Your expertise combined with our technology to produce quality parts more profitably—that’s mind over metal. That’s Hurco.
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From print to part to profit.
Since 1968, Hurco has focused on developing machine tool technology that makes machine shops more profitable. The two men who founded Hurco understood the connection between people and technology.

Technology should help you...not get in your way. Our founders believed technology should minimize tedious and redundant tasks so machinists can be more productive.

This idea that technology must support the machinist, not control him, remains central to our culture and our technology at Hurco.

Go from print to part faster. That’s mind over metal℠. That’s Hurco.
Control Technology

We develop machine tools and control technology that make our customers more profitable. We do conversational better than anyone in the industry...maybe that’s because we invented it. Our engineers continually focus on ways to slash setup time so you can get down to the business of making chips.

Flexibility is the foundation of the Hurco control. Whether you use NC or conversational, or the best of both conversational and NC with our exclusive NC/Conversational Merge feature (new with WinMax®9), the Hurco control will make your shop more productive and profitable.

Because the integrated Hurco control is so user-friendly and uses machinist terminology throughout the interface, employees catch on quickly with little training. The flexibility, ease of use, and the power of its simplicity, make the Hurco control your best asset to get from print to part faster.

Accurate. Rigid. Reliable.

While the integrated control of each Hurco machine tool is what empowers you to increase productivity and profitability, the iron is the foundation. At Hurco, we have instituted exacting design standards to ensure each design decision promotes accuracy and precision that can only be accomplished with a rigid machine tool.

One-2-One Service®.

When you rely on a piece of equipment for your livelihood, service AFTER the sale is critical. If you need help, you can count on Hurco. We do whatever it takes to make sure your Hurco is contributing to the bottom line. According to our customers, the Hurco service team is the best in the industry! Professional. Knowledgeable. Responsive. Just a few of the words our customers use to describe the Hurco One-2-One Service® Team.
“WinMax is really user friendly and easy to learn...I can write the program, get the run time, and quote the job quickly. The fast cut, copy, and paste is a huge time saver when I'm programming.”
-Gabe Draper, Draper Manufacturing

“We put these Hurcos through the paces. They’re tooled to the max and we don’t baby them.”
-Keith Dalpe, EMM Precision

“The service we get from Hurco and Brooks is second to none. They listen and they are responsive. They understand that your machines are your business.”
-Lou Ferriero - PlasTech Machining & Fabrication
I want to grow my business, but I don’t want to get in over my head.
In business, understanding the balance between growth and profitability separates those who succeed from those who fail. A Hurco machine tool lets you get more done with one spindle, which is why Hurco is the machine tool of choice for so many successful and growing job shops.

Because Hurco control technology gives you so much flexibility and makes editing extremely easy, you get more throughput with a Hurco than you would other machine tools. Hurco is the smart choice if you want to efficiently grow your business.

I don’t want to buy a machine I can’t use with my programs.
Peace of mind is priceless. When you invest in a Hurco, you get the peace of mind that you won’t have to change a thing. You can usually run your existing programs with no editing if they support standardized ISO/EIA.

Because our control is so user friendly, the learning curve is minimal when you put a Hurco on the shop floor. Even new hires will be up and running in a matter of days with little training. To reduce expenses for our customers, we have implemented online training designed by our applications engineers in collaboration with our customers.

We know change can be a hassle, but we’ve eliminated that concern with a control that does NC as well as any control, and has the best Conversational Programming in the industry.

We don’t need an advanced control. We use CAD/CAM.
The beauty of the Hurco control is its power and flexibility in both conversational and NC, or both in the same program with NC/Conversational Merge. Our control supports ISO/EIA standards and is compatible with the most popular CAM systems. But even our “NC only” customers usually end up realizing the benefit of Hurco conversational. They use CAM for the complex stuff and program at the control with conversational for the rest. Nobody makes it easier than Hurco.
Service

I can’t afford downtime
Hurco machine tools are built to last. We use premium components and we do things the right way—no short cuts. If you do need help, you won’t have the hassle of contacting multiple companies to solve the problem.

With Hurco, there is one source of accountability because we have complete control from design to manufacture of the entire machine tool, including the control. If you have a problem, our One-2-One Service and Support team will make it right. To minimize downtime, we have introduced UltiMonitor with remote diagnostics and monitoring. We continue to implement component-level systems so we can service your machine faster, such as the one-piece control module that can be easily swapped out in the field.

High Mix/Small Batch Production

I don’t know what job is coming next
A true job shop must bring a sense of order to the chaos of high mix/small batch manufacturing. Different parts from multiple customers equals multiple setups. You never know what you’re going to get...you might start with a part print or you might have the DXF file.

The Hurco control is flexible enough to handle it all. The control makes it easy to import 2D data from the DXF file and do basic editing of DXF geometries. The intuitive interface of Hurco Conversational Programming makes it easy. No control gets a job running faster.

Hiring/Training

I can’t find qualified machinists.
Finding experienced employees who can hit the ground running is difficult for any business, but especially challenging in manufacturing. You want to grow your business, but you can’t take on new orders if you don’t have the manpower to meet delivery dates and maintain your quality standards.

