

# COMPLETE *PRODUCT CATALOG*



**HURCO<sup>®</sup>**

mind over metal<sup>®</sup>

# HURCO<sup>®</sup> *PRODUCT LINE-UP*

## 3-AXIS VERTICAL MACHINING CENTERS



VM ONE



VM10i / VM10HSi



VM15Di

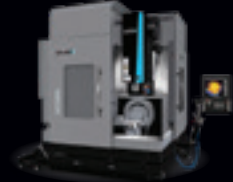


VM20i



VM30i

## 5-AXIS VERTICAL MACHINING CENTERS



VC500i



VC600i



VCX600i

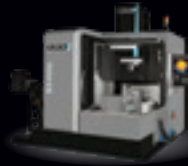


VM10Ui / VM10UHSi

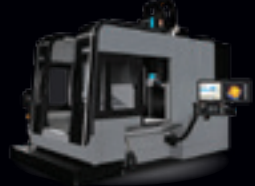


VMX30Ui

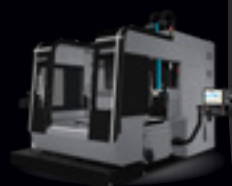
## DOUBLE COLUMN & HORIZONTAL



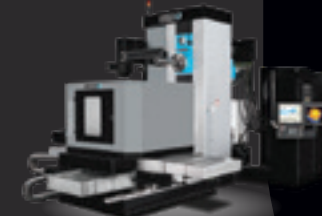
BX40Ui



BX40i/BX50i/BX50i-50T



BX60i



HBMX55i / HBMX80i



HBMX120i

## TURNING CENTERS



TM6i



TM8i



TM10i

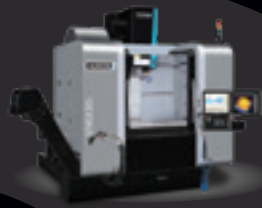


TM12i

For over 55 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



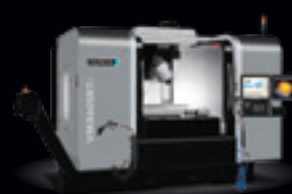
VMX30UDi



VMX42Ui



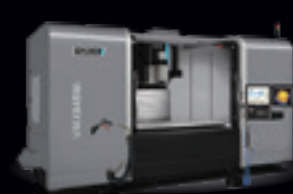
VMX42SRTi / VMX42HSRTi



VMX60SRTi



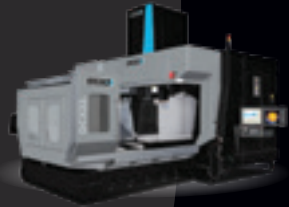
VMX42SWi / VMX60SWi



VMX84SWi



HM1700Ri



DCX22i / 50T



DCX32i / DCX3226i



DCX42i



TM8Mi



TM8MYi



TM10Mi / TM12Mi



TMX8i / TMX10i



TMX8MYi / TMX10MYi



TMX8MYSi / TMX10MYSi

# HURCO<sup>®</sup>

mind over metal<sup>®</sup>

## *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<sup>®</sup>
- 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)**

# CONTENTS

## 3-AXIS MACHINING CENTERS

VM Series	6
VMX Series	8
VMXD Series	12
BX Series	14
DCX Series	16

## 5-AXIS MACHINING CENTERS

VC/VCX Series	18
SRT/SW Series	20
Trunnion 5X U-Series	22
DCX 5X Series	24

## HORIZONTAL MACHINING CENTERS

HM/HBMX Series	26
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## TURNING CENTERS

TM Series	28
TMM Series	30
TMX/MY/TMXMYSi Series	32

## HURCO WINMAX® CONTROL 34

## AUTOMATION 40

## HOW IT'S MADE 42

## ACCESSORIES 43

## STANDARD & OPTIONAL FEATURES 46

# 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 55+ 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.

# VM Series

## General Purpose 3-Axis Vertical Mills

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

# 3-AXIS



### SERIES OVERVIEW

- » 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



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 .71 in / 3 x 18 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	3,300 lb / 1,500 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 / 102 mm	4.0 in / 102 mm	4.0 in / 102 mm	4.0 in / 102 mm	4.0 in / 102 mm
TRAVEL	X-AXIS	26 in / 660 mm	26.02 in / 660 mm	26.02 in / 660 mm	30 in / 762 mm	40 in / 1,106 mm	50 in / 1,270 mm
	Y-AXIS	16 in / 406 mm	16.02 in / 406 mm	16.02 in / 406 mm	16 in / 407 mm	20 in / 508 mm	20 in / 508 mm
	Z-AXIS	14 in / 356 mm	20 in / 508 mm	20 in / 508 mm	20 in / 508 mm	20 in / 508 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 (30 MIN/CONTINUOUS)	7.4 hp (5.5 kW) / 5 hp (3.7 kW) @ 1450 rpm	14.8 hp (11 kW) / 10 hp (7.5 kW) @ 1450 rpm	11.4 hp (8.5 kW) / 10 hp (7.5 kW) @ 1500 rpm	20.1 hp (15 kW) / 14.8 hp (11 kW) @ 1500 rpm	20 hp (15 kW) / 14.8 hp (11 kW) @ 1450 rpm	20 hp (15 kW) / 14.8 hp (11 kW) @ 1450 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	26.7 ft. lbs (36.2 Nm) / 18.0 ft. lbs (24.4 Nm) @ 1450 rpm	53.4 ft. lbs (72.4 Nm) / 36.4 ft. lbs (49.4 Nm) @ 1450 rpm	4.0 ft. lbs (5.4 Nm) / 3.5 ft. lbs (4.8 Nm) @ 1500 rpm	69.8 ft. lbs (94.6 Nm) / 51.2 ft. lbs (69.4 Nm) @ 1500 rpm	72.9 ft. lbs (98.8 Nm) / 53.4 ft. lbs (72.4 Nm) @ 1450 rpm	72.9 ft. lbs (98.8 Nm) / 53.4 ft. lbs (72.4 Nm) @ 1450 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 / 80 mm	3.15 in / 80 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	9.8 in / 250 mm	9.8 in / 250 mm	9.8 in / 250 mm	9.8 in / 250 mm
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg	6.6 lb / 3 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 sec	1.5 sec	2.5 sec	2.5 sec	2.5 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,102 in / 28 m	X= 1,102 in / 28 m	X= 1,102 in / 28 m	X= 1,417 in / 36 m	X= 1,102 in / 28 m	X= 1,102 in / 28 m
		Y= 1,102 in / 28 m	Y= 1,102 in / 28 m	Y= 1,102 in / 28 m	Y= 1,417 in / 36 m	Y= 1,102 in / 28 m	Y= 1,102 in / 28 m
		Z= 1,102 in / 28 m	Z= 1,102 in / 28 m	Z= 1,102 in / 28 m	Z= 1,181 in / 30 m	Z= 1,102 in / 28 m	Z= 1,102 in / 28 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,102 in / 28 m	1,102 in / 28 m	1,102 in / 28 m	1,181 in / 30 m	1,102 in / 28 m	1,102 in / 28 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	126.1 x 131.9 x 94.3 in / 3,204 x 3,351 x 2,396 mm	128.5 x 133.2 x 101.0 in / 3,264 x 3,384 x 2,562 mm	126.1 x 133.7 x 101.0 in / 3,204 x 3,395 x 2,564 mm	137.8 x 139.4 x 112.9 in / 3,501 x 3,541 x 2,868 mm	146.5 x 130.4 x 100.0 in / 3,722 x 3,312 x 2,541 mm	160.9 x 130.4 x 100.1 in / 4,086 x 3,312 x 2,543 mm
	MACHINE WEIGHT	6,512 lb / 2,960 kg	7,121 lb / 3,230 kg	6,746 lb / 3,060 kg	7,408 lb / 3,360 kg	9,127 lb / 4,140 kg	9,524 lb / 4,320 kg

# VMX 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
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	2,200 lb / 1,000 kg	3,300 lb / 1,500 kg	2,200 lb / 1,000 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 mm	4.0 in / 101 mm
TRAVEL	X-AXIS	24.02 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	24.02 in / 610 mm	24.02 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 (30 MIN/CONTINUOUS)*	20 hp (15 kW) / 14.8 hp (11 kW) @ 1450 rpm	14.8 hp (11 kW) / 10 hp (7.5 kW) @ 600 rpm	20 hp (15 kW) / 14.8 hp (11 kW) @ 1450 rpm	(15 MIN) 20 hp (15 kW) / 14.8 hp (11 kW) @ 720 rpm	(15 MIN) 18.5 hp (24.8 kW) / 14.8 hp (11 kW) @ 600 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)*	72.9 ft. lbs (98.8 Nm) / 53.4 ft. lbs (72.4 Nm) @ 1450 rpm	129.1 ft. lbs (175.1 Nm) / 88 ft. lbs (119.4 Nm) @ 600 rpm	72.9 ft. lbs (98.8 Nm) / 53.4 ft. lbs (72.4 Nm) @ 1450 rpm	(15 MIN) 146.7 ft. lbs (198.9 Nm) / 86.1 ft. lbs (116.7 Nm) @ 720 rpm	(15 MIN) 294.4 ft. lbs (217.2 Nm) / 140.1 ft. lbs 103.3 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	40	40	30
	MAXIMUM TOOL DIAMETER	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 mm	3 in / 76 mm	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= 1,181 in / 30 m	X= 1,469 in / 38 m	X= 1,181 in / 30 m	X= 1,260 in / 32 m	X= 1,260 in / 32 m
		Y= 1,181 in / 30 m	Y= 1,469 in / 38 m	Y= 1,181 in / 30 m	Y= 1,260 in / 32 m	Y= 1,260 in / 32 m
		Z= 787 in / 20 m	Z= 1,260 in / 32 m	Z= 787 in / 20 m	Z= 944 in / 24 m	Z= 944 in / 24 m
	PROGRAMMABLE FEEDRATE / MINUTE	787 in / 20 m	1,260 in / 32 m	787 in / 20 m	944 in / 24 m	944 in / 24 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	150.3 x 158.7 x 106.6 in / 3,816 x 4,030 x 2,708 mm	155.1 x 159.8 x 107.2 in / 3,939 x 4,049 x 2,724 mm	152.1 x 146.4 x 114.8 in / 3,864 x 3,719 x 2,917 mm	199.0 x 153.3 x 127.5 in / 5,055 x 3,844 x 3,240 mm	199.4 x 176.6 x 128.1 in / 5,066 x 4,485 x 3,254 mm
	MACHINE WEIGHT	10,010 lbs / 4,550 kg	11,111 lb / 5,260 kg	14,190 lb / 6,450 kg	19,536 lb / 8,880 kg	20,636 lb / 9,360 kg

