing.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » Ergonomically designed control console with 19" LCD touch-screen.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard not an option.

## Small Footprint. Large Work Cube. Big Value.

The VM series of 3-axis CNC machining centers features a small footprint with a large work cube. No other CNC mill packs as much productivity into such an efficiently designed package. The VM machining centers are absolutely the best value on the market for small CNC mills.

Standard & Optional Features can be found on Pages 46-49

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



Scan to learn more!

SPECIFICATIONS		VM ONE	VM10i	VM10HSi	VM15Di	VM20i	VM30i
CAPACITY	TABLE SIZE	30 x 16 in / 762 x 406 mm	30 x 16 in / 762 x 406 mm	30 x 16 in / 762 x 406 mm	35.4 x 16 in / 900 x 406 mm	46 x 20 in / 1,168 x 508 mm	52 x 20 in / 1,321 x 508 mm
	TABLE T-SLOTS	3 x .71 in / 3 x 18 mm	3 x .71 in / 3 x 18 mm	3 x .71 in / 3 x 18 mm	3 x .63 in / 3 x 16 mm	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm
	MAXIMUM WEIGHT ON TABLE	3,300 lb / 1,500 kg	3,300 lb / 1,500 kg	3,300 lb / 1,500 kg	1,500 lb / 680 kg	3,970 lb / 1,800 kg	3,970 lb / 1,800 kg
	SPINDLE NOSE TO TABLE	3.0 in / 76 mm	4.0 in / 101.6 mm	4.0 in / 101.6 mm	4.0 in / 101.6 mm	4.0 in / 101.6 mm	4.0 in / 101.6 mm
TRAVEL	X-AXIS	26 in / 660 mm	26 in / 660 mm	26 in / 660 mm	30 in / 762 mm	40 in / 1,016 mm	50 in / 1,270 mm
	Y-AXIS	16 in / 406 mm	20 in / 508 mm	20 in / 508 mm			
	Z-AXIS	14 in / 356 mm	20 in / 508 mm				
SPINDLE	MAXIMUM SPINDLE SPEED	8,000 rpm	12,000 rpm	20,000 rpm	12,000 rpm	12,000 rpm	12,000 rpm
	SPINDLE POWER (PEAK - 1 MIN)	10 hp / 7.5 kW	15 hp / 11.0 kW	11.4 hp / 8.5 kW	22.8 hp / 17.0 kW	20 hp / 15 kW	20 hp / 15 kW
	SPINDLE TORQUE (PEAK - 1 MIN)	36.4 ft. lbs / 49.4 Nm @ 1,450 rpm	45 ft. lbs / 61 Nm @ 1,740 rpm	4.0 ft. lbs / 5.4 Nm @ 15,000 rpm	79.1 ft. lbs / 107.2 Nm @ 1,500 rpm	60 ft. lbs / 81.3 Nm @ 1,740 rpm	60 ft. lbs / 81.3 Nm @ 1,740 rpm
ATC	TOOL TYPE	CAT 40 / Big Plus®	CAT 40 / Big Plus®	BT30	CAT 40 / Big Plus®	CAT 40 / Big Plus®	CAT 40 / Big Plus®
	TOOL CAPACITY	16	24	20	24	24	24
	MAXIMUM TOOL DIAMETER	3.5 in / 90 mm	3.1 in / 78.7 mm	2.4 in / 60.9 mm	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 mm
	MAXIMUM TOOL LENGTH	7.9 in / 200 mm	9.8 in / 250 mm				
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg	11 lb / 4.9 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
	TOOL-TO-TOOL ATC TIME	3.5 sec	2.5 sec	2.5 sec	TBD	2.5 sec	2.5 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,102 in / 25.5 m	X= 1,102 in / 25.5 m	X= 1,102 in / 25.5 m	X= 1,417 in / 36 m	X= 1,102 in / 25.5 m	X= 1,102 in / 25.5 m
		Y= 1,102 in / 25.5 m	Y= 1,102 in / 25.5 m	Y= 1,102 in / 25.5 m	Y= 1,417 in / 36 m	Y= 1,102 in / 25.5 m	Y= 1,102 in / 25.5 m
		Z= 1,102 in / 25.5 m	Z= 1,102 in / 25.5 m	Z= 1,102 in / 25.5 m	Z= 1,181 in / 30 m	Z= 1,102 in / 25.5 m	Z= 1,102 in / 25.5 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,102 in / 25.5 m	1,102 in / 25.5 m	1,102 in / 25.5 m	1,417 in / 36 m	1,102 in / 25.5 m	1,102 in / 25.5 m
SIZE	MAXIMUM OPERATING FLOOR SPACE	126.1 x 117.6 in / 3,203 x 2,987 mm	118.1 x 113.8 in / 3,000 x 2,891 mm	125.9 x 117.4 in / 3,198 x 2,982 mm	138.8 x 133.2 in / 3,526 x 3,926	145.8 x 118.4 in / 3,703 x 3,007 mm	160.7 x 108 in / 4,083 x 2,743 mm
	MACHINE HEIGHT	94.3 in / 2,393 mm	99.6 in / 2,530 mm	99.7 in / 2,532 mm	112 in / 2,847 mm	101.5 in / 2,576 mm	101.4 in / 2,576 mm
	MACHINE WEIGHT	6,200 lb / 2,812 kg	6,200 lb / 2,818 kg	6,825 lb / 3,100 kg	7,000 lb / 3,175 kg	9,039 lb / 4,100 kg	9,339 lb / 4,245 kg

# VMXi Series

## Performance 3-Axis Vertical Mills

- » VMX24i
- » VMX30i
- » VMX42i
- » VMX50i
- » VMX50i-50T

# 3-AXIS

VMX: 24" - 50" of X-Travel



### SERIES OVERVIEW

- » Wider machine tables extend beyond the X-axis travels to provide manufacturing flexibility that promotes high-mix manufacturing.
- » Direct coupled ballscrews and motors.
- » Large front door opening. Large, hinged, side doors.
- » Larger, heavy-duty, roller ways on all three axes.
- » BIG-PLUS® dual-contact spindle system / CAT 40 tooling (standard not an option).
- » Ceramic hybrid spindle bearings with lifetime grease.
- » One-piece, solid, cast-iron, machine base.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with two 19" LCD touch-screens.
- » Adjustable height control arm.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard not an option.

## CNC Mills Built for Performance Machining.

Our signature line of VMX machining centers takes CNC machining to the next level. These machines deliver high-precision capabilities, rigidity, accuracy, and repeatability. Whether you are doing batch production, one-offs, or die/mold work, the VMX CNC mills will make you more productive and your machine shop more profitable.

Standard & Optional Features can be found on Pages 46-49



Scan to learn more!

# SPECIFICATIONS

## VMX24i

## VMX30i

## VMX42i

## VMX50i

## VMX50i-50T

		VMX24i	VMX30i	VMX42i	VMX50i	VMX50i-50T
CAPACITY	TABLE SIZE	30 x 20 in / 760 x 508 mm	40 x 20 in / 1,020 x 508 mm	50 x 24 in / 1,270 x 610 mm	59 x 26 in / 1,500 x 660 mm	59 x 26 in / 1,500 x 660 mm
	TABLE T-SLOTS	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm	6 x .71 in / 6 x 18 mm	6 x .71 in / 6 x 18 mm
	MAXIMUM WEIGHT ON TABLE	3,300 lb / 1,500 kg	3,300 lb / 1,500 kg	3,850 lb / 1,746 kg	4,410 lb / 2,000 kg	4,410 lb / 2,000 kg
	SPINDLE NOSE TO TABLE	6.0 in / 152 mm	6.0 in / 152 mm	6.0 in / 152 mm	4.0 in / 101.6 mm	4.3 in / 109.2 mm
TRAVEL	X-AXIS	24 in / 610 mm	30 in / 762 mm	42 in / 1,067 mm	50 in / 1,270 mm	50 in / 1,270 mm
	Y-AXIS	20 in / 508 mm	20 in / 508 mm	24 in / 610 mm	26 in / 660 mm	26 in / 660 mm
	Z-AXIS	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm
SPINDLE	MAXIMUM SPINDLE SPEED	12,000 rpm	12,000 rpm	12,000 rpm	12,000 rpm	8,000 rpm
	SPINDLE POWER (PEAK - 1 MIN)	12 hp / 9 kW	18 hp / 13.4 kW	24 hp / 18 kW	24 hp / 18 kW	29.7 hp / 22.2 kW
	SPINDLE TORQUE (PEAK - 1 MIN)	105 ft. lbs / 143 Nm @ 600 rpm	158 ft. lbs / 214 Nm @ 600 rpm	175 ft. lbs / 237 Nm @ 720 rpm	176.1 ft. lbs / 238.8 Nm @ 720 rpm	260 ft. lbs / 353 Nm @ 600 rpm
ATC	TOOL TYPE	CAT 40 / Big Plus®	CAT 40 / Big Plus®	CAT 40 / Big Plus®	CAT 40 / Big Plus®	CAT 50
	TOOL CAPACITY	30	40	30 or 40	30 or 40	30
	MAXIMUM TOOL DIAMETER	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 mm	3 in / 5.1 in (76.2 / 129.5 mm) with Adjacent Pockets Empty	4.92 in / 125 mm
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	33 lb / 15 kg
	TOOL-TO-TOOL ATC TIME	2 sec	2 sec	2 sec	2 sec	4 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,496 in / 38 m	X= 1,496 in / 38 m	X= 1,496 in / 38 m	X= 1,260 in / 32 m	X= 1,260 in / 32 m
		Y= 1,496 in / 38 m	Y= 1,496 in / 38 m	Y= 1,496 in / 38 m	Y= 1,260 in / 32 m	Y= 1,260 in / 32 m
		Z= 1,260 in / 32 m	Z= 1,260 in / 32 m	Z= 1,260 in / 32 m	Z= 944 in / 24 m	Z= 944 in / 24 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,260 in / 32 m	1,260 in / 32 m	1,260 in / 32 m	944 in / 24 m	944 in / 24 m
SIZE	MAXIMUM OPERATING FLOOR SPACE	149.9 x 159.6 in / 3,807.5 x 4,053.8 mm	149.9 x 159.6 in / 3,807.5 x 4,053.8 mm	180 x 144.9 in / 4,572 x 3,680 mm	199.2 x 154.4 in / 5,059.7 x 3,921.8 mm	198.8 x 172.4 in / 5,049 x 4,378 mm
	MACHINE HEIGHT	106.9 in / 2,715.3 mm	106.9 in / 2,715.3 mm	115 in / 2,920 mm	127.5 in / 3,238.5 mm	118.6 in / 3,014 mm
	MACHINE WEIGHT	9,833 lb / 4,460 kg	10,472 lb / 4,750 kg	14,330 lb / 6,500 kg 15,011 lb / 6,809 kg	16,830 lb / 7,634 kg	20,636 lb / 9,360 kg

# VMX Series

## Performance 3-Axis Vertical Mills

- » VMX6030i
- » VMX6030i-50T
- » VMX64i
- » VMX64i-50T
- » VMX84i
- » VMX84i-50T

# 3-AXIS

VMX: 60" - 84" of X-Travel



## Performance CNC Mills Engineered for Additional Y-Axis Travel.

Our larger VMX machining centers are meticulously engineered to provide more Y-Axis travel. These machines deliver high-precision capabilities to any machining application. Whether you are doing batch production, one-offs, or die/mold work, the VMX CNC mills will make you more productive and your machine shop more profitable.

### SERIES OVERVIEW

- » Engineered for additional Y-axis travel.
- » Wider machine tables extend beyond the X-axis travels to provide manufacturing flexibility that promotes high-mix manufacturing.
- » Direct coupled ballscrews and motors.
- » Large front door opening. Large, hinged, side doors.
- » Larger, heavy-duty, roller ways on all three axes.
- » BIG-PLUS® dual-contact spindle system (CAT 40 or CAT 50).
- » Ceramic hybrid spindle bearings with lifetime grease.
- » One-piece, solid, cast iron, machine base.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with two 19" LCD touch-screens.
- » Adjustable height control arm.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard not an option.

Standard & Optional Features can be found on Pages 46-49



Scan to learn more!

SPECIFICATIONS		VMX6030i	VMX6030i-50T	VMX64i	VMX64i-50T	VMX84i	VMX84i-50T
CAPACITY	TABLE SIZE	66 x 30 in / 1,676 x 762 mm	66 x 30 in / 1,676 x 762 mm	66 x 35 in / 1,676 x 889 mm	66 x 35 in / 1,676 x 889 mm	86 x 34 in / 2,184 x 865 mm	86 x 34 in / 2,184 x 865 mm
	TABLE T-SLOTS	7 x .71 in / 7 x 18 mm	7 x .71 in / 7 x 18 mm	7 x .71 in / 7 x 18 mm	7 x .71 in / 7 x 18 mm	7 x .71 in / 7 x 18 mm	7 x .71 in / 7 x 18 mm
	MAXIMUM WEIGHT ON TABLE	4,410 lb / 2,000 kg	4,410 lb / 2,000 kg	6,000 lb / 2,722 kg	6,000 lb / 2,722 kg	5,000 lb / 2,268 kg	5,000 lb / 2,268 kg
	SPINDLE NOSE TO TABLE	4.0 in / 101 mm	4.0 in / 101 mm	5.0 in / 127 mm	5.0 in / 127 mm	5 in / 127 mm	5 in / 127 mm
TRAVEL	X-AXIS	60 in / 1,524 mm	60 in / 1,524 mm	64 in / 1,625 mm	64 in / 1,625 mm	84 in / 2,134 mm	84 in / 2,134 mm
	Y-AXIS	30 in / 762 mm	30 in / 762 mm	34 in / 864 mm			
	Z-AXIS	24 in / 610 mm	24 in / 610 mm	30 in / 762 mm			
SPINDLE	MAXIMUM SPINDLE SPEED	12,000 rpm	8,000 rpm	12,000 rpm	8,000 rpm	12,000 rpm	8,000 rpm
	SPINDLE POWER (PEAK - 1 MIN)	24 hp / 18 kW	29.7 hp / 22.2 kW	24 hp / 18 kW	30 hp / 22.2 kW	24 hp / 18 kW	30 hp / 22.2 kW
	SPINDLE TORQUE (PEAK - 1 MIN)	175 ft. lbs / 237 Nm @ 720 rpm	260 ft. lbs / 353 Nm @ 600 rpm	175 ft. lbs / 237 Nm @ 720 rpm	260 ft. lbs / 353 Nm @ 600 rpm	175 ft. lbs / 237 Nm @ 720 rpm	260 ft. lbs / 353.2 Nm @ 600 rpm
ATC	TOOL TYPE	CAT 40 / Big Plus®	CAT 50	CAT 40 / Big Plus®	CAT 50 / Big Plus®	CAT 40 / Big Plus®	CAT 50 / Big Plus®
	TOOL CAPACITY	40	30	40	32	40	32
	MAXIMUM TOOL DIAMETER	3.1 in / 80 mm	4.7 in / 119.4 mm	3.1 in / 80 mm	4.9 in / 124.4 mm	3 in / 76.2 mm	4.9 in / 124.4 mm
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm					
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	33 lb / 15 kg	15.4 lb / 7 kg	33 lb / 15 kg	15.4 lb / 7 kg	33 lb / 15 kg
	TOOL-TO-TOOL ATC TIME	2 sec	4 sec	2 sec	4 sec	2 sec	4 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,260 in / 32 m	X= 1,260 in / 32 m	X= 709 in / 18 m	X= 709 in / 18 m	X= 709 in / 18 m	X= 709 in / 18 m
		Y= 1,260 in / 32 m	Y= 1,260 in / 32 m	Y= 709 in / 18 m	Y= 709 in / 18 m	Y= 709 in / 18 m	Y= 709 in / 18 m
		Z= 944 in / 24 m	Z= 944 in / 24 m	Z= 530 in / 13.5 m	Z= 530 in / 13.5 m	Z= 530 in / 13.5 m	Z= 530 in / 13.5 m
	PROGRAMMABLE FEEDRATE / MINUTE	944 in / 24 m	944 in / 24 m	530 in / 13.5 m	530 in / 13.5 m	530 in / 13.5 m	530 in / 13.5 m
SIZE	MAXIMUM OPERATING FLOOR SPACE	222.6 x 185.7 in / 5,654 x 4,717 mm	222.6 x 185.5 in / 5,654 x 4,712 mm	249.5 x 175.5 in / 6,338 x 4,457 mm	249.5 x 175.5 in / 6,338 x 4,457 mm	298.2 x 175.2 in / 7,574 x 4,450 mm	298.2 x 175.2 in / 7,574 x 4,449 mm
	MACHINE HEIGHT	118.7 in / 3,015 mm	118.7 in / 3,015 mm	128.3 in / 3,258 mm	128.3 in / 3,258 mm	130.5 in / 3,316 mm	130.5 in / 3,316 mm
	MACHINE WEIGHT	22,267 lb / 10,100 kg	22,267 lb / 10,100 kg	32,187 lb / 14,600 kg	32,187 lb / 14,600 kg	36,806 lb / 16,730 kg	37,260 lb / 16,936 kg

# VMX D Series

## Direct Drive 3-Axis Vertical Mills

- » VMX24Di
- » VMX30Di
- » VMX42Di

- » VMX50Di
- » VMX6030Di

# 3-AXIS



## VMX Performance with Direct Drive Spindles.

Hurco added the VMXDi models of CNC machines that feature an inline 15,000 rpm direct-drive spindle.