The integrated Hurco control expands the hiring pool with conversational programming because it’s easy to learn and easy to use. Less time and money spent on training. More chip time.
“I bought my first Hurco because I wanted to have a lean, fast turn-around business.”

During the past 22 years, Gregor Technologies has achieved an average annual growth rate of 25 percent, employs 60 people, and has 31 Hurco machine tools housed in their 70,000 square foot facility.

“We wouldn’t be the company we are today if it wasn’t for Hurco.” John Gregorich

(Pictured) Janice & John Gregorich
Owners of Gregor Technologies (recently acquired by Metals USA)
Success Stories

Growing Your Business Efficiently

“Maybe even more important to our bottom line is the fact that the operator is running two other machines while the [other Hurco] is making chips.”

Keith Dalpe, EMM Precision

The Hassle of Change

“It really says a lot for us to go to another machine with an alien control...[but] the integration has been seamless, and all of the operators picked up the Hurco control quickly.”

Dave Bernhardt - NuCon Corporation

CAD/CAM Programming

“With the Hurco control, we only need to maintain the program at the machine instead of having a CAM file and a machine program.”

Alex Okun - Etogen Scientific
Service

“"The service we get from Hurco and Brooks is second to none. They listen and they are responsive. They understand that your machines are your business.”"

Lou Ferriero - PlasTech Machining & Fabrication

High Mix/Low Batch Production

“"We chose Hurco because all of their machine tools have the Hurco control with conversational programming, which is the solution we needed to reduce programming time.”"

John Zigler - Zigler Machine & Metalworks

Hiring/Training

“"The Hurco control is really easy to learn. I was making parts...the first day. I took a training class later to make sure I was taking advantage of all the control’s new features, which was really helpful.”"

Shane Sievers - Dreyer Reinbold Racing
Hurco Controls

Our control. Your expertise. Mind over Metal.
The integrated Hurco control is sophisticated simplicity at its best. Complex tasks simplified with control technology that’s easy to use.

What makes us better than the competition?
Our control makes us better than anyone in the industry. Hurco technology minimizes setup and programming so you can start making chips faster.

Nobody gets you from print to part faster than Hurco!
Our team of engineers is driven to develop new technology that makes shops more efficient and more profitable.

Conversational programming is the secret sauce that simplifies complex operations. Features such as Custom Grooving Profiles and our Thread Cycle Blocks, which give you complete control, make programming and editing easy.

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.

Streamlined mill turn programming means you can machine a pocket with straight walls and flat bottoms or perform off-center hole drilling with just a click of a box on our Y-axis capable mill turn lathes. We simplify complexity at every turn.

For the complete list of control features, go to page 36.
mind over metal™ = More Margin Per Part
One control: equally powerful NC and conversational programming methods, or the ability to use the best of both. The most flexible control in the industry gets you from print to part to profit faster.

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.

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 and easily see which codes are being processed.

PRINT TO PART FASTER
No matter which type of programming you choose, the Hurco control is the most flexible — and fastest — from print to part in the industry.

SKETCH
Input dimensions and specs from a rough sketch, then refine with our controls.

PART PRINT
Input exact dimensions and specs from a part print to start machining with ease.

DXF FILE
Our control automatically generates tool paths from a DXF file to allow machining almost instantly.

WINMAX® DESKTOP
Install a copy of our control software on your desktop to program remotely.

ON-CONTROL EDITOR
Program or modify at the control with our advanced editor. Use copy, paste and other features that make editing easy.

CAD/CAM
Post code from your CAD/CAM system and store to our control via USB or Ethernet.

ISO/EIA NC
Upload your existing programs, including Fanuc® and Siemens®, and run them with little or no editing.

NC/CONVERSATIONAL MERGE
The control allows you to combine the best of both conversational and NC into one program for maximum efficiency.

MACHINED PART
mind over metal™ — your expertise combined with our control to produce quality parts.

Technology only available from Hurco. Go to www.hurco.com/CONTROL
**Hurco Controls**

**Conversational Programming**

**Stick Lettering & TrueType® Fonts**
Not only do you have the ability to add stick lettering and/or TrueType fonts to your parts, you can place the letters horizontally, vertically, or wrap them around the circumference.

**Milling + Axial Flats**
The powerful simplicity of the control is highlighted when you add milling operations. Multiple milling strategies make programming easy—choose from lines and arcs, circle, frame, slot, axial flats, and/or lettering.

**Flexible Cutoff Cycles**
The cutoff cycle blocks include advanced pecking, which allows you to define three different peck levels with varying speeds to safely drop the part. You can define the safe rapid point and instruct the parts catcher to advance based on the diameter of the part.

**Easy Thread Cycles**
The threading cycle performs multi-pass threading for face threads, outside diameter (OD) and inside diameter (ID) threads, including angled pipe threading. With just one menu screen, you can easily set roughing passes, spring passes, decreasing depths, and multiple starts found in complex threads.
Conversational gets you from print to part faster. Easy to learn. Intuitive, user-friendly interface. Multiple features that save time.