\* VMX50i, VMX50i-50T listed with 15 min. peaks

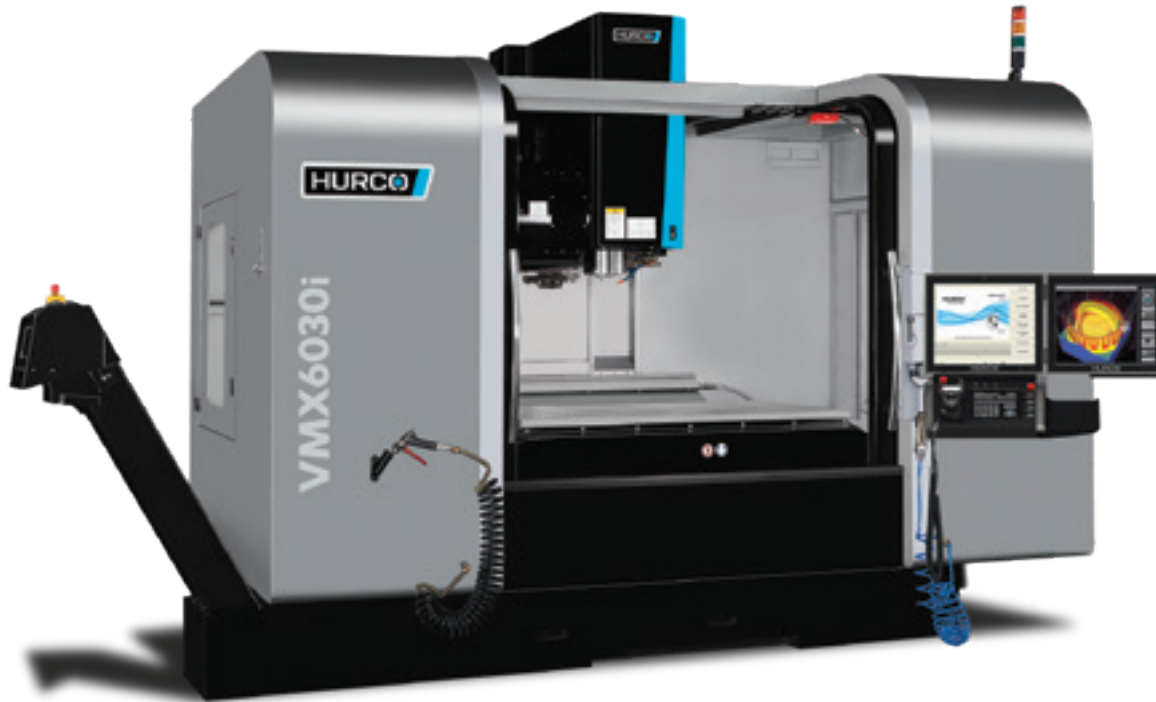
# VMX Series

## 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

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



Scan to learn more!

SPECIFICATIONS		VMX6030i	VMX6030i-50T	VMX64i	VMX64i-50T	VMX84i	VMX84i-50T
CAPACITY	TABLE SIZE	66 x 30 in / 1,680 x 762 mm	66 x 30 in / 1,680 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	84.02 in / 2,134 mm	84.02 in / 2,134 mm
	Y-AXIS	30 in / 762 mm	30 in / 762 mm	34 in / 864 mm	34 in / 864 mm	34.02 in / 864 mm	34.02 in / 864 mm
	Z-AXIS	24.02 in / 610 mm	24.02 in / 610 mm	30 in / 762 mm	30 in / 762 mm	30 in / 762 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 (15 MIN/CONTINUOUS)	20 hp (15 kW) / 14.8 hp (11 kW) @ 900 rpm	24.8 hp (18.5 kW) / 14.8 hp (11 kW) @ 750 rpm	20 hp (15 kW) / 14.8 hp (11 kW) @ 900 rpm	24.8 hp (18.5 kW) / 14.8 hp (11 kW) @ 750 rpm	20 hp (15 kW) / 14.8 hp (11 kW) @ 900 rpm	24.8 hp (18.5 kW) @ 14.8 hp (11 kW) @ 750 rpm
	SPINDLE TORQUE (15 MIN/CONTINUOUS)	146.7 ft. lbs (198.9 Nm) / 86.1 ft. lbs (116.7 Nm) @ 900 rpm	217.2 ft. lbs (294.4 Nm) / 103.3 ft lbs (140.1 Nm) @ 750 rpm	146.7 ft. lbs (198.9 Nm) / 86.1 ft. lbs (116.7 Nm) @ 900 rpm	217.3 ft. lbs (294.4 Nm) / 103.3 ft. lbs (140.2 Nm) @ 750 rpm	146.7 ft. lbs (198 Nm) / 186.1 ft. lbs (116.7 Nm) @ 900 rpm	217.2 ft. lbs (294.4 Nm) / 103.3 ft. lbs (140.1 Nm) @ 900 rpm
ATC	TOOL TYPE	CAT 40 / Big Plus®	CAT 50 / Big Plus®	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	3.0 in / 75 mm	4.7 in / 120 mm	3.0 in / 75 mm	4.9 in / 125 mm	3.0 in / 75 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	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	2 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= 945 in / 24 m	Z= 945 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	945 in / 24 m	945 in / 24 m	530 in / 13.5	530 in / 13.5 m	530 in / 13.5 m	530 in / 13.5 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	220.7 x 160.8 x 131.7 in / 5,606 x 4,085 x 3,345 mm	220.7 x 160.8 x 132.1 in / 5,606 x 4,084 x 3,355 mm	249.5 x 177.0 x 131.3 in / 6,338 x 4,496 x 3,335 mm	249.5 x 177.0 x 131.3 in / 6,338 x 4,496 x 3,335 mm	297.9 x 176.7 x 133.5 in / 7,566 x 4,488 x 3,391 mm	297.9 x 176.7 x 133.5 in / 7,566 x 4,488 x 3,391 mm
	MACHINE WEIGHT	26,087 lb / 11,833 kg	25,678 lb / 11,674 kg	32,837 lb / 14,895 kg	32,187 lb / 14,600 kg	36,806 lb / 16,730 kg	37,260 lb / 16,936 kg

# VMXD Series

## Direct Drive 3-Axis Vertical Mills

- » VMX24Di
- » VMX30Di
- » VMX42Di

- » VMX50Di
- » VMX6030Di

# 3-AXIS



## VMX Performance with Direct Drive Spindles.

Hurco has added the VMXD models of CNC machines, featuring 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

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

### 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 / 1,680 mm 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	4,000 lb / 1,814 kg	4,000 lb / 1,814 kg
	SPINDLE NOSE TO TABLE	6.0 in / 152 mm	4.9 in / 125 mm	4.9 in / 125 mm	4.0 in / 101 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	24 in / 610 mm	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 (30 MIN/CONTINUOUS)*	10 hp (7.5 kW) / 7.4 hp (5.5 kW) @ 1500 rpm	14.8 hp (11 kW) / 10 hp (7.5 kW) @ 1500 rpm	14.8 hp (11 kW) / 10 hp (7.5 kW) @ 1500 rpm	(15 MIN) 24.8 hp (18.5 kW) / 20 hp (15 kW) @ 1500 rpm	24.8 hp (18.5 kW) / 20 hp (15 kW) @ 1500 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)*	35.2 ft. lbs (47.7 Nm) / 25.8 ft. lbs (35 Nm) @ 1500 rpm	51.7 ft. lbs (70 Nm) / 35.2 ft. lbs (47.7 Nm) @ 1500 rpm	51.7 ft. lbs (70 Nm) / 35.2 ft. lbs (47.7 Nm) @ 1500 rpm	(15 MIN) 86.8 ft. lbs (117.7 Nm) / 70 ft. lbs (95 Nm) @ 1500 rpm	86.8 ft. lbs (117.7 Nm) / 70 ft. lbs (95 Nm) @ 1500 rpm
ATC	TOOL TYPE	CAT 40 / Big Plus®	CAT 40 / Big Plus®	CAT 40 / Big Plus®	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	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 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	15.4 lb / 7 kg
	TOOL-TO-TOOL ATC TIME	1.5 sec	1.5 sec	1.5 sec	1.5 sec	1.5 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,771 in / 45 m	X= 1,771 in / 45 m	X= 1,771 in / 45 m	X= 1,771 in / 45 m	X= 1,771 in / 45 m
		Y= 1,771 in / 45 m	Y= 1,771 in / 45 m	Y= 1,771 in / 45 m	Y= 1,771 in / 45 m	Y= 1,771 in / 45 m
		Z= 1,575 in / 40 m	Z= 1,575 in / 40 m	Z= 1,575 in / 40 m	Z= 1,575 in / 40 m	Z= 1,575 in / 40 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,575 in / 40 m	1,575 in / 40 m	1,575 in / 40 m	1,575 in / 40 m	1,575 in / 40 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (w/ Doors Open) (W x D x H)	154.7 x 159.5 x 117.9 in / 3,930 x 4,051 x 2,994 mm	155.1 x 159.4 x 118.5 in / 3,940 x 4,049 x 3,011 mm	180.0 x 146.3 x 116.5 in / 4,572 x 3,717 x 2,958 mm	199.4 x 176.6 x 126.6 in / 5,066 x 4,485 x 3,216 mm	222.1 x 192.6 x 128.4 in / 5,641 x 4,893 x 3,261 mm
	MACHINE WEIGHT	11,222 lb / 5,090 kg	11,685 lb / 5,300 kg	14,573 lb / 6,610 kg	19,577 lb / 8,880 kg	26,087 lb / 11,833 kg

