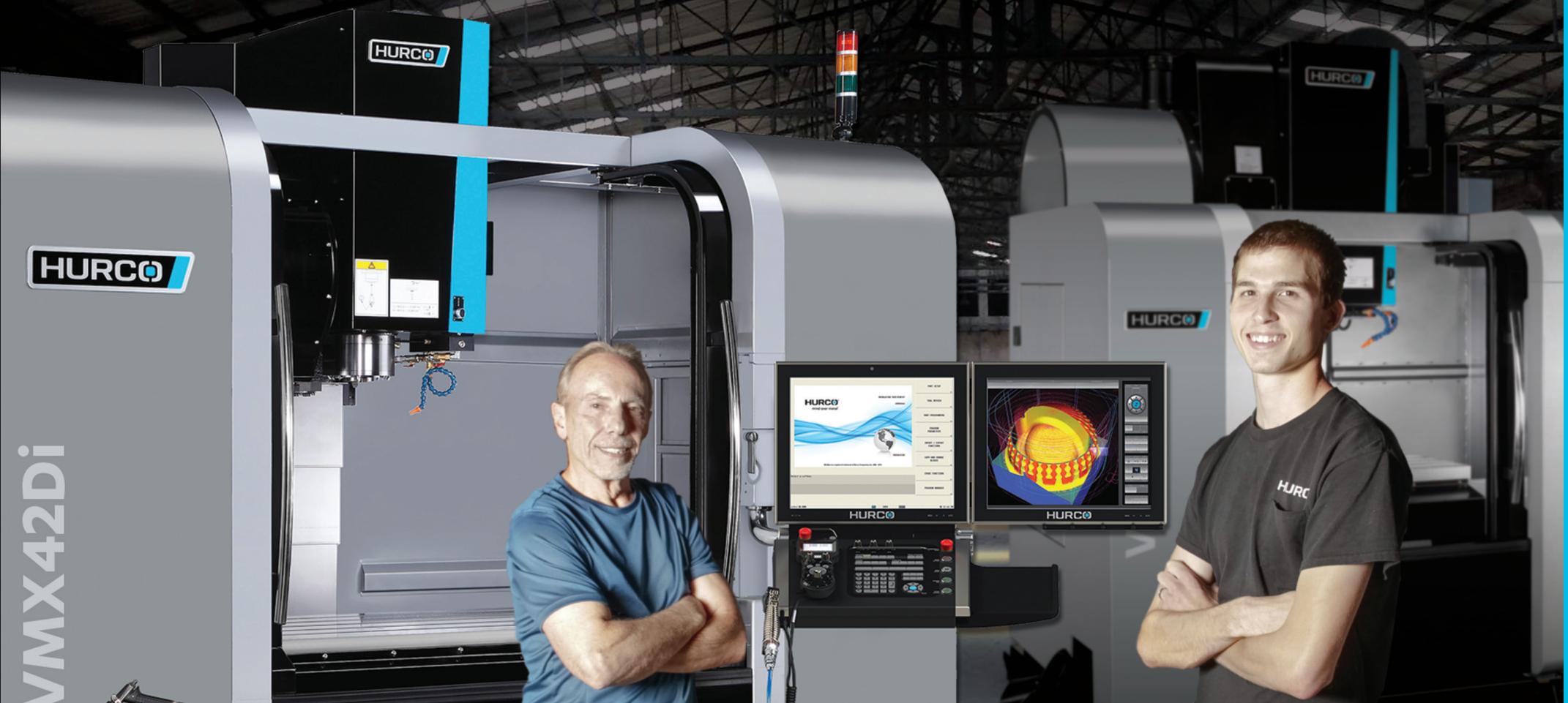


HURCO®



VMX42Di

MACHINING CENTERS TECHNICAL CATALOG / VERTICAL
A CONTROL FOR EVERY GENERATION.

HURCO® PRODUCT LINE-UP

5-AXIS MACHINING CENTERS



VC500i



VCX600i



VM10Ui / VM10UHSi



VMX30Ui



VMX30UHSi

VERTICAL MACHINING CENTERS



HTM30i



VM5i / VM10i / VM10UHSi



VM20i / VM30i



VMX24i / VMX24Di

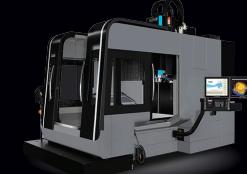


VMX30i / VMX30Di / VMX30UHSi

DOUBLE COLUMN & HORIZONTAL



BX40Ui



BX40i / BX50i / BX60i



HM1700i / HM1700Ri

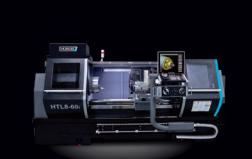


HBMX55i / HBMX80i



HBMX95-5i

TURNING CENTERS



HTL8-60i



TM6i



TM8i / TM10i



TM12i



TM18i

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



VMX42Ui / VMX42UHSi



VMX60Ui



VTXUi



VMX42SRTi / VMX42HSRTi



VMX60SRTi



VMX42SWi / VMX60SWi



VMX84SWi



VMX42i / VMX42Di



VMX50i / VMX50i-50T



VMX6030i /
VMX6030i-50T



VMX64i / VMX64i-50T



VMX84i / VMX84i-50T



HBMX120i



DCX22i / DCX22i-50T



DCX32-5Si / DCX32-5CSI



DCX32i / DCX3226i



DCX42i



TM18Li / TM18LBBi



TMX8i / TMX10i



TMX8MYi / TMX10MYi



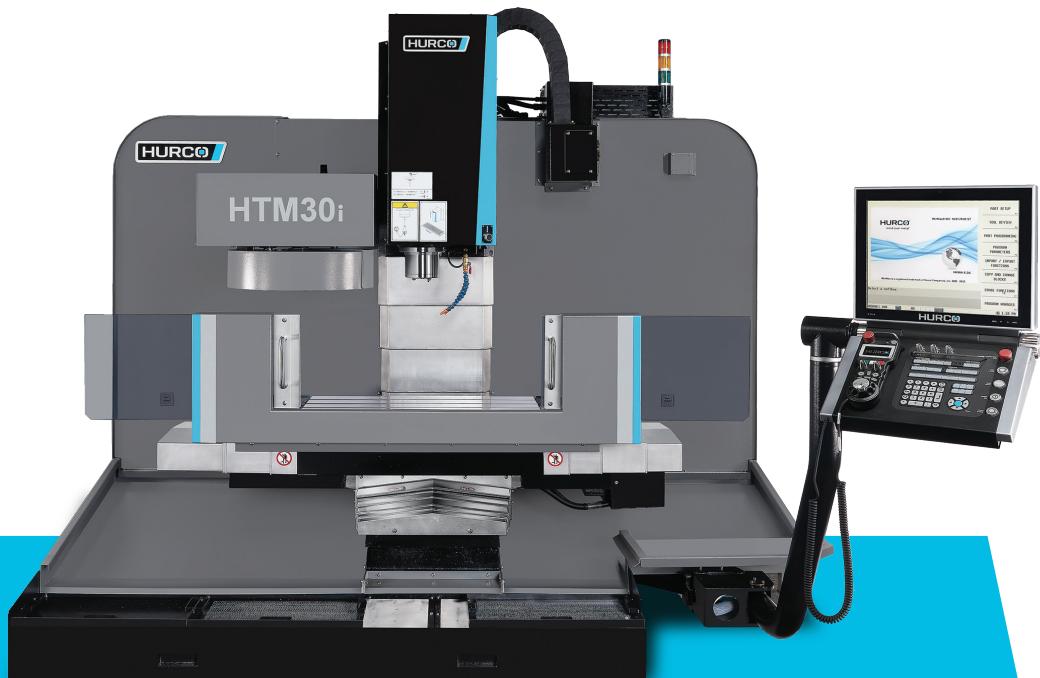
TMX8MYSi / TMX10MYSi



TMM8i



TMM10i / TMM12i



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

Find out more at Hurco.com/WinMax.

Machine Overview

- » 30 x 16 x 20 in (760 x 406 x 508 mm) travels
- » 35.4 x 16.1 in (900 x 410 mm) table, 992 lbs (450 kg) capacity
- » 8,000 RPM spindle
- » 12 hp (9 kW) peak spindle
- » Open-bed design provides easy access to table
- » 16-station ATC (carousel) standard
- » CAT 40 tooling
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive
- » Yaskawa Sigma 5 drives
- » MAX5 ergonomically designed console with 19" LCD screen
- » WinMax Mill Conversational and Industry Standard NC programming

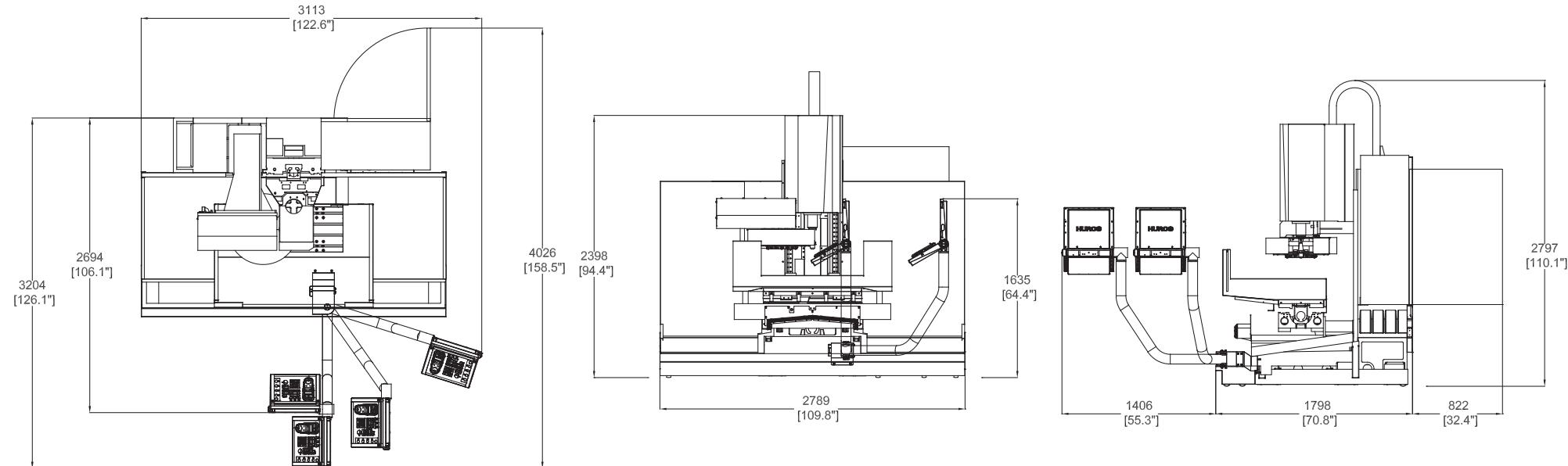
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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

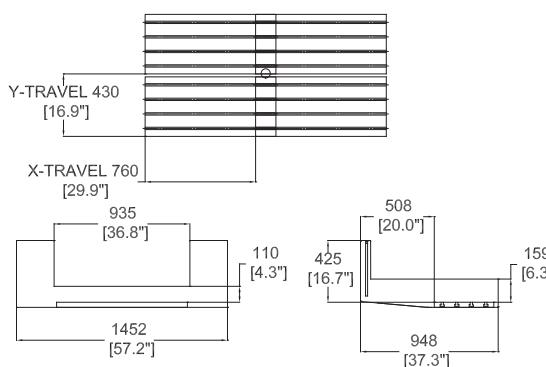
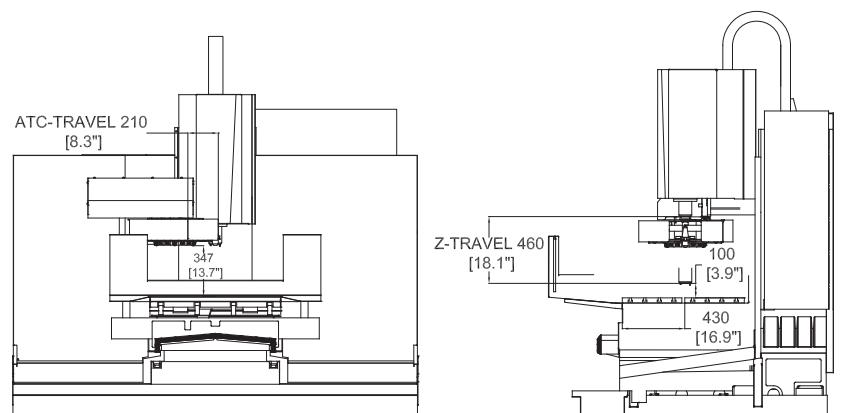
POWER & CAPACITY

HTM30i

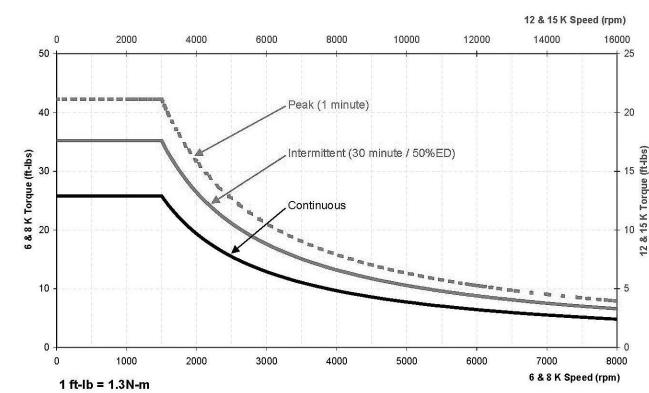


OPERATING DIMENSIONS

INTERIOR CLEARANCES



POWER & TORQUE





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

Find out more at Hurco.com/WinMax.

Machine Overview

- » Small footprint / Large work cube
- » Solid cast iron frame
- » One-piece machine base
- » 18 x 14 x 14 in (457 x 356 x 356 mm) travels
- » 18 x 14 in (457 x 356 mm) table, 500 lbs (227 kg) capacity
- » 8,000 RPM spindle
- » 10 hp (7.5 kW) peak spindle
- » CAT 40 tooling
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive
- » Brushless AC Servos
- » Larger, heavy-duty linear rails on all three axes
 - Mounted to a machined shoulder for increased rigidity
 - Strategically spaced for increased strength
 - Wedge locked to a machined shoulder to reduce vibration instead of faster, cheaper face-milled process
- » Electric, side-mounted, 16-station, swing-arm ATC
- » 3.5 second tool-to-tool ATC time
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with 19" LCD screen
- » WinMax Mill Conversational and Industry Standard NC programming

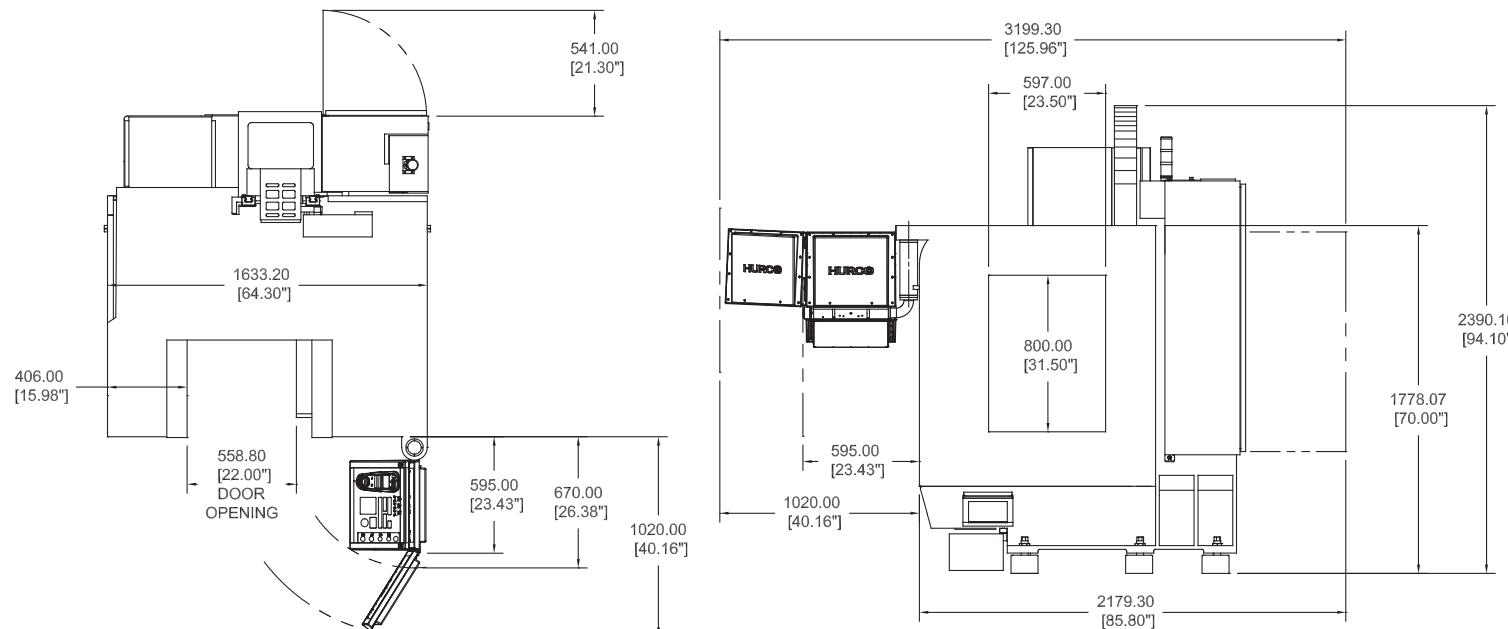
Machine specifications can be found on Pages 55-61

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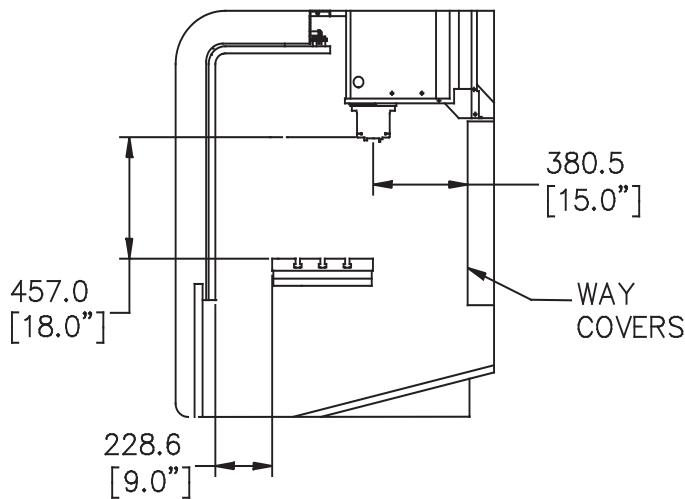
POWER & CAPACITY

VM5i

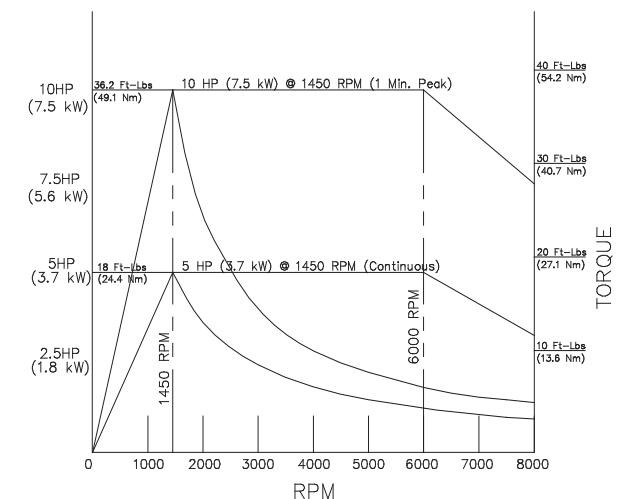


OPERATING DIMENSIONS

INTERIOR CLEARANCES



POWER & TORQUE





Did you know? Data Block Search allows you to select features on the graphics screen, and with the touch of a button, the control will jump to whatever conversational block or line of NC code that created that particular feature. This is an excellent way to navigate a lengthy program file. **Find out more at Hurco.com/WinMax.**

Machine Overview

- » Small footprint / Large work cube
- » Solid cast iron frame
- » One-piece machine base
- » 26 x 16 x 20 in (660 x 406 x 508 mm) travels
- » 30 x 16 in (762 x 406 mm) table, 1,500 lbs (680 kg) capacity
- » 12,000 RPM spindle
- » 15 hp (11.0 kW) peak spindle
- » BIG-PLUS® spindle system / CAT 40 tooling
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » Larger, heavy-duty linear rails on all three axes
 - Mounted to a machined shoulder for increased rigidity
 - Strategically spaced for increased strength
 - Wedge locked to a machined shoulder to reduce vibration instead of faster, cheaper face-milled process
- » Electric, side-mounted, 20-station, swing-arm ATC
- » 2.5 second tool-to-tool ATC time
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with 19" LCD screen
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®

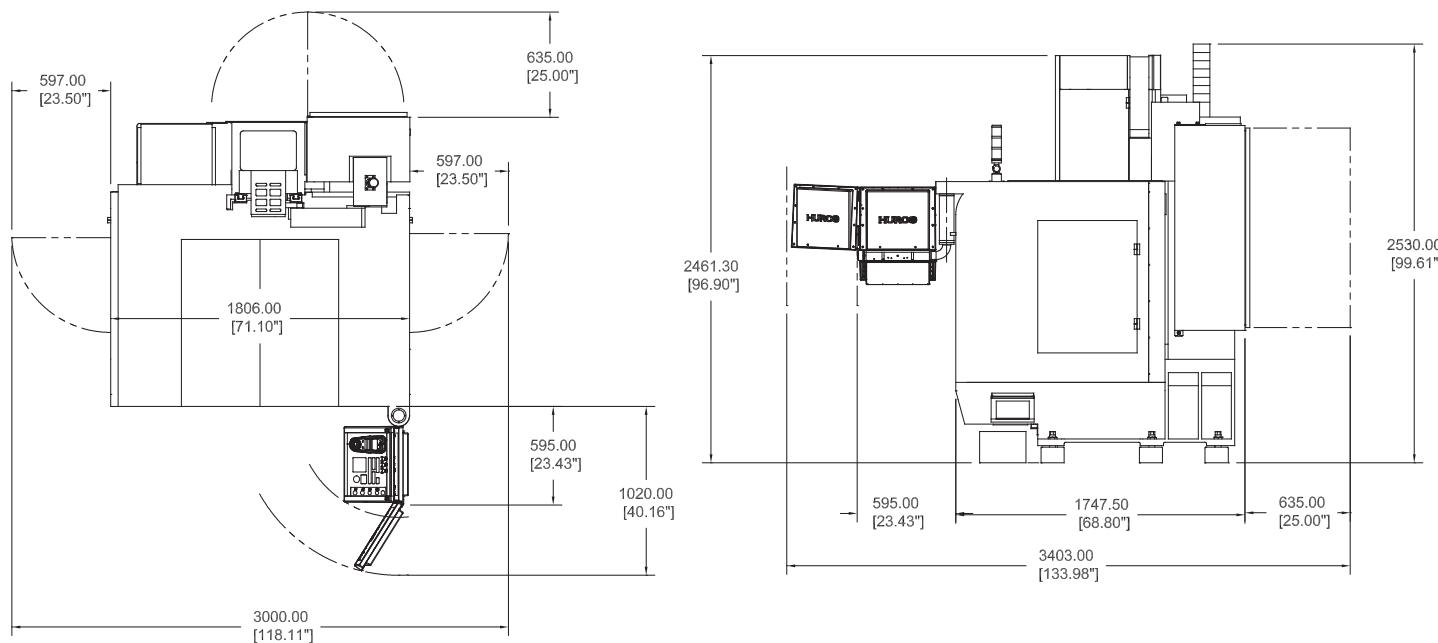
Machine specifications can be found on Pages 55-61

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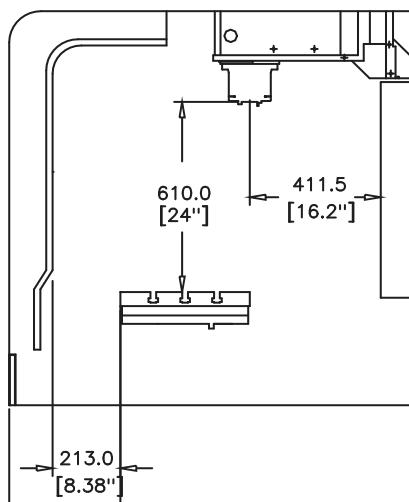
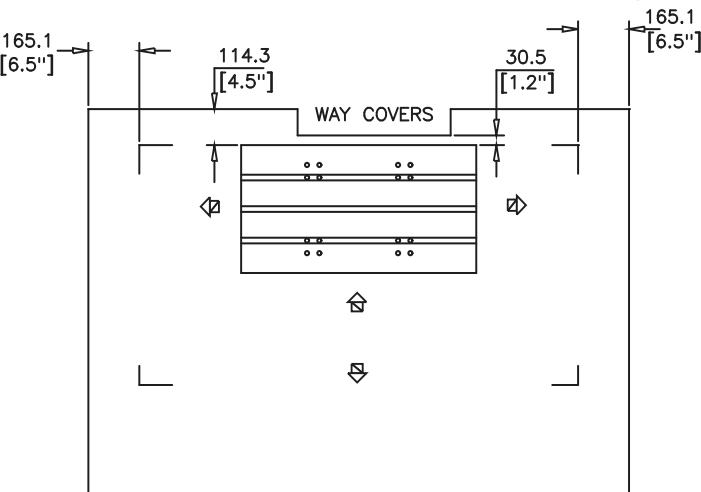
POWER & CAPACITY

VM10i

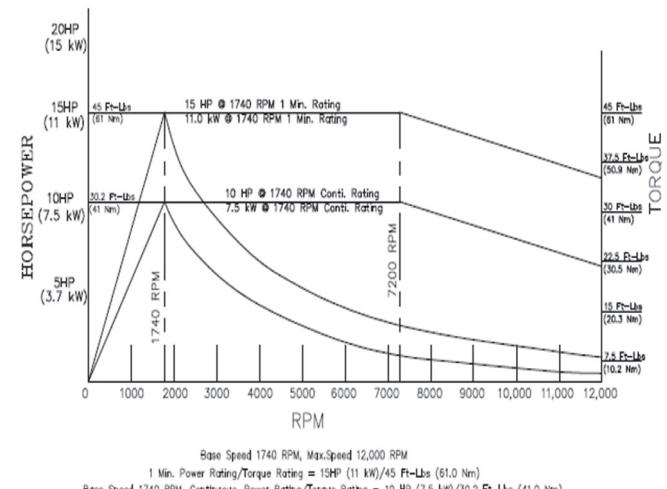


OPERATING DIMENSIONS

INTERIOR CLEARANCES



POWER & TORQUE





Did you know? WinMax lets you merge an existing NC file with any conversational program, and allows that NC file to be used within a conversational pattern block without changing the G-code. Conversational blocks such as: transform plane, mirror image, scale, pattern loop rectangular, pattern loop rotate, or any other conversational pattern block are available within the Hurco control.