- Faster chip-to-chip time due to faster acceleration and deceleration.
- Less heat that results in enhanced repeatability.
- Improved surface finish due to the inline direct-drive configuration of the spindle.

Standard & Optional Features can be found on Pages 46-49

### SERIES OVERVIEW

- » 15K Direct-Drive Spindle.
- » Improved surface finish. Faster chip-to-chip time. Enhanced repeatability.
- » Generous Y-axis travel.
- » Wider machine tables extend beyond the X-axis travels to provide manufacturing flexibility that promotes high-mix manufacturing.
- » Direct coupled ballscrews and motors.
- » Large front door opening. Large, hinged, side doors.
- » Larger, heavy-duty, roller ways on all three axes.
- » BIG-PLUS® dual-contact spindle system / CAT 40 tooling (standard not an option).
- » Ceramic hybrid spindle bearings with lifetime grease.
- » One-piece, solid, cast-iron machine base.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with two 19" LCD touch-screens.
- » Adjustable height control arm.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard not an option.



Scan to learn more!

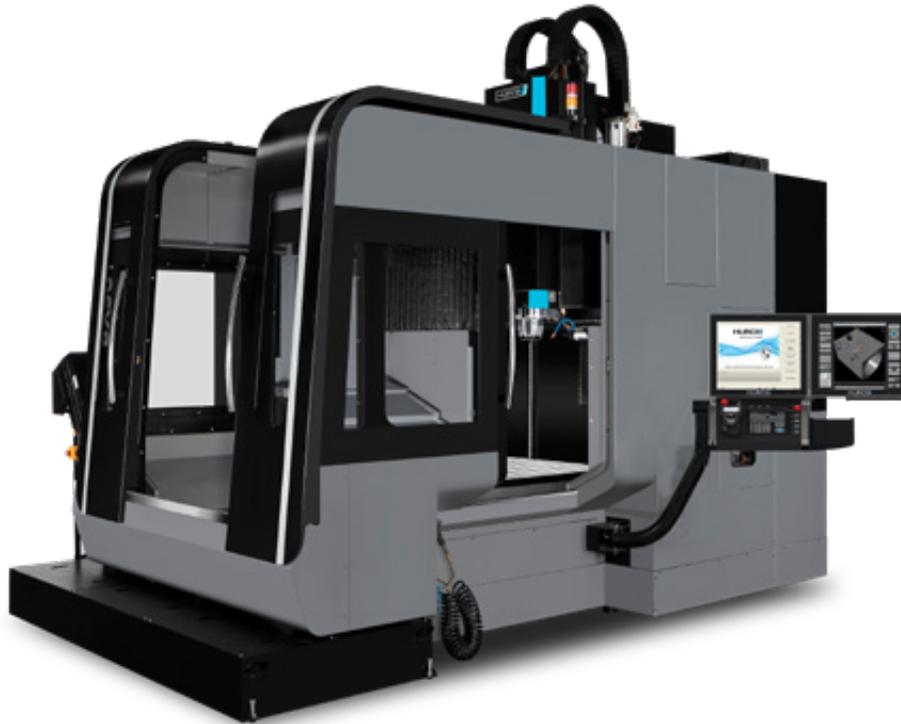
SPECIFICATIONS		VMX24Di	VMX30Di	VMX42Di	VMX50Di	VMX6030Di
CAPACITY	TABLE SIZE	30 x 20 in / 760 x 508 mm	40 x 20 in / 1,020 x 508 mm	50 x 24 in / 1,270 x 610 mm	59 x 26 in / 1,500 x 660 mm	66 x 30 in / 1,676 x 762 mm
	TABLE T-SLOTS	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm	6 x .71 in / 6 x 18 mm	7 x .71 in / 7 x 18 mm
	MAXIMUM WEIGHT ON TABLE	3,300 lb / 1,497 kg	3,300 lb / 1,497 kg	3,850 lb / 1,746 kg	4,410 lb / 2,000 kg	3,000 lb / 1,360 kg
	SPINDLE NOSE TO TABLE	6.0 in / 152 mm	6.0 in / 152 mm	6.0 in / 152 mm	4.3 in / 109.2 mm	4.0 in / 101 mm
TRAVEL	X-AXIS	24 in / 610 mm	30 in / 762 mm	42 in / 1,067 mm	50 in / 1,270 mm	60 in / 1,524 mm
	Y-AXIS	20 in / 508 mm	20 in / 508 mm	24 in / 610 mm	26 in / 660 mm	30 in / 762 mm
	Z-AXIS	24 in / 610 mm	24 in / 610 mm			
SPINDLE	MAXIMUM SPINDLE SPEED	15,000 rpm	15,000 rpm	15,000 rpm	15,000 rpm	15,000 rpm
	SPINDLE POWER (PEAK - 1 MIN)	12 hp / 9 kW	20 hp / 15 kW	20 hp / 15 kW	20 hp / 15 kW	29.5 hp / 22 kW
	SPINDLE TORQUE (PEAK - 1 MIN)	42.3 ft. lbs / 57.35 Nm @ 600 rpm	70.4 ft. lbs / 95.45 Nm @ 1,500 rpm	70.4 ft. lbs / 95.45 Nm @ 1,500 rpm	70.4 ft. lbs / 95.4 Nm @ 1,500 rpm	103.2 ft. lbs / 140 Nm @ 1,500 rpm
ATC	TOOL TYPE	CAT 40 / Big Plus®	CAT 40 / Big Plus®			
	TOOL CAPACITY	30	40	40	40	40
	MAXIMUM TOOL DIAMETER	3.1 in / 80 mm	3.1 in / 80 mm			
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	11.8 in / 300 mm			
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg			
	TOOL-TO-TOOL ATC TIME	1.5 sec	1.5 sec	1.5 sec	1.5 sec	2 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,496 in / 38 m	X= 1,496 in / 38 m	X= 1,496 in / 38 m	X= 1,260 in / 32 m	X= 1,771 in / 45 m
		Y= 1,496 in / 38 m	Y= 1,496 in / 38 m	Y= 1,496 in / 38 m	Y= 1,260 in / 32 m	Y= 1,771 in / 45 m
		Z= 1,260 in / 32 m	Z= 1,260 in / 32 m	Z= 1,260 in / 32 m	Z= 944 in / 24 m	Z= 1,575 in / 40 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,260 in / 32 m	1,260 in / 32 m	1,260 in / 32 m	944 in / 24 m	1,575 in / 40 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (w/ Doors Open)	154.7 x 159.3 in / 3,929 x 4,046 mm	155.1 x 156.5 in / 3,838 x 3,975 mm	180 x 146.1 in / 4,572 x 3,710.9 mm	198.8 x 153.5 in / 5,049.5 x 3,898.9 mm	220.7 x 160.8 in / 5,606 x 4,084 mm
	MACHINE HEIGHT	117.9 in / 2,994.7 mm	118.5 in / 3,009.9 mm	120 in / 3,048 mm	127.8 in / 3,246.1 mm	131.8 in / 3,347 mm
	MACHINE WEIGHT	10,468 lb / 4,748 kg	10,692 lb / 4,850 kg	14,330 lb / 6,500 kg	16,830 lbs / 7,634 kg	23,922 lb / 10,850 kg

# BX Series

## High Speed Bridge 3-Axis Mills

- » BX40i
- » BX50i
- » BX60i

# 3-AXIS



## High-Speed Double-Column Bridge Design CNC Machining Centers.

The stability of the double-column, the ladder design of the Z-axis, and the overall weight of the BX high-speed milling machines provide exceptional accuracy, thermal compensation, and outstanding surface finish capabilities. Equipped with an 18,000 rpm HSK 64A spindle and Hurco's patented UltiMotion® technology, the BX series of CNC machines is designed for high speeds and tight tolerances.

### SERIES OVERVIEW

- » Extremely rigid and thermally stable double-column design.
- » Ladder design of bridge provides maximum support to the head casting.
- » Close proximity of spindle to bridge casting reduces overhang.
- » Direct coupled ballscrews and motors.
- » Easy access to machine table.
- » High speed tool changer.
- » Integral motorized 20K spindle equipped with ABEC-7 ceramic hybrid bearings.
- » Solid, cast-iron, frame.
- » Larger, heavy-duty, roller ways on all three axes.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with two 19" LCD touch-screens.
- » Adjustable height control arm.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard not an option.



Scan to learn more!

Standard & Optional Features can be found on Pages 46-49

# SPECIFICATIONS

## BX40i

## BX50i

## BX60i

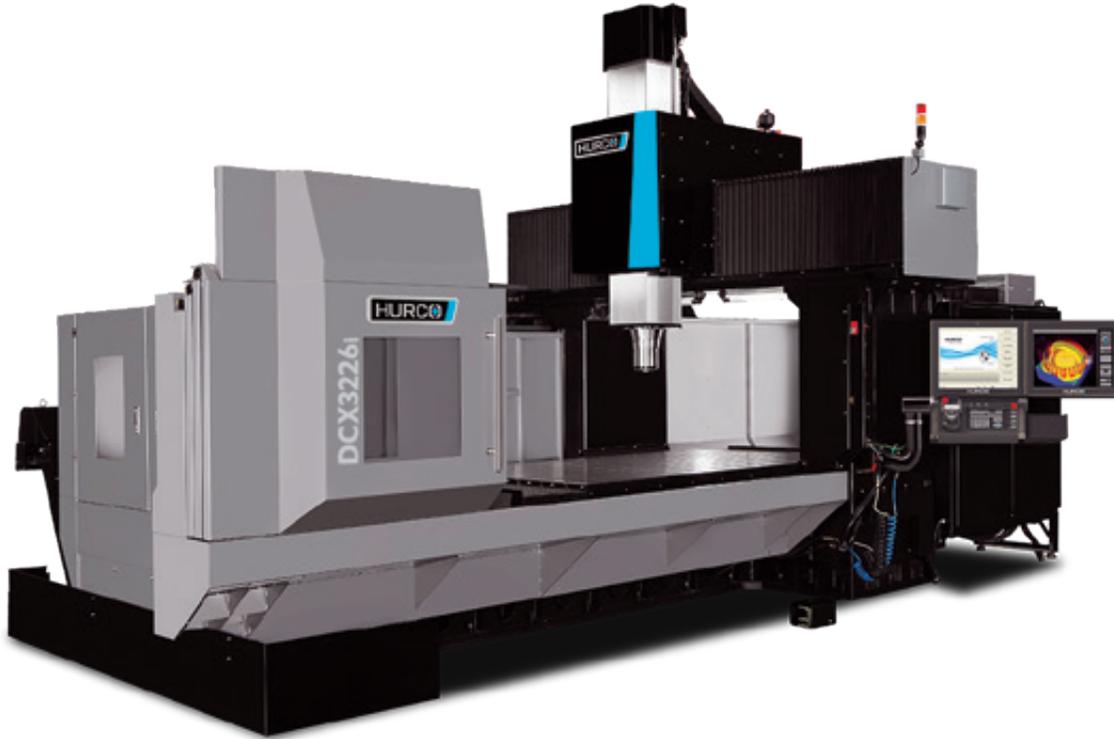
CAPACITY	TABLE SIZE	41.3 x 27.6 in / 1,050 x 700 mm	59.1 x 37.8 in / 1,500 x 960 mm	74.8 x 51.2 in / 1,900 x 1,300 mm
	TABLE T-SLOTS	6 x 0.7 in / 6 x 18 mm	6 x .87 in / 6 x 22 mm	8 x .87 in / 8 x 22 mm
	MAXIMUM WEIGHT ON TABLE	2,204 lbs / 1,000 kg	5,512 lbs / 2,500 kg	13,200 lbs / 6,000 kg
	SPINDLE NOSE TO TABLE	7 in / 178 mm	7.08 in / 180 mm	7.01 in / 178.1 mm
TRAVEL	X-AXIS	40.2 in / 1,020 mm	53.2 in / 1,350 mm	63 in / 1,600 mm
	Y-AXIS	27.6 in / 700 mm	37.4 in / 950 mm	51.2 in / 1,300 mm
	Z-AXIS	19.7 in / 500 mm	23.6 in / 600 mm	27.6 in / 700 mm
SPINDLE	MAXIMUM SPINDLE SPEED	20,000 rpm	20,000 rpm	20,000 rpm
	SPINDLE POWER (PEAK - 1 MIN)	47 hp / 35 kW	47 hp / 35 kW	47 hp / 35 kW
	SPINDLE TORQUE (PEAK - 1 MIN)	88 ft. lbs / 119 Nm @ 2,800 rpm	88 ft. lbs / 119 Nm @ 2,800 rpm	88 ft. lbs / 119 Nm @ 2,800 rpm
ATC	TOOL TYPE	HSK 63A	HSK 63A	HSK 63A
	TOOL CAPACITY	30	30	30
	MAXIMUM TOOL DIAMETER	3 in / 76 mm	3 in / 76 mm	3.15 in / 80 mm
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
	TOOL-TO-TOOL ATC TIME	—	2.5 sec	2.5 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,417 in / 36 m	X= 1,417 in / 36 m	X= 1,417 in / 36 m
		Y= 1,417 in / 36 m	Y= 1,417 in / 36 m	Y= 1,417 in / 36 m
		Z= 1,417 in / 36 m	Z= 1,417 in / 36 m	Z= 1,417 in / 36 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,417 in / 36 m	1,417 in / 36 m	1,417 in / 36 m
SIZE	MAXIMUM OPERATING FLOOR SPACE	188.3 x 138.5 in / 4,782 x 3,518 mm	182.2 x 175.7 in / 4,627 x 4,463 mm	194.7 x 212.5 in / 4,945 x 5,397 mm
	MACHINE HEIGHT	124 in / 3,149 mm	140.2 in / 3,560 mm	149.6 in / 3,800 mm
	MACHINE WEIGHT	20,062 lb / 9,100 kg	28,600 lb / 13,000 kg	42,000 lb / 19,051 kg

# DCX Series

## Large Double Column - 3-Axis Mills

- » DCX22i
- » DCX22i-50T
- » DCX32i
- » DCX3226i
- » DCX42i

# 3-AXIS



### SERIES OVERVIEW

- » Double Column design promotes thermal stability and superior dynamic behavior.
- » 5 second tool-to-tool ATC time.
- » Larger, telescoping, doors give you more room to load/unload and facilitate easy overhead crane access.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with two 19" LCD touch-screens.
- » WinMax<sup>®</sup> Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion<sup>®</sup>) is standard not an option.