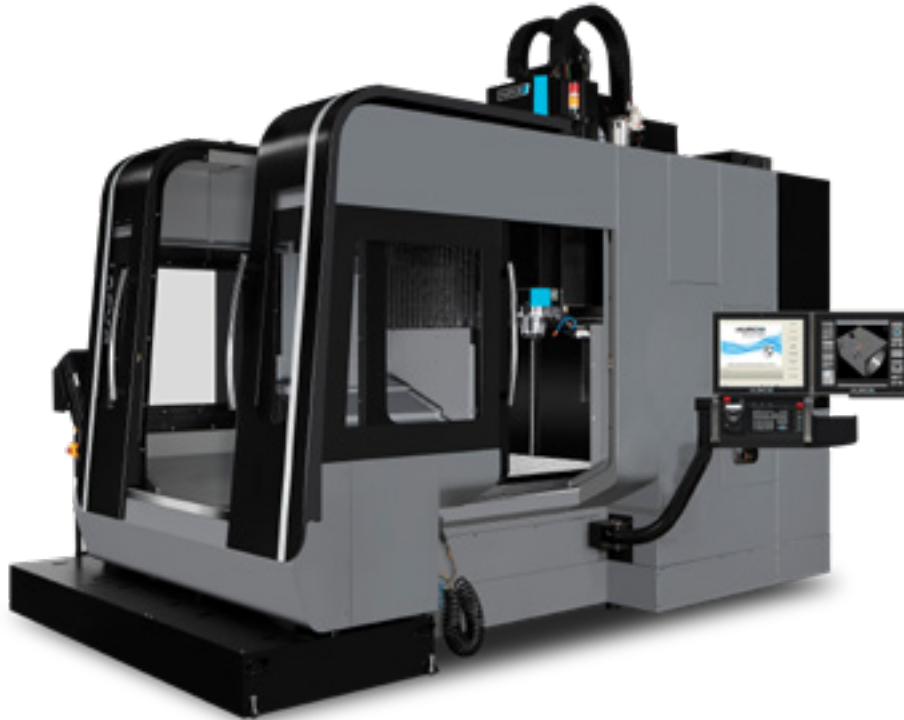
\* VMX50Di listed with 15 min. peaks

# 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	BX50i-50T	BX60i
CAPACITY	TABLE SIZE	41.3 x 27.6 in / 1,050 x 700 mm	53.5 x 37.8 in / 1,360 x 960 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 0.9 in / 6 x 22 mm	6 x 0.87 in / 6 x 22 mm	8 x .87 in / 8 x 22 mm
	MAXIMUM WEIGHT ON TABLE	2,204 lbs / 1,000 kg	4,409 lbs / 2,000 kg	5,512 lb / 2,500 kg	13,200 lbs / 6,000 kg
	SPINDLE NOSE TO TABLE	7 in / 178 mm	7.9 in / 200 mm	7 in / 180 mm	7.1 in / 180 mm
TRAVEL	X-AXIS	40.2 in / 1,020 mm	49.2 in / 1,250 mm	53.2 in / 1,350 mm	63 in / 1,600 mm
	Y-AXIS	27.6 in / 700 mm	37.4 in / 950 mm	37.4 in / 950 mm	51.2 in / 1,300 mm
	Z-AXIS	19.7 in / 500 mm	22.8 in / 580 mm	23.6 in / 600 mm	27.6 in / 700 mm
SPINDLE	MAXIMUM SPINDLE SPEED	20,000 rpm	20,000 rpm	10,000 rpm	20,000 rpm
	SPINDLE POWER (30 MIN/CONTINUOUS)	38.9 hp (29 kW) / 33.5 hp (kW) @ 2870 rpm	38.9 hp (29 kW) / 33.5 hp (kW) @ 2870 rpm	(15 MIN) 24.8 hp (18.5 kW) / 20.1 hp (15 kW) @ 750 rpm	38.9 hp (29 kW) / 33.5 hp (kW) @ 2870 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	73.2 ft. lbs (99.3 Nm) / 61.4 ft. lbs (83.2 Nm) @ 2790 rpm	73.2 ft. lbs (99.3 Nm) / 61.4 ft. lbs (83.2 Nm) @ 2790 rpm	(15 MIN) 173.7 ft. lbs (235.5 Nm) / 140.9 ft. lbs (191.0 Nm) @ 750 rpm	73.2 ft. lbs (99.3 Nm) / 61.4 ft. lbs (83.2 Nm) @ 2790 rpm
ATC	TOOL TYPE	HSK 63A	HSK 63A	CAT 50 / Big Plus®	HSK 64A
	TOOL CAPACITY	30	30	40	30
	MAXIMUM TOOL DIAMETER	3.15 in / 80 mm	3.15 in / 80 mm	4.9 in. / 125 mm	3.15 in / 80 mm
	MAXIMUM TOOL LENGTH	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	33 lb / 15 kg	15.4 lb / 7 kg
	TOOL-TO-TOOL ATC TIME	1.5 sec	1.5 sec	1.5 sec	1.5 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	X= 1,417 in / 36 m
		Y= 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	Z= 1,417 in / 36 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,417 in / 36 m	1,417 in / 36 m	1,417 in / 36 m	1,417 in / 36 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	159.4 x 109.3 x 112.8 in / 4,048 x 3,485 x 2,865 mm	182.7 x 206.5 x 140.5 in / 4,344 x 4,096 x 2,943 mm	182.8 x 206.5 x 140.2 in / 4,644 x 5,244 x 3,561 mm	212.5 x 206.9 x 149.6 in / 5,398 x 5,256 x 3,800 mm
	MACHINE WEIGHT	20,062 lb / 9,100 kg	20,371 lb / 9,240 kg	29,480 lb / 13,372 kg	44,000 lb / 20,000 kg

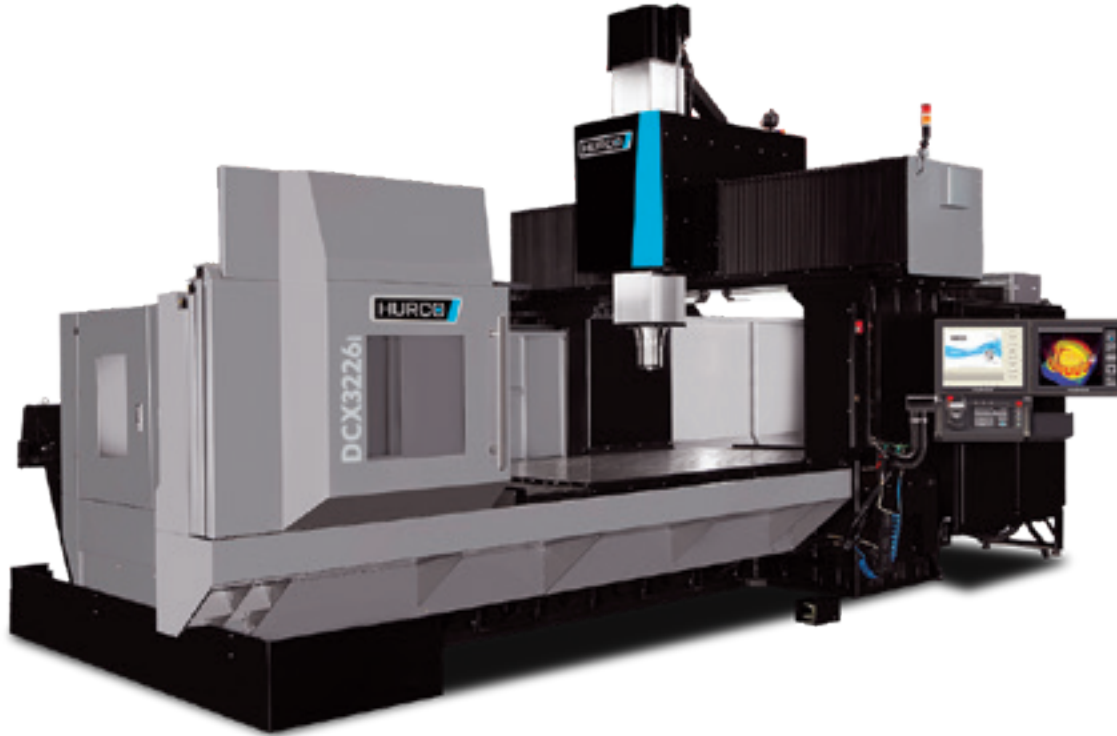
\* BX50i-50T listed with 15 min. peaks

# 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



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	13,228 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	100 in / 2,540 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	8,000 rpm	6,000 rpm	6,000 rpm	6,000 rpm
	SPINDLE POWER (30 MIN/CONTINUOUS)*	20 hp [15 kW] / 14.8 hp [11 kW] @ 900 rpm	30 hp [22 kW] / 20 hp [15 kW] @ 780 rpm	[10 MIN] 64 hp [48 kW] / 51 hp [38 kW] @ 1180 rpm	[10 MIN] 64 hp [48 kW] / 51 hp [38 kW] @ 1180 rpm	[10 MIN] 64 hp [48 kW] / 51 hp [38 kW] @ 1000 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)*	146 ft. lbs [198 Nm] / 87.5 ft. lbs [119 Nm] @ 720 rpm	229 ft. lbs [310 Nm] / 135 ft. lbs [182 Nm] @ 688 rpm	[10 MIN] 338 ft. lbs [458 Nm] / 226 ft. lbs [306 Nm] @ 1000 rpm	[10 MIN] 338 ft. lbs [458 Nm] / 226 ft. lbs [306 Nm] @ 1000 rpm	[10 MIN] 338 ft. lbs [458 Nm] / 226 ft. lbs [306 Nm] @ 1000 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	XYZ = 945 in / 24 m	XY = 591 in / 15 m Z = 394 in / 10 m	XY = 591 in / 15 m Z = 394 in / 10 m	XY = 591 in / 15 m Z = 394 in / 10 m
	PROGRAMMABLE FEEDRATE / MINUTE	945 in / 24 m unlimited*	945 in / 24 m unlimited*	394 in / 10 m unlimited*	394 in / 10 m unlimited*	394 in / 10 m unlimited*
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	283.9 x 226.9 x 153.1 in / 7,210 x 5,765 x 3,889 mm	259.5 x 237.4 x 152.6 in / 6,591 x 6,031 x 3,875 mm	392.1 x 250.4 x 186.0 in / 9,960 x 5,935 x 4,724 mm	408.8 x 249.7 x 186.0 in / 10,384 x 6,341 x 4,724 mm	486.7 x 277.6 x 212.0 in / 12,363 x 6,722 x 5,385 mm
	MACHINE WEIGHT	44,000 lb / 21,000 kg	45,122 lb / 21,000 kg	76,870 lb / 35,000 kg	81,439 lb / 37,000 kg	98,317 lb / 45,000 kg

Note: \* With Ultimotion®

\* DCX32i, DCX3226i, DCX42i listed with 10 min. peaks

# VC/VCX Series

## 5-Axis Cantilever CNC Machines

- » VC500i
- » VC600i
- » VCX600i

# 5-AXIS



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

The B-axis of the universal 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/VCX 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

- » Universal 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.