Find out more at Hurco.com/WinMax.

Machine Overview

- » 26 x 16 x 20 in (660 x 406 x 508 mm) travels
- » 30 x 16 in (762 x 406 mm) table, 750 lbs (340.2 kg) capacity
- » 20,000 RPM high speed spindle / BT30 tooling
- » 11.4 hp (8.5 kW) peak spindle
- » Brushless AC Servos
- » Integral motorized spindle equipped with ABEC-7 ceramic hybrid bearings
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Small footprint / Large work cube
- » Solid cast iron frame
- » One-piece machine base
- » Larger, heavy-duty linear rails on all three axes
 - Mounted to a machined shoulder for increased rigidity
 - Strategically spaced for increased strength
 - Wedge locked to a machined shoulder to reduce vibration instead of faster, cheaper face-milled process
- » Electric, side-mounted, 20-station, swing-arm ATC
- » 2.5 second tool-to-tool ATC time
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with 19" LCD screen
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®

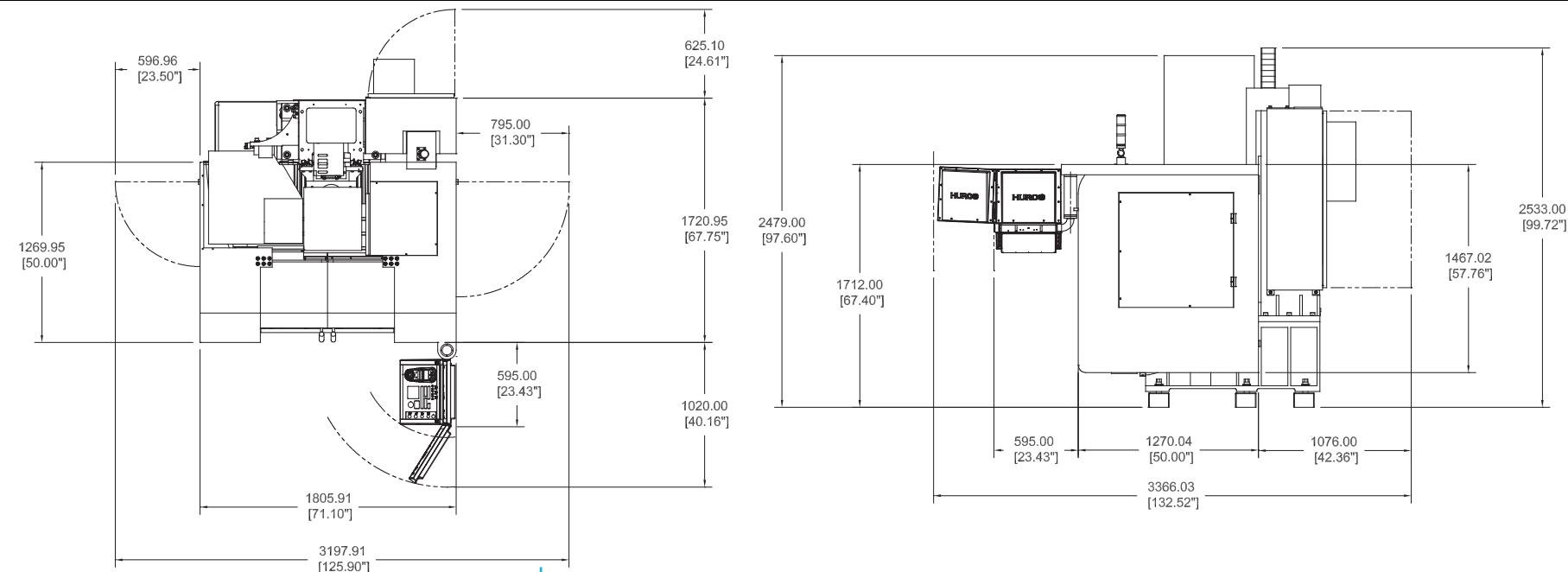
Machine specifications can be found on Pages 55-61

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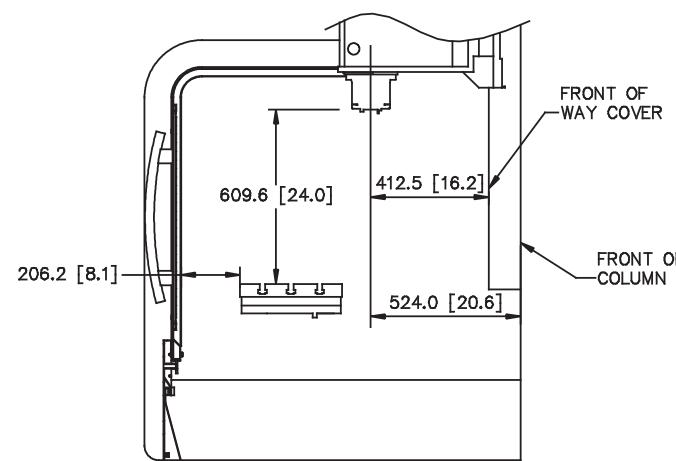
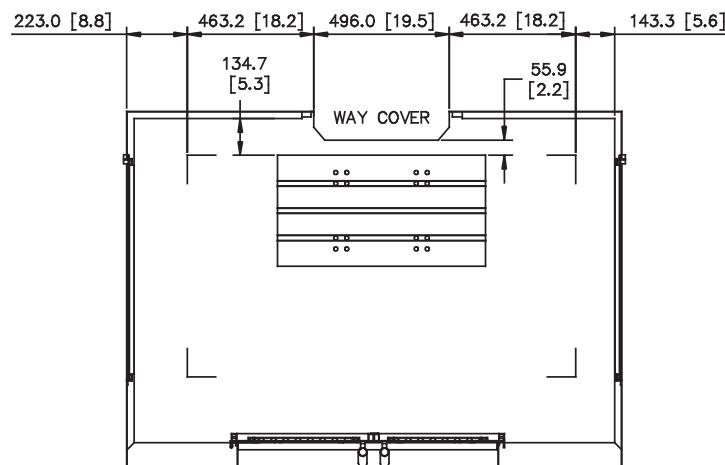
POWER & CAPACITY

VM10HSi

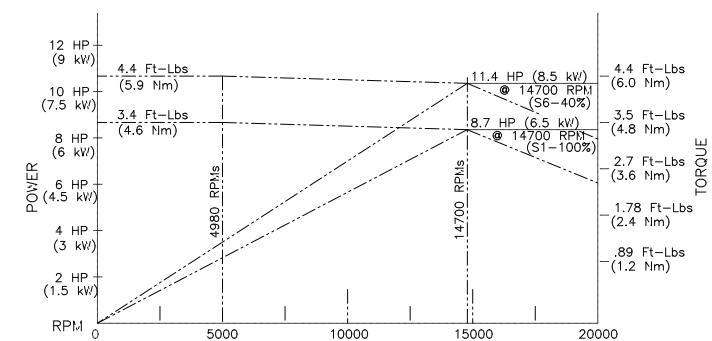


OPERATING DIMENSIONS

INTERIOR CLEARANCES



POWER & TORQUE





Did you know? Hurco's conversational part and tool probing routines make probing and setup extremely easy. You also get routines to probe a part for skew – eliminating the need to indicate square on large parts or on very low-volume work.

Find out more at Hurco.com/WinMax.

Machine Overview

- » Small footprint / Large work cube
- » Solid cast iron frame
- » One-piece machine base
- » 40 x 20 x 20 in (1,016 x 508 x 508 mm) travels
- » 46 x 20 in (1,168 x 508 mm) table, 2,000 lbs (907 kg) capacity
- » BIG-PLUS® spindle system / CAT 40 tooling
- » 12,000 RPM spindle
- » 20 hp (15 kW) peak spindle
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » Larger, heavy-duty linear rails on all three axes
 - Mounted to a machined shoulder for increased rigidity
 - Strategically spaced for increased strength
 - Wedge locked to a machined shoulder to reduce vibration instead of faster, cheaper face-milled process
- » Electric, side-mounted, 20-station, swing-arm ATC
- » 2.5 second tool-to-tool ATC time
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with 19" LCD screen
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®

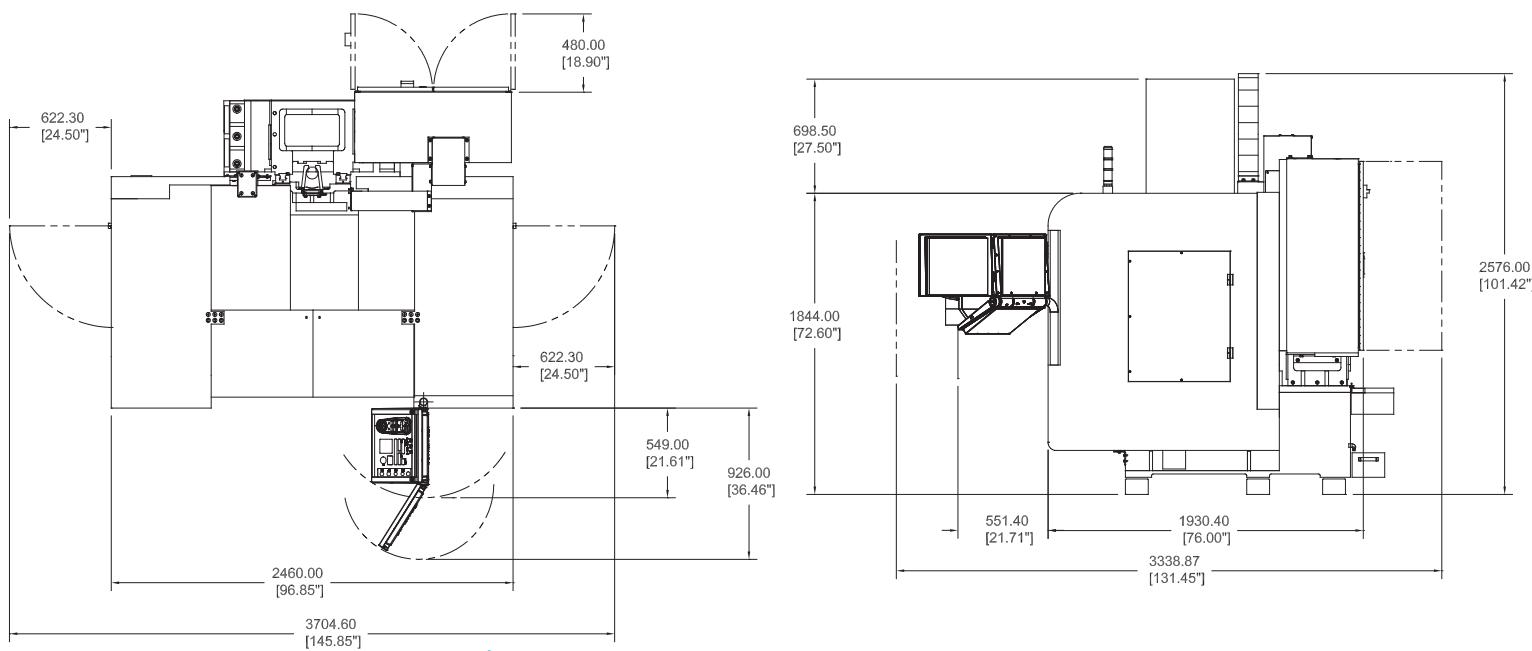
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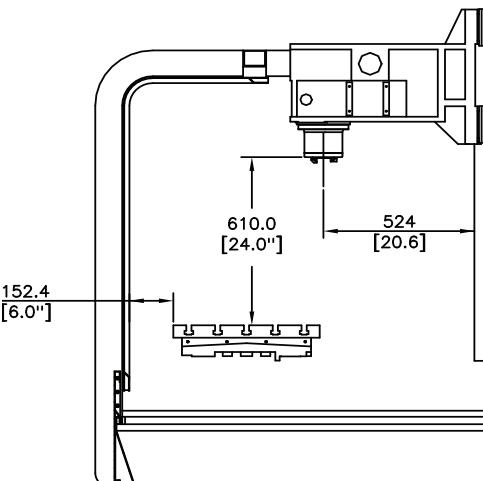
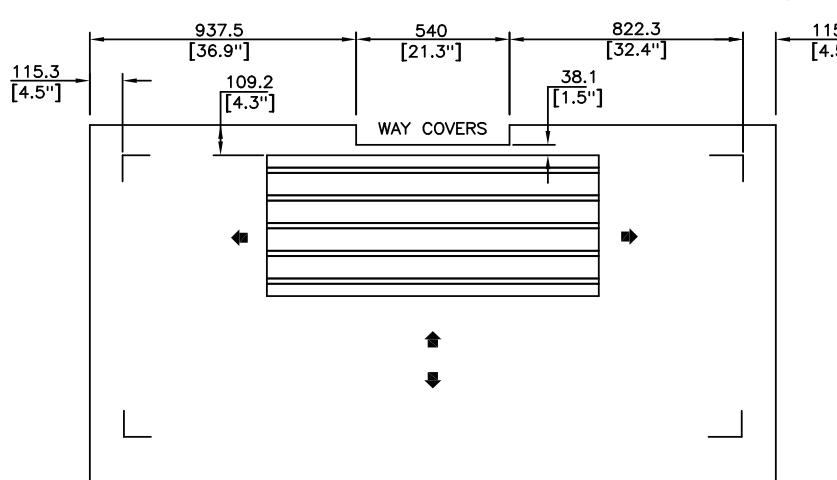
POWER & CAPACITY

VM20i

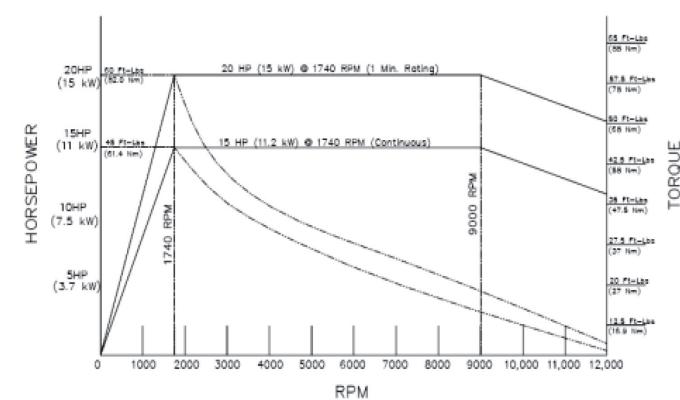


OPERATING DIMENSIONS

INTERIOR CLEARANCES



POWER & TORQUE



Base Speed 1740 RPM, Max Speed 12,000 RPM
1 Min. Power Rating/Torque Rating = 20HP (15 kW)/60.4 Ft-Lbs (82.0 Nm)
Base Speed 1740 RPM, Continuous, Power Rating/Torque Rating = 15 HP (11.2 kW)/45.3 Ft-Lbs (61.4 Nm)



Did you know? By simply pressing the HELP control button, an interactive help screen will appear with context sensitive data and/or helpful links that correspond to whatever area of the control the operator is currently viewing on screen. You can also search the Hurco Control's interactive help system by typing key words into the search box. BONUS: the interactive help system is updated automatically if you update your control's software so the help system always matches the control software level of the machine.

Find out more at Hurco.com/WinMax.

Machine Overview

- » Small footprint / Large work cube
- » Solid cast iron frame
- » One-piece machine base
- » 50 x 20 x 20 in (1,270 x 508 x 508 mm) travels
- » 52 x 20 in (1,321 x 508 mm) table, 2,000 lbs (907 kg) capacity
- » BIG-PLUS® spindle system / CAT 40 tooling
- » 12,000 RPM spindle
- » 20 hp (15 kW) peak spindle
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » Larger, heavy-duty linear rails on all three axes
 - Mounted to a machined shoulder for increased rigidity
 - Strategically spaced for increased strength
 - Wedge locked to a machined shoulder to reduce vibration instead of faster, cheaper face-milled process
- » Electric, side-mounted, 20-station, swing-arm ATC
- » 2.5 second tool-to-tool ATC time
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with 19" LCD screen
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®

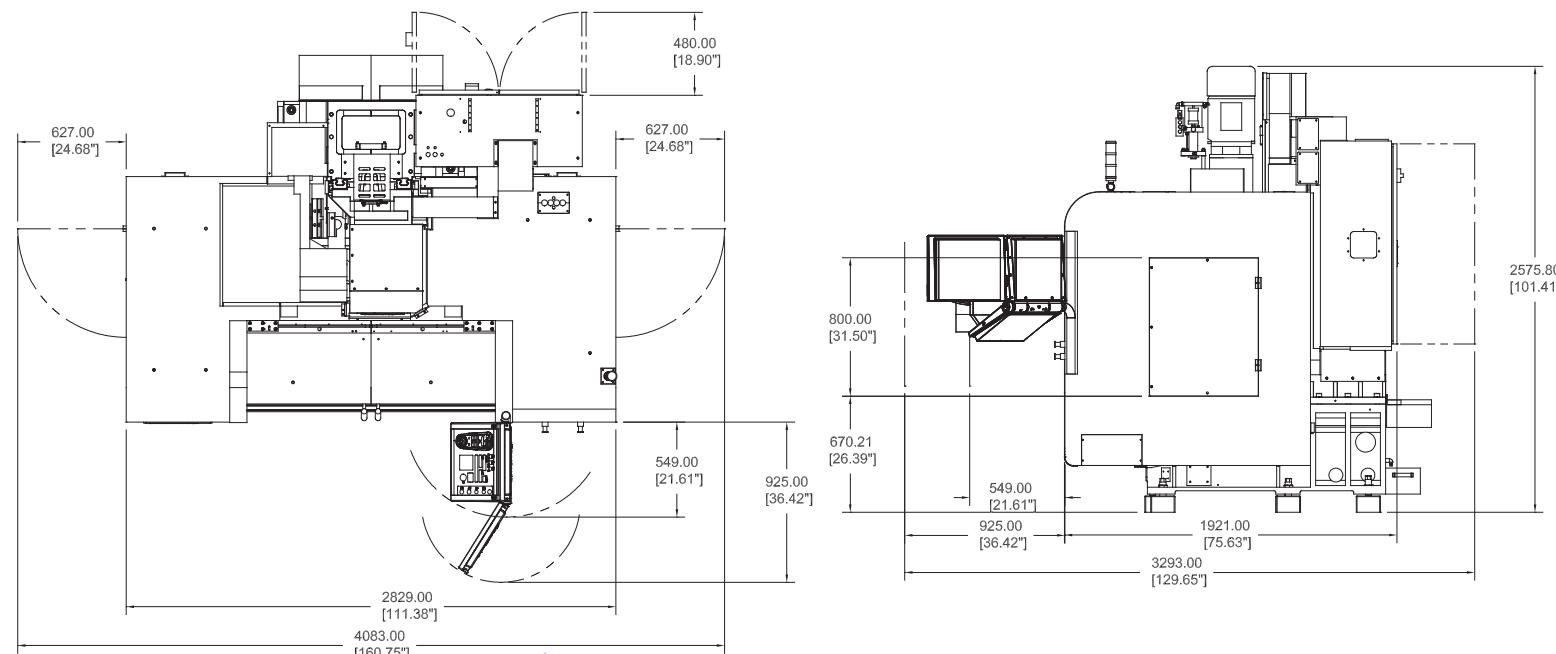
Machine specifications can be found on Pages 55-61

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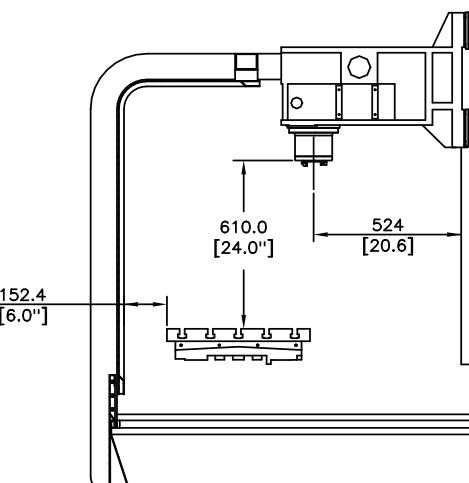
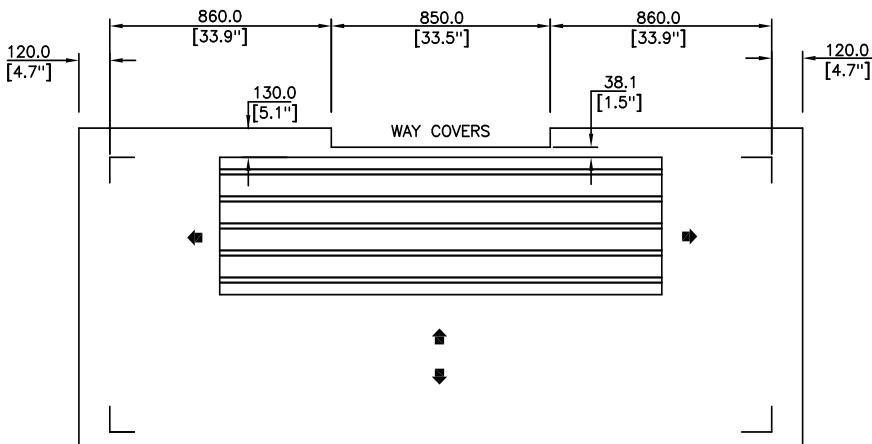
POWER & CAPACITY

VM30i

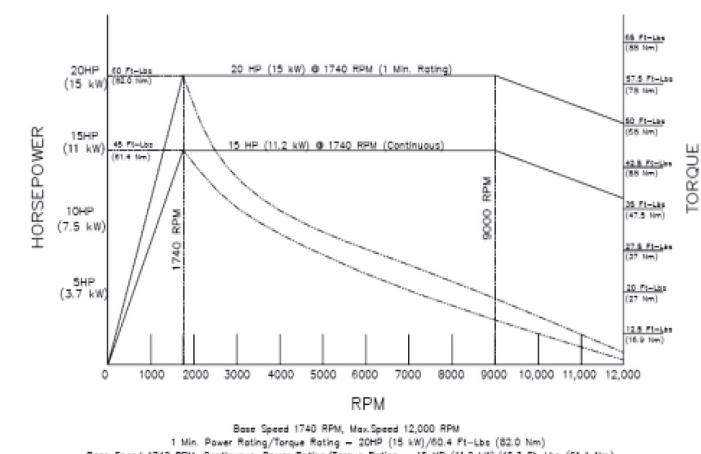


OPERATING DIMENSIONS

INTERIOR CLEARANCES



POWER & TORQUE



VMX24i/VMX24Di

Big capabilities in a small package



Did you know? The Advanced Verification Graphics on the Hurco WinMax control has the ability to create a solid model of the part being programmed. In addition to using a simple box or cylinder shape, you can import an STL file to use as your stock geometry. This is perfect when programming secondary work, castings, or forgings. WinMax also lets you save and re-import graphics files as an STL file. This makes creating stock geometry files for secondary ops a breeze.

Find out more at Hurco.com/WinMax.