## Double column CNC for the BIG STUFF.

The DCX Series Double Column CNC machining centers were created due to customer requests—customers who relied on the usability and flexibility of the Hurco control needed larger machines for aerospace and energy parts. Our 2-meter, 3-meter, and 4-meter VMCs are the biggest machine tools available with the powerful Hurco control.

Standard & Optional Features can be found on Pages 46-49

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



Scan to learn more!

SPECIFICATIONS		DCX22i	DCX22i-50T	DCX32i	DCX3226i	DCX42i
CAPACITY	TABLE SIZE	82.7 x 63 in / 2,100 x 1,600 mm	82.7 x 63 in / 2,100 x 1,600 mm	118.1 x 66.9 in / 3,000 x 1,700 mm	118.1 x 82.7 in / 3,000 x 2,100 mm	157.5 x 82.7 in / 4,000 x 2,100 mm
	MAXIMUM WEIGHT ON TABLE	13,200 lb / 6,000 kg	17,600 lb / 8,000 kg	24,200 lb / 11,000 kg	30,864.7 lb / 14,000 kg	35,274 lb / 16,000 kg
	SPINDLE NOSE TO TABLE	6 in / 152 mm	6 in / 152 mm	6.46 in / 164 mm	6.46 in / 164 mm	6.30 in / 160 mm
	TABLE T-SLOTS	9 x 0.87 in / 9 x 22 mm	9 x 0.87 in / 9 x 22 mm	7 x 0.87 in / 7 x 22 mm	9 x 0.87 in / 9 x 22 mm	9 x 0.87 in / 9 x 22 mm
	DISTANCE BETWEEN COLUMNS	68.9 in / 1,750 mm	68.9 in / 1,750 mm	83.9 in / 2,130 mm	99.6 in / 2,530 mm	99.6 in / 2,530 mm
TRAVEL	X-AXIS	86.6 in / 2,200 mm	86.6 in / 2,200 mm	126 in / 3,200 mm	126 in / 3,200 mm	165.4 in / 4,200 mm
	Y-AXIS	66.9 in / 1,700 mm	66.9 in / 1,700 mm	82.7 in / 2,100 mm	102.4 in / 2,600 mm	102.4 in / 2,600 mm
	Z-AXIS	29.5 in / 750 mm	29.5 in / 750 mm	36.2 in / 920 mm	36.2 in / 920 mm	43.3 in / 1,100 mm
SPINDLE	MAXIMUM SPINDLE SPEED	12,000 rpm	6,000 rpm	6,000 rpm	6,000 rpm	6,000 rpm
	SPINDLE POWER (PEAK - 1 MIN)	24 hp / 18 kW	35 hp / 26 kW	107 hp / 79.8 kW	80 hp / 60 kW	80 hp / 60 kW
	SPINDLE TORQUE (PEAK - 1 MIN)	175 ft. lbs / 237 Nm @ 720 rpm	401 ft. lbs / 544 Nm @ 458 rpm	564 ft. lbs / 764 Nm @ 1,000 rpm	420 ft. lbs / 570 Nm @ 1,000 rpm	420 ft. lbs / 570 Nm @ 1,000 rpm
ATC	TOOL TYPE	CAT 40	CAT 50	CAT 50	CAT 50	CAT 50
	TOOL CAPACITY	40	40	40	40	40
	MAXIMUM TOOL DIAMETER	2.95 in / 75 mm	4.9 in / 125 mm	4.9 in / 125 mm	4.9 in / 125 mm	4.9 in / 125 mm
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	33 lb / 15 kg	33 lb / 15 kg	33 lb / 15 kg	33 lb / 15 kg
	TOOL-TO-TOOL ATC TIME	5 sec	5 sec	5 sec	5 sec	5 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	XYZ = 945 in / 24 m	XY = 591 in / 15 m Z = 472 in / 12 m	XY = 591 in / 15 m Z = 394 in / 10 m	XY = 591 in / 15 m Z = 394 in / 10 m	XY = 492 in / 12.5 m Z = 394 in / 10 m
	PROGRAMMABLE FEEDRATE / MINUTE	945 in / 24 m unlimited*	472 in / 11.9 m unlimited*	394 in / 10 m unlimited*	394 in / 10 m unlimited*	394 in / 10 m unlimited*
SIZE	MAXIMUM OPERATING FLOOR SPACE	285.4 x 239.3 in / 7,246 x 6,078.5 mm	259.5 x 237.4 in / 6,591 x 6,031 mm	392.1 x 233.7 in / 9,960 x 5,935 mm	408.8 x 249.7 in / 10,383.7 x 6,341.2 mm	485.3 x 264.4 in / 12,326 x 6,716 mm
	MACHINE HEIGHT	153.5 in / 3,899 mm	152.6 in / 3,875 mm	186 in / 4,700 mm	186 in / 4,723.5 mm	196.3 in / 4,985 mm
	MACHINE WEIGHT	44,000 lb / 20,000 kg	45,122 lb / 20,510 kg	76,870 lb / 34,940 kg	81,439 lb / 36,940 kg	112,215 lb / 50,900 kg

Note: \* With ULTIMOTION®

# VC/VCX Series

## 5-Axis Cantilever CNC Machines

- » VC500i
- » VC600i
- » VCX600i

# 5-AXIS



## Cantilever 5-Axis Design Supports a Wide Range of Parts.

The B-axis of the cantilever design provides superb undercutting ability with a full 110° in both positive and negative directions and lets you use shorter tools when cutting smaller parts. On a traditional A-axis trunnion, the tools approach the part from behind the A-axis trunnion, which means you're forced to use longer tools for clearance. Since the B-axis trunnion of the VC/VCXi machines tilts around the Y-axis, the tool is always approaching the part from a safe direction, which minimizes the possibility for interference.

### SERIES OVERVIEW

- » Cantilever design results in a small footprint with large work cube and easy part access.
- » Hydraulic tilt/rotary axis braking, instead of pneumatic, provides more clamping power.
- » +110° / -110° B-axis motion delivers better undercut capability.
- » Optimal table height.
- » 2 or 4 passage rotary unions for hydraulics and/or air.
- » Simultaneous 5-Axis (not just 3+2).
- » One-piece, solid, cast-iron, machine base.
- » The integrated trunnion table with a lower mounted B-axis table surface provides a larger work envelope.
- » 12,000 rpm direct drive spindle.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » WinMax® Mill Conversational and NC Programming.
- » 5-axis/5-sided software features – Tool Path Linearization, Tool Center Point Management, Transform Plane, 3D Tool Compensation, Tool Vector Input & Retract, Shortest Angular Traverse, 3D Import.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with two\* 19" LCD touch-screens.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard not an option.

\*VCi models have one 19" touch-screen control console standard.



Scan to learn more!

Standard & Optional Features can be found on Pages 46-49

SPECIFICATIONS		VC500i	VC600i	VCX600i
CAPACITY	TABLE SIZE	19.7 in / 500 mm diameter	23.6 in / 600 mm diameter	23.6 in / 600 mm diameter
	MAXIMUM WEIGHT ON MACHINE TABLE	–	–	–
	MAXIMUM WEIGHT ON ROTARY / TRUNNION TABLE	550 lb / 250 kg	770 lb / 350 kg	770 lb / 350 kg
	SPINDLE NOSE TO TABLE MINIMUM / MAXIMUM	5.9 in (150 mm) / 21.7 in (550 mm)	5.9 in (150 mm) / 25.6 in (650 mm)	5.9 in (150 mm) / 24.9 in (633 mm)
	TABLE T-SLOTS	3.9 in / 100 mm	3.9 in / 100 mm	3.9 in / 100 mm
TRAVEL	X-AXIS	20.5 in / 520 mm	32.3 in / 820 mm	24.4 in / 620 mm
	Y-AXIS	17.7 in / 450 mm	21.7 in / 550 mm	20.5 in / 520 mm
	Z-AXIS	15.8 in / 400 mm	19.7 in / 500 mm	18.1 in / 460 mm
	A-AXIS	–	–	–
	B-AXIS	-110° / +110°	-110° / +110°	-110° / +110°
	C-AXIS	360°	360°	360°
SPINDLE	MAX. SPINDLE SPEED / TOOL TYPE	12,000 rpm / CAT 40	12,000 rpm / CAT 40	12,000 rpm / CAT 40
	SPINDLE POWER (PEAK - 1 MIN)	17.4 hp / 13 kW	22.8 hp / 17 kW	21.4 hp / 16 kW
	SPINDLE TORQUE (PEAK - 1 MIN)	61 ft. lbs / 82.7 Nm	79.1 ft. lbs / 107.2 Nm	80.2 ft. lbs / 108.7 Nm
ATC	TOOL CAPACITY	40	40	40
	MAXIMUM TOOL DIAMETER	3.1 in / 80 mm	3 in / 76 mm	2.95 in / 75 mm
	MAXIMUM TOOL LENGTH	9.8 in / 250 mm	9.8 in / 250 mm	11.8 in / 300 mm
	TOOL-TO-TOOL ATC TIME	2.5 sec	2.5 sec	2 sec
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	XY= 1,102 in / 28 m Z= 1,102 in / 28 m	XY= 1,102 in / 28 m Z= 1,102 in / 28 m	XY= 1,417 in / 36 m Z= 1,417 in / 36 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,102 in / 28 m	1,102 in / 28 m	984 in / 25 m
	A-AXIS MAXIMUM RPM	–	–	–
	B-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm
	C-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm
SIZE	POWER RATING / FULL LOAD KVA	34 KVA	TBD	39 KVA
	MACHINE WEIGHT	16,050 lb / 7,280 kg	22,046 lb / 10,000 kg	19,400 lb / 8,800 kg

# SRT Series

## 5-Axis Swivel Head CNC Machines

- » VMX42SRTi
- » VMX42SWi
- » VMX42HSRTi
- » VMX60SRTi
- » VMX60SWi
- » VMX84SWi

# 5-AXIS



## Maximum 5-Axis Versatility.

The SRTi 5-axis CNC machines offer multiple advantages, starting with the machine's design configuration that utilizes a swivel head and a C-axis rotary torque table that is embedded in the machine table and flush with the surface. The generous size of the machine table provides maximum versatility because you can use the extra table space for secondary operations.

The SWi machines utilize the swivel head spindle but have a traditional machine table allowing you to add an A-axis rotary table that is sized to fit your needs.

**Standard & Optional Features can be found on Pages 46-49**

### SERIES OVERVIEW

#### SRTi Models Only

- » Direct drive, embedded, C-axis, rotary torque table.
  - Embedded rotary table design increases working surface of machine table to support secondary operations, plate work, and/or 3-axis work.
  - Unlimited angular movement of C-axis reduces cycle time.
- » 12K Swivel-Head Spindle.
- » Thick machine table supports heavier parts.
- » 2 or 4 passage rotary unions for hydraulics and/or air.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » WinMax<sup>®</sup> Mill Conversational and NC Programming.
- » 5-axis/5-sided software features – Tool Path Linearization, Tool Center Point Management, Transform Plane, 3D Tool Compensation, Tool Vector Input & Retract, Shortest Angular Traverse, 3D Import.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with two 19" LCD touch-screens.
- » Adjustable height control arm.
- » WinMax<sup>®</sup> Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion<sup>®</sup>) is standard not an option.



*Scan to learn more!*

SPECIFICATIONS		VMX42SRTi	VMX42SWi	VMX42HSRTi	VMX60SRTi	VMX60SWi	VMX84SWi
CAPACITY	TABLE SIZE	50 x 24 in / 1,270 x 610 mm	50 x 24 in / 1,270 x 610 mm	50 x 24 in / 1,270 x 610 mm	66 x 26 in / 1,676 x 660 mm	66 x 26 in / 1,676 x 660 mm	86 x 34 in / 2,184 x 865 mm
	ROTARY TABLE DIAMETER	23.6 in / 599 mm	–	23.6 in / 599 mm	23.6 in / 599 mm	–	–
	MAXIMUM WEIGHT ON MACHINE TABLE	3,000 lb / 1,360 kg	3,000 lb / 1,360 kg	3,000 lb / 1,360 kg	3,000 lb / 1,360 kg	3,000 lb / 1,360 kg	5,000 lb / 2,268 kg
	MAXIMUM WEIGHT ON ROTARY / TRUNNION TABLE	1,100 lb / 500 kg	–	1,100 lb / 500 kg	1,100 lb / 500 kg	–	–
	SPINDLE NOSE TO TABLE MINIMUM / MAXIMUM	.4 in (10 mm) / 24.4 in (620 mm)	6 in (152 mm) / 30 in (762 mm)	.1 in (25 mm) / 24.1 in (612 mm)	.5 in (13 mm) / 24.5 in (622 mm)	4 in (102 mm) / 28 in (711 mm)	5.8 in (147 mm) / 35.8 in (909 mm)
	TABLE T-SLOTS	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm	6 x .71 in / 6 x 18 mm	7 x .71 in / 7 x 18 mm
TRAVEL	X-AXIS	42 in / 1,067 mm	42 in / 1,067 mm	42 in / 1,067 mm	60 in / 1,524 mm	60 in / 1,524 mm	84 in / 2,134 mm
	Y-AXIS	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm	26 in / 660 mm	26 in / 660 mm	34 in / 865 mm
	Z-AXIS	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm	30 in / 762 mm
	A-AXIS	–	–	–	–	–	–
	B-AXIS	+/-90°	+/-90°	+/-90°	+/-90°	+/-90°	+/-90°
	C-AXIS	360°	–	360°	360°	–	–
SPINDLE	MAXIMUM SPINDLE SPEED / TOOL TYPE	12,000 rpm / CAT, BT, DIN 40	12,000 rpm / CAT, BT, DIN 40	20,000 rpm / HSK63	12,000 rpm / CAT, BT, DIN 40	12,000 rpm / CAT, BT, DIN 40	12,000 rpm / CAT, BT, DIN 40
	SPINDLE POWER (PEAK – 1 MIN)	48 hp / 36.5 kW @ 2,900 rpm	48 hp / 36.5 kW @ 2,900 rpm	47 hp / 35 kW @ 2,800 rpm	48 hp / 36.5 kW @ 2,900 rpm	48 hp / 36.5 kW @ 2,900 rpm	48 hp / 36.5 kW @ 2,900 rpm
	SPINDLE TORQUE (PEAK – 1 MIN)	87 ft. lbs / 118 Nm	87 ft. lbs / 118 Nm	88 ft. lbs / 119 Nm	87 ft. lbs / 118 Nm	87 ft. lbs / 118 Nm	87 ft. lbs / 118 Nm
ATC	TOOL CAPACITY	40	40	40	40	40	40
	MAXIMUM TOOL DIAMETER	3 in / 76 mm	3 in / 76 mm	3.0 in / 76 mm	2.95 in / 75 mm	2.95 in / 75 mm	3.0 in / 76 mm
	MAXIMUM TOOL LENGTH	9.8 in / 249 mm	9.8 in / 250 mm	11.8 in / 300 mm	9.8 in / 250 mm	9.8 in / 250 mm	11.8 in / 300 mm
	TOOL-TO-TOOL ATC TIME	4 sec	2 sec	2 sec	4 sec	2 sec	3 sec
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	XY= 1,496 in / 38 m Z= 1,260 in / 32 m	XY= 1,496 in / 38 m Z= 1,260 in / 32 m	XY= 1,378 in / 35 m Z= 1,181 in / 30 m	XY= 1,260 in / 32 m Z= 945 in / 24 m	XY= 1,181 in / 30 m Z= 787 in / 20 mm	XY= 709 in / 18 m Z= 530 in / 13.5 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,260 in / 32 m	1,260 in / 32 m	1,181 in / 30 m	945 in / 24 m	787 in / 20 m	530 in / 13.5 m
	A-AXIS MAXIMUM RPM	–	–	–	–	–	–
	B-AXIS MAXIMUM RPM	90 rpm	90 rpm	50 rpm	90 rpm	50 rpm	33.3 rpm
	C-AXIS MAXIMUM RPM	100 rpm	–	100 rpm	100 rpm	–	–
SIZE	POWER RATING / FULL LOAD KVA	69 KVA	56 KVA	70 KVA	69 KVA	72 KVA	50 KVA
	MACHINE WEIGHT	18,520 lb / 8,400 kg	15,686 lb / 7,130 kg	16,640 lb / 7,550 kg	21,560 lb / 9,780 kg	21,800 lb / 9,888 kg	36,806 lb / 16,730 kg

# U Series

## Trunnion Table 5-Axis CNC Machines

- » BX40Ui
- » VM10Ui
- » VM10USHi
- » VMX30Ui
- » VMX30UDi
- » VMX30UHSi
- » VMX42Ui

# 5-AXIS



## Trunnion Table 5-Axis.

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

### SERIES OVERVIEW

- » Integrated trunnion table design provides more clearance in Z-axis and ability to machine heavier parts compared to 3-axis mills with trunnion table added.
- » +30°/-110° A-axis motion delivers better undercut capability.
- » Solid one-piece cast iron frame
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » 2 or 4 passage rotary unions for hydraulics and/or air.
- » 5-axis/5-sided software features – Tool Path Linearization, Tool Center Point Management, Transform Plane, 3D Tool Compensation, Tool Vector Input & Retract, Shortest Angular Traverse, 3D Import.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with two\* 19" LCD touch-screens.
- » Adjustable height control arm.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard not an option.