\*VC 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	23.6 in / 600 mm	23.6 in / 600 mm
	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) / 25.6 in (650 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	32.3 in / 820
	Y-AXIS	17.7 in / 450 mm	21.7 in / 550 mm	21.7 in / 550 mm
	Z-AXIS	15.8 in / 400 mm	19.7 in / 500 mm	19.7 in / 500 mm
	B-AXIS	+/-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 (30 MIN/CONTINUOUS)	15.4 hp (11.5 kW) / 10 hp (7.5 kW) @ 1500 rpm	20.1 hp (15 kW) / 14.8 hp (11 kW) @ 1500 rpm	21.4 hp (16 kW) / 16.8 hp (12.5 kW) @ 1504 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	54 ft. lbs (73.2 Nm) / 35.2 ft. lbs (47.7 Nm) @ 1500 rpm	69.8 ft. lbs (94.6 Nm) / 51.2 ft. lbs (69.4 Nm) @ 1500 rpm	74.9 ft. lbs (101.6 Nm) / 58.5 lb (79.4 Nm) @ 1504 rpm
ATC	TOOL CAPACITY	40	40	40
	MAXIMUM TOOL DIAMETER	3.0 in / 80 mm	3.0 in / 80 mm	3.0 in / 80 mm
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	11.8 in / 300 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	XYZ= 1,102 in / 28 m	XYZ= 1,102 in / 28 m	XYZ = 1,417 in / 36 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,102 in / 28 m	1,102 in / 28 m	1,417 in / 36 m
	B-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm
	C-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	162.9 x 141.9 x 116.3 in / 4,950 x 3,604 x 2,955 mm	176.7 x 182.6 x 126.7 in / 4,487 x 4,639 x 3,217 mm	176.5 x 182.5 x 126.7 in / 4,482 x 4,635 x 3,217 mm
	MACHINE WEIGHT	15,807 lb / 7,170 kg	21,826 lb / 9,900 kg	22,046 lb / 10,000 kg

# SRT Series

## 5-Axis Swivel Head CNC Machines

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

# 5-AXIS



## Maximum 5-Axis Versatility.

The SRT 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 SW 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

### SRT 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	3,850 lb / 1,750 kg	3,000 lb / 1,360 kg	3,000 lb / 1,360 kg	4,410 lb / 2,000 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 in (127 mm) / 35 in (889 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	42.01 in / 1,067 mm	42.01 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	24.02 in / 610 mm	24.02 in / 610 mm	26 in / 660 mm	26 in / 660 mm	34 in / 865 mm
	Z-AXIS	24 in / 610 mm	24.02 in / 610 mm	24.02 in / 610 mm	24 in / 610 mm	24 in / 610 mm	30 in / 762 mm
	B-AXIS	+/-92°	+/-92°	+/-92°	+/-92°	+/-92°	+/-92°
	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	24,000 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 (30 MIN/CONTINUOUS)	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm	49.6 hp (37 kW) / 37.5 hp (28 kW) @ 4260 rpm	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm	61.2 ft. lbs (82.9 Nm) / 45.1 ft. lbs (61.1 Nm) @ 4260 rpm	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm
ATC	TOOL CAPACITY	40	40	40	40	40	40
	MAXIMUM TOOL DIAMETER	3.0 in / 76 mm	3.0 in / 76 mm	3.0 in / 76 mm	2.95 in / 75 mm	3.0 in / 76 mm	3.0 in / 76 mm
	MAXIMUM TOOL LENGTH	9.8 in / 249 mm	9.8 in / 249 mm	9.8 in / 249 mm	9.8 in / 249 mm	9.8 in / 249 mm	11.8 in / 300 mm
	TOOL-TO-TOOL ATC TIME	4 sec	2 sec	2 sec	4 sec	2 sec	2.5 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= 1,771 in / 45 m Z= 1,575 in / 40 m	XY= 1,259 in / 32 m Z= 945 in / 24 m	XY= 1,259 in / 32 m Z= 945 in / 24 m	XY= 709 in / 18 m Z= 530 in / 13.5 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,260 in / 32 m	1,260 in / 32 m	1,575 in / 40 m	945 in / 24 m	945 in / 24 m	530 in / 13.5 m
	B-AXIS MAXIMUM RPM	50 rpm	50 rpm	50 rpm	90 rpm	50 rpm	33.3 rpm
	C-AXIS MAXIMUM RPM	100 rpm	–	100 rpm	100 rpm	–	–
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	195.0 x 148.5 x 125.5 in / 4,954 x 3,772 x 3,187 mm	181.0 x 146.4 x 124.0 in / 4,598 x 3,718 x 3,149 mm	195.0 x 148.5 x 125.2 in / 4,954 x 3,772 x 3,181 mm	222.9 x 154.4 x 129.8 in / 5,662 x 3,921 x 3,298 mm	220.7 x 154.7 x 133.0 in / 5,606 x 3,930 x 3,378 mm	297.5 x 177.3 x 133.1 in / 7,557 x 4,502 x 3,382 mm
	MACHINE WEIGHT	18,520 lb / 8,400 kg	15,686 lb / 7,130 kg	18,520 lb / 8,400 kg	23,980 lb / 10,900 kg	21,780 lb / 9,900 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 Z compared to the add-on table configuration.