Machine Overview

- » 24 x 20 x 24 in (610 x 508 x 610 mm) travels
- » 30 x 20 in (760 x 508 mm) table, 3,000 lbs (1,360 kg) capacity
- » BIG-PLUS® spindle system / CAT 40 tooling
 - 12 hp (9.0 kW) peak spindle
 - Dual-wound 12,000 RPM spindle provides more torque at a lower base speed without requiring a gearbox (VMX24i)
 - 15,000 RPM direct-drive spindle for VMX24Di
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » Solid cast iron frame
- » Generous Y-axis travel
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Direct coupled ballscrews
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Ceramic hybrid spindle bearings with lifetime grease
- » 30-station electric swing-arm ATC
- » 2 second tool-to-tool ATC time
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®
- » Adjustable height control arm

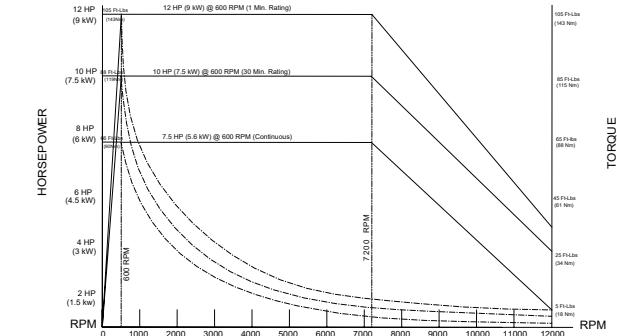
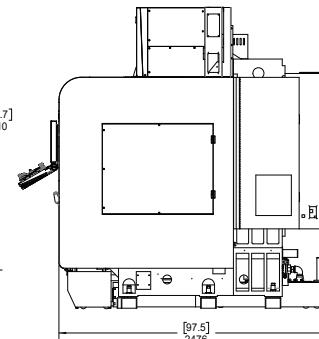
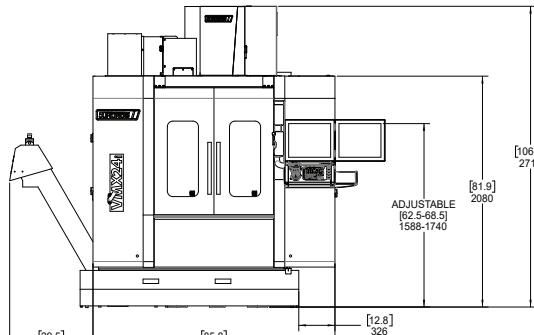
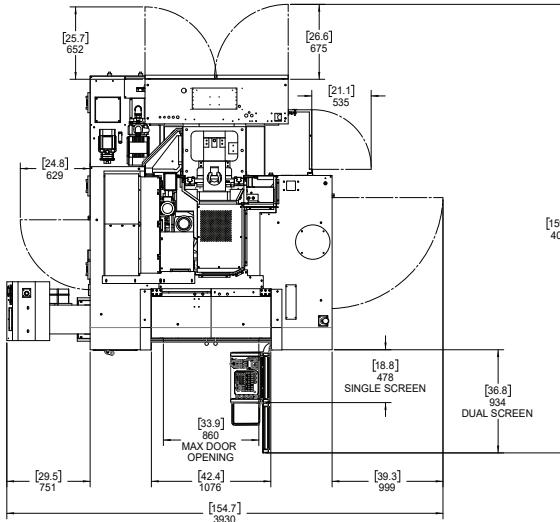
Machine specifications can be found on Pages 55-61

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POWER & CAPACITY

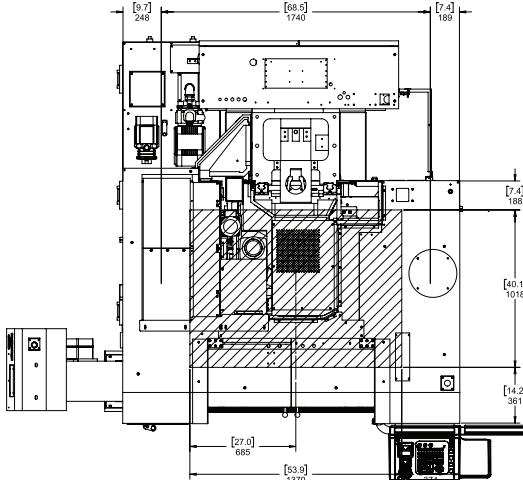
VMX24i/VMX24Di



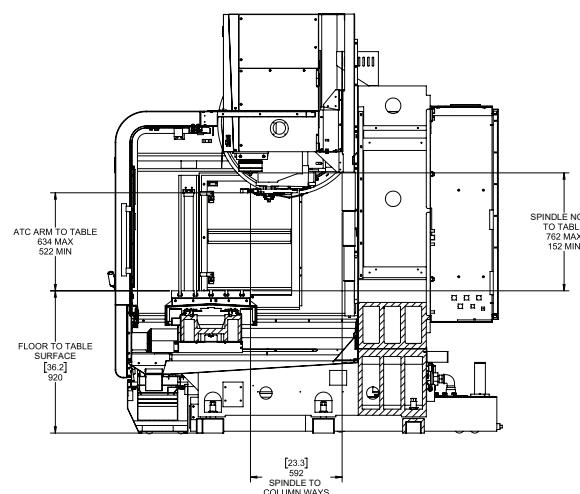
VMX24i

OPERATING DIMENSIONS

INTERIOR CLEARANCES

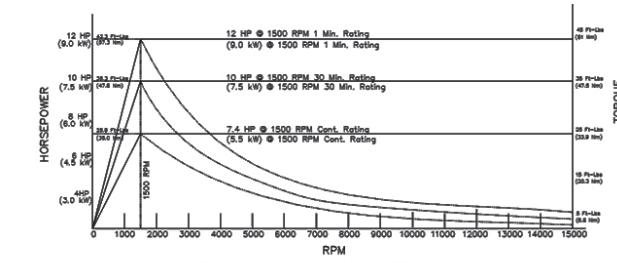


NOTE: HATCHED AREA SHOWS FULL TABLE MOVEMENT



POWER & TORQUE

VMX24Di



Base Speed 1,500 RPM, Max Speed 15,000 RPM
1 Min. Power Rating/Torque Rating=12 HP/42.3 Ft-Lbs
30 Min. Power Rating/Torque Rating=10 HP/35.3 Ft-Lbs
Continuous Power Rating/Torque Rating=7.4 HP/25.8 Ft-Lbs

VMX30i/VMX30Di

Amazingly small footprint for 30 x 20 inch travel



Did you know? The 3D Import feature on the Hurco control creates Transform Planes automatically for easy 3-axis and 5-sided conversational programming. No need to enter feature dimensions—simply click and cut. Plus, integrated CAD/CAM and tool path simulation.

Find out more at Hurco.com/3DImport.

Machine Overview

- » 30 x 20 x 24 in (762 x 508 x 610 mm) travels
- » 40 x 20 in (1,020 x 508 mm) table, 3,000 lbs (1,360 kg) capacity
- » BIG-PLUS® spindle system / CAT 40 tooling
 - 18 hp (13.4 kW) peak spindle for VMX30i
 - 20 hp (15 kW) peak spindle for VMX30Di
 - Dual-wound 12,000 RPM spindle provides more torque at a lower base speed without requiring a gearbox (VMX30i)
 - 15,000 RPM direct-drive spindle for VMX30Di
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » Solid cast iron frame
- » Generous Y-axis travel
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Direct coupled ballscrews
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Ceramic hybrid spindle bearings with lifetime grease
- » 30-station electric swing-arm ATC (40-station available)
- » 2 second tool-to-tool ATC time
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®
- » Adjustable height control arm

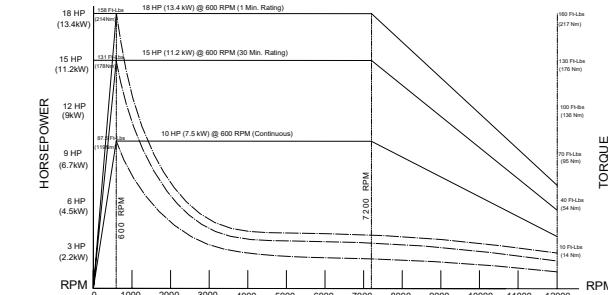
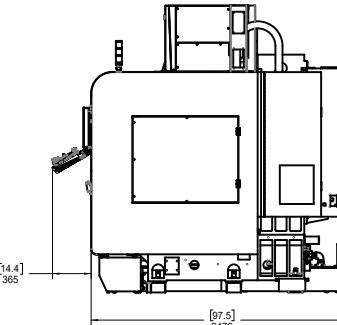
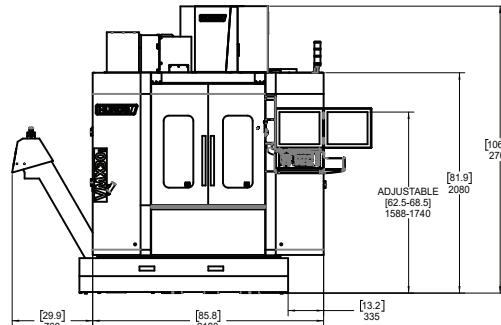
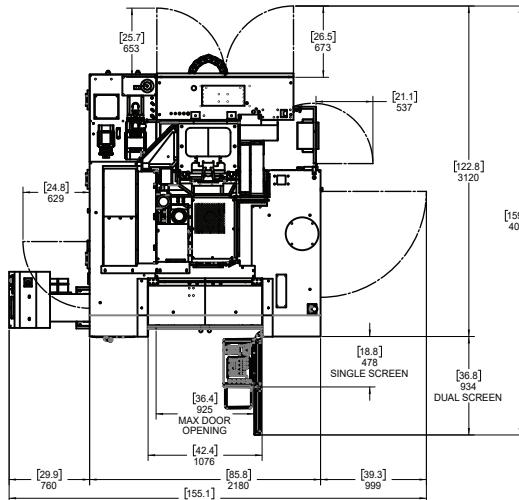
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Machines shown with options. Specifications and information may change without notice.

POWER & CAPACITY

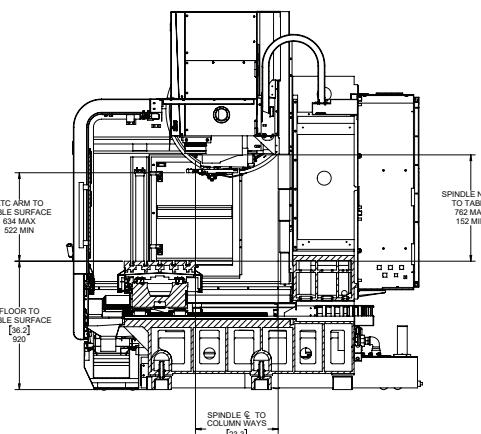
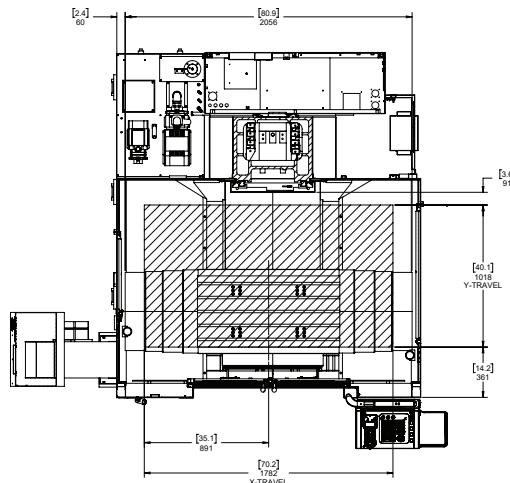
VMX30i/VMX30Di



VMX30i

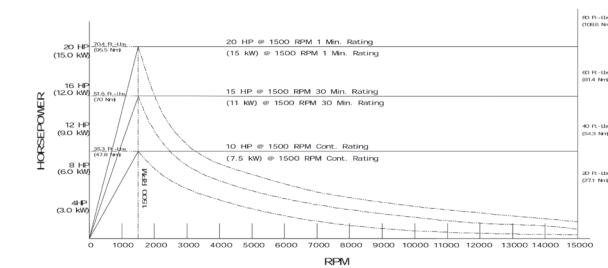
OPERATING DIMENSIONS

INTERIOR CLEARANCES



NOTE: HATCHED AREA SHOWS FULL TABLE MOVEMENT

POWER & TORQUE



VMX30Di

Base Speed 1,500 RPM, Max Speed 15,000 RPM
1 Min. Power Rating/Torque Rating=20HP/70.4 Ft-Lbs
30 Min. Power Rating/Torque Rating=15 HP/51.6 Ft-Lbs
Continuous Power Rating/Torque Rating=10 HP/35.3 Ft-Lbs

VMX30HSi

Built for speed, accuracy, and repeatability



Did you know? Nearly all Hurco 3-Axis machines are equipped with UltiMotion technology (invented by Hurco), which simultaneously reduces cycle time (by up to 30% or more) and improves surface finish quality. Exclusive motion control only available from Hurco.

To learn more, visit Hurco.com/UltiMotion.

Machine Overview

- » 30 x 20 x 24 in (762 x 508 x 610 mm) travels
- » Direct coupled ballscrews
- » High speed tool changer
- » Higher rapids per minute – XY=1,771 in (45 m) Z=1,575 in (40 m)
- » 40 x 20 in (1,020 x 508 mm) table, 3,000 lbs (1,360 kg) capacity
- » 18,000 RPM high speed spindle
- » 47 hp (35 kW) peak spindle
- » Integral motorized spindle equipped with ABEC-7 ceramic hybrid bearings
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » HSK 63 tooling
- » Brushless AC Servos
- » Solid cast iron frame
- » Generous Y-axis travel
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty linear rails on all three axes
 - Mounted to a machined shoulder for increased rigidity
 - Strategically spaced for increased strength
 - Wedge locked to a machined shoulder to reduce vibration instead of faster, cheaper face-milled process
- » 30-station electric swing-arm ATC (40-station option)
- » 1.5 second tool-to-tool ATC time
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®
- » Adjustable height control arm

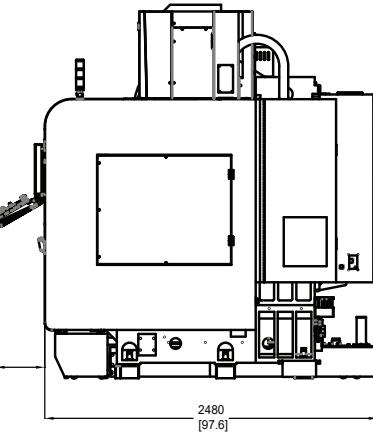
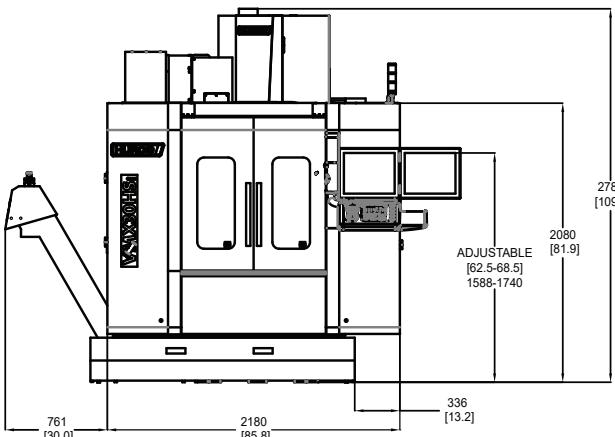
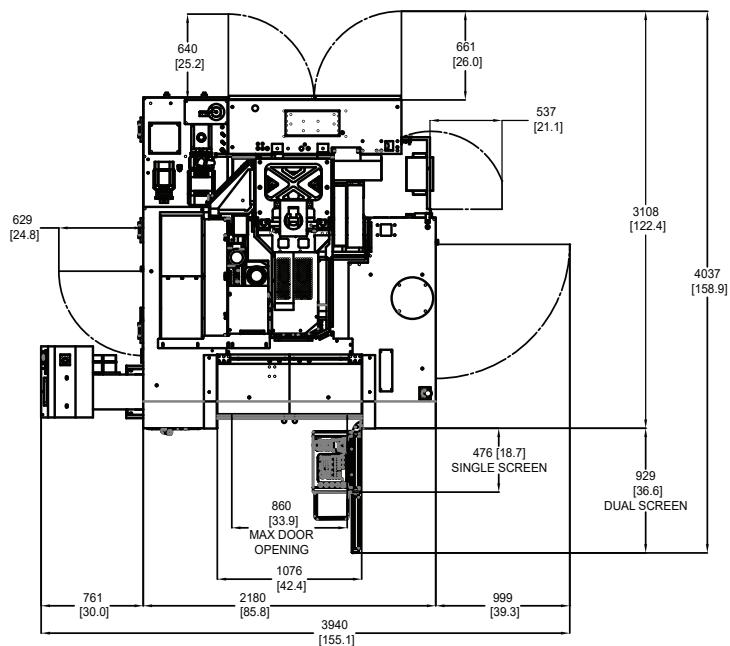
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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

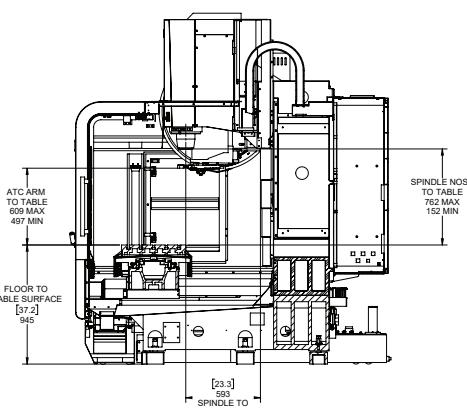
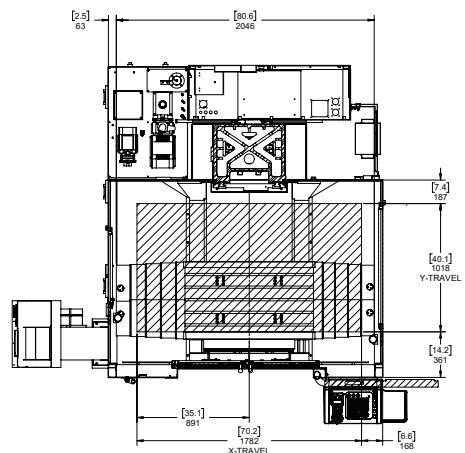
POWER & CAPACITY

VMX30HSI

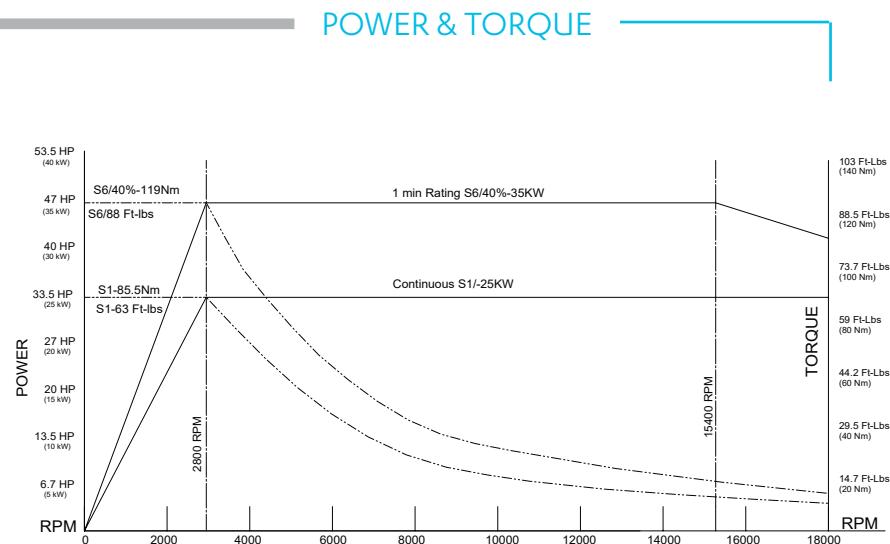


OPERATING DIMENSIONS

INTERIOR CLEARANCES



NOTE: HATCHED AREA SHOWS FULL TABLE MOVEMENT.



VMX42i/VMX42Di

This industry workhorse is powerful and fast



Did you know? Hurco engineers have invented 3D Import, which includes 3D DXF technology that displays all geometry that the CAD system outputs, including splines. With 3D DXF, simply select the bottom of a contour, and the Z-axis depths will also be automatically input into the conversational block. **Visit [Hurco.com/3DImport](#) to learn more.**

Machine Overview

- » 42 x 24 x 24 in (1,067 x 610 x 610 mm) travels
- » 50 x 24 in (1,270 x 610 mm) table, 3,000 lbs (1,360 kg) capacity
- » BIG-PLUS® spindle system / CAT 40 tooling
 - 24 hp (18 kW) peak spindle for VMX42i
 - 20 hp (15 kW) peak spindle for VMX42Di
 - Dual-wound 12,000 RPM spindle provides more torque at a lower base speed without requiring a gearbox
 - 15,000 RPM direct-drive spindle for VMX42Di
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » Solid cast iron frame
- » Generous Y-axis travel
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Direct coupled ballscrews
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Ceramic hybrid spindle bearings with lifetime grease
- » 30-station electric swing-arm ATC (40-station available)
- » 2 second tool-to-tool ATC time
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®
- » Adjustable height control arm

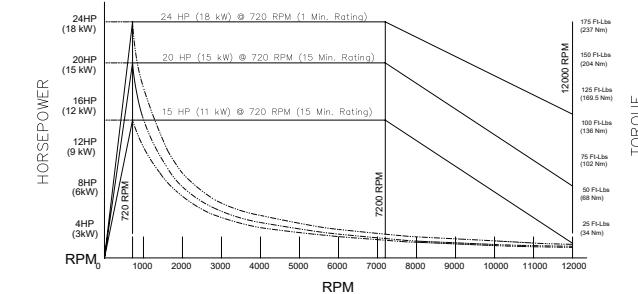
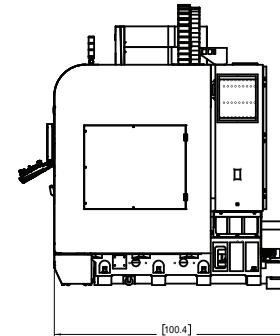
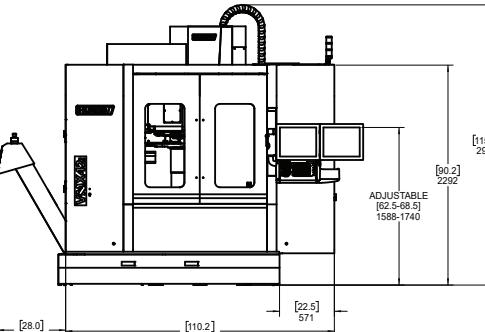
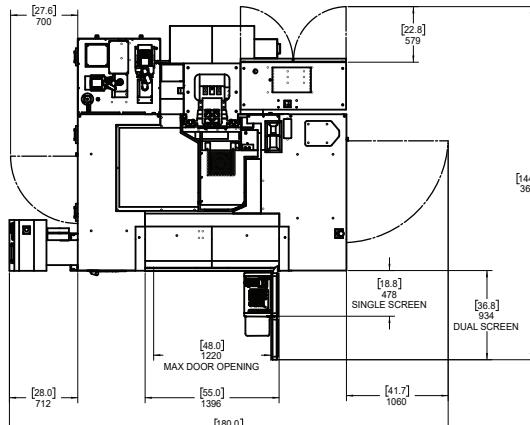
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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

POWER & CAPACITY

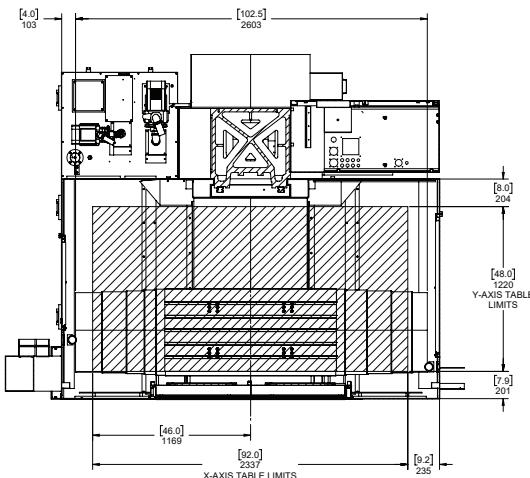
VMX42i/VMX42Di



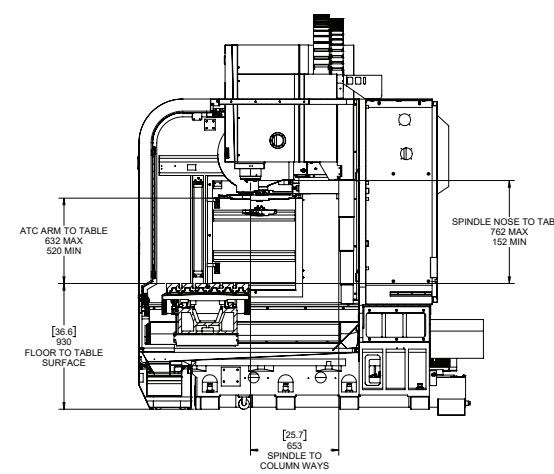
VMX42i

OPERATING DIMENSIONS

INTERIOR CLEARANCES

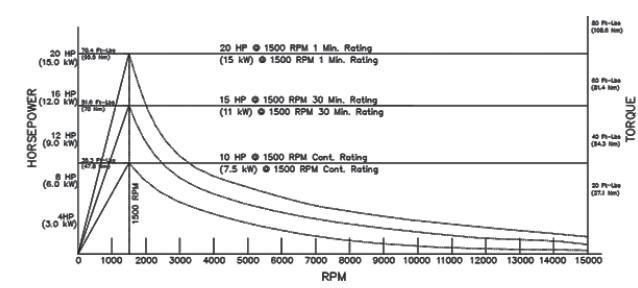


NOTE: HATCHED AREA SHOWS FULL TABLE MOVEMENT



POWER & TORQUE

VMX42Di



Base Speed 1,500 RPM, Max Speed 15,000 RPM
1 Min. Power Rating/Torque Rating=20HP/70.4 Ft-Lbs
30 Min. Power Rating/Torque Rating=15 HP/51.6 Ft-Lbs
Continuous Power Rating/Torque Rating=10 HP/35.3 Ft-Lbs

VMX50i/ VMX50i-50T

Power and flexibility for demanding applications



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

Find out more at Hurco.com/WinMax.