\*The VM10Ui has a single-screen 19" LCD touch-screen.

Note: All the VM and VMX U-Series Machines are C-frame CNC machines. The BX 5-axis machine configuration is a double-column bridge machine. To learn about benefits of BX machine configuration, go to page 14.



Scan to learn more!

Standard & Optional Features can be found on Pages 46-49

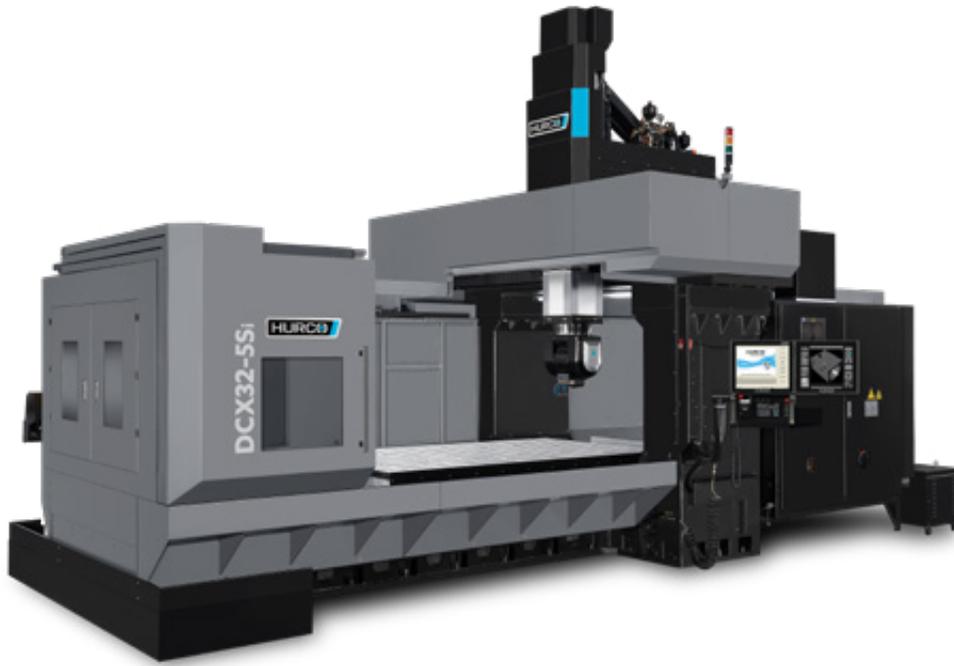
SPECIFICATIONS		BX40Ui	VM10Ui	VM10UHSi	VMX30Ui	VMX30DUi	VMX30UHSi	VMX42Ui
CAPACITY	TABLE SIZE	13.7 in / 348 mm diameter	7.8 in / 198 mm diameter	7.8 in / 198 mm	9.8 in / 248 mm	9.8 in / 248 mm	9.8 in / 248 mm	15.7 in / 399 mm
	MAXIMUM WEIGHT ON ROTARY / TRUNNION TABLE	551 lb / 250 kg	330 lb / 150 kg	330 lb / 150 kg	440 lb / 200 kg	440 lb / 200 kg	440 lb / 200 kg	550 lb / 250 kg
	SPINDLE NOSE TO TABLE MINIMUM / MAXIMUM	3.5 in (89 mm) / 25.7 in (653 mm)	1.4 in (36 mm) / 20.4 in (519 mm)	1.4 in (36 mm) / 20.4 in (519 mm)	3.5 in (90 mm) / 24 in (610 mm)	3.5 in (90 mm) / 25 in (635 mm)	3.5 in (90 mm) / 24 in (610 mm)	3.5 in (90 mm) / 24 in (610 mm)
	TABLE T-SLOTS	6 x 0.55 in / 6 x 14 mm	6 x .39 in / 6 x 10 mm	6 x .39 in / 6 x 10 mm	6 x .48 in x 60° / 6 x 12 mm x 60°	6 x .48 in x 60° / 6 x 12 mm x 60°	6 x .48 in x 60° / 6 x 12 mm x 60°	6 x .48 in x 60° / 6 x 12 mm x 60°
TRAVEL	X-AXIS	37.4 in / 950 mm	21 in / 533 mm	21 in / 533 mm	30 in / 762 mm	30 in / 762 mm	30 in / 762 mm	42 in / 1,067 mm
	Y-AXIS	21.6 in / 549 mm	16 in / 406 mm	16 in / 406 mm	20 in / 508 mm	20 in / 508 mm	20 in / 508 mm	24 in / 610 mm
	Z-AXIS	19.7 in / 500 mm	19 in / 483 mm	19 in / 483 mm	20.5 in / 520 mm	20.5 in / 520 mm	20.5 in / 520 mm	20.5 in / 520 mm
	A-AXIS	–	+30° / -110°	+30° / -110°	+30° / -110°	+30° / -110°	+30° / -110°	+30° / -110°
	B-AXIS	-30° / +110°	–	–	–	–	–	–
	C-AXIS	360°	360°	360°	360°	360°	360°	360°
SPINDLE	MAXIMUM SPINDLE SPEED / TOOL TYPE	20,000 rpm / HSK 63A	12,000 rpm / CAT 40 / BIG PLUS	20,000 rpm / BT30	12,000 rpm / CAT 40	15,000 rpm / CAT 40	20,000 rpm / HSK63	12,000 rpm / CAT 40
	SPINDLE POWER (PEAK - 1 MIN)	47 hp / 35 kW	15 hp / 11.2 kW @ 1,740 rpm	11.4 hp / 8.5 kW @ 14,700 rpm	18 hp / 13.4 kW @ 600 rpm	20 hp / 15 kW @ 15,000 rpm	47 hp / 35 kW @ 2,800 rpm	24 hp / 18 kW @ 720 rpm
	SPINDLE TORQUE (PEAK - 1 MIN)	88 ft. lbs / 119 Nm	45 ft. lbs / 61 Nm	4.4 ft. lbs (5.9 Nm)	158 ft. lbs / 214 Nm	70.4 ft. lbs / 95.5 Nm	88 ft. lbs / 119 Nm	175 ft. lbs / 237 Nm
ATC	TOOL CAPACITY	30	24	20	40	40	40	40
	MAXIMUM TOOL DIAMETER	3 in / 76 mm	3.1 in / 79 mm	3.15 in / 80 mm	3.0 in / 76 mm	3.0 in / 76 mm	3.0 in / 75mm	3 in / 76 mm
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	9.8 in / 250 mm	9.8 in / 250 mm	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	TOOL-TO-TOOL ATC TIME	1.5 sec	2.5 sec	2.5 sec	2 sec	2 sec	1.5 sec	2 sec
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg	11 lb / 5 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	XY= 1,417 in / 36 m Z= 1,417 in / 36 m	XY= 1,100 in / 28 m Z= 1,100 in / 28 m	XY= 1,100 in / 28 m Z= 1,100 in / 28 m	XY= 1,496 in / 38 m Z= 1,260 in / 32 m	XY= 1,496 in / 38 m Z= 1,496 in / 38 m	XY= 1,771 in / 45 m Z= 1,575 in / 40 m	XY= 1,378 in / 35 m Z= 1,181 in / 30 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,417 in / 36 m	1,100 in / 28 m	1,100 in / 28 m	1,260 in / 32 m	1,496 in / 38 m	1,575 in / 40 m	1,181 in / 30 m
	A-AXIS MAXIMUM RPM	–	25 rpm					
	B-AXIS MAXIMUM RPM	25 rpm	–	–	–	–	–	–
	C-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm	25 rpm	25 rpm	25 rpm	25 rpm
SIZE	POWER RATING / FULL LOAD KVA	51 KVA	14 KVA	15 KVA	26 KVA	28 KVA	48 KVA	32 KVA
	MACHINE WEIGHT	20,062 lb / 9,100 kg	7,392 lb / 3,360 kg	6,825 lb (3,102 kg)	11,640 lb / 5,280 kg	11,640 lb / 5,280 kg	11,640 lb / 5,280 kg	15,840 lb / 7,200 kg

# DCX Series

## Large Double Column - 5-Axis Mills

- » DCX32-5Si
- » DCX3226-5Si
- » DCX42HT-5Si

# 5-AXIS



## Double Column CNCs for the BIG STUFF.

We added the Hurco DCX Double Column 5-Axis machines to our product lineup for the same reason we added the DCX 3-Axis machines: customer requests.

Many customers who embraced the power of the Hurco control needed larger machines for aerospace and energy parts in addition to machine repair jobs. Since our 5-axis machines have such powerful 5-sided machining software features that increase productivity, they asked us to provide a 5-Axis option for our 2-meter, 3-meter, and 4-meter DCXi machines.

Standard & Optional Features can be found on Pages 46-49

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

### SERIES OVERVIEW

- » Swivel-head spindle design provides manufacturing flexibility.
- » Double Column design promotes thermal stability and superior dynamic behavior.
- » 5 second tool-to-tool ATC time.
- » Larger, telescoping, doors give you more room to load/unload and facilitate easy overhead crane access.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » 5-axis/5-sided software features – Tool Path Linearization, Tool Center Point Management, Transform Plane, 3D Tool Compensation, Tool Vector Input & Retract, Shortest Angular Traverse, 3D Import.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with two 19" LCD touch-screens.
- » WinMax<sup>®</sup> Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion<sup>®</sup>) is standard not an option.



Scan to learn more!

## SPECIFICATIONS

### DCX32-5Si

### DCX3226-5Si

### DCX42HT-5Si

		DCX32-5Si	DCX3226-5Si	DCX42HT-5Si
CAPACITY	TABLE SIZE	118.1 x 66.9 in / 3,000 x 1,700 mm diameter	118.1 x 82.7 in / 3,000 x 2,100 mm	157.5 x 82.7 in / 4,000 x 2,100 mm
	TABLE T-SLOTS	7 x 0.87 in / 7 x 22 mm	9 x 0.87 in / 9 x 22 mm	9 x 0.87 in / 9 x 22 mm
	MAXIMUM WEIGHT ON TABLE	24,250 lb / 11,000 kg	30,864.7 lb / 14,000 kg	35,274 lb / 16,000 kg
	SPINDLE NOSE TO TABLE	2.6 / 38 in / 66 / 960 mm	7.9 / 51.2 in / 201 / 1,301 mm	7.9 / 59.1 in / 201 / 1,501 mm
TRAVEL	X-AXIS	126 / 3,200 mm	126 in / 3,200 mm	165.4 in / 4,200 mm
	Y-AXIS	78.7 in / 1,999 mm	96.5 in / 2,450 mm	96.5 in / 2,450 mm
	Z-AXIS	35.4 in / 900 mm	43.3 in / 1,100 mm	51.1 in / 1,300 mm
SPINDLE	MAXIMUM SPINDLE SPEED	18,000 rpm	12,000 rpm	12,000 rpm
	SPINDLE POWER (PEAK - 1 MIN)	71 hp @ 2,000 rpm / 53 kW @ 2,000 rpm	71 hp @ 2,000 rpm / 53 kW @ 2,000 rpm	71 hp @ 2,000 rpm / 53 kW @ 2,000 rpm
	SPINDLE TORQUE (PEAK - 1 MIN)	69.3 ft. lbs / 94 Nm	186.6 ft. lbs / 253 Nm	186.6 ft. lbs / 253 Nm
	TOOL TYPE	HSK 63	HSK 100	HSK 100
ATC	TOOL CAPACITY	40	40	40
	MAXIMUM TOOL DIAMETER	3.0 in / 76 mm	4.9 in / 125 mm	4.9 in / 125 mm
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	33 lb / 15 kg	33 lb / 15 kg
	TOOL-TO-TOOL ATC TIME	5 sec	TBD	TBD
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	XY= 591 in / 15 m	XY= 591 in / 15 m	XY= 492 in / 12.5 m
		Z= 394 in / 10 m	Z= 394 in / 10 m	Z= 394 in / 10 m
	PROGRAMMABLE FEEDRATE / MINUTE	394 in / 10 m	394 in / 10 m	394 in / 10 m
SIZE	MAXIMUM OPERATING FLOOR SPACE	392.1 x 233.7 in / 9,960 x 5,935 mm	409 x 282 in / 10,382 x 7,165 mm	409 x 282 in / 10,382 x 7,165 mm
	MACHINE HEIGHT	199.6 in / 5,070 mm	247 in / 6,263 mm	TBD
	MACHINE WEIGHT	81,064 lb / 36,770 kg	TBD	TBD

# HM/HMBX Series

## Horizontal CNC Machines

- » HM1700Ri
- » HBMX80i
- » HBMX55i
- » HBMX120i

# HORIZONTALS

## Practical Horizontal with Contouring 4th Axis for Increased Productivity and Chip Control.

The large, front and side access doors of the HM1700Ri provide maximum efficiency and ergonomics for the operator. With a large work cube, a smart frame design, and our patented UltiMotion® technology, complex production parts can be CNC machined efficiently and accurately on the HM1700Ri.



### HM1700Ri OVERVIEW

- » Direct-Drive B-axis rotary torque table.
- » 8,000 rpm motorized, liquid-cooled, spindle.
- » 3.7 tool-to-tool ATC time.
- » Solid, cast-iron, frame.
- » Larger, heavy-duty, roller ways on X/Y/Z axes.
- » Best-In-Class Yaskawa Sigma V Drives
- » LED lighting shines brighter and saves energy.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with 19" LCD touch-screen.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard not an option.

### Boring Mills.

The Hurco HBMX horizontal boring machines have a 2-speed geared-head spindle, hardened box ways, and they are packaged to include features needed for typical boring mill applications—such as a contouring 4th axis rotary table (not just positional), a programmable W-axis quill that allows you to use shorter tools, linear glass scales to maintain thermal stability and increase accuracy, CTS, and a 60-tool ATC.



Standard & Optional Features can be found on Pages 46-49

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



Scan to learn more!