### 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 BX40Ui has -30° / + 110° motion in its B-axis.

\*\*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

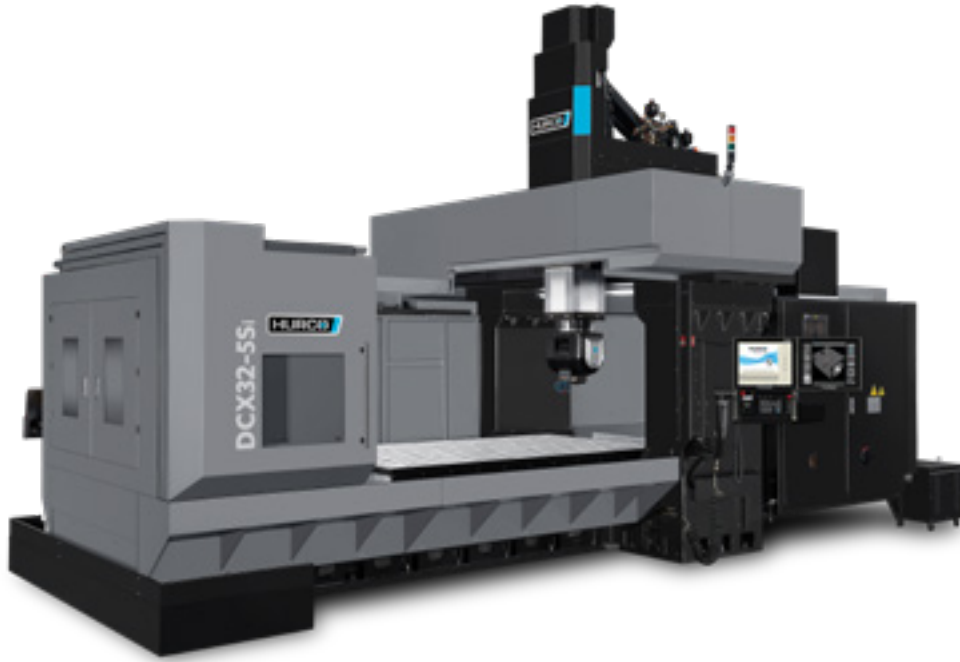
SPECIFICATIONS		VM10Ui	VM10UHSi	VMX30Ui	VMX30UDi	VMX30UHSi	VMX42Ui	BX40Ui
CAPACITY	TABLE SIZE	7.8 in / 198 mm	7.8 in / 198 mm	9.8 in / 248 mm	9.8 in / 248 mm	9.8 in / 248 mm	15.7 in / 399 mm	15.7 in / 398 mm
	MAXIMUM WEIGHT ON ROTARY / TRUNNION TABLE	330 lb / 150 kg	330 lb / 150 kg	440 lb / 200 kg	440 lb / 200 kg	440 lb / 200 kg	550 lb / 250 kg	550 lb / 250 kg
	SPINDLE NOSE TO TABLE MINIMUM / MAXIMUM	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)	3.5 in (89 mm) / 25.7 in (653 mm)
	TABLE T-SLOTS	6 x .39 in / 6 x 10 mm	6 x .39 in / 6 x 10 mm	6 x .48 in / 6 x 12 mm	6 x .48 in / 6 x 12 mm	6 x .48 in / 6 x 12 mm	6 x .48 in / 6 x 12 mm	6 x 0.55 in / 6 x 14 mm
TRAVEL	X-AXIS	21.02 in / 533 mm	21 in / 533 mm	30 in / 762 mm	30 in / 762 mm	30 in / 762 mm	42 in / 1,067 mm	37.4 in / 950 mm
	Y-AXIS	16.02 in / 406 mm	16 in / 406 mm	20 in / 508 mm	20 in / 508 mm	20 in / 508 mm	24 in / 610 mm	21.6 in / 549 mm
	Z-AXIS	19.02 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	19.7 in / 500 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	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	20,000 rpm / HSK 63A
	SPINDLE POWER (30 MIN/CONTINUOUS)	10 hp (7.5 kW) / 7.4 hp (5.5 kW) @ 1500 rpm	11.4 hp (8.5 kW) / 10 hp (7.5 kW) @ 600 rpm	14.8 hp (11 kW) / 10 hp (7.5 kW) @ 600 rpm	14.8 hp (11 kW) / 10 hp (7.5 kW) @ 1500 rpm	38.9 hp (29 kW) / 33.5 hp (25 kW) @ 1500 rpm	20 hp (15 kW) / 14.8 hp (11 kW) @ 720 rpm	38.9 hp (29 kW) / 33.5 hp (25 kW) @ 2870 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	35.2 ft. lbs (47.7 Nm) / 25.8 ft. lbs (35 Nm) @ 1500 rpm	4.0 ft. lbs (5.4 Nm) / 3.5 ft. lbs (4.8 Nm) @ 600 rpm	129.1 ft. lbs (175.1 Nm) / 88 ft. lbs (119.4 Nm) @ 600 rpm	51.7 ft. lbs (70 Nm) / 35.2 ft. lbs (47.7 Nm) @ 1500 rpm	73.2 ft. lbs (99.3 Nm) / 61.4 ft. lbs (83.2 Nm) @ 1500 rpm	146.7 ft. lbs (198.9 Nm) / 86.1 ft. lbs (116.7 Nm) @ 720 rpm	73.2 ft. lbs (99.3 Nm) / 58.3 ft. lbs (79 Nm) @ 2790 rpm
ATC	TOOL CAPACITY	24	20	40	40	40	40	30
	MAXIMUM TOOL DIAMETER	3.1 in / 79 mm	3.15 in / 80 mm	3.0 in / 76 mm	3.0 in / 76 mm	3.0 in / 76mm	3.0 in / 76 mm	3.15 in / 80 mm
	MAXIMUM TOOL LENGTH	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	11.8 in / 300 mm
	TOOL-TO-TOOL ATC TIME	2 sec	1.5 sec	2 sec	2 sec	1.5 sec	2 sec	1.5 sec
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	6.6 lb / 3 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	XYZ= 1,102 in / 28 m	XYZ= 1,102 in / 28 m	XY= 1,496 in / 38 m Z= 1,260 in / 32 m	XY= 1,771 in / 45 m Z= 1,575 in / 40 m	XY= 1,771 in / 45 m Z= 1,575 in / 40 m	XY= 1,496 in / 38 m Z= 1,260 in / 32 m	XYZ= 1,417 in / 36 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,102 in / 28 m	1,102 in / 28 m	1,260 in / 32 m	1,575 in / 40 m	1,575 in / 40 m	1,260 in / 32 m	1,417 in / 36 m
	A-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm	25 rpm	25 rpm	25 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	—
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	128.5 x 133 x 106.9 in / 3,263.9 x 3,378.2 x 2,715.3 mm	126.1 x 133.2 x 106.9 in / 3,202.9 x 3,383.3 x 2,715.3 mm	155.1 x 159.8 x 113.3 in / 3,939.5 x 4,058.9 x 2,877.8 mm	155.1 x 159.9 x 124.1 in / 3,939.5 x 4,061.5 x 3,152.1 mm	155.1 x 159.6 x 115.3 in / 3,939.5 x 4,053.8 x 2,928.6 mm	181.1 in x 146.4 in x 122.5 in / 4,600 x 3,718 x 3,111 mm	164.8 x 145.9 x 113.6 in / 4,185.9 x 3,705.9 x 2,885.4 mm
	MACHINE WEIGHT	7,392 lb / 3,360 kg	6,825 lb / 3,102 kg	10,868 lb / 4,940 kg	13,068 lb / 5,940 kg	13,178 lb / 5,990 kg	15,752 lb / 7,260 kg	20,723 lb / 9,400 kg

# DCX Series

## Large Double Column - 5-Axis Mills

- » DCX32-5Si
- » DCX3226HT-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 DCX machines.

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

### 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.



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## SPECIFICATIONS

### DCX32-5Si

### DCX3226HT-5Si

### DCX42HT-5Si

CAPACITY	TABLE SIZE	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
	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 in (66 mm) / 38 in (960 mm)	7.9 in (201 mm) in / 51.2 in (1,301 mm)	7.9 in (201 mm) / 59.1 in (1,501 mm)
TRAVEL	X-AXIS	126 / 3,200 mm	126 in / 3,200 mm	165.4 in / 4,200 mm
	Y-AXIS	82.7 in / 2,100 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
	B-AXIS	+/-110°	+/-110°	+/-110°
	C-AXIS	+/-360°	+/-360°	+/-360°
SPINDLE	MAXIMUM SPINDLE SPEED	18,000 rpm	12,000 rpm	12,000 rpm
	SPINDLE POWER (30 MIN/CONTINUOUS)	75.1 hp (56 kW) / 60.3 hp (45 kW) @ 5700 rpm	71 hp (53 kW) / 56.3 hp (42 kW) @ 2000 rpm	71 hp (53 kW) / 56.3 hp (42 kW) @ 2000 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	69.3 ft. lbs (94 Nm) / 55.6 ft. lbs (75 Nm) @ 5700 rpm	186.6 ft. lbs (253 Nm) / 148.2 ft. lbs (200.5 Nm) @ 2000 rpm	186.6 ft. lbs (253 Nm) / 148.2 ft. lbs (200.5 Nm) @ 2000 rpm
	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	3.5 sec	3.5 sec
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 (W x D x H)	393.0 x 268.3 x 207.0 in / 9,982 x 6,815 x 5,250 mm	408.7 x 286.2 x 246.6 in / 10,382 x 7,270 x 6,263 mm	487.5 x 286.2 x 246.6 in / 12,383 x 7,270 x 6,263 mm
	MACHINE WEIGHT	82,982 lb / 37,640 kg	96,562 lbs / 43,800 kg	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 second 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 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 / 1,651 x 838 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 x 0.7 in / 122 x 17 mm	7 x 0.9 in / 177 x 22 mm	9 x 0.9 in / 228 x 22 mm	9 x 0.9 in / 9 x 24 mm
	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)	—	—	—
	SPINDLE NOSE TO PALLET CENTER	—	28.3 (720 mm) / 71.7 in (1,820 mm)	22.8 in (579 mm) / 89.8 in (2,280 mm)	5.1 in (129 mm) / 89.8 in (2,280 mm)
TRAVEL	X-AXIS	67 in / 1,700 mm	55.1 in / 1,400 mm	55.1 in / 2,000 mm	118.1 in / 3,000 mm
	Y-AXIS	47 in / 1,200 mm	54.7 in / 1,389 mm	54.7 in / 1,780 mm	70.1 in / 1,780 mm
	Z-AXIS	35 in / 900 mm	43.3 in / 1,099 mm	43.3 in / 1,650 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 (30 MIN/CONTINUOUS)*	64.4 hp (48 kW) / 50.9 hp (38 kW) @ 1200 rpm	(10 MIN) 40.2 hp (30 kW) / 29.5 (22 kW) @ 695.5 rpm	(10 MIN) 40.2 hp (30 kW) / 29.5 (22 kW) @ 695.5 rpm	(10 MIN) 40.2 hp (30 kW) / 29.5 (22 kW) @ 695.5 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)*	281.7 ft. lbs (382 Nm) / 223 ft. lbs (302.4 Nm) @ 1200 rpm	(10 MIN-HIGH GEAR) 303.9 ft. lbs (412 Nm) @ 695.5 rpm (CONT. LOW GEAR) 1,106.3 ft. lbs (1,500 Nm) @ 695.5 rpm (CONT. HIGH GEAR) 22.8 ft. lbs (302 Nm) @ 695.5 rpm	(10 MIN-HIGH GEAR) 303.9 ft. lbs (412 Nm) @ 695.5 rpm (CONT. LOW GEAR) 1,106.3 ft. lbs (1,500 Nm) @ 695.5 rpm (CONT. HIGH GEAR) 22.8 ft. lbs (302 Nm) @ 695.5 rpm	(10 MIN-HIGH GEAR) 303.9 ft. lbs (412 Nm) @ 695.5 rpm (CONT. LOW GEAR) 1,106.3 ft. lbs (1,500 Nm) @ 695.5 rpm (CONT. HIGH GEAR) 22.8 ft. lbs (302 Nm) @ 695.5 rpm
	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 / 120 mm
	MAXIMUM TOOL LENGTH	15.7 in / 400 mm	11.8 in / 300 mm	15.7 in / 400 mm	15.7 in / 400 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	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	237.6 x 182.9 x 130.4 in / 6,036 x 4,646 x 3,313 mm	218.4 x 207.3 x 132.7 in / 5,598 x 5,272 x 3,370 mm	212.97 x 254.22 x 148.23 in / 6,711 x 5,781 x 3,765 mm	264.7 x 287.6 x 150.0 in / 6,725 x 7,304 x 3,800 mm
	MACHINE WEIGHT	41,381 lb / 18,770 kg	42,328 lb / 19,200 kg	52,808 lb / 23,500 kg	56,218 lb / 25,500 kg

\* HBMX55i, HBMX80i, HBMX120i listed with 10 min. peaks and high/low-gear torques.