Machine Overview

- » 50 x 26 x 24 in (1,270 x 660 x 610 mm) travels
- » 59 x 26 in (1,500 x 660 mm) table, 3,000 lbs (1,360 kg) capacity
- » Brushless AC Servos
- » BIG-PLUS® spindle system (VMX50i)
- » Peak of 24 hp (18 kW) for 40T spindle or 29.7 hp (22.2 kW) for 50T spindle
- » Dual-wound 12,000 RPM spindle provides more torque at a lower base speed without requiring a gearbox (8,000 RPM spindle for 50T)
- » 30-station electric swing-arm ATC (40-station available for 40T)
- » 2 second tool-to-tool ATC time for 40T spindle (4 seconds for 50T)
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Solid cast iron frame
- » Generous Y-axis travel
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Direct coupled ballscrews
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Ceramic hybrid spindle bearings with lifetime grease
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®
- » Adjustable height control arm

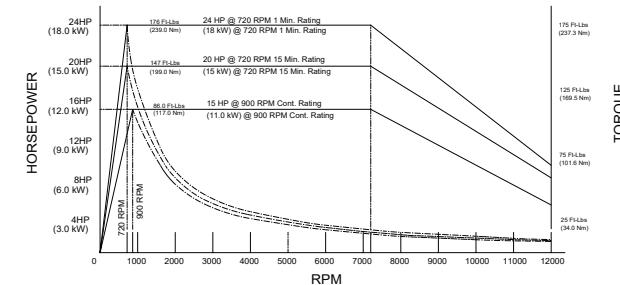
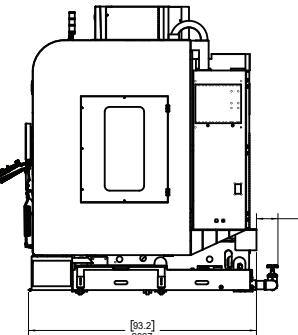
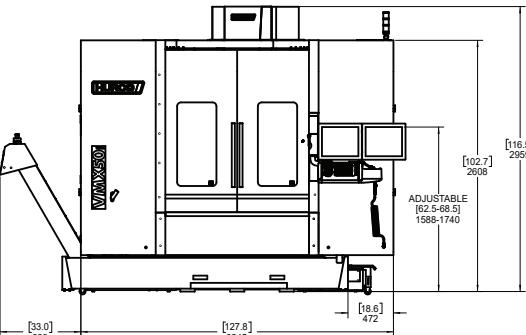
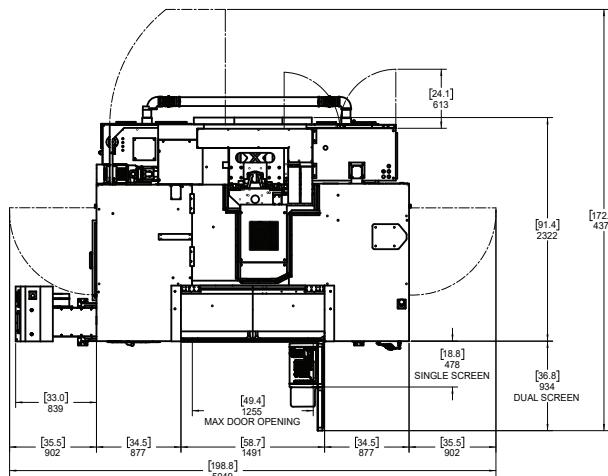
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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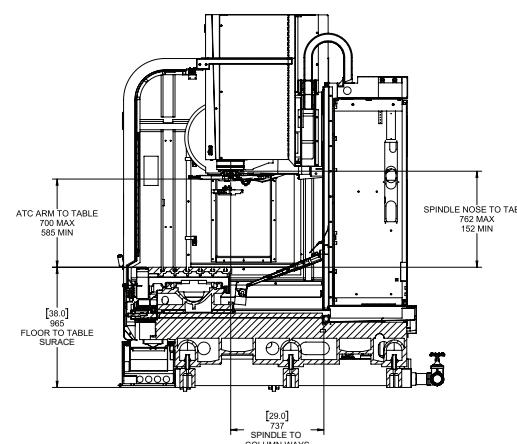
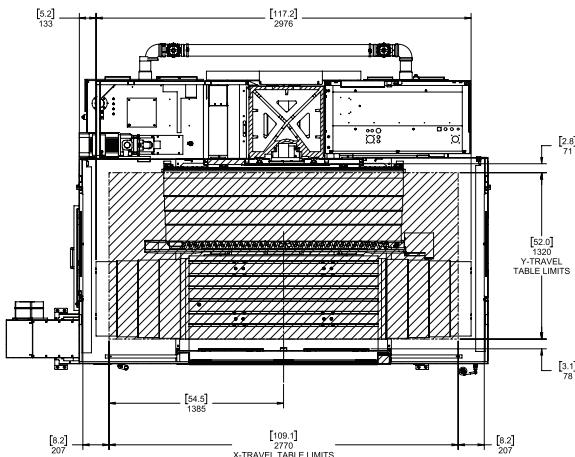
POWER & CAPACITY

VMX50i / VMX50i-50T



OPERATING DIMENSIONS

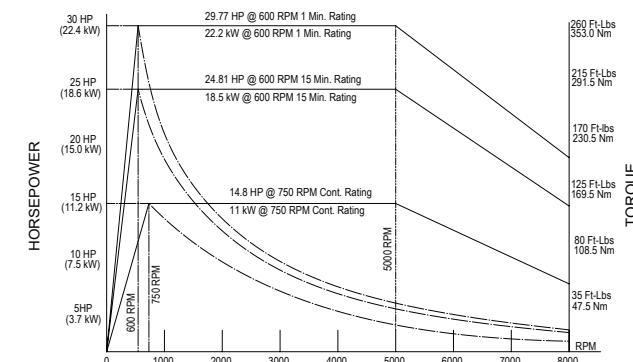
INTERIOR CLEARANCES



NOTE: HATCHED AREA SHOWS FULL TABLE MOVEMENT

POWER & TORQUE

40 TAPER
50 TAPER



VMX6030i / VMX6030i-50T

Redesigned to give you
4 more inches of Y-Travel



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

Find out more at Hurco.com/WinMax.

Machine Overview

- » 60 x 30 x 24 in (1,524 x 762 x 610 mm) travels
- » 66 x 30 in (1,676 x 762 mm) table, 3,000 lbs (1,360 kg) capacity
- » Brushless AC Servos
- » BIG-PLUS® spindle system (VMX6030i)
- » Peak of 24 hp (18 kW) for 40T spindle or 29.7 hp (22.1 kW) for 50T spindle
- » Dual-wound 12,000 RPM spindle provides more torque at a lower base speed without requiring a gearbox (8,000 RPM spindle for 50T)
- » 30-station electric swing-arm ATC (40-station available for 40T)
- » 2 second tool-to-tool ATC time for 40T spindle (4 seconds for 50T)
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Solid cast iron frame
- » Generous Y-axis travel
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Direct coupled ballscrews
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Ceramic hybrid spindle bearings with lifetime grease
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®
- » Adjustable height control arm

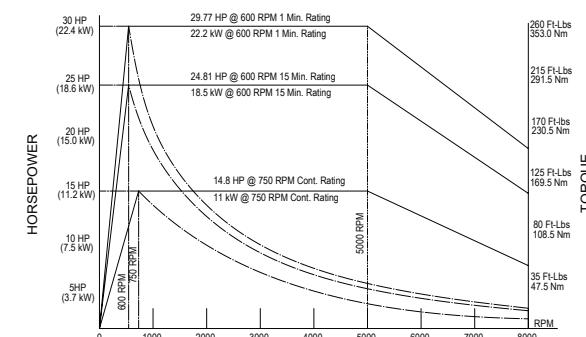
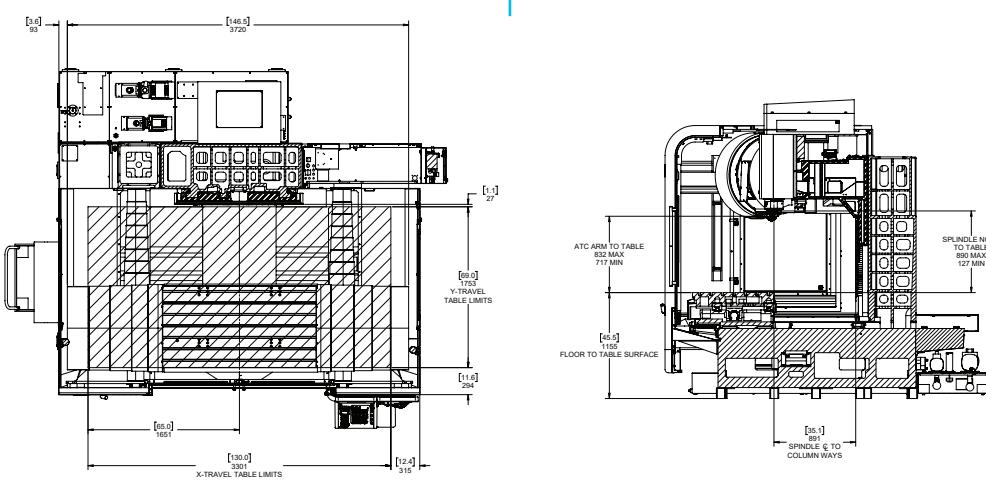
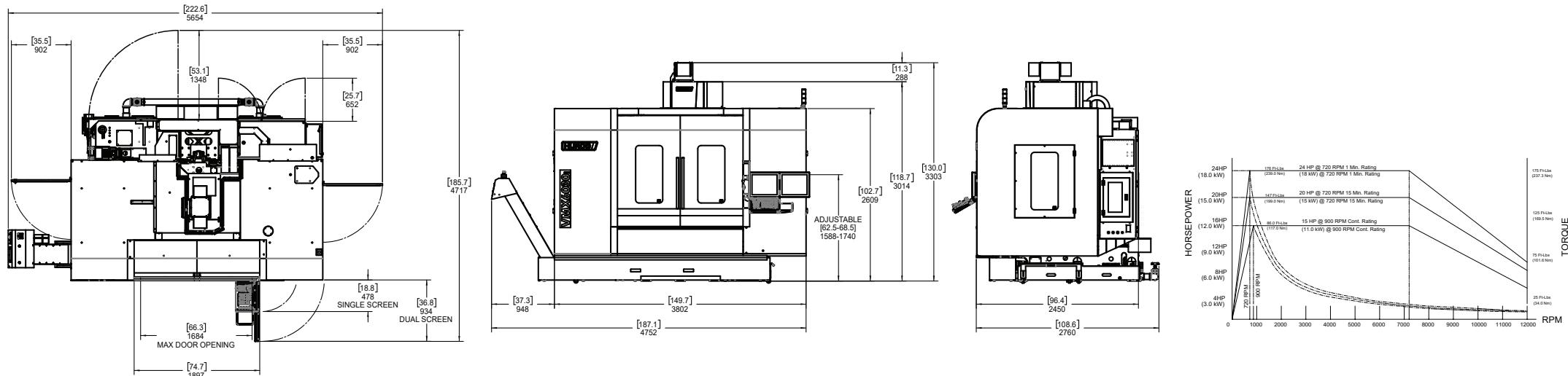
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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

POWER & CAPACITY

VMX6030i / VMX6030i-50T



NOTE: HATCHED AREA SHOWS FULL TABLE MOVEMENT

VMX64i/ VMX64i-50T

The speed, accuracy & reliability you need



Did you know? Data Block Search allows you to select features on the graphics screen, and with the touch of a button, the control will jump to whatever conversational block or line of NC code that created that particular feature. This is an excellent way to navigate a lengthy program file. **Find out more at Hurco.com/WinMax.**

Machine Overview

- » Generous Y-axis travel
- » Out riggers with roller packs to eliminate the X-axis from sagging
- » 64 x 34 x 30 in (1,625 x 864 x 762 mm) travels
- » 66 x 35 in (1,676 x 889 mm) table, 6,000 lbs (2,722 kg) capacity
- » Brushless AC Servos
- » BIG-PLUS® spindle system (VMX64i)
- » Peak of 24 hp (18 kW) for 40T spindle or 30 hp (22.2 kW) for 50T spindle
- » Dual-wound 12,000 RPM spindle provides more torque at a lower base speed without requiring a gearbox (8,000 RPM spindle for 50T)
- » 30-station electric swing-arm ATC for 40T spindle (40 and 96-station available and 32-station ATC for 50T)
- » 2 second tool-to-tool ATC time for 40T spindle (4 seconds for 50T)
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Solid cast iron frame
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Direct coupled ballscrews
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Ceramic hybrid spindle bearings with lifetime grease
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®
- » Adjustable height control arm

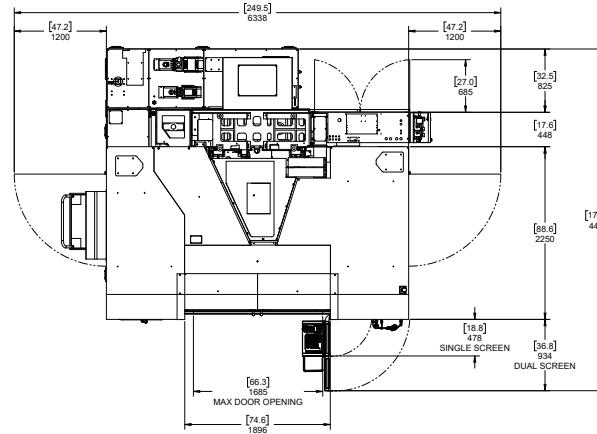
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

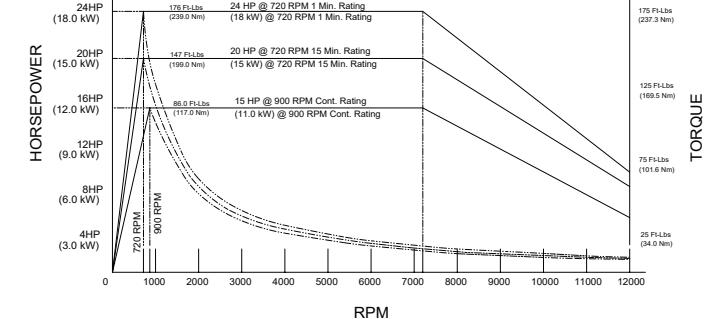
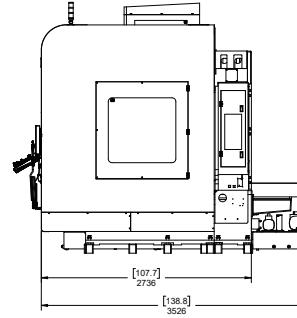
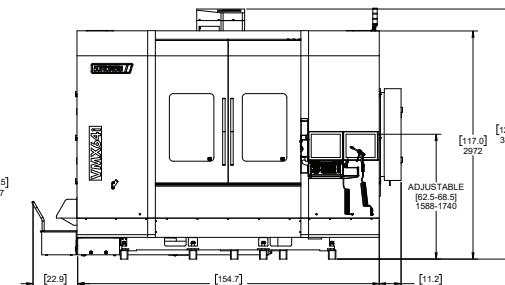
Machines shown with options. Specifications and information may change without notice.

POWER & CAPACITY

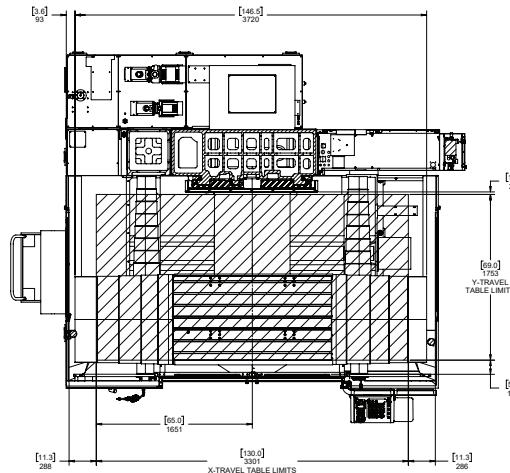
VMX64i/ VMX64i-50T



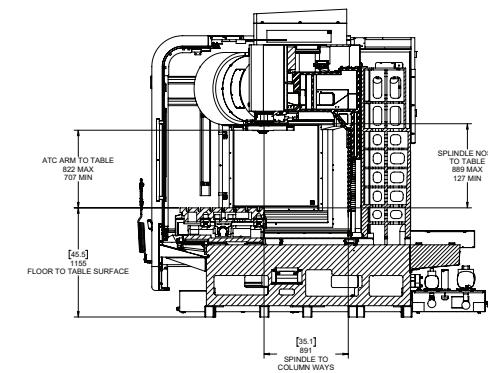
OPERATING DIMENSIONS



INTERIOR CLEARANCES



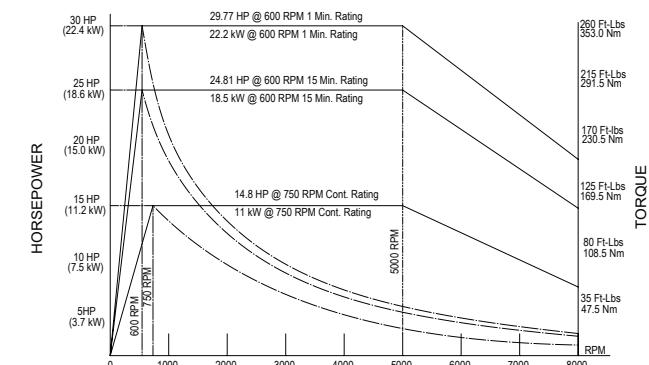
NOTE: HATCHED AREA SHOWS FULL TABLE MOVEMENT



— POWER & TORQUE

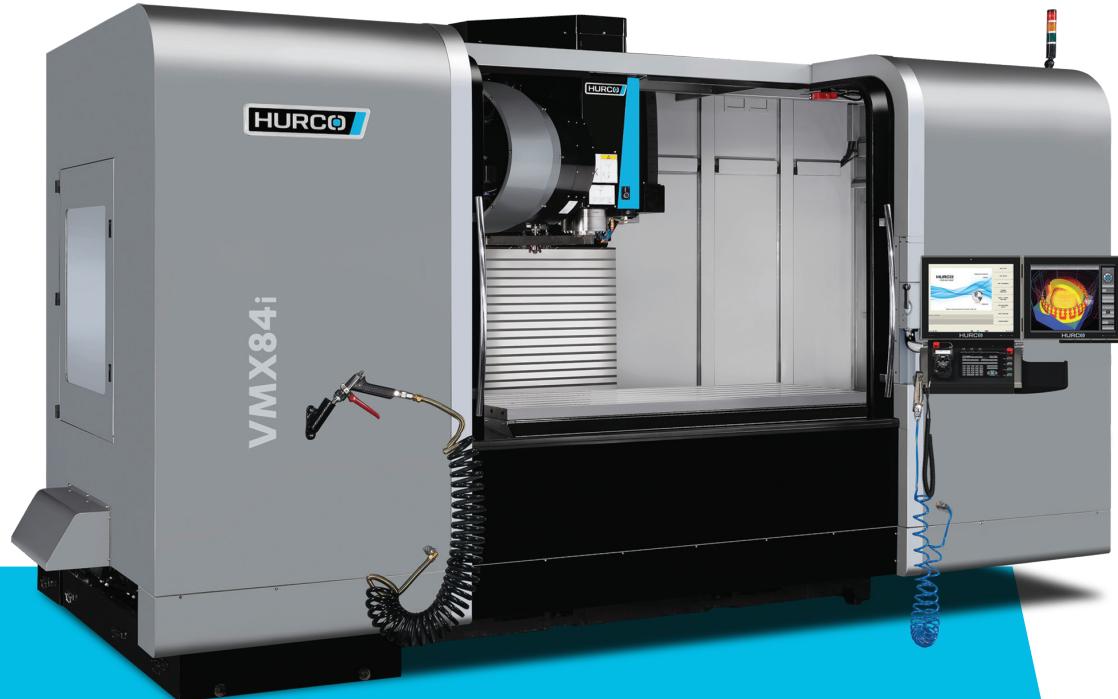
40 TAPER

50 TAPER



VMX84i/VMX84i-50T

Premium components + meticulous manufacturing =
a rigid & reliable machine built to last



Did you know? WinMax lets you merge an existing NC file with any conversational program, and allows that NC file to be used within a conversational pattern block without changing the G-code. Conversational blocks such as: transform plane, mirror image, scale, pattern loop rectangular, pattern loop rotate, or any other conversational pattern block are available within the Hurco control.

Find out more at Hurco.com/WinMax.

Machine Overview

- » Generous Y-axis travel
- » Out riggers with roller packs to eliminate the X-axis from sagging
- » 84 x 34 x 30 in (2,134 x 864 x 762 mm) travels
- » 86 x 34 in (2,184 x 865 mm) table, 5,000 lbs (2,268 kg) capacity
- » Brushless AC Servos
- » BIG-PLUS® spindle system (VMX84i)
- » CAT 40 tooling (40T Spindle) / CAT 50 tooling (50T Spindle)
- » Peak of 24 hp (18 kW) for 40T spindle or 30 hp (22.2 kW) for 50T spindle
- » Dual-wound 12,000 RPM spindle provides more torque at a lower base speed without requiring a gearbox (8,000 RPM spindle for 50T)
- » 30-station electric swing-arm ATC for 40T spindle (40 and 96-station available and 32-station ATC for 50T)
- » 2 second tool-to-tool ATC time for 40T spindle (4 seconds for 50T)
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Solid cast iron frame
- » Wider table extends across the entire Y-axis, which provides the flexibility needed to produce a high mix of parts
- » Direct coupled ballscrews
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Ceramic hybrid spindle bearings with lifetime grease
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®
- » Adjustable height control arm

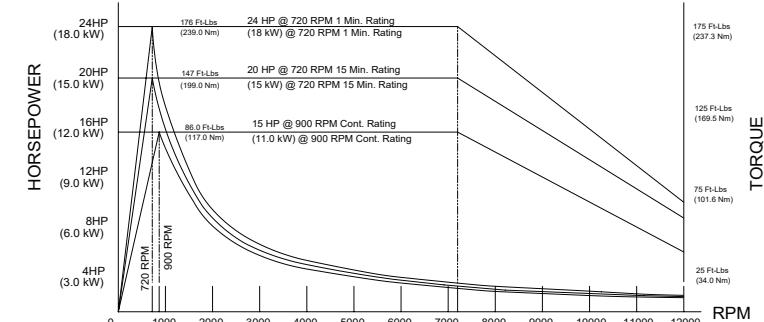
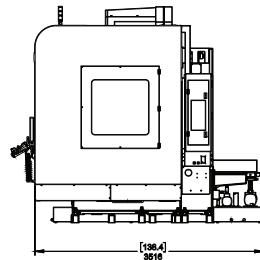
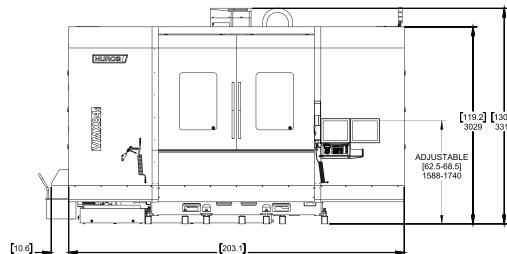
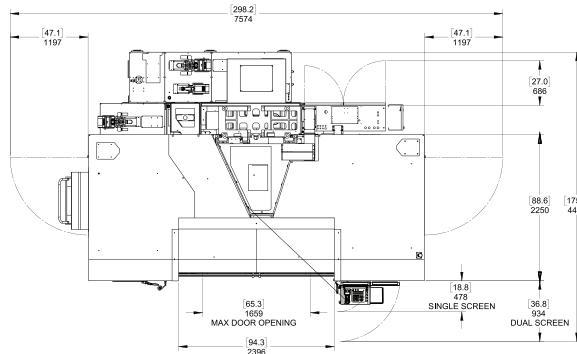
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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

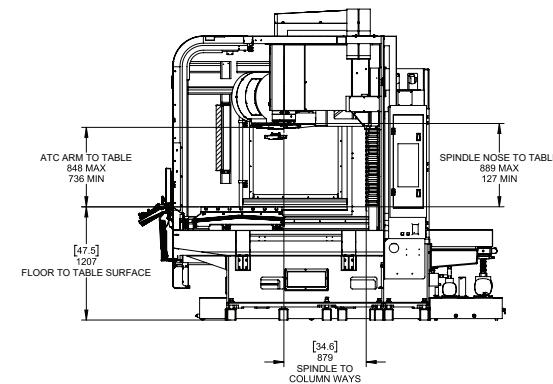
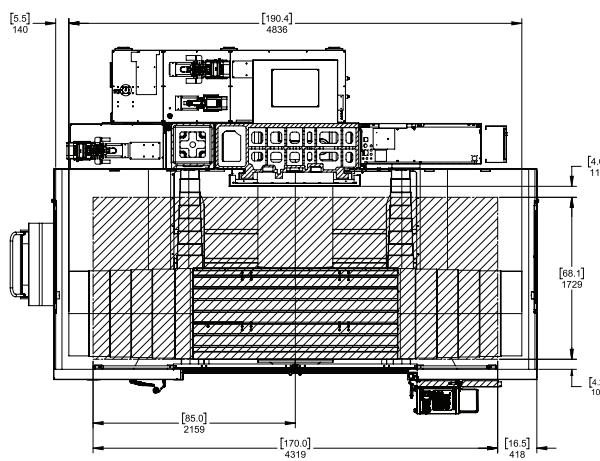
POWER & CAPACITY