SPECIFICATIONS		HM1700Ri	HBMX55i	HBMX80i	HBMX120i
CAPACITY	TABLE SIZE	67 x 36 in / 1,702 x 914 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
	ROTARY TABLE DIAMETER	31.5 in / 800 mm	–	–	–
	TABLE T-SLOTS	5 (127 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
	MAXIMUM WEIGHT ON TABLE	4,410 lb / 2,000 kg	8,819 lb / 4,000 kg	13,889 lb / 6,299 kg	13,889 lb / 6,299 kg
	SPINDLE CENTER TO TABLE SURFACE	7.5 in (191 mm) / 54.7 in (1,389 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
TRAVEL	X-AXIS	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	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	43.3 in / 1,099 mm	66.9 in / 1,699 mm	66.9 in / 1,699 mm
	B-AXIS	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	8,000 rpm	8-454 rpm low gear / 8-2,500 rpm high gear	8-454 rpm low gear / 8-2,500 rpm high gear	8-454 rpm low gear / 8-2,500 rpm high gear
	SPINDLE POWER (PEAK – 1 MIN)	75 hp / 55.9 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 – 1 MIN)	328.3 ft. lbs / 445 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
	TOOL TYPE	CAT 50	CAT 50	CAT 50	CAT 50
ATC	TOOL CAPACITY	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 (4.7 in / 120 mm mm)
	MAXIMUM TOOL LENGTH	15.7 in / 399 mm	15.7 in / 398 mm	15.7 in / 398 mm	15.7 in / 398 mm
	MAXIMUM TOOL WEIGHT	44 lb / 20 kg	55.1 lb / 25 kg	55.1 lb / 25 kg	55.1 lb / 25 kg
	TOOL-TO-TOOL ATC TIME	3.7 sec	15 sec	15 sec	15 sec
FEEDRATE	RAPID TRAVERSE XYZ / W PER MINUTE	XZ = 1,181 in / 30 m Y = 787 in / 20 m	XYZ = 393.7 in / 10 m W = 157.5 in / 4 m	XYZ = 393.7 in (10 m) W = 157.5 in (4 m)	XYZ = 393.7 in (10 m) W = 157.5 in (4 m)
	PROGRAMMABLE FEEDRATE / MINUTE	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	1 rpm	1 rpm	1 rpm
	W-AXIS MAXIMUM RAPIDS	–	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	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	127 in / 3,226 mm	132.7 in / 3,370 mm	150 in (3,810 mm)	150 in (3,810 mm)
	MACHINE WEIGHT	44,517 lb / 20,235 kg	42,328 lb / 19,199 kg	48,501 lb (21,999 kg)	56,218 lb (25,500 kg)
	POWER RATING / FULL LOAD KVA	94 KVA	67 KVA	88 KVA	89 KVA

Note: \* With Ultimotion®

# TM Series

## General Purpose Lathes

» TM6i  
» TM8i

» TM10i  
» TM12i

# LATHES



### SERIES OVERVIEW

- » One-piece, solid, cast-iron, machine base.
- » True 30° slant-bed casting design promotes:
  - increased rigidity
  - larger turning capacity
  - efficient chip removal
- » Strategic spacing between linear guideways for increased rigidity promotes:
  - increased accuracy
  - improved surface finish
- » Bi-directional servo turret decreases tool index time.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with 19" LCD touch-screen.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Customer Favorite Lathe Control Features: Concurrent Programming, Recovery Restart, Estimated Run-Time, Advanced Verification Graphics.

## CNC Lathes for General Purpose Turning.

The small footprint, large work cube, chip management system, and affordable price tag of our slant-bed CNC lathes make small-batch manufacturing profitable. The true 30° slant-bed cast design promotes larger turning capacity and better chip removal. The extra wide linear guideways are strategically spaced to provide excellent support to the cross slide for increased accuracy and improved surface finish.

Standard & Optional Features can be found on Pages 46-49



Scan to learn more!

SPECIFICATIONS		TM6i	TM8i	TM10i	TM12i
CAPACITY	DISTANCE BETWEEN CENTERS	15.8 in / 403 mm	23.2 in / 589 mm	28.9 in / 735 mm	44.7 in / 1,135 mm
	SWING OVER BED DIAMETER	15.94 in / 405 mm	20.7 in / 526 mm	22.9 in / 582 mm	26.8 in / 680 mm
	SWING OVER CROSS SLIDE DIAMETER	9.45 in / 240 mm	11.8 in / 300 mm	15.8 in / 402 mm	20.1 in / 510 mm
	MAXIMUM TURNING DIAMETER	12.4 in / 316 mm	14 in / 356 mm	17.7 in / 450 mm	14.2 in / 361 mm
	MAXIMUM TURNING LENGTH	13.4 in / 340 mm	20.7 in / 526 mm	29.9 in / 760 mm	36.9 in / 937 mm
	MAXIMUM BAR CAPACITY	1.75 in / 44.45 mm	2.5 in / 63.5 mm	3 in / 76.2 mm	4 in / 101.6 mm
TRAVEL	X-AXIS	7 in / 178 mm	8 in / 203 mm	9.8 in / 250 mm	12 in / 305 mm
	Z-AXIS	14 in / 356 mm	21.7 in / 526 mm	31.1 in / 790 mm	40 in / 1,016 mm
MAIN SPINDLE	MAXIMUM SPEED HIGH GEAR	6,000 rpm	4,000 rpm	3,000 rpm	2,800 rpm
	MAXIMUM TORQUE HIGH GEAR	84 ft. lbs / 113 Nm	161.9 ft. lbs / 219 Nm	258 ft. lbs / 350 Nm	523 ft. lbs / 709 Nm
	SPINDLE POWER	17.5 hp / 13 kW @ 1,090 rpm	24 hp / 17.9 kW @ 1,000 rpm	29.5 hp / 22 kW @ 600 rpm	24 hp / 17.9 kW @ 870 rpm
	SPINDLE NOSE	A2-5	A2-6	A2-8	A2-11
	CHUCK DIAMETER	6 in / 152 mm	8 in / 203 mm	10 in / 254 mm	12 in / 305 mm
TURRET	TOOL TYPE	Slotted Disc	Slotted Disc	Slotted Disc	Slotted Disc
	TOOL CAPACITY	12 stations	12 stations	12 stations	12 stations
	TOOL SHANK	.75 x .75 in / 19 x 19 mm	1 x 1 in / 25 x 25 mm	1 x 1 in / 25 x 25 mm	1.26 x 1.26 in / 32 x 32 mm
	MAXIMUM BORING BAR DIAMETER	1.25 in / 32 mm	1.5 in / 40 mm	1.5 in / 40 mm	1.97 in / 50 mm
	TURRET INDEX TIME - ADJACENT	0.5 seconds	0.6 seconds	0.5 seconds	0.45 seconds
	TURRET INDEX TIME - FURTHEST	1.5 seconds	1.5 seconds	1.5 seconds	1.5 seconds
FEEDRATE	RAPID TRAVERSE X-AXIS	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	748 in / 19 m per min
	RAPID TRAVERSE Z-AXIS	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	945 in / 24 m per min
PARTS CATCHER	PART CATCHER DIMENSIONS	5.3 x 4.2 x 2.6 in / 135 x 106 x 65 mm	5.9 x 3.7 x 2.8 in / 150 x 95 x 70 mm	8.3 x 5 x 3.5 in / 210 x 127 x 88 mm	9.8 x 6.3 x 4.8 in / 250 x 160 x 123 mm
DIMENSIONS	MACHINE HEIGHT	84.4 in / 2,144 mm	86 in / 2,185 mm	89.3 in / 2,268 mm	88.1 in / 2,239 mm
	REQUIRED FLOOR SPACE (WIDTH X DEPTH)	147.1 x 99.4 in / 3,737 x 2,525 mm	169.1 x 107.4 in / 4,296 x 2,729 mm	191.2 x 112.4 in / 4,857 x 2,854 mm	190 x 132.5 in / 4,826 x 3,366 mm
	MACHINE WEIGHT	7,011 lb / 3,180 kg	8,885 lb / 4,030 kg	11,054 lb / 5,014 kg	16,758 lb / 7,601 kg

# TMM Series

## Live Tool CNC Lathes

- » TM8Mi
- » TM10Mi
- » TM12Mi

# LATHES



## General Purpose Lathes with Live Tooling & Programmable C-Axis.

The TMM turning centers are true slant-bed lathes equipped with live tooling and a programmable C-axis. The TMM live tooling lathes are the perfect way to make small to medium lot sizes that require turning and secondary milling/drilling operations profitable. Save time with one setup and you won't lose accuracy due to re-fixturing.

### SERIES OVERVIEW

- » All turret stations are live tooling stations.
- » Programmable C-Axis.
- » Standard tailstock mounted on heavy duty box ways with live center.
- » One-piece, solid, cast-iron, machine base.
- » True 30° slant-bed casting design promotes:
  - increased rigidity
  - larger turning capacity
  - efficient chip removal
- » Strategic spacing between linear guideways for increased rigidity promotes:
  - increased accuracy
  - improved surface finish
- » Bi-directional servo turret decreases tool index time.
- » Robust control specifications (standard not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with 19" LCD touch-screen.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Customer Favorite Lathe Control Features: Concurrent Programming, Recovery Restart, Estimated Run-Time, Advanced Verification Graphics.



Scan to learn more!

## SPECIFICATIONS

### TM8Mi

### TM10Mi

### TM12Mi

		TM8Mi	TM10Mi	TM12Mi
CAPACITY	DISTANCE BETWEEN CENTERS	23.15 in / 588 mm	27.4 in / 695 mm	44.7 in / 1,136 mm
	SWING OVER BED DIAMETER	20.7 in / 525 mm	22.9 in / 582 mm	26.8 in / 680 mm
	SWING OVER CROSS SLIDE DIAMETER	11.8 in / 300 mm	15.8 in / 402 mm	20.1 in / 510 mm
	MAXIMUM TURNING DIAMETER	10.1 in / 256 mm	11.6 in / 295 mm	14.2 in / 360 mm
	MAXIMUM TURNING LENGTH	17.9 in / 455 mm	27.6 in / 700 mm	36.9 in / 937 mm
	MAXIMUM BAR CAPACITY	2 in / 51 mm	3 in / 76.2 mm	4 in / 101.6 mm
TRAVEL	X-AXIS	7.8 in / 198 mm	9.8 in / 250 mm	12 in / 305 mm
	Z-AXIS	20 in / 508 mm	29.5 in / 750 mm	40 in / 1,016 mm
MAIN SPINDLE	MAXIMUM SPEED HIGH GEAR	4,000 rpm	3,000 rpm	2,800 rpm
	MAXIMUM TORQUE HIGH GEAR	194.5 ft. lbs / 264 Nm	383.5 ft. lbs / 520 Nm	523 ft. lbs @ 380 Rpm / 709 Nm @ 380 rpm
	SPINDLE POWER	30 hp / 22.3 kW @ 359 rpm	56.6 hp / 42.2 kW @ 360 rpm	24 hp / 18 kW
	SPINDLE NOSE	A2-6	A2-8	A2-11
	CHUCK DIAMETER	8 in / 203 mm	10 in / 254 mm	12 in / 305 mm
TURRET	TOOL TYPE	VDI 30	VDI 40	VDI 50
	TOOL CAPACITY	12 stations	12 stations	12 stations
	TOOL SHANK	.75 x .75 in / 19 x 19 mm	1 x 1 in / 25 x 25 mm	1.26 x 1.26 in / 32 x 32 mm
	MAXIMUM BORING BAR DIAMETER	1.25 in / 32 mm	1.5 in / 40 mm	Ø1.97 in / Ø50 mm
	TURRET INDEX TIME - ADJACENT	.23 seconds	.31 seconds	.45 seconds
	TURRET INDEX TIME - FURTHEST	.70 seconds	.82 seconds	1.5 seconds
LIVE SPINDLE	MAXIMUM SPEED	5,000 rpm	4,000 rpm	4,000 rpm
	MAXIMUM TORQUE	21 ft. lbs / 28.5 Nm	31 ft. lbs / 42 Nm	31 ft. lbs / 42 Nm
	SPINDLE POWER	6 hp / 4.4 kW @ 1,500 rpm	8.85 hp / 6.6 kW @ 1,500 rpm	8.85 hp / 6.6 kW @ 1,500 rpm
FEEDRATE	RAPID TRAVERSE X-AXIS	1,181 in / 30 m per min	1,181 in / 30 m per min	748 in / 19 m per min
	RAPID TRAVERSE Z-AXIS	1,181 in / 30 m per min	1,181 in / 30 m per min	945 in / 24 m per min
PARTS CATCHER	PART CATCHER DIMENSIONS	5.9 x 3.9 x 2.9 in / 150 x 99 x 73 mm	8.3 x 5 x 3.5 in / 210 x 126.7 x 88 mm	9.8 x 6.3 x 4.8 in / 250 x 160 x 123 mm
DIMENSIONS	MACHINE HEIGHT	83.7 in / 2,127 mm	85.4 in / 2,169 mm	88.1 in / 2,239 mm
	REQUIRED FLOOR SPACE (WIDTH X DEPTH)	188.4 x 111.3 in / 4,787 x 2,826.8 mm	201.6 x 125 in / 5,120.1 x 3,179.3 mm	233.9 x 132.5 in / 5,942 x 3,366.4 mm
	MACHINE WEIGHT	8,819 lb / 4,000 kg	11,023 lb / 5,000 kg	16,758 lb / 7,600 kg

# TMX/MY/MYS Series

## CNC Performance Lathes

» TMX8i  
» TMX10i  
» TMX8MYi

» TMX10MYi  
» TMX8MYSi  
» TMX10MYSi

# LATHES



## CNC Lathes for Performance Turning TMX

The TMX CNC Lathes are true slant-bed lathes with all-digital drives and motors on all linear axes. With increased travels, more horsepower and torque, increased rigidity, faster rapids, faster acceleration/deceleration rates, and a programmable tailstock, the TMX CNC turning centers are built for rigorous cycles.

## Performance Lathes with Y-Axis or Y-Axis and Sub-Spindle

The TMXMY/S mill turn CNC lathes are true slant-bed lathes with all-digital drives and motors and absolute encoders on all linear axes. The addition of the Y-axis allows you to machine a pocket with straight walls and flat bottoms or perform off-center machining operations with just a click of a box.



## TMX SERIES OVERVIEW

- » Roller guideways on all axes:
  - less friction at higher speeds
  - easier and less expensive to replace than boxways
- » More Y-axis travel than competitive models (4.4 inches).
- » Large ballscrews minimize friction.
- » Strategic spacing between roller guideways for increased rigidity promotes:
  - increased accuracy
  - improved surface finish
- » Bi-directional servo turret decreases tool index time.
- » Fully programmable tailstock mounted on heavy-duty linear rails with live center - servo driven.
- » Spindle chiller standard (not an option).
- » Chip conveyor standard (not an option).
- » LCD remote jog standard (not an option).
- » Oil skimmer standard (not an option).
- » True 30-degree slant-bed casting design promotes:
  - increased rigidity
  - larger turning capacity
  - efficient chip removal
- » Robust control specifications (standard not an option) - 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically designed control console with 19" LCD touch-screen.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Customer Favorite Lathe Control Features: Concurrent Programming, Recovery Restart, Estimated Run-Time, Advanced Verification Graphics.

\*Y-Axis not applicable to TMX8i and TMX10i



Scan to learn more!