Note: \* With Ultimotion®

# TM/M 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	15.85 in / 402.5 mm	23.49 in / 597 mm	29.29 in / 744 mm	39.6 in / 1,006 mm
	SWING OVER BED DIAMETER	15.94 in / 405 mm	20.67 in / 525 mm	22.9 in / 582 mm	26.77 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	12.44 in / 316 mm	14 in / 356 mm	17.7 in / 450 mm	20.1 in / 510 mm
	MAXIMUM TURNING LENGTH	13.39 in / 340 mm	20.67 in / 525 mm	29.84 in / 758 mm	39.4 in / 1000 mm
	MAXIMUM BAR CAPACITY	1.75 in / 45 mm	2.5 in / 64 mm	3 in / 76 mm	4 in / 102 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	21.65 in / 550 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
	SPINDLE POWER (30 MIN/CONTINUOUS)	15.42 hp (11.5 kW) / 10.06 hp (7.5 kW) @ 1090 rpm	25.48 hp (19 kW) / 20.12 hp (15 kW) @ 1000 rpm	24.81 hp (18.5 kW) / 20.12 HP (15 kW) @ 600 rpm	53.64 hp (40 kW) / 40.23 hp (30 kW) @ 868 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	74.3 ft. lbs (100.7 Nm) / 48.45 ft. lbs (65.7 Nm) @ 1090 rpm	133.83 ft. lbs (100.7 Nm) / 105.65 ft. lbs (43.2 Nm) @ 1000 rpm	217.61 ft. lbs (295.9 Nm) / 176.44 ft. lbs (239.2 Nm) @ 600 rpm	324.49 ft. lbs (439.9 Nm) / 243.37 ft. lbs (329.9 Nm) @ 868 rpm
	SPINDLE NOSE	A2-5	A2-6	A2-8	A2-11
	CHUCK DIAMETER	6.0 in / 170 mm	8.2 in / 210 mm	10.0 in / 260 mm	12.0 in / 315 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 / 20 x 20 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	1.25 in / 32 mm	1.5 in / 40 mm	1.5 in / 40 mm	1.5 in / 40 mm
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	1,181 in / 30 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
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	148.08 x 114.96 x 84.41 in / 3,761 x 2,920 x 2,144 mm	170.7 x 122.6 x 86.32 in / 4,336 x 3,114 x 2,193 mm	192.15 x 112.36 x 87.89 in / 4,881 x 2,854 x 2,233 mm	238.98 x 141.4 x 90.73 in / 6,070 x 3,592 x 2,305 mm
	MACHINE WEIGHT	7,121 lb / 3,180 kg	8,885 lb / 4,030 kg	11,054 lb / 5,014 kg	16,535 lb / 6,686 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	TM8MYi	TM10Mi	TM12Mi
CAPACITY	DISTANCE BETWEEN CENTERS	23.5 in / 597 mm	23.5 in / 597 mm	29.3 in / 744 mm	39.6 in / 1,006 mm
	SWING OVER BED DIAMETER	20.7 in / 525 mm	19.29 in / 490 mm	22.9 in / 582 mm	26.8 in / 680 mm
	SWING OVER CROSS SLIDE DIAMETER	11.8 in / 300 mm	19.29 in / 490 mm	15.8 in / 402 mm	20.1 in / 510 mm
	MAXIMUM TURNING DIAMETER	10.1 in / 256 mm	12.6 in / 320 mm	11.6 in / 295 mm	14.2 in / 360 mm
	MAXIMUM TURNING LENGTH	19.57 in / 497 mm	14.77 in / 375 mm	29.1 in / 738 mm	36.9 in / 937 mm
	MAXIMUM BAR CAPACITY	2.5 in / 51 mm	2.5 in / 51 mm	3 in / 76 mm	4 in / 102 mm
TRAVEL	X-AXIS	7.8 in / 198 mm	8.07 in / 205 mm	9.8 in / 250 mm	12.0 in / 315 mm
	Y-AXIS	–	+/- 2.17 in / 55 mm	–	–
	Z-AXIS	21.7 in / 551 mm	21.65 in / 550 mm	31.1 in / 790 mm	40 in / 1,016 mm
MAIN SPINDLE	MAXIMUM SPEED HIGH GEAR	4,000 rpm	4,000 rpm	3,000 rpm	2,800 rpm
	SPINDLE POWER (30 MIN/CONTINUOUS)	17 hp (12.7 kW) / 15.3 hp (11.4 kW) @ 1112 rpm	17 hp (12.7 kW) / 15.5 hp (11.4 kW) @ 1112 rpm	40.63 hp (30.3 kW) / 32.72 hp (24.4 kW) @ 857 rpm	40.63 hp (30.3 kW) / 32.72 hp (24.4 kW) @ 600 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	108.56 ft. lbs (147.2 Nm) / 72.21 ft. lbs (97.9 Nm) @ 824 rpm	108.4 ft. lbs (147.0 Nm) / 72.4 ft. lbs (98.1 Nm) @ 824	259.36 ft. lbs (351.3 Nm) / 200.51 ft. lbs (271.17 Nm) @ 823 rpm	379.52 ft. lbs (502.3 Nm) / 286.44 ft. lbs (388.3 Nm) @ 576 rpm
	SPINDLE NOSE	A2-6	A2-6	A2-8	A2-11
	CHUCK DIAMETER	8.0 in / 210 mm	8.0 in / 210 mm	10.0 in / 260 mm	12 in / 305 mm
TURRET	TOOL TYPE	VDI 30	BMT 55	VDI 40	VDI 50
	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	1.25 in / 32 mm	1.5 in / 40 mm	1.97 in / 50 mm
LIVE SPINDLE	MAXIMUM SPEED	5,000 rpm	5,000 rpm	5,000 rpm	4,000 rpm
	MAXIMUM TORQUE	21.6 ft. lbs / 24.3 Nm	27.9 ft. lbs / 37.8 Nm	34.75 ft. lbs / 47.1 Nm	49.96 ft. lbs / 63.7 Nm
	SPINDLE POWER	6.17 hp / 4.6 kW @ 1,500 rpm	16 hp / 11.9 kW	9.92 hp / 7.4 kW @ 1,500 rpm	13.41 hp / 10 kW @ 1,500 rpm
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	1,181 in / 30 m per min
	RAPID TRAVERSE Y-AXIS	–	472 in / 12 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
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	175.84 x 126.06 x 86.32 in / 4,466 x 3,202 x 2,193 mm	182.53 x 127.74 x 103.07 in / 4,636 x 3,245 x 2,618 mm	191.06 x 132.09 x 87.89 in / 4,853 x 3,355 x 2,233 mm	239 x 121.67 x 90.7 in 6,072 x 3,090 x 2,305 mm
	MACHINE WEIGHT	9,700 lb / 4,400 kg	9,899 lb / 4,490 kg	11,023 lb / 5,000 kg	16,535 lb / 7,496 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!

SPECIFICATIONS		TMX8i	TMX10i	TMX8MYi	TMX10MYi	TMX8MYSi	TMX10MYSi
CAPACITY	DISTANCE BETWEEN CENTERS	29.7 in / 754 mm	33.54 in / 852 mm	29.7 in / 754 mm	33.6 in / 854 mm	29.7 in / 754 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	16.3 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	24.94 in / 634 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 / 64 mm	3 in / 76 mm	2.5 in / 64 mm	3 in / 76 mm	2.5 in / 64 mm	3 in / 76 mm
TRAVEL	X-AXIS	8.0 in / 203 mm	9.15 in / 232.5 mm	11.24 in / 286 mm	12.0 in / 305 mm	11.24 in / 285 mm	12.0 in / 305 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	–	–	+/- 2.2 in / 55 mm	+/- 2.2 in / 55 mm	+/- 2.2 in / 55 mm	+/- 2.16 in / 55 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	4,500 rpm	3,500 rpm	4,500 rpm	3,500 rpm	4,500 rpm	3,500 rpm
	SPINDLE POWER (30 MIN/CONTINUOUS)	31.11 hp (23.3 kW) / 22.26 hp (16.6 kW) @ 1058 rpm	31.11 hp (23.3 kW) / 22.26 hp (16.6 kW)	33.5 hp (25 kW) / 23.1 hp (16.6 kW)	37.6 hp (28 kW) / 32.2 hp (24 kW)	33.5 hp (25 kW) / 23.1 hp (17.2 kW)	37.6 hp (28 kW) / 32.2 hp (24 kW)
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	154.4 ft. lbs (209.3 Nm) / 96.76 ft. lbs (131.2 Nm) @ 1208 rpm	218.74 ft. lbs (296.6 Nm) @ 747 rpm/ 137.08 ft. lbs (185.8 Nm) @ 853 rpm	176.1 ft. lbs (238.7 Nm) / 121.2 ft. lbs (164.2 Nm)	197 ft. lbs (267.4 Nm) / 169.1 ft. lbs (229.2 Nm)	176.1 ft. lbs (238.7 Nm) / 121.2 ft. lbs (164.2 Nm)	197 ft. lbs (267.4 Nm) / 169.1 ft. lbs (229.2 Nm)
	SPINDLE POWER	50.3 hp / 37.5 kW @ 1,000 rpm	50.3 hp / 37.5 kW @ 1,000 rpm	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	8.27 in / 210 mm	10.24 in / 260 mm	8.27 in / 210 mm	10.0 in / 254 mm	8.27 in / 210 mm	10 in / 254 mm
TURRET	TOOL TYPE	Slotted Disc	Slotted Disc	BMT65 / DIN 1809	BMT65 / DIN 1809	BMT65 / DIN 1809	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
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	–	–	5,000 rpm	5,000 rpm	5,000 rpm	5,000 rpm
	MAXIMUM TORQUE	–	–	20.4 ft. lbs / 27.6 Nm	20.4 ft. lbs / 27.6 Nm	20.4 ft. lbs / 27.6 Nm	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	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
	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	472 in / 12 m per min	472 in / 12 m per min	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
DIMENSIONS	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	207.41 x 137.59 x 90.87 in. / 5,268 x 3,495 x 2,253 mm	207.57 x 137.17 x 90.87 in. / 5,272 x 3,484 x 2,257 mm	211.34 x 137.56 x 105.24 in. / 5,368 x 3,494 x 2,552 mm	211.27 x 137.48 x 105.24 in. / 5,366 x 3,492 x 2,552 mm	217.29 x 137.56 x 105.24 in. / 5,368 x 3,494 x 2,552 mm	211.27 x 137.48 x 105.24 in. / 5,366 x 3,549 x 2,552 mm
	MACHINE WEIGHT	15,432 lb / 7,000 kg	13,420 lb / 6,100 kg	16,500 lb / 7,500 kg	15,984 lb / 7,250 kg	16,500 lbs / 7,500 kg	16,976 lb / 7,700 kg