VMX84i / VMX84i-50T



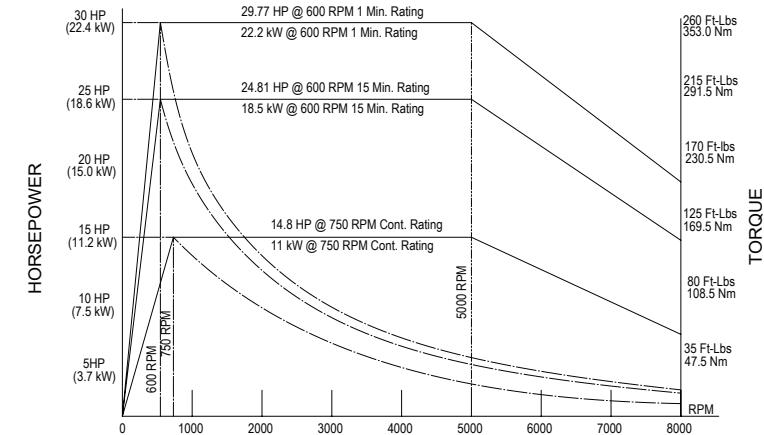
OPERATING DIMENSIONS

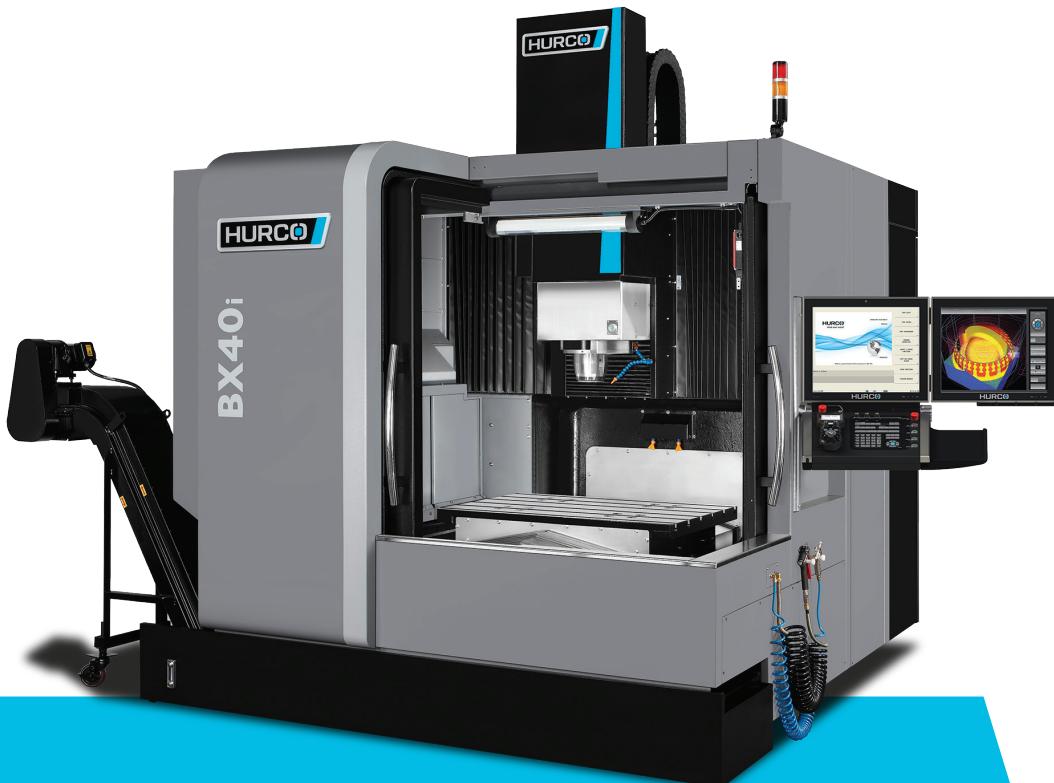
INTERIOR CLEARANCES



40 TAPER

50 TAPER





Did you know? Hurco's conversational part and tool probing routines make probing and setup extremely easy. You also get routines to probe a part for skew – eliminating the need to indicate square on large parts or on very low-volume work.

Find out more at Hurco.com/WinMax.

Machine Overview

- » 40.2 x 27.6 x 19.7 in (1,020 x 700 x 500 mm) travels
- » Direct drive ballscrews
- » High speed tool changer
- » 41.3 x 27.6 in (1,050 x 700 mm) table, 2,204 lbs (1,000 kg) capacity
- » 18,000 RPM high speed spindle / HSK 63 tooling
- » 47 hp (35 kW) peak spindle
- » Integral motorized spindle equipped with ABEC-7 ceramic hybrid bearings
- » 30-station electric swing-arm ATC
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Extremely rigid and thermally stable double-column design
- » Generous Y-travel
- » Easy access to table
- » Ladder design of bridge provides maximum support to the head casting
- » Close proximity of spindle to bridge casting reduces overhang
- » Brushless AC Servos
- » Solid cast iron frame
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®

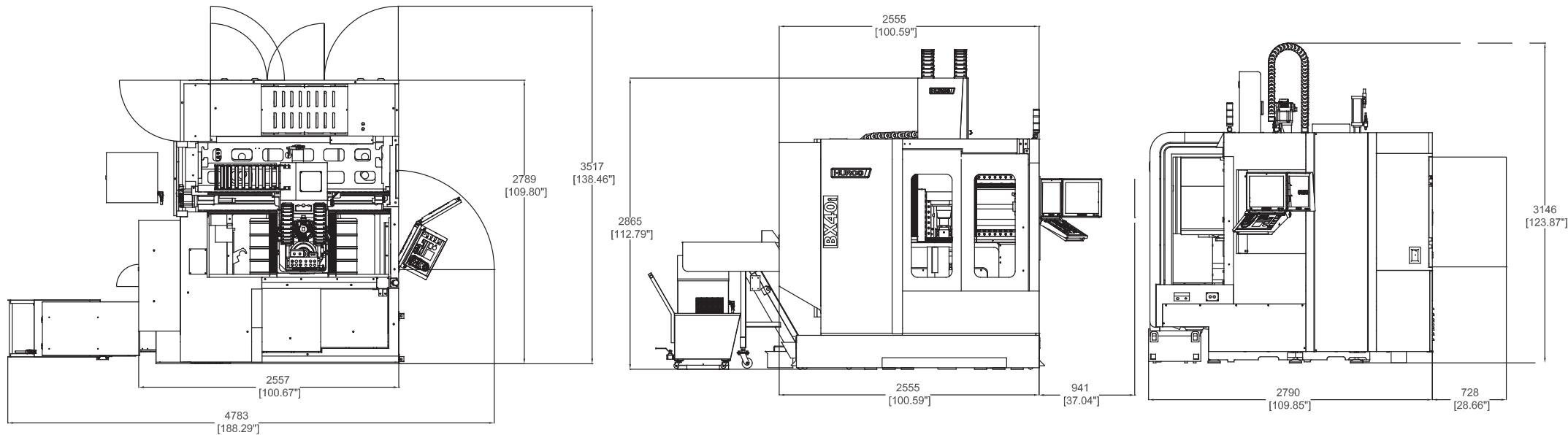
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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

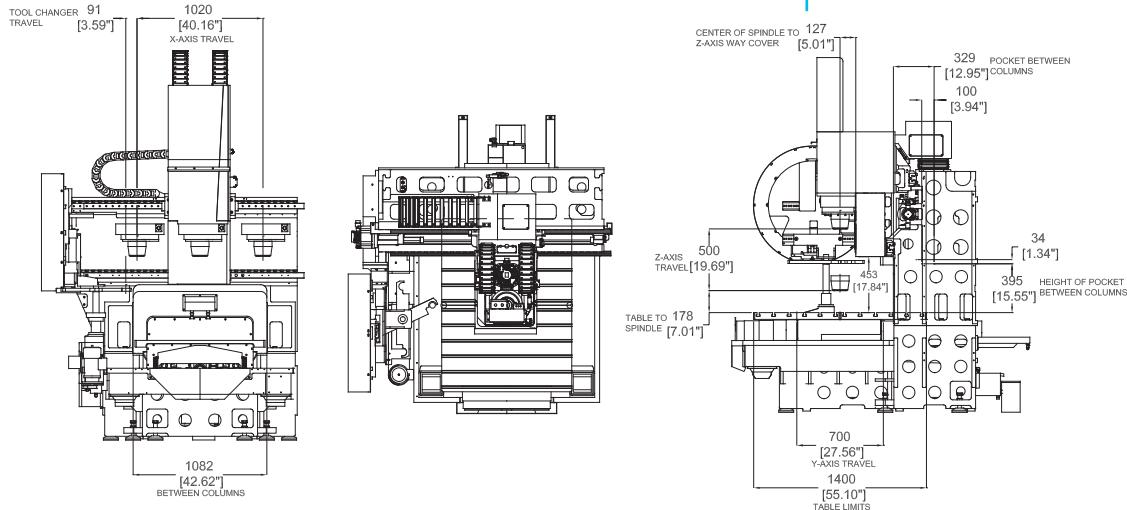
POWER & CAPACITY

BX40i

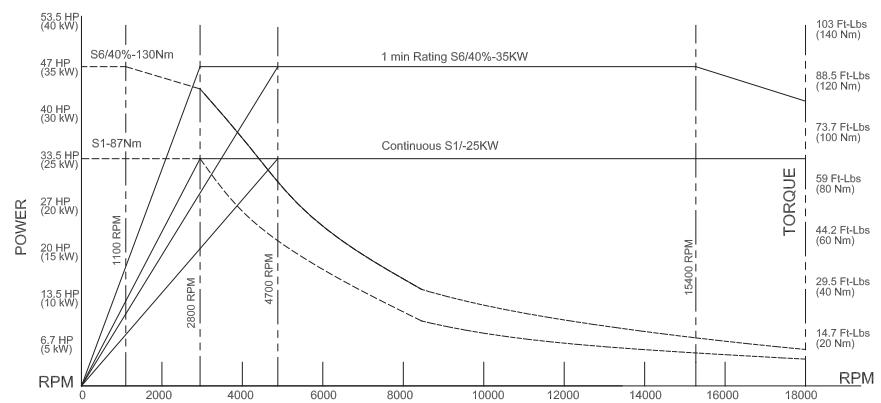


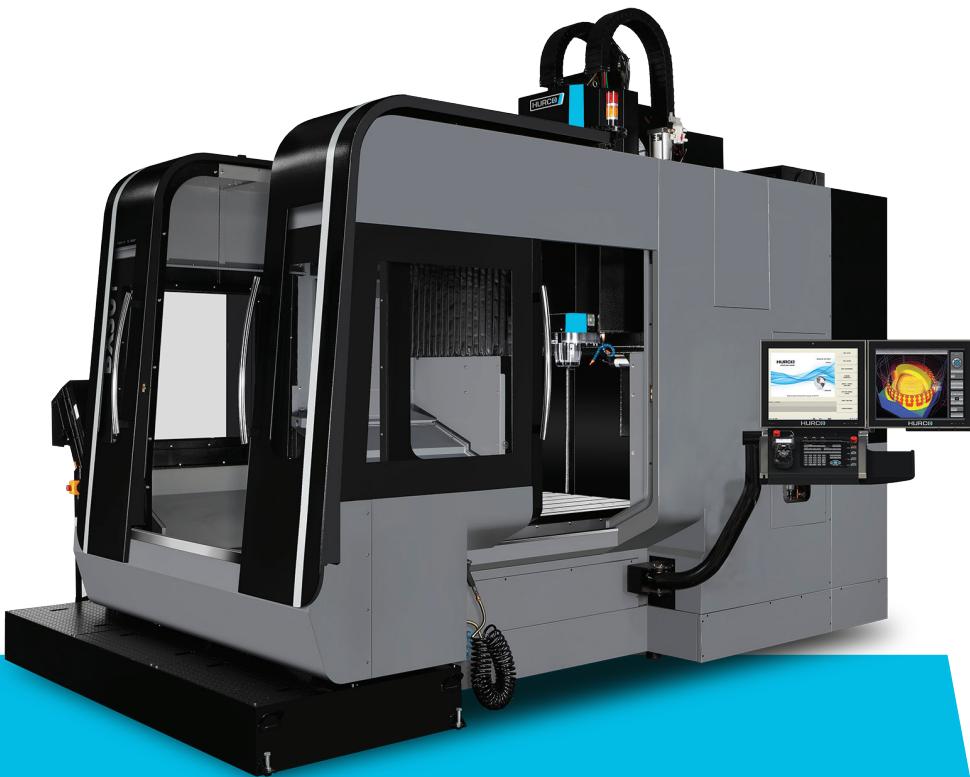
OPERATING DIMENSIONS

INTERIOR CLEARANCES



POWER & TORQUE





Did you know? By simply pressing the HELP control button, an interactive help screen will appear with context sensitive data and/or helpful links that correspond to whatever area of the control the operator is currently viewing on screen. You can also search the Hurco Control's interactive help system by typing key words into the search box. BONUS: the interactive help system is updated automatically if you update your control's software so the help system always matches the control software level of the machine.

Find out more at Hurco.com/WinMax.

Machine Overview

- » 53.2 x 37.4 x 23.6 in (1,350 x 950 x 600 mm) travels
- » Direct drive ballscrews
- » High speed tool changer
- » 59.1 x 37.8 in (1,500 x 960 mm) table, 5,512 lbs (2,500 kg) capacity
- » 18,000 RPM high speed spindle / HSK 63 tooling
- » 47 hp (35 kW) peak spindle
- » Integral motorized spindle equipped with ABEC-7 ceramic hybrid bearings
- » 30-station electric swing-arm ATC (50-station option available)
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Extremely rigid and thermally stable double-column design
- » Generous Y-travel
- » Easy access to table
- » Ladder design of bridge provides maximum support to the head casting
- » Close proximity of spindle to bridge casting reduces overhang
- » Brushless AC Servos
- » Solid cast iron frame
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®

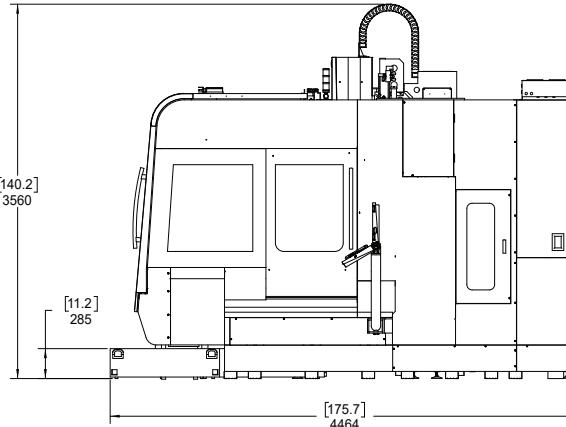
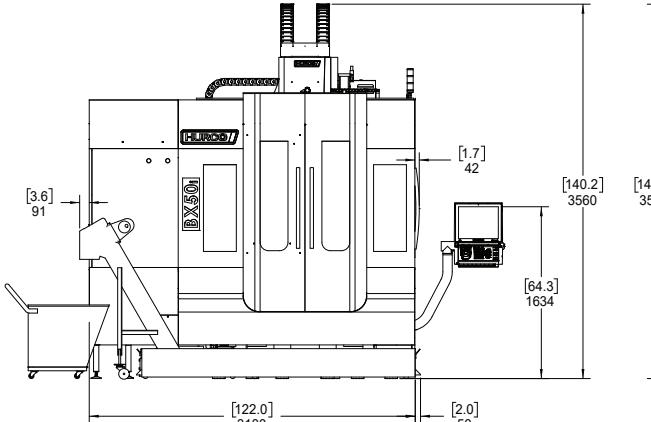
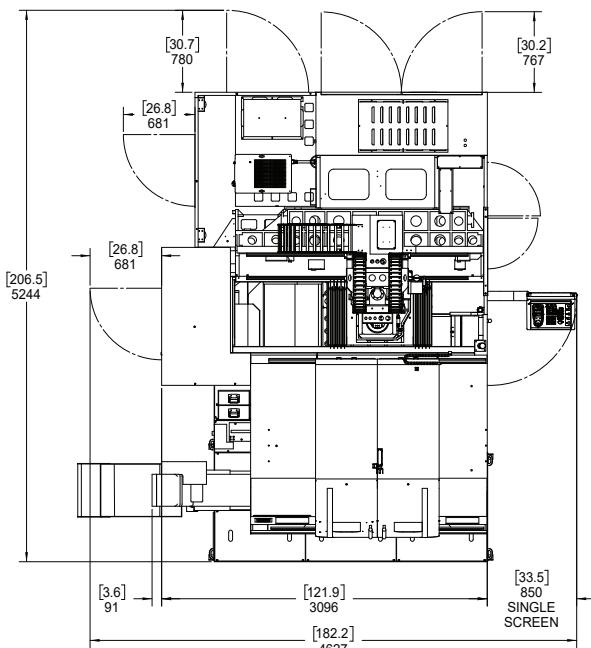
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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

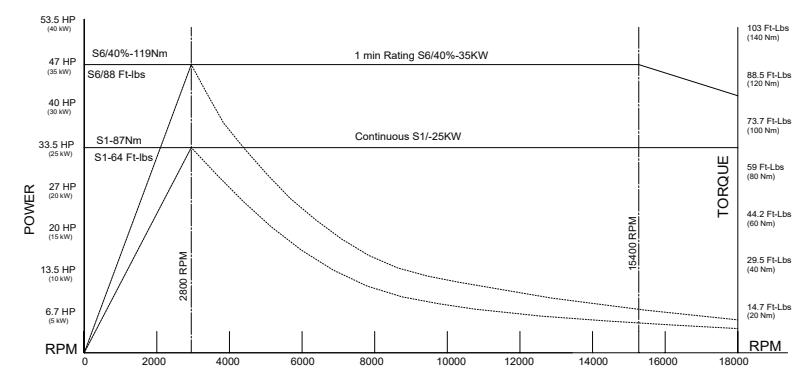
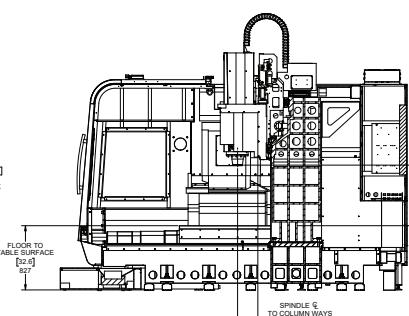
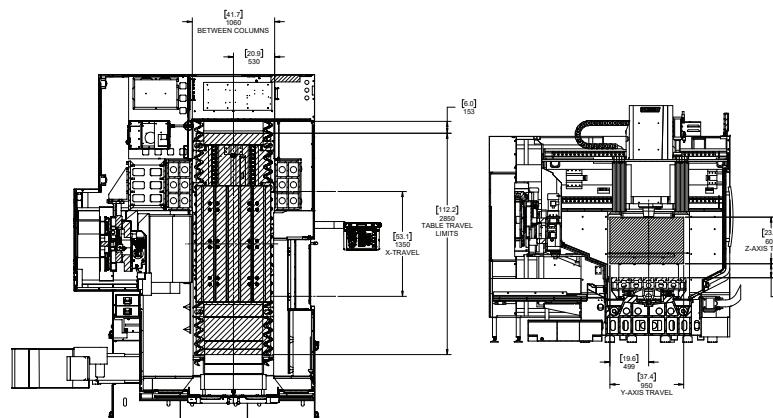
POWER & CAPACITY

BX50i



OPERATING DIMENSIONS

INTERIOR CLEARANCES





Did you know? The Advanced Verification Graphics on the Hurco WinMax control has the ability to create a solid model of the part being programmed. In addition to using a simple box or cylinder shape, you can import an STL file to use as your stock geometry. This is perfect when programming secondary work, castings, or forgings. WinMax also lets you save and re-import graphics files as an STL file. This makes creating stock geometry files for secondary ops a breeze.

Find out more at Hurco.com/WinMax.

Machine Overview

- » 63 x 51.2 x 27.6 in (1,600 x 1,300 x 700 mm) travels
- » Direct drive ballscrews
- » High speed tool changer
- » 74.8 x 51.2 in (1,900 x 1,300 mm) table, 13,200 lbs (6,000 kg) capacity
- » 18,000 RPM high speed spindle / HSK 63 tooling
- » 47 hp (35 kW) peak spindle
- » Integral motorized spindle equipped with ABEC-7 ceramic hybrid bearings
- » 30-station electric swing-arm ATC (50-station option available)
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Extremely rigid and thermally stable double-column design
- » Generous Y-travel
- » Easy access to table
- » Ladder design of bridge provides maximum support to the head casting
- » Close proximity of spindle to bridge casting reduces overhang
- » Brushless AC Servos
- » Solid cast iron frame
- » Large front door opening / Large, hinged side doors
- » Larger, heavy-duty roller ways on all three axes
- » Yaskawa Sigma 5 drives
- » LED lighting shines brighter and saves energy
- » MAX5 ergonomically designed console with two 19" LCD screens
- » WinMax Mill Conversational and Industry Standard NC programming
- » UltiMotion®

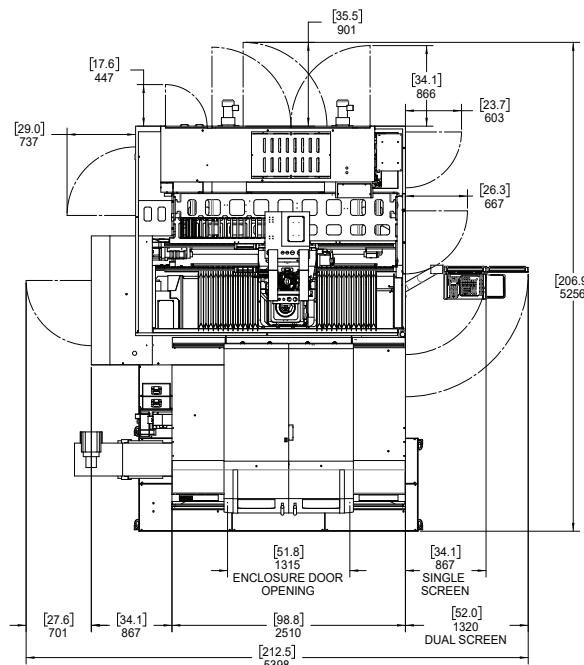
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

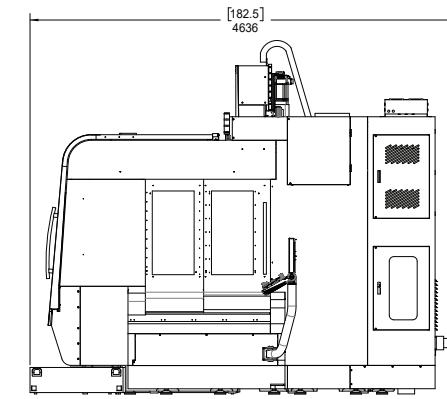
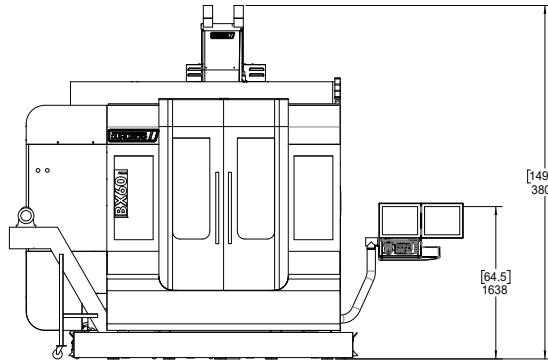
Machines shown with options. Specifications and information may change without notice.

POWER & CAPACITY

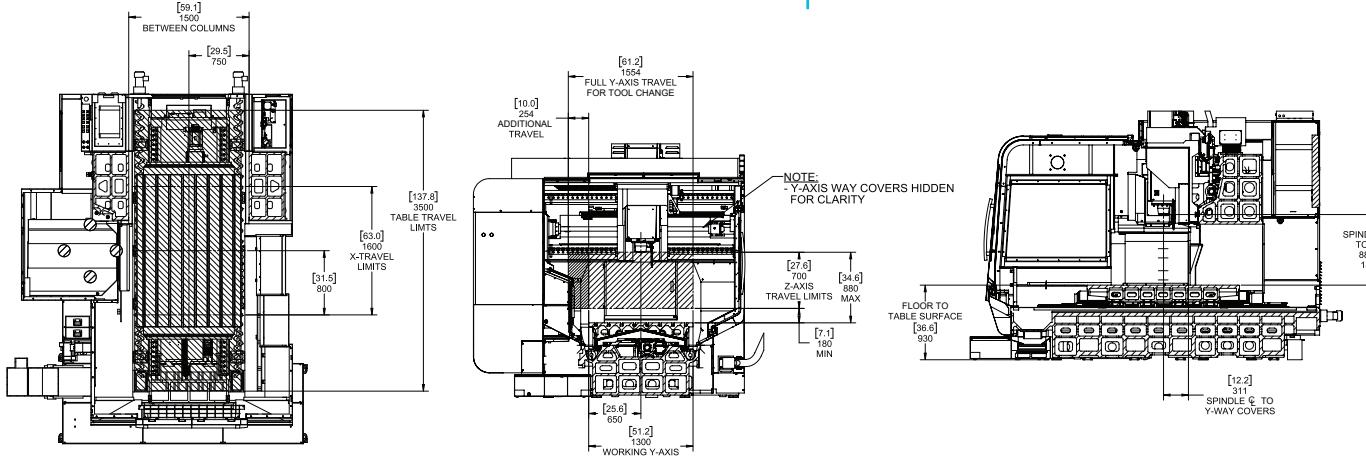
BX60i



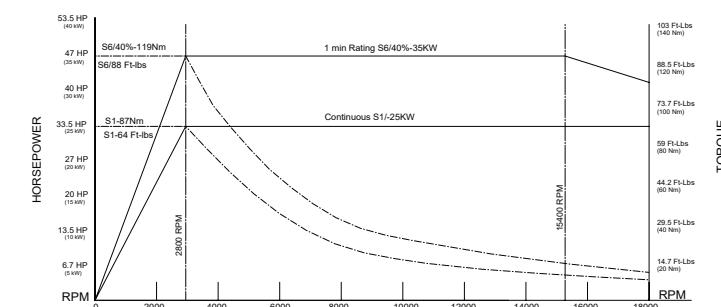
OPERATING DIMENSIONS



INTERIOR CLEARANCES



POWER & TORQUE



DCX22i / DCX22i-50T

2.2 meter double-column machining center



Did you know? The 3D Import feature on the Hurco control creates Transform Planes automatically for easy 3-axis and 5-sided conversational programming. No need to enter feature dimensions—simply click and cut. Plus, integrated CAD/CAM and tool path simulation.