Standard & Optional Features can be found on Pages 46-49

SPECIFICATIONS		TMX8i	TMX10i	TMX8MYi	TMX10MYi	TMX8MYSi	TMX10MYSi
CAPACITY	DISTANCE BETWEEN CENTERS	29.7 in / 754 mm	33.6 in / 854 mm	29.7 in / 754 mm	33.6 in / 854 mm	28.5 in / 724.5 mm	32.5 in / 825.5 mm
	SWING OVER BED DIAMETER	25.2 in / 640 mm	25.2 in / 640 mm	20 in / 508 mm	22 in / 560 mm	20 in / 508 mm	22 in / 560 mm
	SWING OVER CROSS SLIDE DIAMETER	16.34 in / 415 mm	16.3 in / 415 mm	20 in / 508 mm	22 in / 560 mm	20 in / 508 mm	22 in / 560 mm
	MAXIMUM TURNING DIAMETER	14 in / 355 mm	16.3 in / 415 mm	10.9 in / 336 mm	12.4 in / 315 mm	10.9 in / 277 mm	12.4 in / 315 mm
	MAXIMUM TURNING LENGTH	21.1 in / 535 mm	25 in / 635 mm	20.7 in / 527 mm	24.7 in / 627 mm	20.7 in / 527 mm	24.7 in / 627 mm
	MAXIMUM BAR CAPACITY	2.5 in / 63.5 mm	3 in / 76.2 mm	2.5 in / 63.5 mm	3 in / 76.2 mm	2.6 in / 65 mm	3 in / 76.2 mm
TRAVEL	X-AXIS	8 in / 203 mm	9.15 in / 232.5 mm	8 in / 203 mm	8.76 in / 222.5 mm	11.4 in / 285 mm	8.76 in / 222.5 mm
	Z-AXIS	22 in / 560 mm	26 in / 660 mm	22 in / 560 mm	26.38 in / 670 mm	22 in / 560 mm	26.38 in / 670 mm
	Y-AXIS	–	–	4.4 in / 110 mm			
	W-AXIS	25.2 in / 640 mm	29.1 in / 740 mm	25.2 in / 640 mm	29.1 in / 740 mm	25.2 in / 640 mm	29.1 in / 740 mm
MAIN SPINDLE	MAXIMUM SPEED HIGH GEAR	4,500 rpm	3,500 rpm	4,500 rpm	3,500 rpm	4,500 rpm	3,500 rpm
	MAXIMUM TORQUE HIGH GEAR	–	–	176.3 ft. lbs / 239 Nm	197.2 ft. lbs / 267.4 Nm	176.3 ft. lbs / 239 Nm	197.2 ft. lbs / 267.4 Nm
	SPINDLE POWER	–	258.2 ft. lbs / 350 Nm	33.5 hp / 25 kW @ 1,000 rpm	37.6 hp / 28 kW @ 1,000 rpm	33.5 hp / 25 kW @ 1,000 rpm	37.6 hp / 28 kW @ 1,000 rpm
	SPINDLE NOSE	A2-6	A2-8	A2-6	A2-8	A2-6	A2-8
	CHUCK DIAMETER	8 in / 203 mm	10 in / 254 mm	8 in / 203 mm	10 in / 254 mm	8 in / 203 mm	10 in / 254 mm
TURRET	TOOL TYPE	Slotted Disc	Slotted Disc	BMT65 / DIN 1809			
	TOOL CAPACITY	12 stations	12 stations	12 stations	12 stations	12 stations	12 stations
	TOOL SHANK	1 x 1 in / 25 x 25 mm	1 x 1 in / 25 x 25 mm	1 x 1 in / 25 x 25 mm	1 x 1 in / 25 x 25 mm	1 x 1 in / 25 x 25 mm	1 x 1 in / 25 x 25 mm
	MAXIMUM BORING BAR DIAMETER	1.5 in / 40 mm	1.5 in / 40 mm	1.5 in / 40 mm	1.5 in / 40 mm	1.5 in / 40 mm	1.5 in / 40 mm
	TURRET INDEX TIME - ADJACENT	.20 seconds	.12 seconds	.31 seconds	.31 seconds	1.3 seconds	.31 seconds
	TURRET INDEX TIME - FURTHEST	.70 seconds	.72 seconds	.78 seconds	.31 seconds	1.7 seconds	.78 seconds
SUB SPINDLE	MAXIMUM SPEED	–	–	–	–	6,000 rpm	6,000 rpm
	MAXIMUM TORQUE	–	–	–	–	75.4 ft. lbs / 102.2 Nm	75.4 ft. lbs / 102.2 Nm
	SPINDLE POWER	–	–	–	–	20.1 hp / 15 kW @ 1,390 rpm	20.1 hp / 15 kW @ 1,390 rpm
LIVE SPINDLE	MAXIMUM SPEED	–	–	4,000 rpm	4,000 rpm	4,000 rpm	4,000 rpm
	MAXIMUM TORQUE	–	–	20.4 ft. lbs / 27.6 Nm			
	SPINDLE POWER	–	–	8.5 hp / 6.4 kW @ 2,190 rpm	8.5 hp / 6.4 kW @ 2,190 rpm	8.5 hp / 6.4 kW @ 2,190 rpm	8.5 hp / 6.4 kW @ 2,190 rpm
FEEDRATE	RAPID TRAVERSE X-AXIS	1,181 in / 30 m per min	945 in / 24 m per min	945 in / 24 m per min	945 in / 24 m per min	945 in / 24 m per min	945 in / 24 m per min
	RAPID TRAVERSE Z-AXIS	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min
	RAPID TRAVERSE Y-AXIS	–	–	472 in / 12 m per min			
	RAPID TRAVERSE W-AXIS	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min
PARTS CATCHER	PART CATCHER DIMENSIONS	5.7 x 3.8 x 3.2 in / 146 x 96 x 80 mm	5.7 x 3.8 x 3.2 in / 146 x 96 x 80 mm	5.7 x 3.8 x 3.2 in / 146 x 96 x 80 mm	5.7 x 3.8 x 3.2 in / 146 x 96 x 80 mm	5.7 x 3.8 x 3.2 in / 146 x 96 x 80 mm	5.7 x 3.8 x 3.2 in / 146 x 96 x 80 mm
DIMENSIONS	MACHINE HEIGHT	86.1 in / 2,187 mm	86.1 in / 2,187 mm	100.5 in / 2,552 mm	101.5 in / 2,577 mm	100.5 in / 2,552 mm	101.5 in / 2,577 mm
	REQUIRED FLOOR SPACE (WIDTH X DEPTH)	206.9 x 124.4 in / 5,255.5 x 3,160.4 mm	206.9 x 124.3 in / 5,255.5 x 3,157.4 mm	209.9 x 132.5 in / 5,532 x 3,365 mm	209.9 x 132.5 in / 5,532 x 3,365 mm	209.9 x 137.2 in / 5,532 x 3,485 mm	209.9 x 137.2 in / 5,532 x 3,485 mm
	MACHINE WEIGHT	15,432 lb / 7,000 kg	13,420 lb / 6,100 kg	16,500 lb / 7,500 kg	16,976 lb / 7,700 kg	16,500 lbs / 7,500 kg	16,976 lb / 7,700 kg

# HURCO CNC Max5 + WinMax®

## MAX5 Console + WinMax® Control Software



### 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

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. As the inventor of conversational programming, Hurco Conversational is the gold standard in the industry, and NC Programming includes many high-end features.

# WINMAX<sup>®</sup> CONTROL

## CONVERSATIONAL PROGRAMMING

### CONVERSATIONAL PROGRAMMING

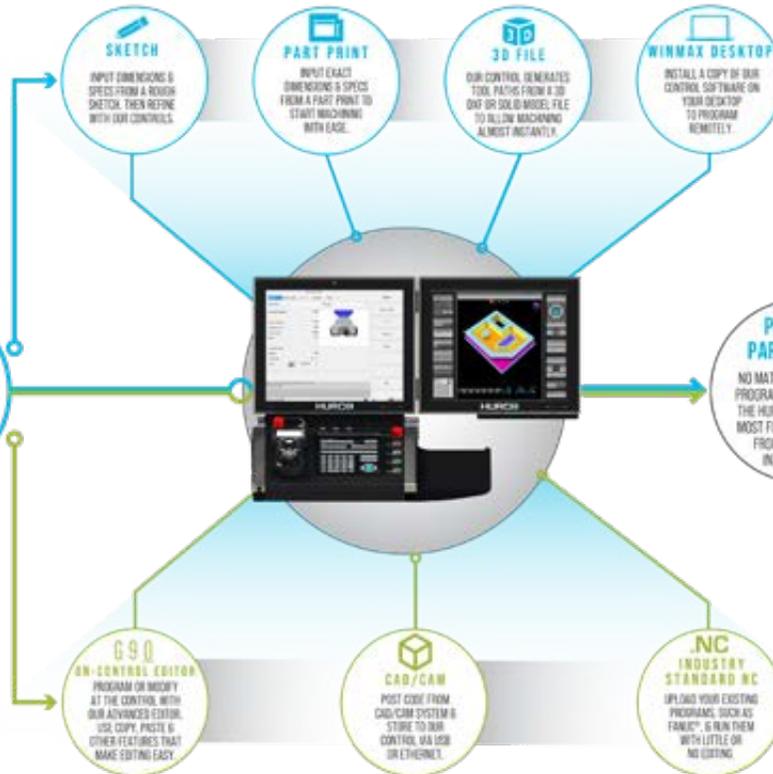
HURCO'S WINMAX<sup>®</sup> CONVERSATIONAL PROGRAMMING METHOD GETS YOU FROM PRINT TO PART QUICKLY BY STEPPING YOU THROUGH THE PROCESS VISUALLY. IT'S AS EASY AS 1-2-3. SETUP. PROGRAM. VERIFY.



**NC CONVERSATIONAL MERGE**  
THE CONTROL ALLOWS YOU TO COMBINE THE BEST OF BOTH CONVERSATIONAL & NC INTO ONE PROGRAM FOR MAXIMUM EFFICIENCY.

### NC/G-CODE PROGRAMMING

HURCO'S WINMAX<sup>®</sup> CONTROL SOFTWARE HAS AN ENHANCED NC INTERPRETER WHICH INCREASES CAD/CAM COMPATIBILITY. GRAPHICALLY VERIFY PROGRAMS ON THE CONTROL & EASILY SEE WHICH CODES ARE BEING PROCESSED.



## NC/G-CODE PROGRAMMING

# HURCO<sup>®</sup>

mind over metal<sup>®</sup>



HURCO MACHINED PARTS

mind over metal<sup>®</sup>  
YOUR EXPERTISE COMBINED WITH OUR CONTROL TO PRODUCE QUALITY PARTS.

*Our control. Your expertise. That's mind over metal.<sup>®</sup> That's HURCO!*

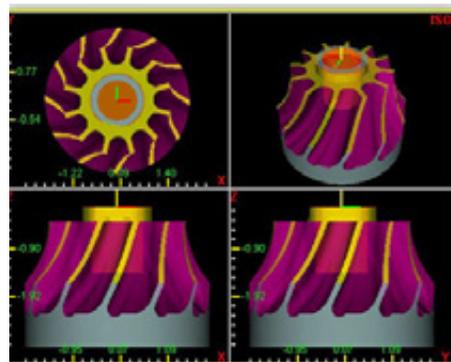
**Conversational** programming simplifies complex operations. Intuitive, user-friendly interface. Easy to learn. Easy to use.

**NC/G-Code Programming** means you don't have to change a thing. Our control can do everything you're doing now with the processing speed and memory you need.

**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



The Hurco control powered by WinMax® software has hundreds of features, but the following pages are dedicated to the features that consistently elicit compliments from customers. Scan the QR code to download the interactive pdf that has more details and/or visit [Hurco.com/WinMax](http://Hurco.com/WinMax).



### Advanced Verification Graphics with Solid 3D Rendering

Graphics feature with solid rendering of the tool path, including dynamic rotation, tool cut simulation, dynamic view manipulation, and more!

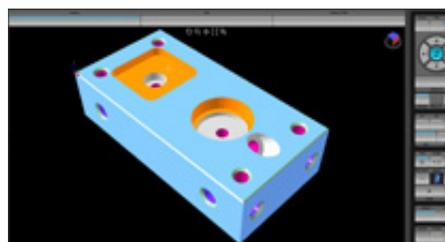


### Auto Interrupt

No need to teach the control the path the tool takes when retracting and returning to the part. Auto Interrupt does it for you.

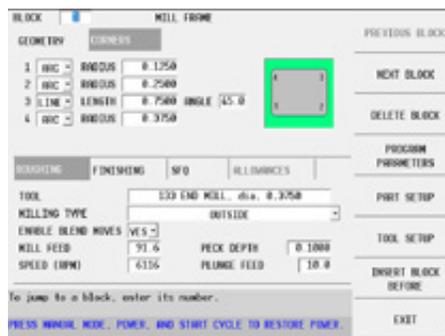
### Data Block Search

Quickly access data block in the program by touching the corresponding feature on the graphics screen.



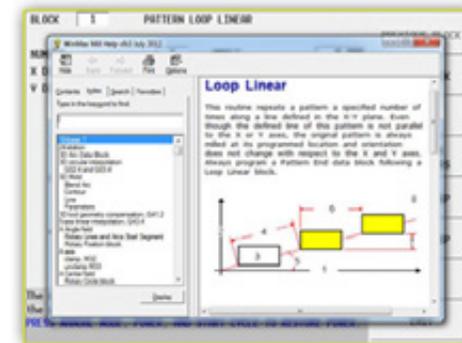
### Enhanced Corner Geometry

Fast way to program chamfers or unique corners with different radii.



### Estimated Run Time

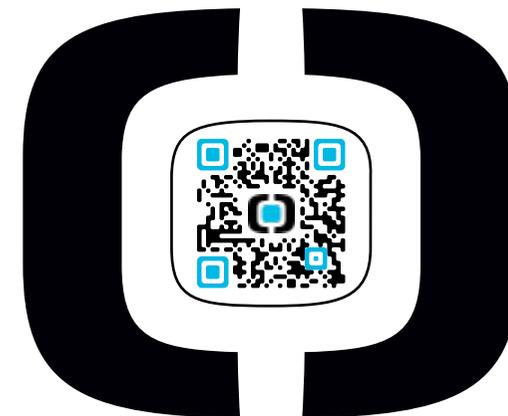
Provides more accurate computation of run time than estimations from a CAM system because our computation takes into account algorithms from the machine's motion control system.



### Interactive Help System

No searching needed. Our help system takes you the associated section in the system based on where you are in the control.

*Customer Favorites continued on page 37.*



Scan the QR code to download our Control Features packet!

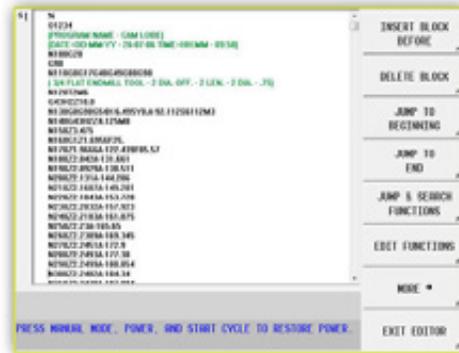


### CUSTOMER FAVORITES (Continued)



#### Inch/Metric toggle

Quickly switch back and forth between inch and metric during programming or machining with ease.



#### NC/Conversational Merge

Allows you to apply conversational features, such as pattern operations, scaling, tool probing, part probing, and unlimited work offsets to NC programs. Patterns include loop rotate, loop translate, loop linear, loop angular, pattern locations, scale, and mirror image.

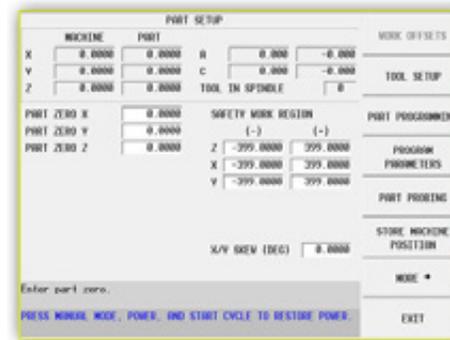
#### NC Block Lookahead

The NC Block Lookahead feature evaluates the geometry and motion profile to make sure there is enough information to make optimized maneuvers.