# HURCO CNC Max5 + WinMax<sup>®</sup>

## MAX5 Console + WinMax<sup>®</sup> Control Software

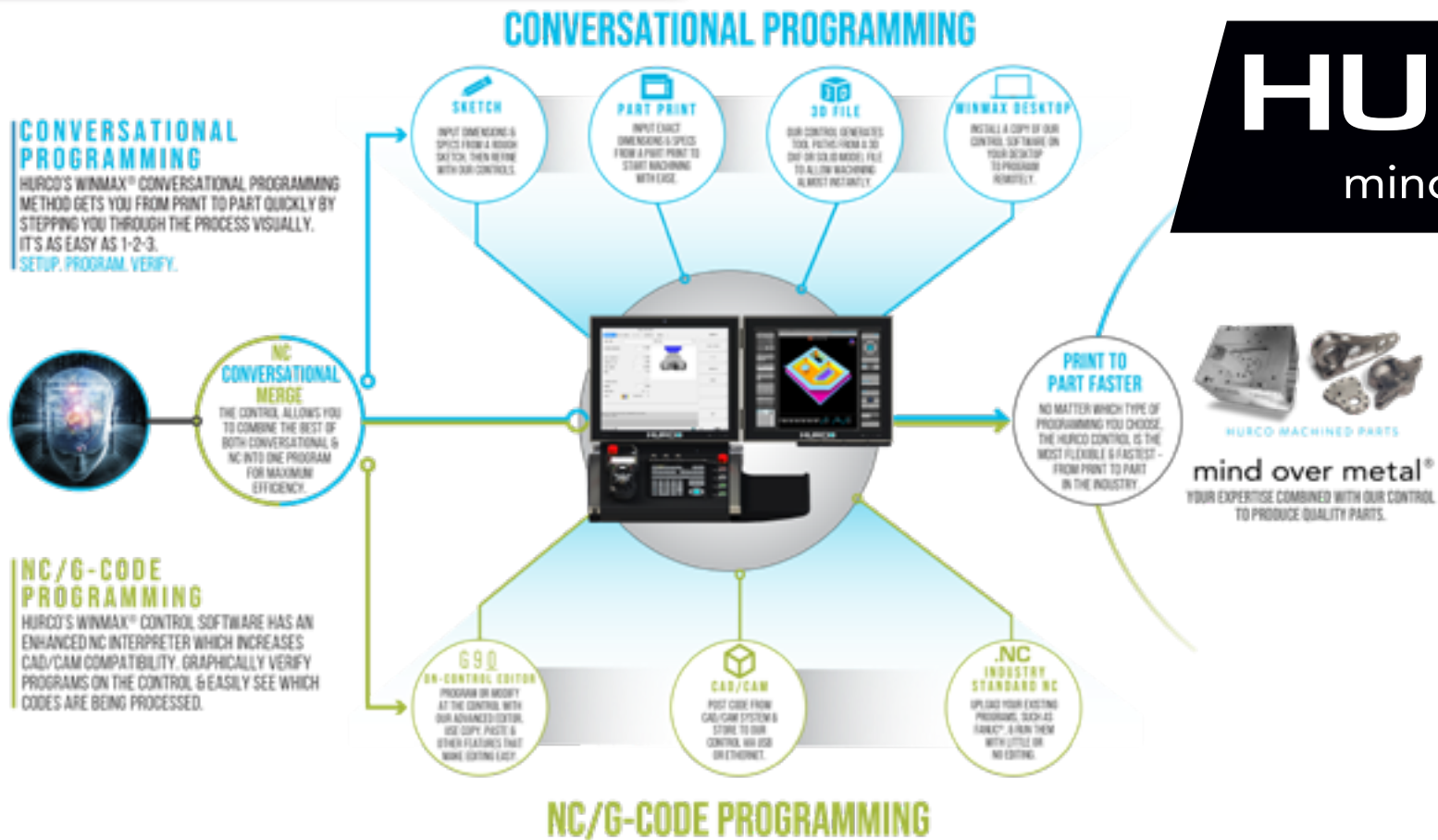


### Industry-Leading Control Specifications (Standard)

- » 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<sup>®</sup> is the most flexible and intuitive control in the industry. WinMax<sup>®</sup> 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



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

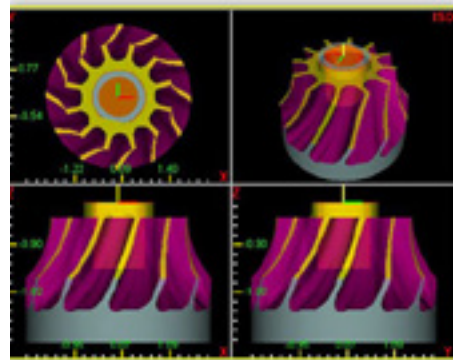
**Conversational** programming simplifies complex operations. Intuitive, user-friendly interface. Easy to learn. Easy to use.

**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!

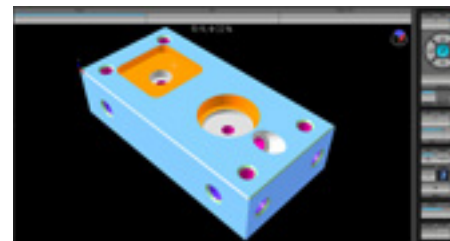


### Auto Interrupt

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

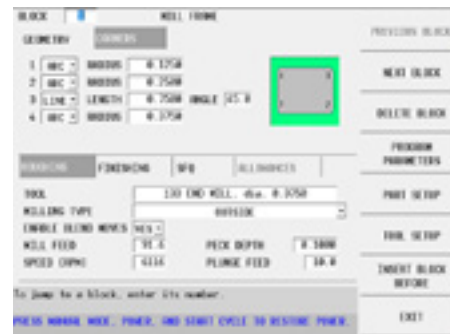
### Data Block Search

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



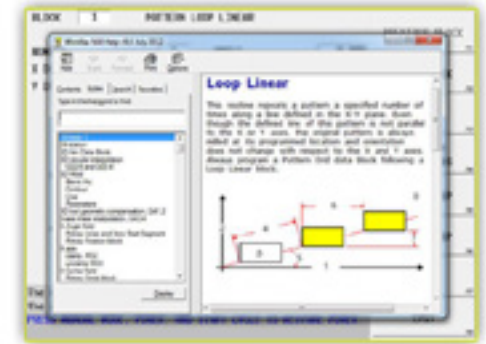
### Enhanced Corner Geometry

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.

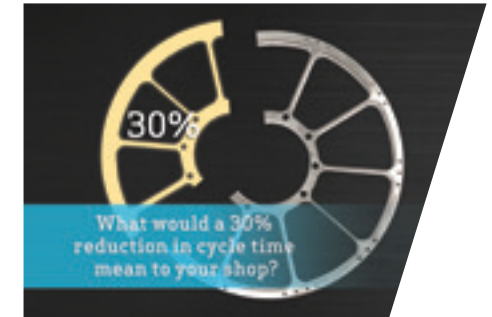


#### Relative Position DRO (Digital Readout)

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

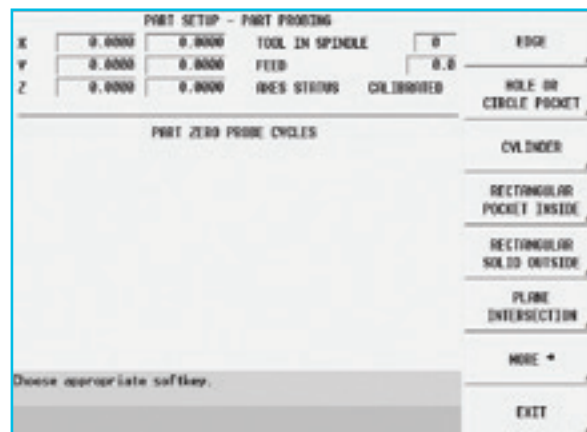
Use Hurco's WinMax® software on your desktop! Programs can be quickly transferred to your CNC machine.