Find out more at Hurco.com/3DImport.

Machine Overview

- » 86.6 x 66.9 x 29.5 in (2,200 x 1,700 x 750 mm) travels
- » 82.7 x 63 in (2,100 x 1,600 mm) table, 13,200 lbs (6,000 kg) capacity 40T and 17,600 lbs (8,000 kg) 50T
- » 12,000 RPM 40T and 6,000 RPM for 50T
- » 24 HP (18 kW) peak spindle 40T and 35 HP (26 kW) peak spindle 50T
- » 40 Station automatic swing arm tool changer for 40T and 50T
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » WinMax Mill Conversational or NC programming
- » Heavy duty linear rails for X, Y, and Z-axis 40T and X,Y for 50T
- » 5 second tool-to-tool ATC time
- » MAX5 ergonomically designed dual-screen console with 19" LCD screens
- » UltiMotion®

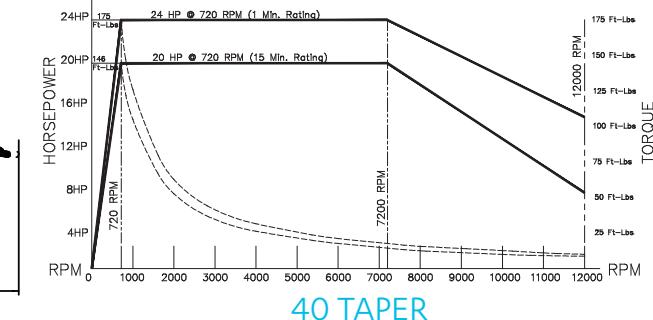
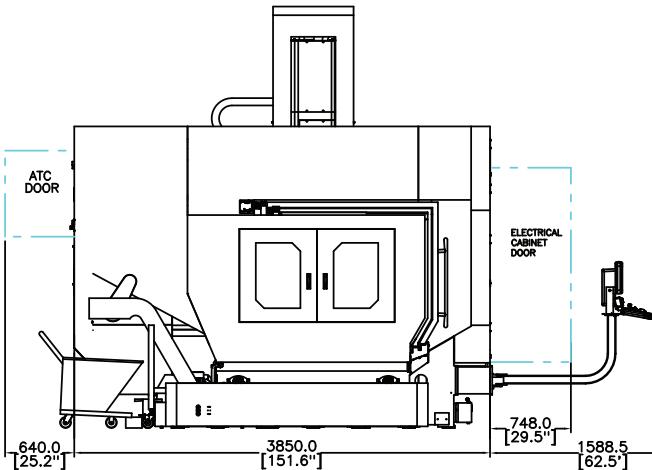
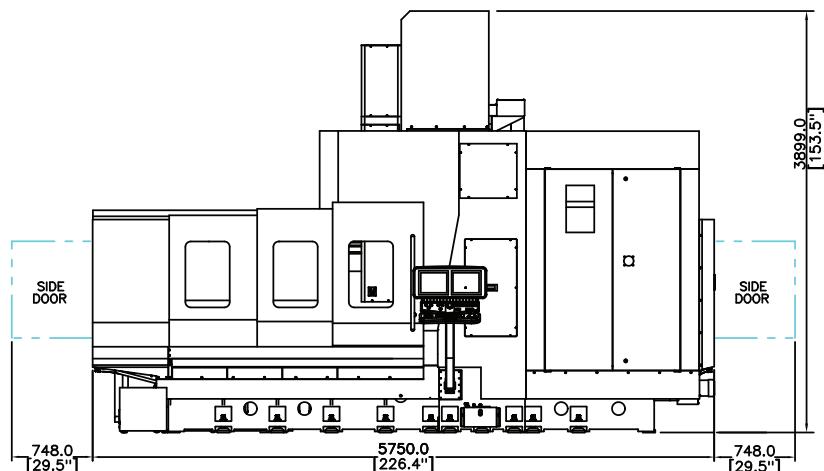
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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

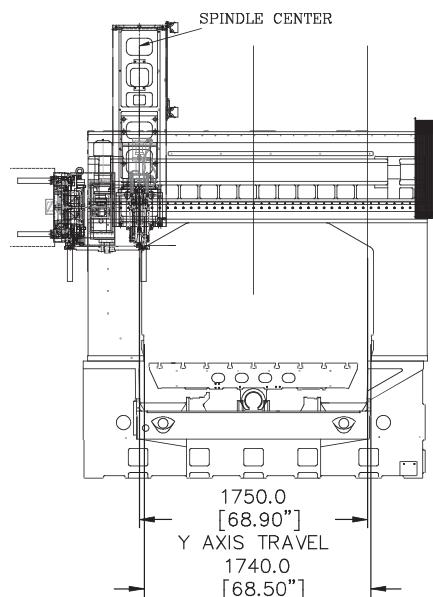
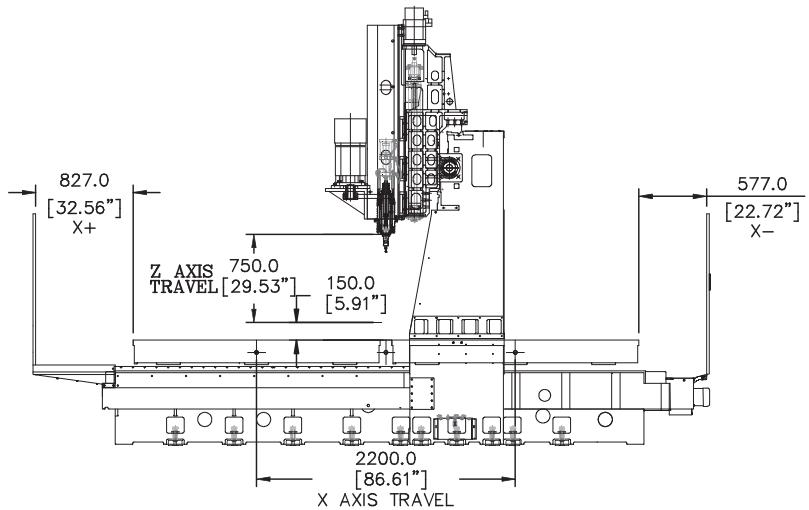
POWER & CAPACITY

DCX22i / DCX22i-50T

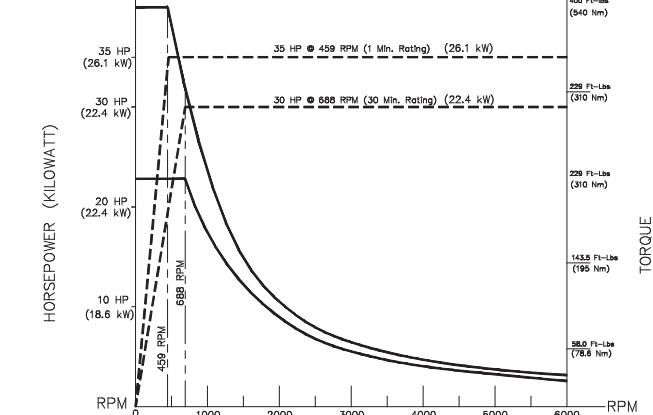


OPERATING DIMENSIONS

INTERIOR CLEARANCES



POWER & TORQUE



PALLET SPECIFICATION



Did you know? By simply pressing the HELP control button, an interactive help screen will appear with context sensitive data and/or helpful links that correspond to whatever area of the control the operator is currently viewing on screen. You can also search the Hurco Control's interactive help system by typing key words into the search box. BONUS: the interactive help system is updated automatically if you update your control's software so the help system always matches the control software level of the machine.

Find out more at Hurco.com/WinMax.

Machine Overview

- » 126 x 82.7 x 36.2 in (3,200 x 2,100 x 920 mm) travels
- » 118.1 x 66.9 in (3,000 x 1,700 mm) table, 24,200 lbs (11,000 kg) capacity
- » 6,000 RPM spindle
- » 80 HP (60 kW) peak spindle
- » 50T with 40 Station automatic swing arm tool changer
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » WinMax Mill Conversational or NC programming
- » Heavy duty linear rails for X and Y-axis
- » 5 second tool-to-tool ATC time
- » Twin augers and high capacity conveyor for chip removal
- » MAX5 ergonomically designed dual-screen console with 19" LCD screens
- » UltiMotion®

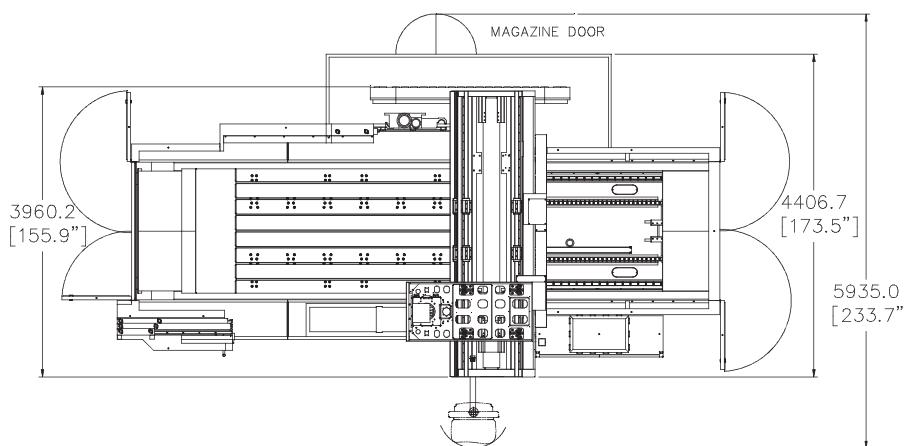
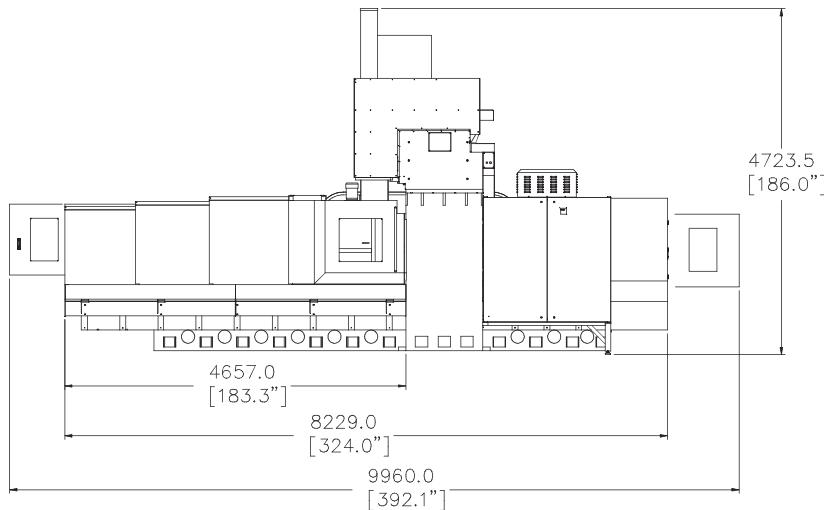
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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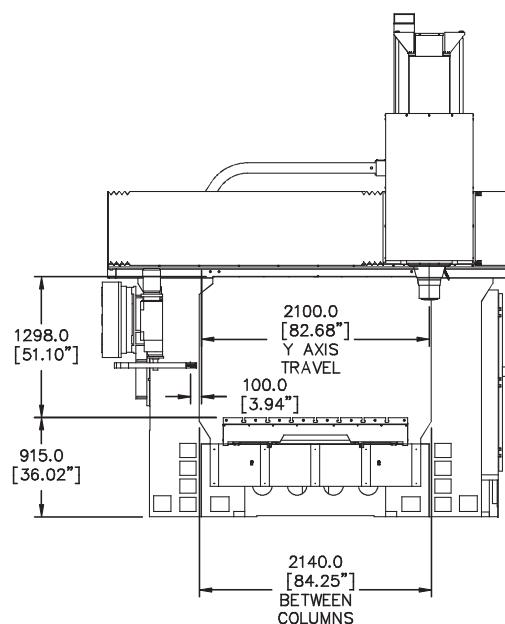
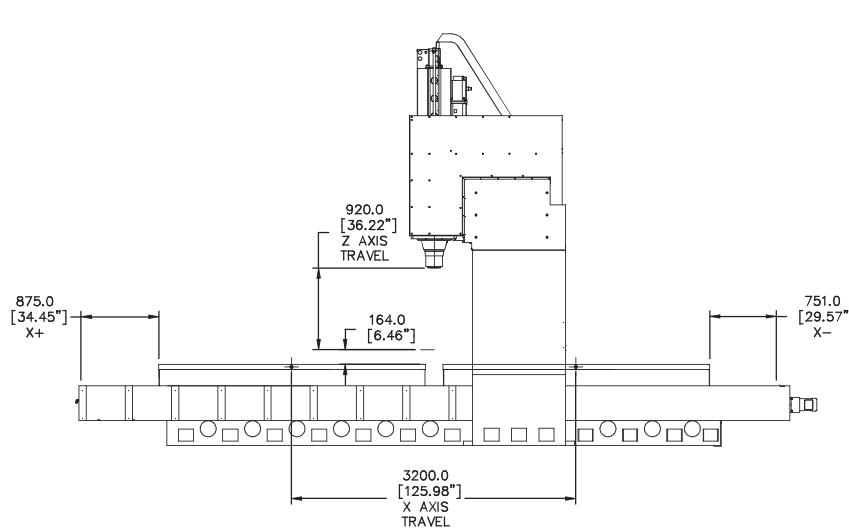
POWER & CAPACITY

DCX32i



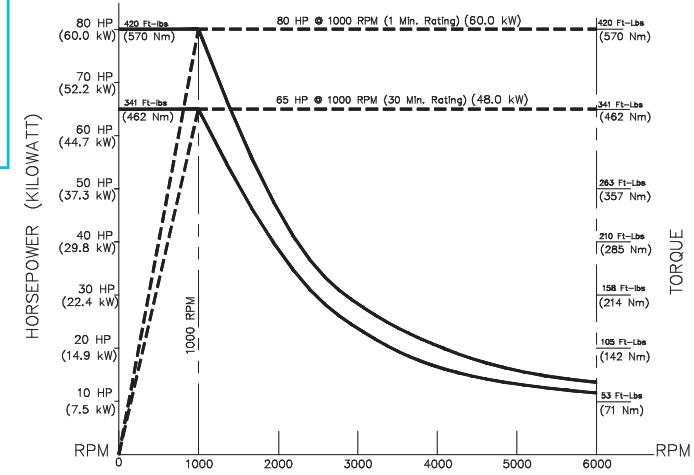
OPERATING DIMENSIONS

INTERIOR CLEARANCES



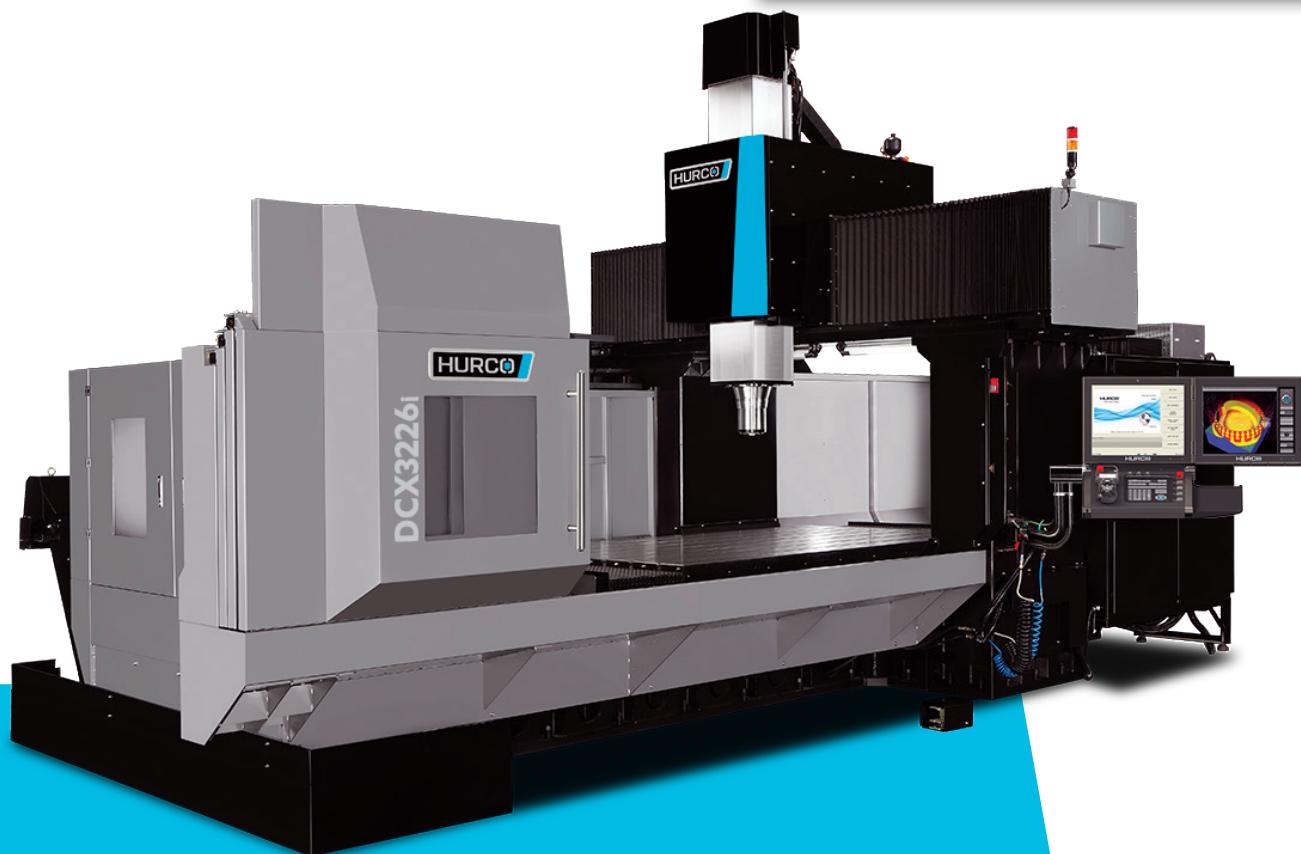
POWER & TORQUE

PALLET SPECIFICATION



DCX3226i

3.2 meter double-column machining center with more Y travel



Did you know? The Advanced Verification Graphics on the Hurco WinMax control has the ability to create a solid model of the part being programmed. In addition to using a simple box or cylinder shape, you can import an STL file to use as your stock geometry. This is perfect when programming secondary work, castings, or forgings. WinMax also lets you save and re-import graphics files as an STL file. This makes creating stock geometry files for secondary ops a breeze.

Find out more at Hurco.com/WinMax.

Machine Overview

- » 126 x 102 x 36.2 in (3,200 x 2,590 x 920 mm) travels
- » 118.1 x 82.7 in (3,000 x 2,100 mm) table, 30,864 lbs (14,000 kg) capacity
- » 6,000 RPM spindle
- » 80 HP (60 kW) peak spindle
- » 50T with 40 Station automatic swing arm tool changer
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » WinMax Mill Conversational or NC programming
- » Heavy duty linear rails for X and Y-axis
- » 5 second tool-to-tool ATC time
- » Twin augers and high capacity conveyor for chip removal
- » MAX5 ergonomically designed dual-screen console with 19" LCD screens
- » UltiMotion®

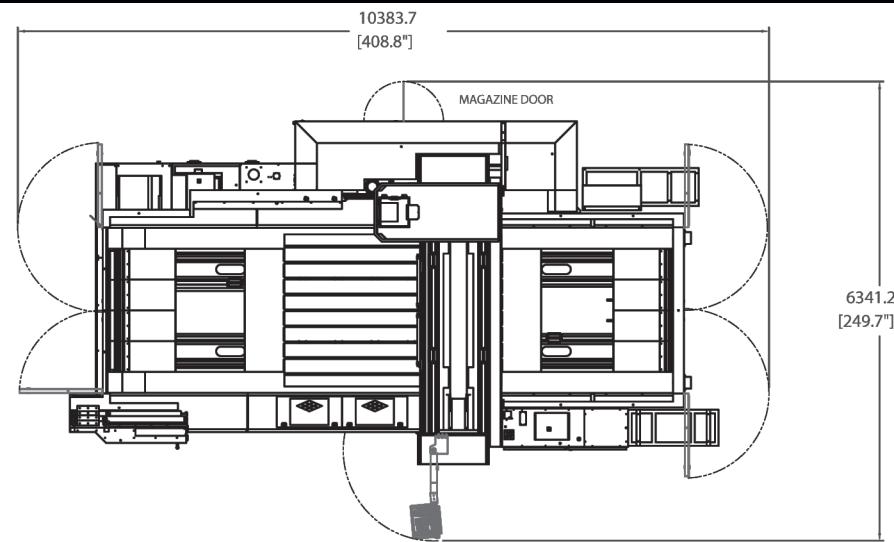
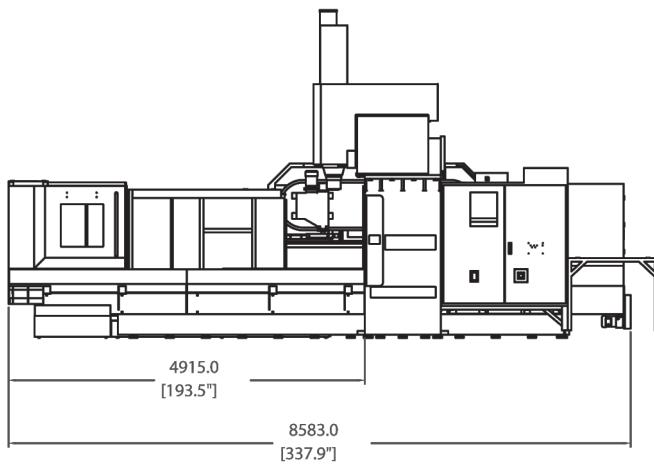
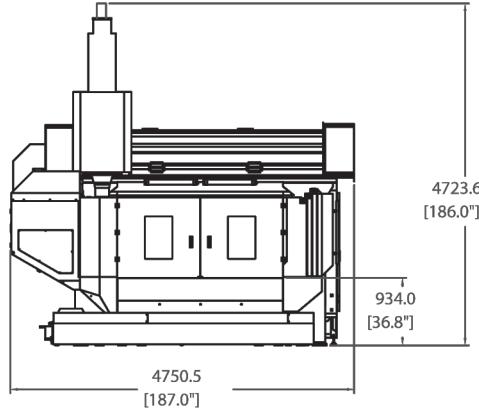
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

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

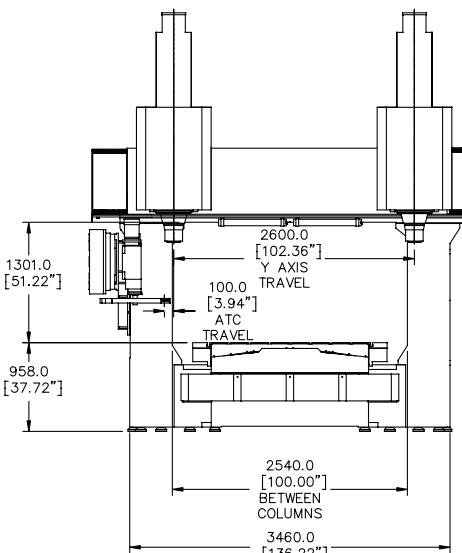
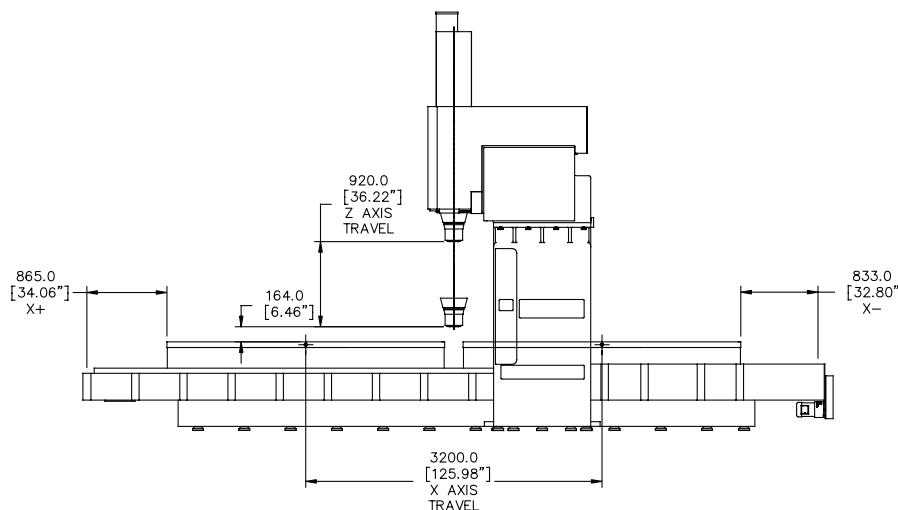
POWER & CAPACITY

DCX3226i



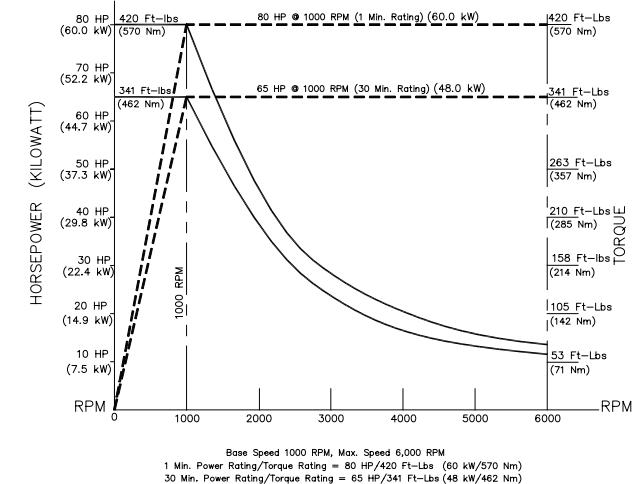
OPERATING DIMENSIONS

INTERIOR CLEARANCES



POWER & TORQUE

PALLET SPECIFICATION





Did you know? WinMax lets you merge an existing NC file with any conversational program, and allows that NC file to be used within a conversational pattern block without changing the G-code. Conversational blocks such as: transform plane, mirror image, scale, pattern loop rectangular, pattern loop rotate, or any other conversational pattern block are available within the Hurco control.