Part and Tool Probing -  
Go to page 38.

3D Import with 3D DXF -  
Go to page 39.

Automation Job Manager -  
Go to page 40.



#### NC Work Offsets

Don't be limited by the standard six offsets. We include 93 auxiliary offsets.

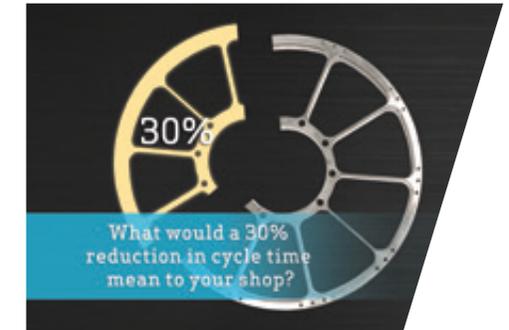


#### Relative Position DRO (Digital Readout)

The Relative Position DRO gives you the power and flexibility to quickly display the data that is relevant at the particular time.

#### Roughing Stock Allowance

The "Allowances" tab lets you leave a specific amount of material for finishing operations (no need to alter the tool diameter or the geometry data of the feature).



#### UltiMotion®

The "Allowances" tab lets you leave a specific amount of material for finishing operations (no need to alter the tool diameter or the geometry data of the feature).

#### WinMax® Desktop Complete

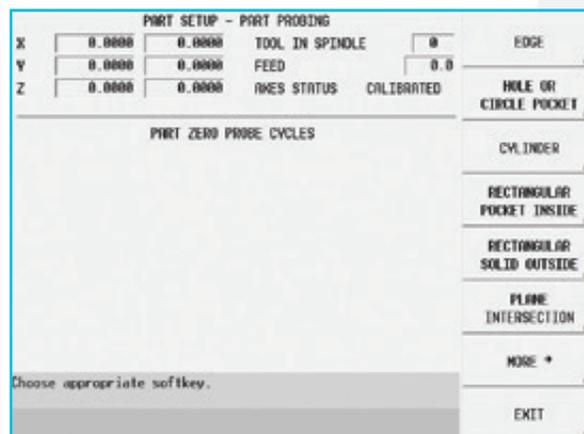
Use Hurco's WinMax® software on your desktop! Programs can be quickly transferred to your CNC machine.