*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?*

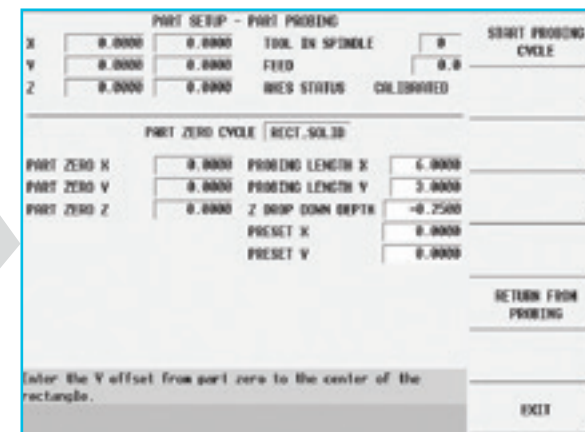
```
N300
M1(TEST 3-CALIBRATE "Z" AXIS-UPDATE-)
(PROBE TOOL OFFSET NUMBER)
(PROTECTED POSITION OVER Z SURFACE)
(MEASURE TOP SURFACE-Z DATUM)
(Protected Positioning Move)
G65 P9810 X1.49Y-4.1F100
G65 P9811 Z-.167 W1
#100=#137
G90G31Z1.
N400
M1(TEST 4-MEASURE CENTER OF RECT POCKET)
(STORED IN WORK OFFSET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

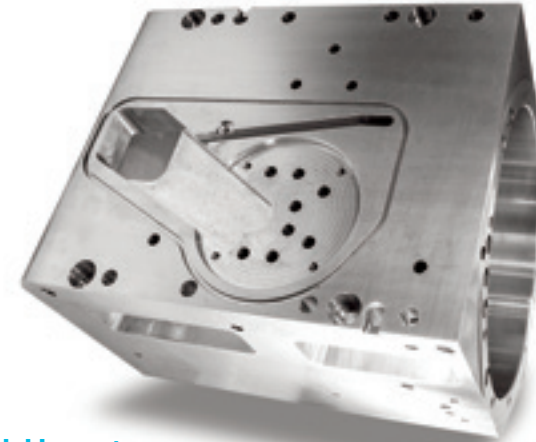
### ***Machinist's Favorite: Hurco Skew Probe Cycles***

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 customer testimonial!*

### HURCO AUTOMATION JOB MANAGER SOFTWARE



#### Easy 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™
- NC Block Lookahead
- Advanced Verification Graphics with Data Block Search
- Estimated Run Time
- Inch/Metric Toggle
- UltiMotion<sup>®</sup>
  - Dynamic Variable Look Ahead capable of up to 10,000 blocks (with Ultimotion<sup>®</sup>)
- Mill Frame with Enhanced Corner Geometry
- NC Work Offsets with Conversational Programming
- Relative Position DRO
- Roughing Stock Allowance
- WinMax<sup>®</sup> 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 (NCP)
- » 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<sup>®</sup> Lettering Package
- » UltiPocket with Helical Ramp Entry
- » Hurco Automation Job Manager

## 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<sup>®</sup> 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
- » Extended Shop Floor

## 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
- » Spindle Harmonic Control
- » Thread Cycle Blocks – inside or outside (straight or tapered)
- » Thread Repair
- » Turret Index Control (Auto/Manual)
- » Tool Library



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 VMX 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

# ACCESSORIES

» Productivity Options

# MILLS

- » **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).



*Tailstock*



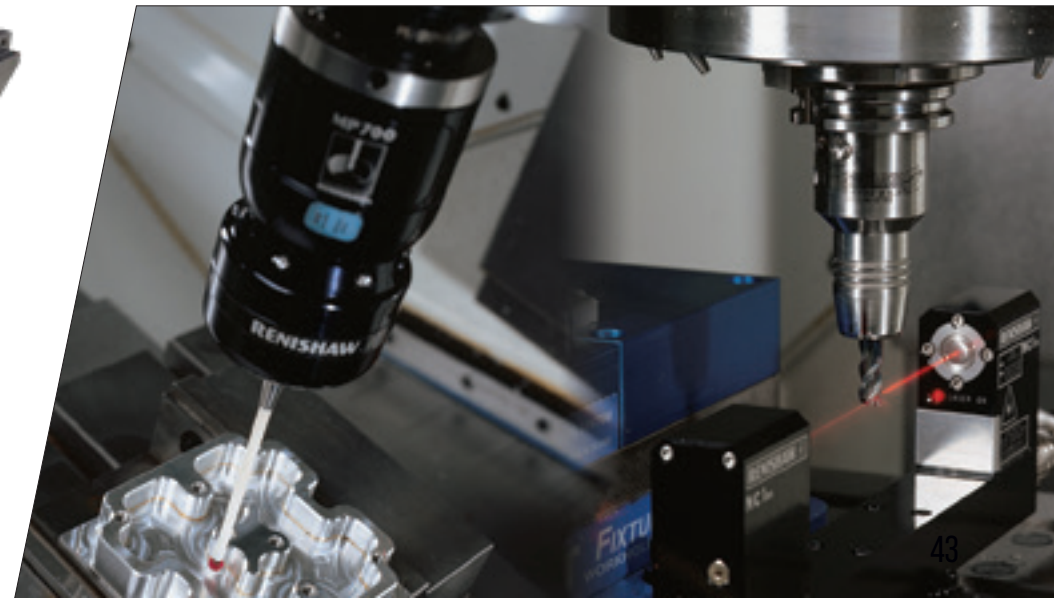
*H400 Rotary Table*



*Tail Support*



*Scan to Learn More about  
Our Accessories*



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.

» **Mist Collector:** This accessory provides a safe, clean environment while also reclaiming evaporated coolant mist.



# 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>	18 <sup>H7</sup>	18 <sup>H7</sup>	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



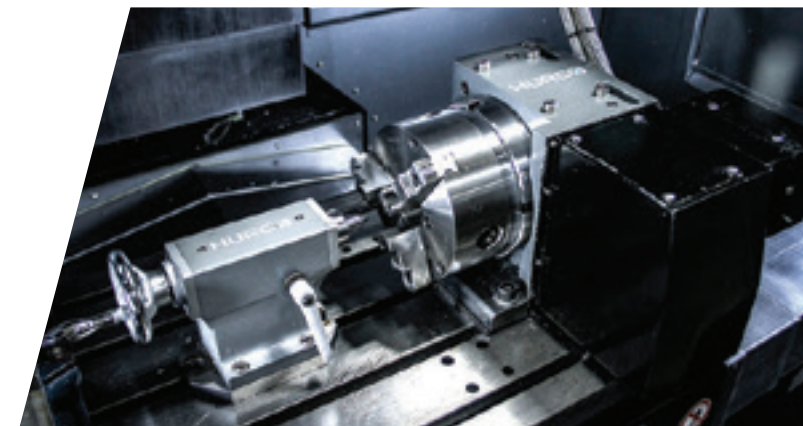
Tail Supports



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	VMX6030i	VMX6030i-50T	VMX64i	VMX64i-50T	VMX84i	VMX84i-50T	BX40i	BX50i	BX50i-50T	BX60i	DCX32i	DCX326i	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	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	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	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	S	
HIGH-TORQUE PACKAGE	-	-	-	-	-	-	-	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	S	O	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	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	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	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	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	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

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	S 12 Station	S 12 Station	S 12 Station	S 12 Station	S 12 Station	S 12 Station	S 12 Station	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 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

Hurco has been advancing the manufacturing industry for over 55 years. From the first computer controlled back gauge in 1969 to our patented UltiMotion® system, we are dedicated to technology innovation that makes manufacturing more efficient and manufacturing companies more profitable.

1968

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

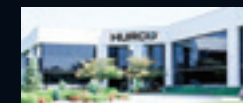
Hurco France established



Hurco Southeast Asia established



Hurco opens new international headquarters



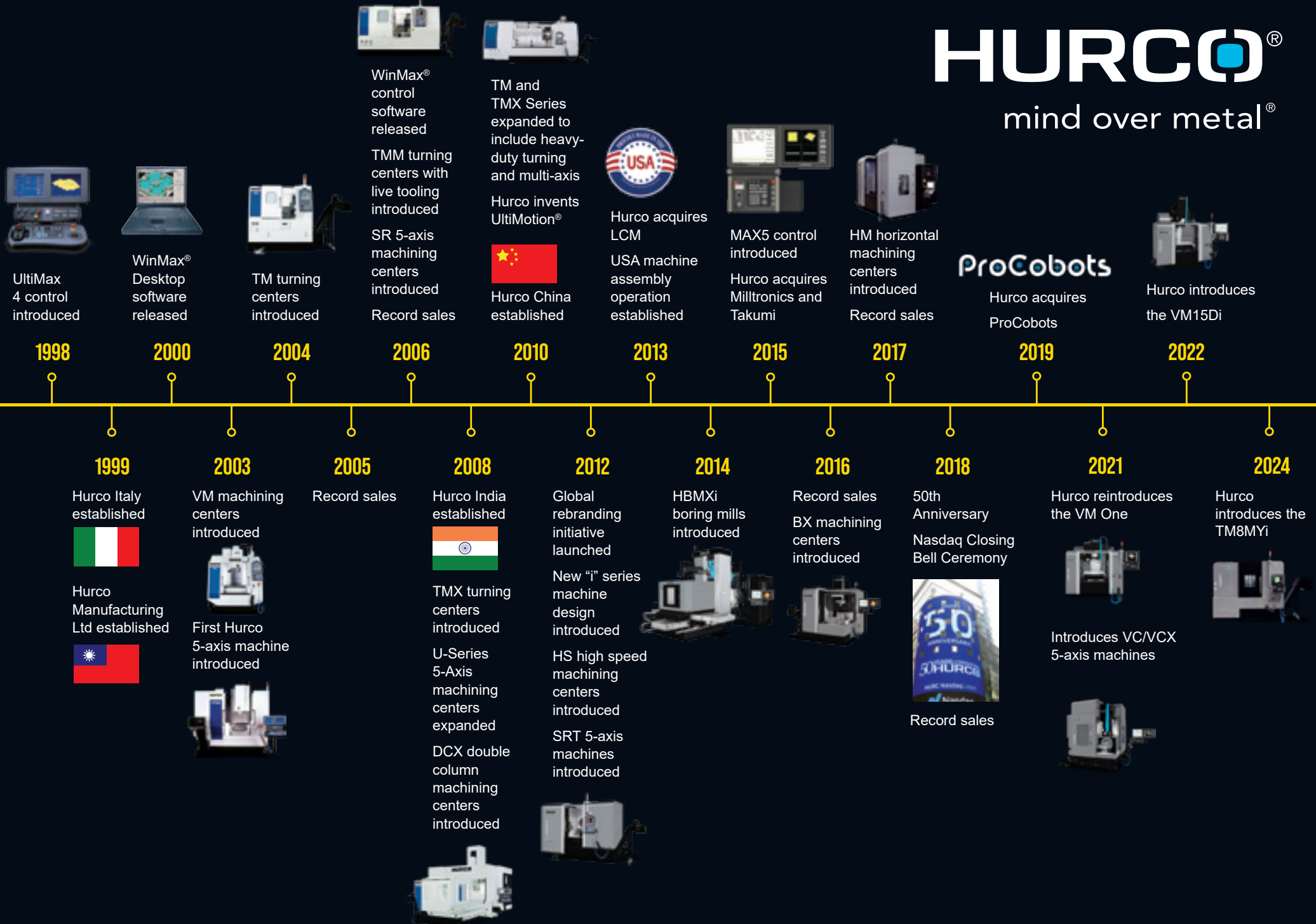
IMS Technologies established to oversee patent licensing

VMX machining centers introduced

UltiMax 3 control introduced

# HURCO®

mind over metal®





**HURCO.com**

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

**HURCO NORTH AMERICA**

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