Find out more at Hurco.com/WinMax.

Machine Overview

- » 165.4 x 102.4 x 43.3 in (4,200 x 2,600 x 1,100 mm) travels
- » 157.5 x 82.7 in (4,000 x 2,100 mm) table, 35,274 lbs (16,000 kg) capacity
- » 6,000 RPM spindle
- » 80 HP (60 kW) peak spindle
- » 50T with 40 Station automatic swing arm tool changer
- » Robust control specifications (standard) – 2.7GHz Dual Core Processor, 4GB RAM Memory, 128GB Solid State Hard Drive, 10,000 block lookahead
- » Brushless AC Servos
- » WinMax Mill Conversational or NC programming
- » Heavy duty linear rails for X and Y-axis
- » Twin augers and high capacity conveyor for chip removal
- » Double-nut pretensioned ball screws
- » 5 second tool-to-tool ATC time
- » MAX5 ergonomically designed dual-screen console with 19" LCD screens
- » UltiMotion®

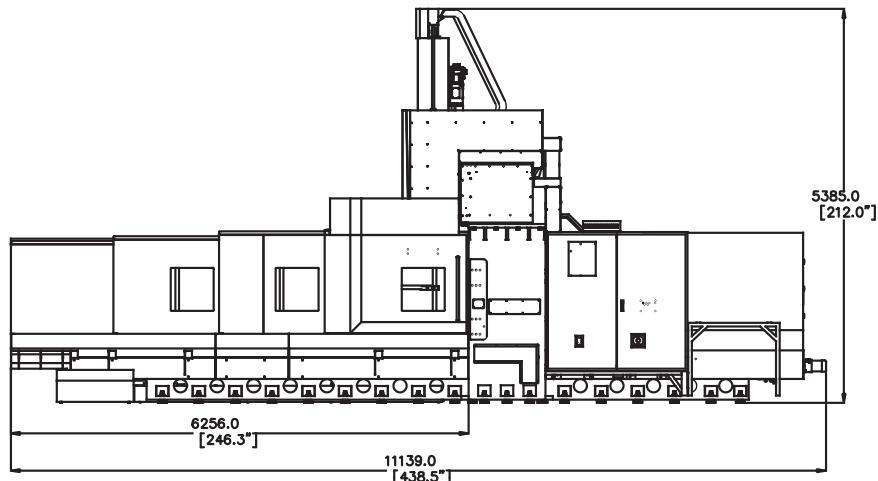
Machine specifications can be found on Pages 55-61

For more information about the Hurco Control, go to page 46.

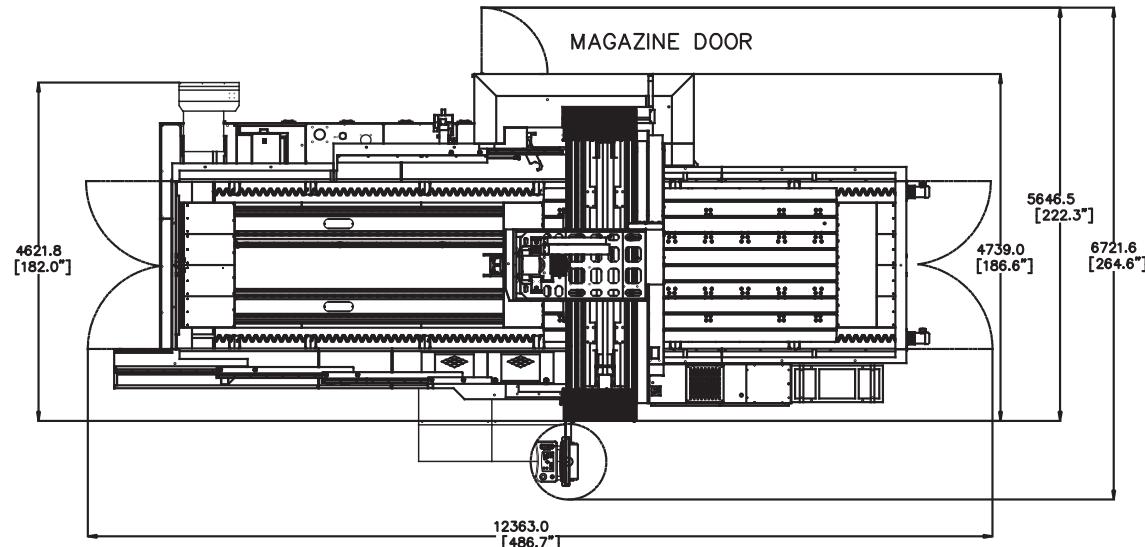
Machines shown with options. Specifications and information may change without notice.

POWER & CAPACITY

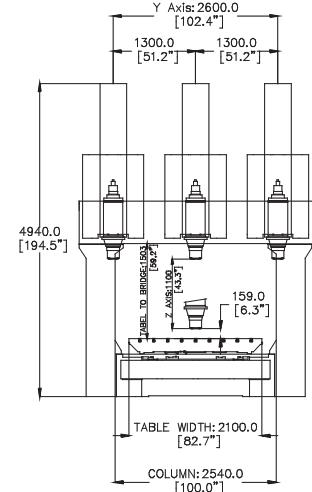
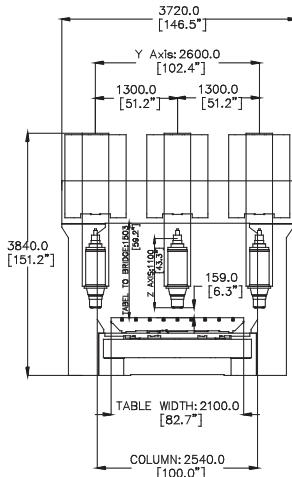
DCX42i



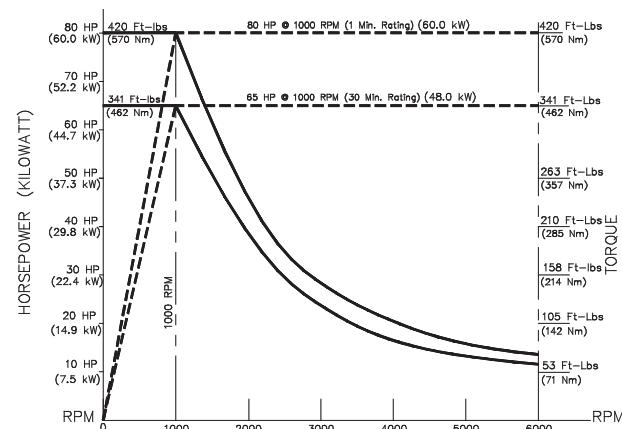
OPERATING DIMENSIONS



INTERIOR CLEARANCES



POWER & TORQUE



Designed and built for machinists.

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

Industry-Leading Control Specifications (Standard)

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



- » Override knobs with convenient one-press presets



- » Buttons designed with tactile cues for enhanced usability



- » Adjustable-angle keypad



- » Adjustable height control arm



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



- » Retractable QWERTY keyboard with trackball





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



Full graphics screen



Large DRO with mini graphics



Large graphics with mini DRO

- » Webcam
- » Additional coolant + air controls
- » Dual USB ports
- » Remote jog with LCD Digital Read Out lets you store data from the pendant
- » Modes such as part setup + tool setup are available from jog units with LCD option



The Industry's Most Flexible Control

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

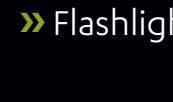
WinMax®



- » Integrated flashlight



- » Magnetic feet



- » Flashlight toggle button

- » Wireless remote jog unit option

WINMAX® CONTROL

Our control. Your expertise.

The integrated Hurco control powered by WinMax® is the most flexible and intuitive control in the industry. WinMax offers processing power and an intuitive graphical user interface that supports multiple machining strategies.

Hurco Conversational Programming is the gold standard in the industry, and NC Programming includes many high-end features.

Go from print to part faster.

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

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

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

CONVERSATIONAL PROGRAMMING

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

SETUP. PROGRAM. VERIFY.

CONVERSATIONAL PROGRAMMING



PRINT TO PART FASTER
NO MATTER WHICH TYPE OF PROGRAMMING YOU CHOOSE, THE HURCO CONTROL IS THE MOST FLEXIBLE & FASTEST - FROM PRINT TO PART IN THE INDUSTRY.

SKETCH
INPUT DIMENSIONS & SPECS FROM A ROUGH SKETCH, THEN REFINE WITH OUR CONTROLS.

PART PRINT
INPUT EXACT DIMENSIONS & SPECS FROM A PART PRINT TO START MACHINING WITH EASE.

3D
3D FILE
OUR CONTROL GENERATES TOOL PATHS FROM A 3D DXF OR SOLID-MODEL FILE TO ALLOW MACHINING ALMOST INSTANTLY.

WINMAX DESKTOP
INSTALL A COPY OF OUR CONTROL SOFTWARE ON YOUR DESKTOP TO PROGRAM REMOTELY.

NC/G-CODE PROGRAMMING

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

G90
ON-CONTROL EDITOR
PROGRAM OR MODIFY AT THE CONTROL WITH OUR ADVANCED EDITOR. USE COPY, PASTE & OTHER FEATURES THAT MAKE EDITING EASY.

CAD/CAM
POST CODE FROM CAD/CAM SYSTEM & STORE TO OUR CONTROL VIA USB OR ETHERNET.

NC INDUSTRY STANDARD NC
UPLOAD YOUR EXISTING PROGRAMS, SUCH AS FANUC®, & RUN THEM WITH LITTLE OR NO EDITING.



NC/CONVERSATIONAL MERGE

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



HURCO MACHINED PART
mind over metal®

YOUR EXPERTISE COMBINED WITH OUR CONTROL TO PRODUCE QUALITY PARTS.

NC/G-CODE PROGRAMMING

WINMAX® Software / Features

Latest Features

- » 3D Import
- » 3D DXF
- » AdaptiPath™
- » Customizable View Options
- » Dynamic Variable Look Ahead capable of up to 10,000 blocks (with UltiMotion®)
- » DXF Scaling

Programming

- » 4th Axis Rotary Wrap
- » 99 Work Offsets (NC)
- » 99 Tool Offsets (NC)
- » AutoCalc
- » Autosave
- » Blend Arcs
- » Canned Cycle Blocks
- » Chamfers
- » Comment Block
- » Concurrent Programming
- » Context Sensitive Help
- » Drill/Dwell Cycles (Chip Break + Peck)
- » Drilling and Boring with Inserted Drill
- » DXF Transfer
- » Frame Mill
- » Helical Interpolation
- » Hole Operations – Tap, Drill, Center Drill, Dwell and Ream
- » Inch/Metric Programming
- » Indexer Routine
- » Industry Standard NC (ISNC)
- » Language Toggle
- » Lines & Arcs
- » Linear Repeat
- » Mirror Image
- » M-Code Auxiliary Functions
- » NC/Conversational Merge
- » NC Editor
- » NC Macro Package (NCMP)
- » NC Probing Cycles
- » NC Productivity Package (NCP)

- » Fast Draw Graphics Engine
- » Font Magnification
- » Job List
- » Mill Frame with Enhanced Corner
- » Geometry
- » Multiple Options to Store Tool
- » NC Work Offsets with Conversational Programming
- » Probing Results

- » Relative Position DRO
- » Roughing Stock Allowance
- » Stick Lettering
- » Tool Life Management
- » TrueType® Fonts Along a Contour
- » User Assigned Tool Pockets
- » WinMax Desktop Complete

Verification

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

Operational

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



5-Axis

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

Lathe

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

New Feature:

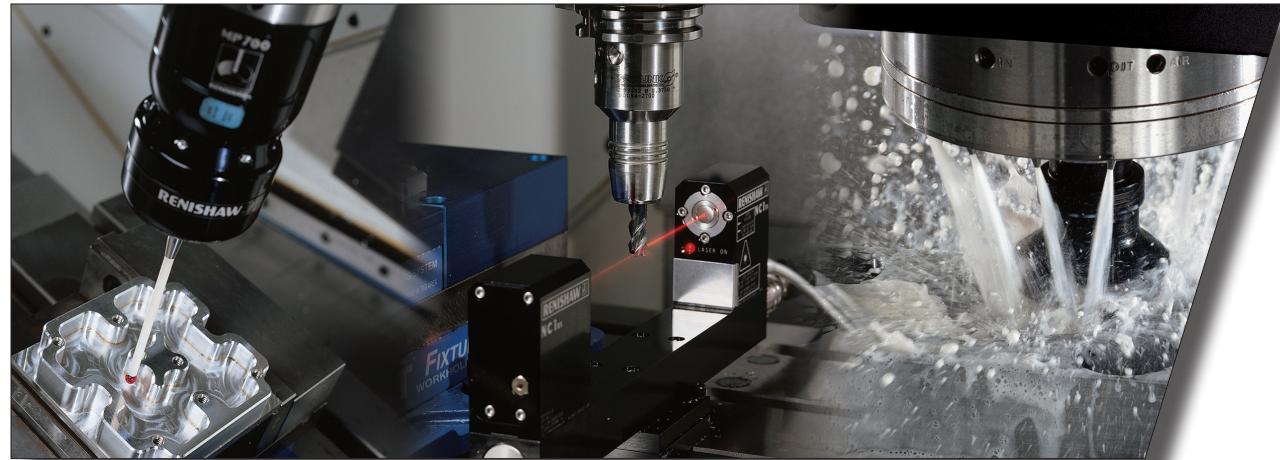
3D Import with 3D DXF Technology

- Hurco's 3D Import feature includes 3D DXF technology that now displays all CAD geometry, including splines and Z-depths.
- Integrated CAD/CAM and tool path simulation
- No need to enter feature dimensions – simply click and cut
- Transform Planes created automatically for easy 5-sided conversational programming – no data entry required

ACCESSORIES

» Productivity Options

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



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

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

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

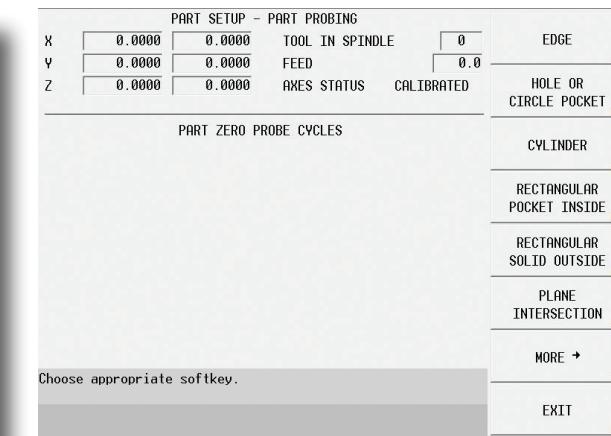
Tool Probing Hurco has two compact, yet robust, tool setting probe packages for accurate measurement of tool length and diameter in a free spindle state or in rotation. The basic package uses a stylus touch application and the non-contact package uses a laser beam non-contact application, and full support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