*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?*

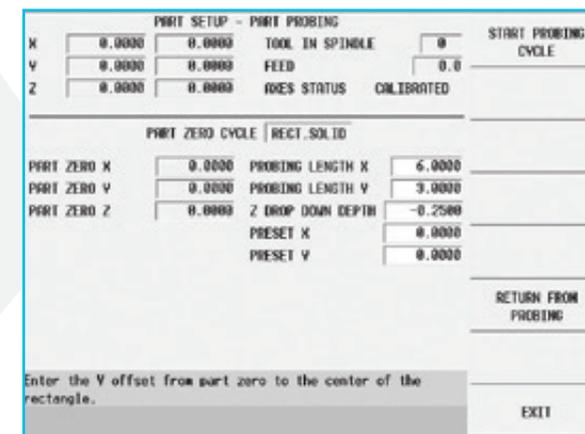
```
N300
M1(TEST 3-CALIBRATE "Z" AXIS-UPDATE-)
(PROBE TOOL OFFSET NUMBER)
(PROTECTED POSITION OVER Z SURFACE)
(MEASURE TOP SURFACE-Z DATUM)
(Protected Positioning Move)
G65 P9810 X1.49Y-4.1F100
G65 P9811 Z-.167 W1
#100=#137
G90G31Z1.
N400
M1(TEST 4-MEASURE CENTER OF RECT POCKET)
(STORED IN WORK OFFSET 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.

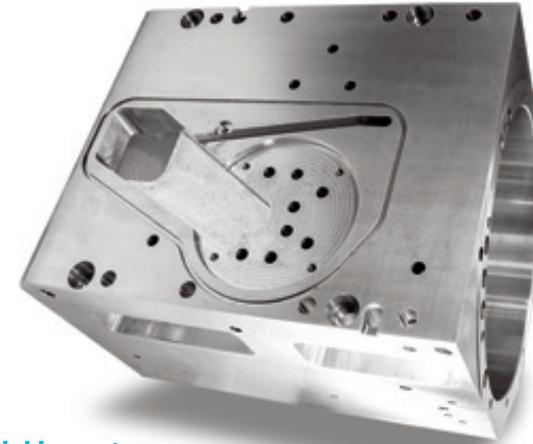
### ***Machinist's Favorite: Hurco Skew Probe Cycles***

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.



**USE 3D  
SOLID MODEL  
IMPORT  
TO IMPORT STEP FILES  
WITH EASE!**

3D Import includes two control features: Solid Model Import and 3D DXF. With Solid Model Import, you can take a customer's 3D Solid model (.stp file) and import it into the control. Solid Model Import is extremely powerful because it automatically creates the conversational data blocks directly from the selections that are made on the solid model or DXF file, and no data entry is required.



#### Solid Model Import:

- Simplifies programming.
- Saves time.
- Preserves Accuracy.

***Go from solid to finished part in record time.***

***Eliminate extra steps.***

***No need to enter feature dimensions: simply click and cut***

#### 3D DXF Technology:

3D DXF displays all geometry the CAD system outputs, including splines. For example, simply select the bottom of a contour, and the cutting geometry and Z-axis depths will be added automatically into the conversational block.



*Scan to learn more!*

### HIGH-MIX/LOW-VOLUME AFFORDABLE AUTOMATION

For high-mix manufacturing, Hurco has eliminated the complexity and hassle often associated with traditional automation. Hurco's Practical Job Shop Automation is easy to set up and easy to program because you program the robot on your Hurco control. Check out the video to see how ProCobots collaborative robots combined with Hurco's control integration helped Oakridge Fabrication harness the power of automated CNC machine tending to increase throughput, machine utilization...and profitability!



*Scan the QR code to watch the Oakridge Fabrication video!*

### HURCO AUTOMATION JOB MANAGER SOFTWARE



#### No Robot Programming! Complete Automation INTEGRATION with the Hurco Control.

- Software runs right on the Hurco control.
- Intuitive graphical touch-screen interface.
- Part changeover is less than 5 minutes.
- Automatic calibration to the CNC machine makes it easy to move the system to any of your Hurco machines.
- Queue and run multiple jobs.
- Save and load jobs quickly.
- Part stacking.
- Bin drop-off.

# WINMAX<sup>®</sup> SOFTWARE/FEATURES

## CUSTOMER FAVORITES

- AdaptiPath™
- Dynamic Variable Look Ahead capable of up to 10,000 blocks (with UltiMotion®)
- Advanced Verification Graphics with Data Block Search
- Estimated Run Time
- Inch/Metric Toggle
- UltiMotion®
- Mill Frame with Enhanced Corner Geometry
- NC Work Offsets with Conversational Programming
- Relative Position DRO
- Roughing Stock Allowance
- WinMax® Desktop Complete



## Programming

- » 3D Import
- » 3D DXF
- » DXF Scaling
- » 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 (NCPPI)
- » 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

## Verification

- » 3D Solid Rendering
- » Automatic Error Check
- » 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
- » Fast Draw Graphics Engine
- » Font Magnification
- » Job List
- » Multiple Options to Store Tool
- » Probing Results
- » Stick Lettering
- » Tool Life Management
- » TrueType® Fonts Along a Contour
- » User Assigned Tool Pockets
- » Auto Interrupt Cycle
- » Automatic Tool Home
- » Control and Machine Diagnostics
- » Coolant Select (Dual)
- » Distance To Go
- » Feed Hold Button
- » Feedrate Override
- » Spindle Load Monitor
- » UltiMonitor®

## 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

## 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)



Scan the QR code to  
download our  
Control Features  
packet!

Since the Hurco control is what helps our customers be more productive and more profitable, we sometimes take "the iron" for granted and don't take credit for the design details and manufacturing processes that make the Hurco VMXi CNC machines rigid, robust, and reliable machines that last!



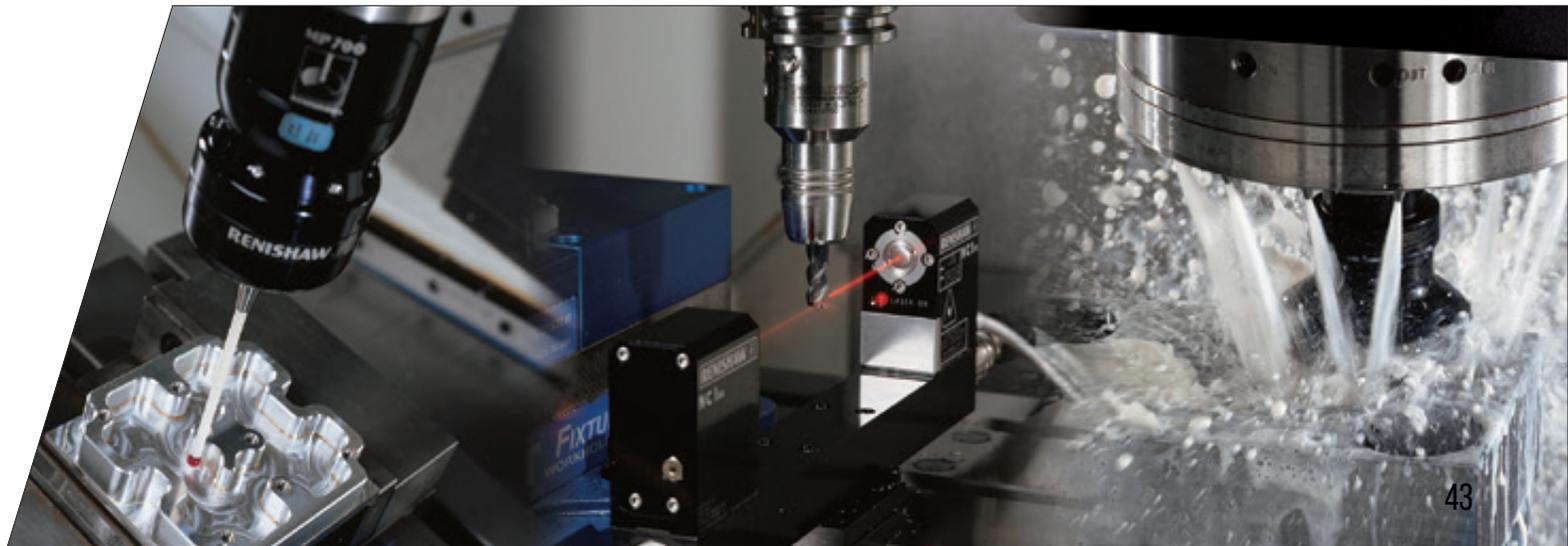
### Highlights of Hurco VMX Construction

- ✓ We hand-scrape the casting mating surfaces
- ✓ We optimize the spacing of the Y-axis linear rails to support the saddle
- ✓ We use roller linear ways (not ball roller ways) on all three axes
- ✓ We use direct-coupled axis motors that are attached directly to the end of the ballscrew (no belts or pulleys)
- ✓ We don't just bolt down the roller linear ways—we anchor them against a ground surface and then wedge-lock them
- ✓ We use BIG-Plus® dual contact spindles
- ✓ We make our tables wider than the X-axis travel
- ✓ We offer both belt spindles and direct-drive spindles



Scan to Watch Video

- » **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 38 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 39 for more information).



Hurco offers a variety of optional accessories for our turning centers.



» **Parts Catcher:** Air operated swing plate type parts catcher. Parts are transferred to an enclosed bin mounted outside the sliding access door. The kit includes an air pressure regulator, dryer, and lubricator.

» **Bar Feeder Interface:** Hurco's bar feeder interface allows the end-user to integrate a third party bar feeder to Hurco's turning centers.

» **Renishaw Tool Presetter:** This Tool Touch Probing package is a compact and robust tool setting probe, which utilizes a stylus touch application for accurate measurement of tool offset position and radius. Software for probe is for initial tool set only and will not support automatic in-process gauging.

» **Chip Management:** The optional chip conveyor (standard on our TMX lathes) can drastically reduce chip cleanup time and improve house-keeping. It increases productivity by keeping the spindle

cutting, while chips are carried out of the machine with a barrel height chip conveyor. Easy front access is provided.

» **Trusty-Cook Spindle Liners:** Running 1" stock in a 3.0" spindle is like an Indy Car racing with 3 wheels – slow and expensive. A set of Trusty-Cook spindle liners is the performance upgrade that will have you making chips with speed and precision on any Hurco lathe the minute you install.



# ACCESSORIES

» Rotary tables to expand your capabilities.

Hurco rotary tables include generous thru holes and the ability to be horizontally or vertically mounted. Cross roller bearings allow compact design. Manual tailstocks, rotary tail supports and 3-jaw chucks are also available.

MODEL	H160	H200	H250	H320	H400	H500	H630
<b>A</b> Table Diameter (mm)	165	200	250	320	400	500	630
<b>B</b> Center Height, Vertical (mm)	140	140	180	210	250	310	400
<b>C</b> Table Height, Horizontal (mm)	185	185	220	220	250	290	320
<b>D</b> Table Height, Vertical (mm)	255	255	330	370	460	570	725
<b>E</b> Thru Hole Diameter (mm)	39.7 +/- 0.2	39.7 +/- 0.2	70 <sup>H8</sup>	70 <sup>H8</sup>	150 <sup>H7</sup>	180 <sup>H7</sup>	254 <sup>H7</sup>
<b>F</b> Width of T-Slot (mm)	12 <sup>H7</sup>	12 <sup>H7</sup>	12 <sup>H7</sup>	14 <sup>H7</sup>	14 <sup>H7</sup>	18 <sup>H7</sup>	18 <sup>H7</sup>
<b>G</b> Width of Bottom Slot (mm)	18 <sup>H7</sup>	18 <sup>H7</sup>	30				
AC Servo Motor	SGMGH 09ACA6S	SGMGH 09ACA6S	SGMGH 09ACA6S	SGMGH 09ACA6S	SGMGV 20ADL6S	SGMGV 20ADL6S	SGMGV 20ADL6S
Gear Ratio	1/90	1/90	1/90	1/90	1/90	1/120	1/180
Maximum RPM	33.3	33.3	33.3	33.3	22.2	16.7	11.1
Minimum Resolution (Degrees)	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Indexing Accuracy (arc-sec)	25	25	15	15	15	15	15
Repeatability	+/- 2	+/- 2	+/- 2	+/- 2	+/- 4	+/- 4	+/- 4
Clamping Force* (kg-m / ft-lbs) * Air Pressure 5 kg/cm <sup>2</sup>	25.5/184.4	25.5/184.4	45.7/330.5	45.7/330.5	92/665	125/903	2,531/1,867
Permissible Load - Horizontal (kg)	160	160	300	300	500	600	800
Permissible Load - Vertical (kg)	80	80	125	125	300	350	400
Maximum Work Inertia (kg-cm-sec <sup>2</sup> )	5.56	8.2	17.8	44.6	102	191	405
Weight (kg/lbs)	75/165	78/172	96/211	124/273	280/617	380/837	860/1,896

MODEL	H160	H200	H250	H320	H400	H500	H630
VM10i	*	*	—	—	—	—	—
VM15i	*	*	—	—	—	—	—
VM20i	*	*	*	—	—	—	—
VM30i	*	*	*	—	—	—	—
VMX24i	*	*	*	—	—	—	—
VMX30i	*	*	*	—	—	—	—
VMX42i	*	*	*	*	—	—	—
VMX50i	—	*	*	*	*	—	—
VMX6030i	—	*	*	*	*	—	—
VMX64i	—	*	*	*	*	*	*
VMX84i	—	*	*	*	*	*	*
DCXi	—	—	*	*	*	*	*

## ROTARY ACCESSORIES



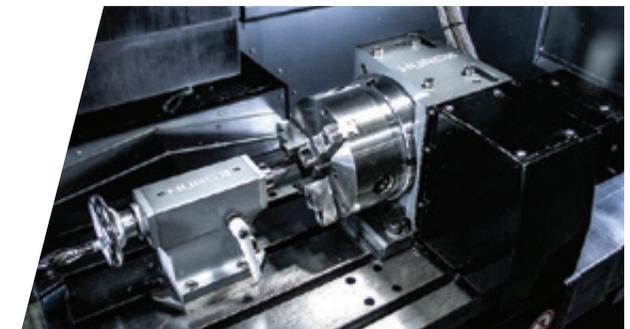
Power Tail Supports



Tail Stocks



3-Jaw Scroll Chucks



STANDARD & OPTIONAL ITEMS	VM ONE	VM10i	VM10HSi	VM150i	VM20i	VM30i	VMX24i	VMX240i	VMX30i	VMX300i	VMX42i	VMX420i	VMX50i	VMX50i-50T	VMX6030i	VMX60300i	VMX6030i-50T	VMX64i	VMX64i-50T	VMX84i	VMX84i-50T	BK40i	BK50i	BK60i	DCX32i	DCX3226i	DCX42i
AC SPINDLE MOTOR	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	-	-	-	-	-	-
HS, LIQUID COOLED INTEGRAL SPINDLE	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	S	S
ADVANCED MOTION CONTROL WITH AC BRUSHLESS SERVOS	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
DIRECT DRIVE Z-AXIS (NO MECHANICAL COUNTERBALANCE)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	-	-	-
SPINDLE THERMAL CHILLER	S	S	S	S	S	S	O	S	O	S	O	S	O	O	O	O	O	O	O	O	O	S	S	S	S	S	S
HIGH-TORQUE PACKAGE	-	-	-	-	-	-	-	O	-	O	O	-	O	O	O	O	O	O	O	O	O	O	-	-	-	-	-
LCD REMOTE JOG*	O	O	O	O	O	O	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
FINE GRAIN, ALL CAST FRAME DESIGNED WITH FEA	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
ULTIMOTION®	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
LINEAR GLASS SCALES X, Y, Z	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	S	S	S	O	O	O
AUTOMATIC CENTRAL LUBRICATION SYSTEM	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
ANSI DOOR INTERLOCK (B11.23)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
3 STACK WORK END SIGNAL LIGHT	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
AUTOMATIC SWING-ARM TOOL CHANGER	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
40 STATION TOOL CHANGER	-	-	-	-	-	-	-	-	S	S	S	S	S	-	S	S	-	O	-	S	-	-	-	-	S	S	S
EXPANDED 96 STATION TOOL CHANGER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	O	-	-	-	-	-	-	-
CHIP AUGER	O	O	O	O	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIFT-UP CHIP CONVEYOR	O	O	O	O	O	O	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
ENCLOSURE WASH DOWN SYSTEM	-	-	-	-	-	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
COOLANT GUN & AIR GUN	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
FLOOD COOLANT SYSTEM	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SPINDLE COOLANT RING	O	O	-	O	O	O	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
PROGRAMMABLE AIR BLOW	-	-	-	-	-	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
COOLANT THRU SPINDLE /300 PSI	-	O	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	S	O	S	O	S	S	S	S	O	O
OVERSIZED HINGED SIDE ACCESS DOOR(S)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
LED WORK LIGHT(S)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
POWER CABINET HEAT EXCHANGER	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
RENISHAW PART PROBING	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
RENISHAW TOOL PROBING	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
4 <sup>th</sup> /5 <sup>th</sup> AXIS ROTARY TABLES	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	-	O

STANDARD & OPTIONAL ITEMS	BK40U	VM10U	VM10UHS	VMX30U	VMX30DU	VMX30UHS	VMX42U	VMX42SRT	VMX42SWI	VMX42SRTI	VMX60SRT	VMX60SWI	VMX84SWI	VC5001	VC6001	DCX32-5S1	DCX326-5S1	DCX42H1-5S1
AC SPINDLE MOTOR	—	S	—	—	—	S	—	S	S	S	S	S	S	S	S	—	—	—
DUAL WOUND AC SPINDLE MOTOR	—	—	—	S	S	—	S	—	—	—	—	—	—	—	—	—	—	—
HIGH SPEED, LIQUID-COOLED INTEGRAL SPINDLE	S	—	S	—	—	S	—	S	S	S	S	S	S	—	—	S	S	S
HIGH-TORQUE PACKAGE	—	—	—	O	—	—	O	—	—	—	—	—	—	—	—	—	—	—
ADVANCED MOTION CONTROL WITH AC BRUSHLESS SERVOS	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
DIRECT DRIVE Z-AXIS (NO COUNTERBALANCE)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SPINDLE THERMAL CHILLER	S	S	S	O	S	S	O	S	S	S	S	S	S	S	S	S	S	S
LCD REMOTE JOG*	S	O	O	S	S	S	S	S	S	S	S	S	S	O	S	S	S	S
FINE GRAIN, ALL CAST FRAME DESIGNED WITH FEA	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
HEAVY DUTY LINEAR RAILS WITH ROLLER BEARINGS	S	—	—	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
DOUBLE-NUT BALL SCREWS	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
PRETENSIONED BALL SCREWS	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
LINEAR GLASS SCALES X, Y, AND Z AXIS	S	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
INTEGRATED TRUNNION TABLE	S	S	S	S	S	S	S	—	—	—	—	—	—	S	S	—	—	—
ROTARY TABLE (A-AXIS)	—	—	—	—	—	—	—	—	O	—	—	O	O	—	—	—	—	—
HIGHER RESOLUTION ENCODERS (A/C OR B/C AXIS)	O	O	O	O	O	O	O	—	—	—	—	—	—	—	—	—	—	—
ROTARY UNION KIT (ROTARY TABLE PASS THRU)	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
AUTOMATIC CENTRAL LUBRICATION SYSTEM	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
WAY LUBE SEPARATION SYSTEM	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
ANSI DOOR INTERLOCK (B11.23)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
WORK END SIGNAL LIGHT	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
AUTOMATIC SWING-ARM TOOL CHANGER	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
OPTIONAL CAPACITY TOOL CHANGER	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CHIP AUGER	—	S	S	—	—	—	—	—	—	—	—	—	—	S	—	—	—	—
LIFT-UP CHIP CONVEYOR	S	O	O	S	S	S	S	S	S	S	S	S	S	S	O	O	S	S
ENCLOSURE WASHDOWN SYSTEM	S	—	—	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
FLOOD COOLANT, SPRAY & AIR GUNS	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
COOLANT RING/POSITIONAL NOZZLES	S	—	—	S	S	S	S	S	S	S	S	S	S	S	S	—	—	—
PROGRAMMABLE AIR BLOW	S	—	—	S	S	S	S	S	S	S	S	S	S	O	O	—	—	—
COOLANT THRU SPINDLE/300 PSI	S	O	—	O	O	O	O	S	S	S	S	S	S	O	O	O	O	O
OVER-SIZED, HINGED SIDE ACCESS DOOR(S)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
LED WORKLIGHT(S)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
POWER CABINET HEAT EXCHANGER	S	—	—	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
AIR CONDITIONER	O	S	S	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
RENSHAW PART & TOOL PROBING	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

<b>STANDARD &amp; OPTIONAL ITEMS</b>	<b>HM1700Ri</b>	<b>HBMX55i</b>	<b>HBMX80i</b>	<b>HBMX120i</b>
DUAL WOUND AC SPINDLE MOTOR	S	S	S	S
GEARED, LIQUID COOLED SPINDLE	—	S	S	S
SPINDLE THERMAL CHILLER	S	S	S	S
SPINDLE AIR PURGE AND BLAST	S	S	S	S
ADVANCED MOTION CONTROL WITH AC BRUSHLESS SERVOS	S	S	S	S
REMOTE JOG	S	S	S	S
FINE GRAIN, ALL CAST FRAME DESIGNED WITH FEA	S	S	S	S
OVERSIZED LINEAR GUIDEWAYS	S	—	—	—
HARDENED BOX WAYS	—	S	S	S
DOUBLE-NUT PRETENSIONED BALL SCREWS	S	S	S	S
LINEAR GLASS SCALES X, Y, Z	○	○	○	○
AUTOMATIC CENTRAL LUBRICATION SYSTEM	S	S	S	S
WAY LUBE SEPARATION SYSTEM	○	○	○	○
ANSI DOOR INTERLOCK (B11.23)	S	S	S	S
AUTOMATIC SWING-ARM TOOL CHANGER	S	S	S	S
EXPANDED STATION TOOL CHANGER	○	—	—	—
BT TOOL CHANGER CONVERSION	○	○	○	○
LIFT-UP CHIP CONVEYOR	S	S	S	S
ENCLOSURE WASH DOWN SYSTEM	S	—	—	—
WASH DOWN & AIR GUN	S	S	S	S
FLOOD COOLANT SYSTEM	S	S	S	S
COOLANT THRU SPINDLE	S	S	S	S
LED WORK LIGHT(S)	S	S	S	S
POWER CABINET HEAT EXCHANGER	S	S	S	S
CONTROL CABINET AIR CONDITIONER	○	○	○	○
RENISHAW PART PROBING	○	○	○	○
RENISHAW TOOL PROBING	○	○	○	○
EXTENDED PARTS WARRANTY	○	○	○	○

STANDARD & OPTIONAL ITEMS	TM6i	TM8i	TM10i	TM12i	TM8Mi	TM10Mi	TM12Mi	TMX8i	TMX8MYi	TMX8MYSi	TMX10i	TMX10MYi	TMX10MYSi
SERVO TURRET	–	–	–	–	S 12 Station								
LCD REMOTE JOG	O	O	O	O	O	O	O	S	S	S	S	S	S
HALOGEN WORK LIGHT	S	S	S	S	S	S	S	S	S	S	S	S	S
AIR GUN ASSEMBLY	S	S	S	S	S	S	S	S	S	S	S	S	S
COOLANT GUN ASSEMBLY	S	S	S	S	S	S	S	S	S	S	S	S	S
AUTOMATIC CENTRAL LUBRICATION SYSTEM	S	S	S	S	S	S	S	S	S	S	S	S	S
BAR FEEDER INTERFACE (FOR NON-HURCO BAR FEEDERS)	O	O	O	O	O	O	O	O	O	O	O	O	O
BOX WAY FOR TAILSTOCK	S	S	S	S	S	S	S	–	–	–	–	–	–
CE DOOR SWITCH ASSEMBLY	S	S	S	S	S	S	S	S	S	S	S	S	S
CHIP CONVEYOR	O	O	O	S	O	O	S	S	S	S	S	S	S
MAIN SPINDLE HYDRAULIC CHUCK, 3-JAW WITH SOFT JAWS	S	S	S	S	S	S	S	O	O	O	O	O	O
SUB SPINDLE HYDRAULIC CHUCK, 3-JAW WITH SOFT JAWS	–	–	–	–	–	–	–	–	–	S	–	–	S
COLLET CHUCK	O	O	O	O	O	O	O	O	O	O	O	O	O
ANTI-FATIGUE MAT	O	O	O	O	O	O	O	O	O	O	O	O	O
FLOOD COOLANT ASSEMBLY	S	S	S	S	S	S	S	S	S	S	S	S	S
HIGH PRESSURE COOLANT (300 PSI)	–	–	–	S	–	–	S	–	–	–	–	–	–
LINEAR GUIDEWAYS	S	S	S	S	S	S	S	S	S	S	S	S	S
MIST COLLECTOR ASSEMBLY	O	O	O	O	O	O	O	O	O	O	O	O	O
OIL SKIMMER	O	O	O	O	O	O	O	S	S	S	S	S	S
PARTS CATCHER	O	O	O	O	O	O	O	O	S	S	O	S	S
SOFT JAWS, SET OF 3	O	O	O	O	O	O	O	O	O	O	O	O	O
HARD JAWS, SET OF 3	O	O	O	O	O	O	O	O	O	O	O	O	O
SPINDLE AIR AND COOLANT BLAST	O	O	O	S	–	–	O	S	S	S	S	S	S
SPINDLE THERMAL CHILLER	–	–	–	–	–	–	S	S	S	S	S	S	S
STEADY REST, HYDRAULIC, SELF-CENTERING	–	–	–	O	–	–	S	–	–	–	–	–	–
TAILSTOCK, MANUAL, PROGRAMMABLE HYDRAULIC QUILL	S	S	S	S	S	S	S	–	–	–	–	–	–
TAILSTOCK, PROGRAMMABLE	–	–	–	–	–	–	–	S	S	–	S	S	–
TOOL PRE-SETTER, RENISHAW	O	O	O	S	O	O	S	S	S	S	O	S	S
HYDRAULIC TURRET	S 12 Station	S 12 Station	S 12 Station	S 12 Station	–	–	–	–	–	–	–	–	–

# 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.



Hurco founded by Edward Humston and Gerald Roch

Hurco becomes publicly held company (Nasdaq: HURC)

Hurco invents Conversational Programming



Hurco Europe established



BMC machining centers introduced



Hurco Germany established

DXF Transfer invented



MAX single-screen control introduced

1968

1971

1976

1979

1986

1988

1992

1996

1969

1974

1978

1984

1987

1991

1995

1997

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



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



First CNC mill Introduced (KM1)



UltiMax control introduced



UltiMax 2 control introduced



Hurco France established

Hurco Southeast Asia established



Hurco opens new international headquarters



IMS Technologies established to oversee patent licensing

VMX machining centers introduced

UltiMax 3 control introduced

# HURCO®

mind over metal®



UltiMax 4 control introduced



WinMax® Desktop software released



TM turning centers introduced



WinMax® control software released

TMM turning centers with live tooling introduced

SR 5-axis machining centers introduced  
Record sales



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

Hurco invents UltiMotion®



Hurco China established



Hurco acquires LCM

USA machine assembly operation established



MAX5 control introduced

Hurco acquires Milltronics and Takumi



HM horizontal machining centers introduced  
Record sales

Hurco acquires ProCobots



Hurco introduces the VMX15Di

1998 2000 2004 2006 2010 2013 2015 2017 2019 2022

1999

Hurco Italy established



Hurco Manufacturing Ltd established



2003

VM machining centers introduced



First Hurco 5-axis machine introduced



2005

Record sales

2008

Hurco India established



TMX turning centers introduced

U-Series 5-Axis machining centers expanded

DCX double column machining centers introduced



2012

Global rebranding initiative launched

New "i" series machine design introduced

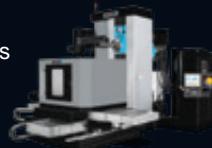
HSi high speed machining centers introduced

SRTi 5-axis machines introduced



2014

HBMXi boring mills introduced



2016

Record sales  
BXi machining centers introduced



3D print head introduced



2018

50th Anniversary  
Nasdaq Closing Bell Ceremony

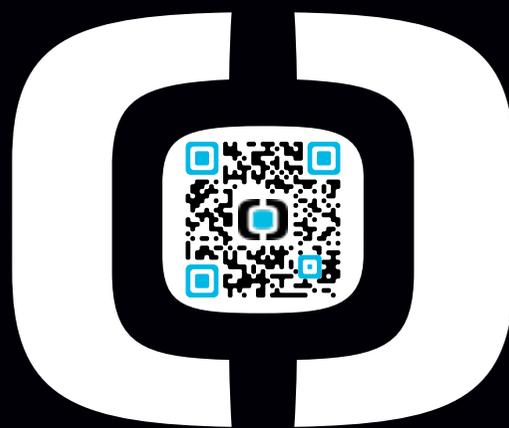


Record sales

2021

Hurco reintroduces the VM One





**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

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