PART & TOOL PROBING

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

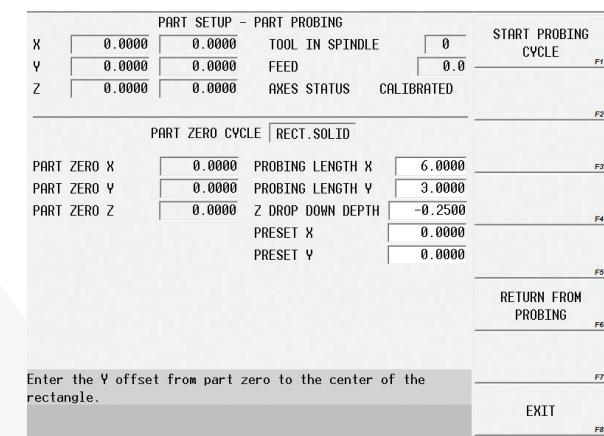
```
N300
M1(TEST 3-CALIBRATE "Z" AXIS-UPDATE-)
(PROBE TOOL OFFSET NUMBER)
(PROTECTED POSITION OVER Z SURFACE)
(MEASURE TOP SURFACE-Z DATUM)
(Protected Positioning Move)
G65 P9810 X1.49Y-4.1F100
G65 P9811 Z-.167 W1
#100=#137
G90G31Z1.
N400
M1(TEST 4-MEASURE CENTER OF RECT POCKET)
(STORED IN WORK OFFSET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

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



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

It's really this easy



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

» Machinist's Favorite: Hurco Skew Probe Cycles

Part Skew Probe Cycles allow the operator to probe a part for skew, which eliminates the need to indicate large parts straight before running the program. The Skew cycle will "skew" the program to match the skewed angle of the part on the table.

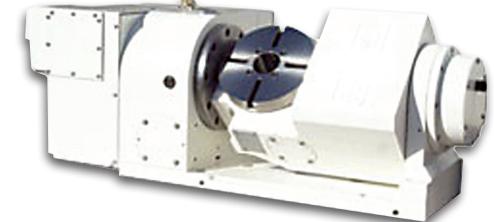
List of Skew Cycles: Edge, Hole or Circle Pocket, Cylinder, Rectangular Pocket Inside, Rectangular Solid Outside, Two Point Edge.

ACCESSORIES

» Rotary tables to expand your capabilities.

Rotary/Tilt Tables

Model	Table Dia	ThruHole Dia	Table Height	Center Height	Accuracy		Repeatability	Clamping Force		Max Load	
					Rot	Tilt		Rot	Tilt	Horz	Vert
HT 100	110 mm	30 mm	207 mm	150 mm	30 sec	60 sec	±2 sec	235 Nm	235 Nm	35 Kg	20 Kg
HT 200	200 mm	30 mm	270 mm	210 mm	25 sec	50 sec	±2 sec	490 Nm	833 Nm	100 Kg	50 Kg
HT 250	250 mm	70 mm	300 mm	225 mm	15 sec	60 sec	±2 sec	588 Nm	1,176 Nm	100 Kg	60 Kg
HT 320	320 mm	110 mm	350 mm	255 mm	15 sec	30 sec	±2 sec	1,392 Nm	1,392 Nm	200 Kg	100 Kg



Rotary Tables

Model	Table Dia	ThruHole Dia	Table Height	Center Height	Accuracy		Repeatability	Clamping Force		Max Load	
					Rot	Tilt		Rot	Tilt	Horz	Vert
H 160	165 mm	39.8 mm	185 mm	140 mm	25 sec		±2 sec	245 Nm		160 Kg	80 Kg
H 200	200 mm	39.8 mm	185 mm	140 mm	25 sec		±2 sec	245 Nm		160 Kg	80 Kg
H 250	250 mm	70 mm	220 mm	180 mm	25 sec		±2 sec	441 Nm		300 Kg	125 Kg
H 320	320 mm	70 mm	220 mm	210 mm	25 sec		±2 sec	441 Nm		300 Kg	125 Kg
H 400	400 mm	150 mm	250 mm	250 mm	15 sec		±4 sec	902 Nm		500 Kg	300 Kg
H 500	500 mm	180 mm	290 mm	310 mm	15 sec		±4 sec	1,225 Nm		350 Kg	600 Kg
H 630	630 mm	254 mm	320 mm	400 mm	15 sec		±4 sec	3,432 Nm		400 Kg	800 Kg



Rotary Accessories



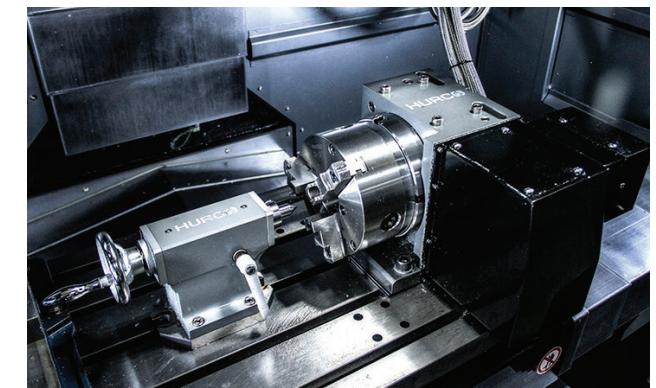
Power Tail Supports



Tail Stocks



3-Jaw Scroll Chucks



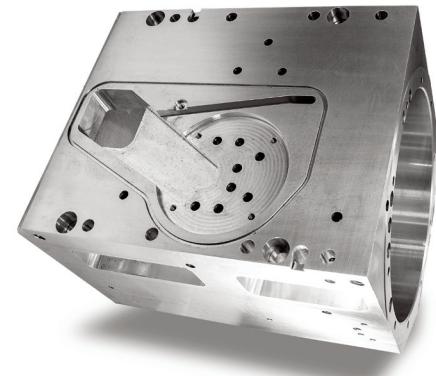
3D IMPORT CONTROL

With the addition of 3D Import to the Hurco control, you can go from “solid to part” seamlessly – eliminating the need for extra steps.



Hurco engineers have invented **3D Import**, which includes **3D DXF technology** that displays all geometry that the CAD system outputs, including splines. With **3D DXF**, simply select the bottom of a contour, and the Z-axis depths will also be automatically input into the conversational block.

While conversational programming is the cornerstone of the Hurco control, it is equally powerful for NC as it is conversational. Additionally, Hurco's exclusive NC/Conversational Merge feature gives you the best of both programming methods. An often overlooked benefit of the Hurco control is the powerful specifications that come standard. The Hurco control is equipped with the most robust technical specifications of any control on the market. For example, the Hurco MAX5 control comes with 4GB RAM Memory, a 2.7 GHz Dual Core Processor, a 128GB Solid State Hard Drive, up to 4,000 bps processing speed, and up to 10,000 block look ahead due to Hurco's patented UltiMotion feature.



Find out more at
**HURCO.com/
3DImport**

STANDARD & OPTIONAL ITEMS	HTM 30i	VM 5i	VM 10i	VM 10HSi	VM 20i	VM 30i	VMX 24i/Di	VMX 30i/Di	VMX 30HSi	VMX 42i/Di	VMX 50i/-50T	VMX 6030i/-50T	VMX 64i/-50T	VMX 84i/50T	BX 40i	BX 50i	BX 60i	DCX 22i/-50T	DCX 32i	DCX 3226i	DCX 42i
AC spindle motor	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	—	—	—	
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	
Direct drive Z-axis (no mechanical counterbalance)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	—	—	—	—	
Spindle thermal chiller	O	—	S	S	S	S	O	O	S	O	O	O	O	O	S	S	S	O	S	S	
High-torque package	—	—	—	—	—	—	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	
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	
UltiMotion	O	O	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	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	
ANSI door interlock (B11.23)	—	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	O	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	
Expanded 40 station tool changer	—	—	—	—	—	—	O	O	O	O	O	O	O	—	—	—	—	—	—	—	
Expanded 96 station tool changer	—	—	—	—	—	—	—	—	—	—	—	—	O	O	—	—	—	—	—	—	
Chip auger	—	O	O	O	O	O	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Lift-up chip conveyor	—	—	O	O	O	O	S	S	S	S	S	S	S	(2 pc Barnes)	S	S	S	S	S	S	
Enclosure wash down system	—	—	—	—	—	—	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	
Flood coolant system	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
Spindle coolant ring	—	—	—	—	—	—	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	—	—	—	—	—	—	
Coolant thru spindle /300 psi	—	—	O	—	O	O	O	O	O	O	O	O	O	O	S	S	O	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	
LED work light(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	
Renishaw part probing	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	
4th/5th axis rotary tables	—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	

*All VM Series Machines are equipped with the basic remote jog. The LCD Remote Jog available as an option.

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

SPECIFICATIONS

	HTM30i	VM5i	VM10i	VM10HSi	VM20i
CAPACITY	Table size	35.4 x 16.1 in / 900 x 410 mm	18 x 14 in / 457 x 356 mm	30 x 16 in / 762 x 406 mm	30 x 16 in / 762 x 406 mm
	Table T-slots	3 x 0.63 in / 3 x 16 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
	Max. weight on table	992 lb / 450 kg	500 lb / 227 kg	1500 lb / 680 kg	750 lb / 340.2 kg
	Spindle nose to table	4.0 in / 100 mm	4.0 in / 101.6 mm	4.0 in / 101.6 mm	4.0 in / 101.6 mm
TRAVEL	X-axis	30 in / 760 mm	18 in / 457 mm	26 in / 660 mm	40 in / 1016 mm
	Y-axis	16 in / 406 mm	14 in / 356 mm	16 in / 406 mm	20 in / 508 mm
	Z-axis	20 in / 508 mm	14 in / 356 mm	20 in / 508 mm	20 in / 508 mm
SPINDLE	Max. spindle speed	8000 rpm	8000 rpm	12000 rpm	20000 rpm
	Spindle power (peak – 1 min)	12 hp / 9 kW	10 hp / 7.5 kW	15 hp / 11.0 kW	20 hp / 15 kW
	Spindle torque (peak – 1 min)	42 ft. lbs / 57 Nm @ 1500 rpm	36 ft. lbs / 48.8 Nm @ 1450 rpm	45 ft. lbs / 61 Nm @ 1740 rpm	60 ft. lbs / 81.3 Nm @ 1740 rpm
	Tool type	CAT 40	CAT 40	CAT 40 / Big Plus®	BT30
ATC	Tool capacity	16	16	20	20
	Max. tool diameter	4.0 in / 100 mm	3.5 in / 90 mm	3.5 in / 90 mm	3.5 in / 90 mm
	Max. tool length	11.0 in / 280 mm	7.9 in / 200 mm	9.8 in / 250 mm	9.8 in / 250 mm
	Max. tool weight	10 lb / 4.5 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
	Tool-to-tool ATC time	9 sec	3.5 sec	2.5 sec	2.5 sec
FEEDRATE	Rapid Traverse XYZ per minute	X = 500 in / 12 m	X= 748 in / 19 m	X= 945 in / 24 m	X= 945 in / 24 m
		Y = 500 in / 12 m	Y= 748 in / 19 m	Y= 945 in / 24 m	Y= 945 in / 24 m
		Z= 300 in / 7.6m	Z= 748 in / 19 m	Z= 945 in / 24 m	Z= 945 in / 24 m
	Program. feedrate / minute	300 in / 7.6 m	748 in / 19 m	945 in / 24 m	945 in / 24 m
SIZE	Maximum operating floor space	142.7 x 137.6 in / 3624 x 3495 mm	64.3 x 114.3 in / 1633.2 x 2903.2 mm	118.1 x 113.8 in / 3000 x 2891 mm	126.1 x 114.2 in / 3204 x 2900 mm
	Machine height	101 in / 2565 mm	94.1 in / 2390 mm	99.6 in / 2530 mm	101 in / 2564 mm
	Machine weight	7000 lb / 3175 kg	5800 lb / 2630 kg	6200 lb / 2818 kg	6825 lb / 3100 kg

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

SPECIFICATIONS

	VM30i	VMX24i	VMX24Di	VMX30i
CAPACITY	Table size	52 x 20 in / 1321 x 508 mm	30 x 20 in / 760 x 508 mm	30 x 20 in / 760 x 508 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
	Max. weight on table	2000 lb / 907 kg	3000 lb / 1360 kg	3000 lb / 1360 kg
	Spindle nose to table	4.0 in / 101.6 mm	6.0 in / 152 mm	6.0 in / 152 mm
TRAVEL	X-axis	50 in / 1270 mm	24 in / 610 mm	24 in / 610 mm
	Y-axis	20 in / 508 mm	20 in / 508 mm	20 in / 508 mm
	Z-axis	20 in / 508 mm	24 in / 610 mm	24 in / 610 mm
SPINDLE	Max. spindle speed	12000 rpm	12000 rpm	15000 rpm
	Spindle power (peak)	20 hp / 15 kW	12 hp / 9 kW	12 hp / 9 kW
	Spindle torque (peak)	60 ft. lbs / 81.3 Nm @ 1740 rpm	105 ft. lbs / 143 Nm @ 600 rpm	42.3 ft. lbs / 57.35 Nm @ 600 rpm
	Tool type	CAT 40 / Big Plus®	CAT 40 / Big Plus®	CAT 40 / Big Plus®
ATC	Tool capacity	20	30	30
	Max. tool diameter	3.5 in / 90 mm	3.1 in / 80 mm	3.1 in / 80 mm
	Max. tool length	9.8 in / 250 mm	11.8 in / 300 mm	11.8 in / 300 mm
	Max. tool weight	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
	Tool-to-tool ATC time	2.5 sec	2 sec	2 sec
FEEDRATE	Rapid Traverse XYZ per minute	X= 945 in / 24 m	X= 1496 in / 38 m	X= 1496 in / 38 m
		Y= 945 in / 24 m	Y= 1496 in / 38 m	Y= 1496 in / 38 m
		Z= 945 in / 24 m	Z= 1260 in / 32 m	Z= 1260 in / 32 m
	Program. feedrate / minute	945 in / 24 m	1260 in / 32 m	1260 in / 32 m
SIZE	Maximum operating floor space	160.7 x 108 in / 4083 x 2743 mm	154.7 x 159.3 in / 3929 x 4046 mm	155.1 x 156.5 in / 3838 x 3975 mm
	Machine height	101.4 in / 2576 mm	106.7 in / 2710 mm	117.9 in / 2994.66 mm
	Machine weight	9339 lb / 4245 kg	10468 lb / 4748 kg	10692 lb / 4850 kg

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

SPECIFICATIONS

	VMX30Di	VMX30HSi	VMX42i	VMX42Di
CAPACITY	Table size	40 x 20 in / 1020 x 508 mm	40 x 20 in / 1020 x 508 mm	50 x 24 in / 1270 x 610 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
	Max. weight on table	3000 lb / 1360 kg	3000 lb / 1360 kg	3000 lb / 1360 kg
	Spindle nose to table (min)	6.0 in / 152 mm	6.0 in / 152 mm	6.0 in / 152 mm
TRAVEL	X-axis	30 in / 762 mm	30 in / 762 mm	42 in / 1067 mm
	Y-axis	20 in / 508 mm	20 in / 508 mm	24 in / 610 mm
	Z-axis	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm
SPINDLE	Max. spindle speed	15000 rpm	18000 rpm	12000 rpm
	Spindle power (peak – 1 min)	20 hp / 15 kW	47 hp / 35 kW	24 hp / 18 kW
	Spindle torque (peak – 1 min)	70.4 ft. lbs / 95.45 Nm @ 1500 rpm	88 ft. lbs / 119 Nm @ 2800 rpm	175 ft. lbs / 237 Nm @ 720 rpm
	Tool type	CAT 40 / Big Plus®	HSK 63 Form A	CAT 40 / Big Plus®
ATC	Tool capacity	30	30	30 or 40
	Max. tool diameter	3.1 in / 80 mm	3.1 in / 78.7 mm	3.1 in / 80 mm
	Max. tool length	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	Max. tool weight	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
FEEDRATE	Tool-to-tool ATC time	2 sec	1.5 sec	2 sec
	Rapid Traverse XYZ per minute	X= 1496 in / 38 m	X= 1771 in / 45 m	X= 1496 in / 38 m
		Y= 1496 in / 38 m	Y= 1771 in / 45 m	Y= 1496 in / 38 m
		Z= 1260 in / 32 m	Z= 1575 in / 40 m	Z= 1260 in / 32 m
SIZE	Program. feedrate / minute	1260 in / 32 m	1575 in / 40 m	1260 in / 32 m
	Maximum operating floor space	155.1 x 156.5 in / 3838 x 3975 mm	161 x 156.3 in / 4089 x 3970 mm	180 x 144.9 in / 4572 x 3680 mm
	Machine height	118.5 in / 3009.9 mm	108.1 in / 2745 mm	115 in / 2920 mm
	Machine weight	10692 lb / 4850 kg	11023 lb / 5000 kg	14330 lb / 6500 kg 15011 lb / 6809 kg

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

SPECIFICATIONS

	VMX50i	VMX50i-50T	VMX6030i	VMX6030i-50T
CAPACITY	Table size	59 x 26 in / 1500 x 660 mm	59 x 26 in / 1500 x 660 mm	66 x 30 in / 1676 x 762 mm
	Table T-slots	6 x .71 in / 6 x 18 mm	6 x .71 in / 6 x 18 mm	7 x .71 in / 7 x 18 mm
	Max. weight on table	3000 lb / 1360 kg	3000 lb / 1360 kg	3000 lb / 1360 kg
	Spindle nose to table (min)	6.0 in / 152 mm	6.0 in / 152 mm	4.0 in / 102 mm
TRAVEL	X-axis	50 in / 1270 mm	50 in / 1270 mm	60 in / 1524 mm
	Y-axis	26 in / 660 mm	26 in / 660 mm	30 in / 762 mm
	Z-axis	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm
SPINDLE	Max. spindle speed	12000 rpm	8000 rpm	12000 rpm
	Spindle power (peak – 1 min)	24 hp / 18 kW	29.7 hp / 22.2 kW	24 hp / 18 kW
	Spindle torque (peak – 1 min)	175 ft. lbs / 237 Nm @ 720 rpm	260 ft. lbs / 353 Nm @ 600 rpm	175 ft. lbs / 237 Nm @ 720 rpm
	Tool type	CAT 40 / Big Plus®	CAT 50	CAT 40 / Big Plus®
ATC	Tool capacity	30 or 40	30	40
	Max. tool diameter	3.1 in / 78.7 mm	4.92 in / 125 mm	3.1 in / 78.7 mm
	Max. tool length	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	Max. tool weight	15.4 lb / 7 kg	33 lb / 15 kg	15.4 lb / 7 kg
FEEDRATE	Tool-to-tool ATC time	2 sec	4 sec	2 sec
	Rapid Traverse XYZ per minute	X= 1260 in / 32 m	X= 1260 in / 32 m	X= 1260 in / 32 m
		Y= 1260 in / 32 m	Y= 1260 in / 32 m	Y= 1260 in / 32 m
		Z= 944 in / 24 m	Z= 944 in / 24 m	Z= 944 in / 24 m
SIZE	Program. feedrate / minute	944 in / 24 m	944 in / 24 m	944 in / 24 m
	Maximum operating floor space	198.8 x 172.4 in / 5049 x 4378 mm	198.8 x 172.4 in / 5049 x 4378 mm	222.6 x 185.7 in / 5654 x 4717 mm
	Machine height	116.5 in / 2959mm	118.6 in / 3014 mm	130 in / 3303 mm
	Machine weight	17937 lb / 8136 kg	20100 lb / 9136 kg	20500 lb / 9298 kg

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

The MAX5 Control
Powered by WinMax®



New Feature:

3D Import with 3D DXF Technology

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

To learn more scan
the QR code



or visit

[HURCO.com/
3DImport](http://HURCO.com/3DImport)

SPECIFICATIONS

	VMX64i	VMX64i-50T	VMX84i	VMX84i-50T
CAPACITY	Table size	66 x 35 in / 1676 x 889 mm	66 x 35 in / 1676 x 889 mm	86 x 34 in / 2184 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
	Max. weight on table	6000 lb / 2722 kg	6000 lb / 2722 kg	5000 lb / 2268 kg
	Spindle nose to table (min)	6.0 in / 152 mm	6.0 in / 152 mm	5 in / 127 mm
TRAVEL	X-axis	64 in / 1625 mm	64 in / 1625 mm	84 in / 2134 mm
	Y-axis	34 in / 864 mm	34 in / 864 mm	34 in / 864 mm
	Z-axis	30 in / 762 mm	30 in / 762 mm	30 in / 762 mm
SPINDLE	Max. spindle speed	12000 rpm	8000 rpm	12000 rpm
	Spindle power (peak – 1 min)	24 hp / 18 kW	30 hp / 22.2 kW	24 hp / 18 kW
	Spindle torque (peak – 1 min)	175 ft. lbs / 237 Nm @ 720 rpm	260 ft. lbs / 353 Nm @ 600 rpm	175 ft. lbs / 237 Nm @ 720 rpm
	Tool type	CAT 40 / Big Plus®	CAT 50	CAT 40 / Big Plus®
ATC	Tool capacity	30 40 or 96	32	40 or 96
	Max. tool diameter	3.1 in / 78.7 mm	4.9 in / 124.4 mm	2.95 in / 74.9 mm
	Max. tool length	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	Max. tool weight	15.4 lb / 7 kg	33 lb / 15 kg	15.4 lb / 7 kg
FEEDRATE	Tool-to-tool ATC time	2 sec	4 sec	2 sec
	Rapid Traverse XYZ per minute	X= 709 in / 18 m	X= 709 in / 18 m	X= 709 in / 18 m
		Y= 709 in / 18 m	Y= 709 in / 18 m	Y= 709 in / 18 m
		Z= 530 in / 13.5 m	Z= 530 in / 13.5 m	Z= 530 in / 13.5 m
SIZE	Program. feedrate / minute	530 in / 13.5 m	530 in / 13.5 m	530 in / 13.5 m
	Maximum operating floor space	249.5 x 175.5 in / 6338 x 4457 mm	249.5 x 175.5 in / 6338 x 4457 mm	298.2 x 175.2 in / 7574 x 4450 mm
	Machine height	128.3 in / 3258 mm	128.3 in / 3258 mm	130.5 in / 3316 mm
	Machine weight	32187 lb / 14600 kg 32837 lb / 14925 kg 33337 lb / 15153 kg	32187 lb / 14600 kg	36806 lb / 16730 kg 41116 lb / 18689 kg

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

SPECIFICATIONS

	BX40i	BX50i	BX60i	
CAPACITY	Table size	41.3 x 27.6 in / 1050 x 700 mm	59.1 x 37.8 in / 1500 x 960 mm	74.8 x 51.2 in / 1900 x 1300 mm
	Table T-slots	6 x 0.7 in / 6 x 18 mm	6 x .87 in / 6 x 22 mm	8 x .87 in / 8 x 22 mm
	Max. weight on table	2204 lbs / 1000 kg	5512 lbs / 2500 kg	13200 lbs / 6000 kg
	Spindle nose to table (min)	7 in / 178 mm	7.08 in / 180 mm	7.08 in / 180 mm
TRAVEL	X-axis	40.2 in / 1020 mm	53.2 in / 1350mm	63 in / 1600 mm
	Y-axis	27.6 in / 700 mm	37.4 in / 950 mm	51.2 in / 1300 mm
	Z-axis	19.7 in / 500 mm	23.6 in / 600 mm	27.6 in / 700 mm
SPINDLE	Max. spindle speed	18000 rpm	18000 rpm	18000 rpm
	Spindle power (peak – 1 min)	47 hp / 35 kW	47 hp / 35 kW	47 hp / 35 kW
	Spindle torque (peak – 1 min)	88 ft. lbs / 119 Nm @ 2800 rpm	88 ft. lbs / 119 Nm @ 2800 rpm	88 ft. lbs / 119 Nm @ 2800 rpm
	Tool type	HSK 63	HSK 63	HSK 63
ATC	Tool capacity	30	30	30
	Max. tool diameter	3 in / 76 mm	3 in / 76 mm	3 in / 76 mm
	Max. tool length	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	Max. tool weight	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
FEEDRATE	Tool-to-tool ATC time	1.5 sec	2.5 sec	1.5 sec
	Rapid Traverse XYZ per minute	X= 1535 in / 39 m	X= 1535 in / 39 m	X= 1535 in / 39 m
		Y= 1535 in / 39 m	Y= 1535 in / 39 m	Y= 1535 in / 39 m
		Z= 1535 in / 39 m	Z= 1535 in / 39 m	Z= 1535 in / 39 m
SIZE	Program. feedrate / minute	1535 in /39 m	1535 in /39 m	1535 in /39 m
	Maximum operating floor space	188.3 x 138.5 in / 4782 x 3518 mm	182.2 x 175.7 in / 4627 x 4463 mm	194.7 x 212.5 in / 4945 x 5397 mm
	Machine height	124 in / 3149 mm	140.2 in / 3560 mm	149.6 in / 3800 mm
	Machine weight	20062 lb / 9100 kg	28600 lb / 13000 kg	42000 lb / 19051 kg

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BRIDGING THE SKILLS GAP

Subscribe to the New YouTube Channel

Wade Moore is passionate about manufacturing and education. In order to attract more people to our industry, he started a YouTube Channel that illustrates the technology that defines manufacturing in the 21st century. Watch his journey as a young entrepreneur and job shop owner.

The Wade Moore / Hurco Connection

Even though Wade Moore is the great grandson of Richard Moore, of Moore jig borer fame, he wasn't planning to start his own shop after he graduated from college with an engineering degree. Entering the competition sponsored by Hurco called the Chipmaker Challenge 2014 inspired him to control his future and pursue his dream.

"Doing the Chipmaker Challenge is what really pushed me to make a business plan, and motivate myself to take a leap towards manufacturing as a full time job."

Wade Moore

SPECIFICATIONS		DCX22i	DCX22i-50T	DCX32i	DCX3226i	DCX42i
CAPACITY	Table size	82.7 x 63 in / 2100 x 1600 mm	82.7 x 63 in / 2100 x 1600 mm	118.1 x 66.9 in / 3000 x 1700 mm	118.1 x 82.7 in / 3000 x 2100 mm	157.5 x 82.7 in / 4000 x 2100 mm
	Max. weight on table	13200 lb / 6000 kg	17600 lb / 8000 kg	24200 lb / 11000 kg	30864.7 lb / 14000 kg	35274 lb / 16000 kg
	Spindle nose to table (min)	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 / 1750 mm	68.9 in / 1750 mm	83.9 in / 2130 mm	99.6 in / 2530 mm	99.6 in / 2530 mm
TRAVEL	X-axis	86.6 in / 2200 mm	86.6 in / 2200 mm	126 in / 3200 mm	126 in / 3200 mm	165.4 in / 4200 mm
	Y-axis	66.9 in / 1700 mm	66.9 in / 1700 mm	82.7 in / 2100 mm	102.4 in / 2600 mm	102.4 in / 2600 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 / 1100 mm
SPINDLE	Max. spindle speed	12000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm
	Spindle power (peak – 1 min)	24 hp / 18 kW	35 hp / 26 kW	107 hp / 79.8 kW	80 hp / 60 kW	80 hp / 60 kW
	Spindle torque (peak – 1 min)	175 ft. lbs / 237 Nm @ 720 rpm	401 ft. lbs / 544 Nm @ 458 rpm	564 ft. lbs / 764 Nm @ 1000 rpm	420 ft. lbs / 570 Nm @ 1000 rpm	420 ft. lbs / 570 Nm @ 1000 rpm
	Tool Type	CAT / BT / DIN 40	CAT / BT / DIN 50			
ATC	Tool capacity	40	40	40	40	40
	Max. 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
	Max. 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
	Max. tool weight	15.4 lb / 7 kg	33 lb / 15 kg	33 lb / 15 kg	33 lb / 15 kg	33 lb / 15 kg
FEEDRATE	Tool-to-tool ATC time	5 sec	5 sec	5 sec	5 sec	5 sec
	Rapid Traverse XYZ per minute	XYZ = 945 in / 24 m —	XY = 591 in / 15 m Z = 472 in / 12 m	XY = 591 in / 15 m Z = 394 in / 10 m	XY = 591 in / 15 m Z = 394 in / 10 m	XY = 492 in / 12.5 m Z = 394 in / 10 m
	Prog. feedrate per minute	945 in / 24 m unlimited*	472 in / 11.9 m unlimited*	394 in / 10 m unlimited*	394 in / 10 m unlimited*	394 in / 10 m unlimited*
SIZE	Maximum operating floor space	285.4 x 239.3 in / 7246 x 6078.5 mm	259.5 x 237.4 in / 6591 x 6031 mm	392.1 x 233.7 in / 9960 x 5935 mm	408.8 x 249.7 in / 10383.7 x 6341.2 mm	485.3 x 264.4 in / 12326 x 6716 mm
	Machine height	153.5 in / 3899 mm	152.6 in / 3875 mm	186 in / 4700 mm	186 in / 4723.5 mm	196.3 in / 4985 mm
	Machine weight	44000 lb / 20000 kg	45122 lb / 20510 kg	76870 lb / 34940 kg	81439 lb / 36940 kg	112215 lb / 50900 kg

Note: * With Ultimotion™

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A History of Innovation

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



Hurco founded by Edward Humston and Gerald Roch

1968

Hurco becomes publicly held company (Nasdaq: HURC)

1971



Hurco invents Conversational Programming

1976



Hurco Europe established

1979



BMC machining centers introduced

1986



Hurco Germany established

1988



DXF Transfer invented

1992

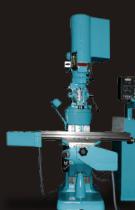
MAX single-screen control introduced

1996

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



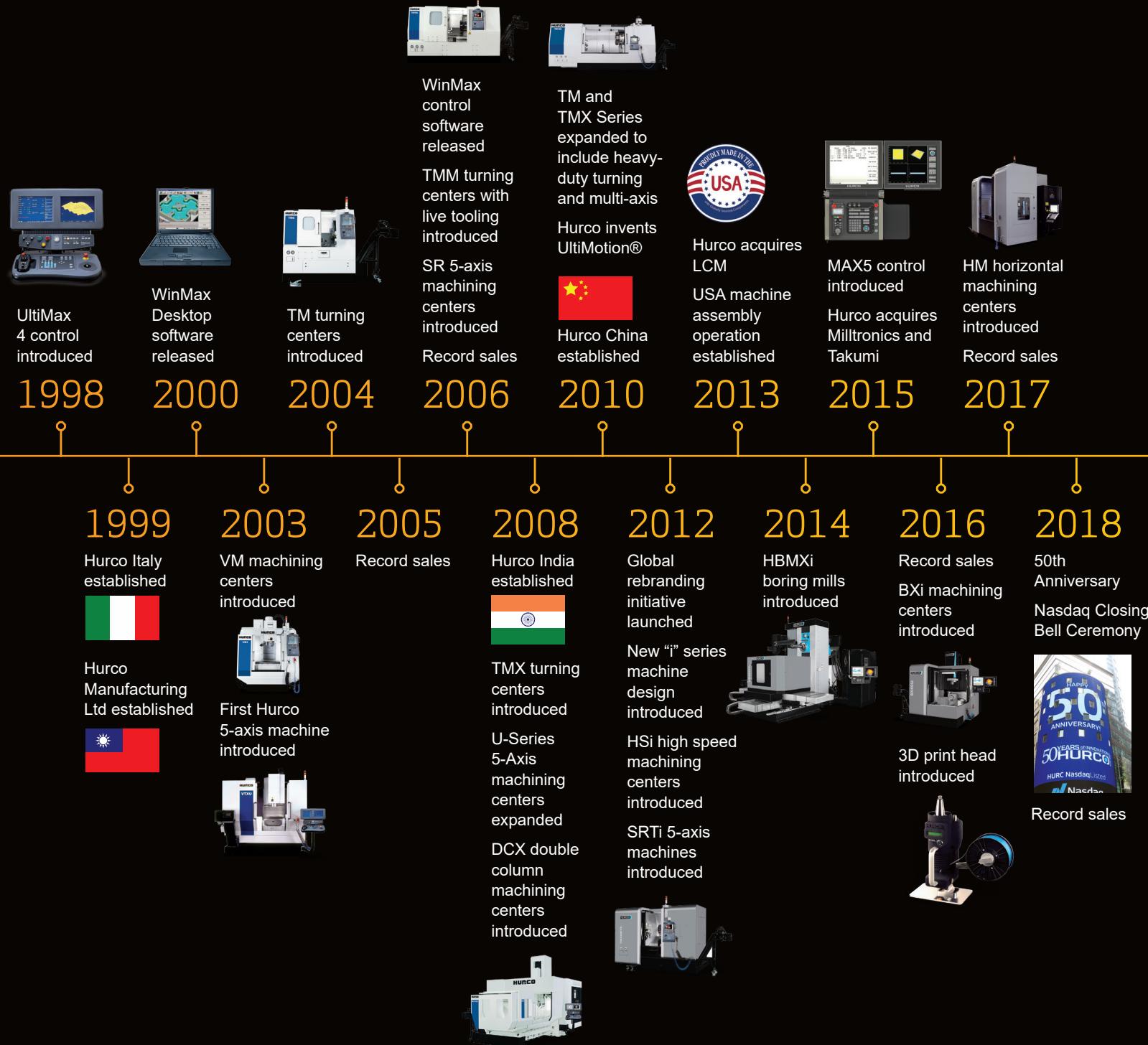
Hurco opens new international headquarters



UltiMax 3 control introduced

HURCO®

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

HURCO NORTH AMERICA

A DIVISION OF HURCO COMPANIES, INC.

HURCO CORPORATE HEADQUARTERS

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

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