Grooving Cycle
The multiple grooving cycle blocks included in the control are central to the ease of programming that conversational provides. On all four corners, you can program a chamfer, radius, or square, and quickly choose to taper the groove walls from the on-screen menu.

Reduce programming time further by using the pattern feature to replicate repeating geometries. Simply select the number of times to repeat and the offset.

Lines & Arcs with AutoCalc + Y-Axis
You can program almost any complex contour using Lines & Arcs and you won’t have to trig out missing data—AutoCalc does it for you. UltiPocket™ will program advanced pocketing routines with just a click of a box.

Quickly change between radial and flat milling pockets, islands, flats, or keyways by simply clicking the Y-axis box. It’s just as easy for off-center hole drilling as well.

1 Simply create the 2D feature and select the Linear Y Motion box.

2 The new verification graphics appear showing the flat.
Quickly Import Complex Profiles
The control’s turning profile data block feature enables the geometry of complex profiles to be quickly imported into the part program.

Easy Hole Selection
Select hole operations based on the hole diameter.

Pockets + Holes
Easily create conversational part features, such as complex pocket boundaries and advanced hole operations.

DXF Scaling
Drawings that aren’t drawn to scale can be scaled up to actual size and you don’t have to redraw them or go back to the CAD system.
Three steps and you’re making chips.
Eliminate data entry errors. Bypass the CAM station Quickly add or edit part features if needed.

1. Import the CAD file
Our DXF Transfer feature lets you quickly import 2D data from the DXF file, which eliminates errors and lets you program right at the control.

2. Select + AutoProgram
Select the features you want to add to the part program. Simply press the on-screen button and the data is stored in the program.

3. Verify the program
Press the Draw Button, and the Advanced Verification Graphics feature displays a 3D solid rendering of the tool path on the screen.

You Have Control
Machinists appreciate the level of control they have when programming parts for our mill turn lathes. While DXF Transfer imports part geometry, the machinist has control over the process, speed, and profile.
NC/Conversational Merge
NC/Conversational Merge makes it easy to combine conversational features, such as pattern operations, scaling, and tool probing with NC programs.

No changes needed
Because our control supports ISO/EIA, Industry Standard NC, your new Hurco will assimilate to your existing processes. You won’t need to change a thing.

Interactive G-Code Glossary
The Hurco NC editor takes the pain out of making changes to G-Code. The unique Interactive G-code Glossary displays the meaning of each code as you move the cursor. Incorrect syntax appears in red and remarks appear in green...in real time.
Industry Standard NC.
Standardized NC. Easy editing. CAD/CAM compatibility. Graphical verification.

Easy Editing Save time. Eliminate hassle. Our control is equipped with a powerful NC editor. No need to send back to the CAM station and waste time waiting for a few quick changes. Our NC editor displays incorrect syntax in red and remarks in green in real time. It also eliminates mystery, displaying the meaning of each code as you move the cursor. Advanced features such as copy/cut/paste and find/replace, make editing fast and easy.

CAD/CAM We have added an enhanced NC interpreter that makes our control compatible with the most popular CAD/CAM systems. You can send your part program to the control via Ethernet, USB thumb drive or FTP.

ISO/EIA Since the Hurco control supports ISO/EIA standards, you can upload your existing programs, including Fanuc *and Siemens*, and run them with little or no editing.

Hurco Exclusive

Graphical Code Search is only available from Hurco. It simplifies the tedious task of searching for code associated with a feature when you need to make a quick change.

1. Using the control’s graphics screen, simply select the feature you need to edit.
2. The corresponding code appears automatically.
**Faster Graphics Engine**
Because of significant technological advancements, the new engine we use to run the verification graphics doesn't even compare to the previous version.

**Language Toggle**
Choose two languages from the exhaustive list, and the control allows you to switch back and forth during both programming and machining mode without having to reboot the control.

**NC/Conversational Merge**
Because this feature is one of the most popular of our mill control, we added it to our lathe control. NC/Conversational Merge is especially useful for mill turn applications. NC/Conversational Merge allows you to apply conversational features, such as pattern operations, scaling, and tool probing to NC programs.

**Virtual Program Lockout**
You have complete control. You can set the level of access for programs and parameters, including Full Lockout or Partial Lockout.
**Advanced Verification Graphics**
The verification graphics throughout WinMax use color graphics to show the actual tool paths and stock removal as it will run on the machine during the program. Both half and quarter views with semi-transparency let you see more of the toolpath information especially inside the part.

Because you can see the cuts on the screen before they are executed, you can virtually eliminate material waste and potential machine crashes. When you check the program for errors, you can use Data Block Search to go directly to the data block containing the error and edit the program.

**UltiMonitor™**
UltiMonitor™ combines powerful networking with remote monitoring capabilities. You can monitor your Hurco equipment from your web browser via control views and live video (camera included).
Turning Centers
High accuracy components from partners who are experts in their field—such as Yaskawa, Bosch-Rexroth, and Duplomatic.

Servo turret with quickchange tooling, and fast indexing. All stations are live tool capable using quiet short drive train.

Advanced control with the latest WinMax9 software supports both conversational and Industry Standard NC programming.

Rigid, reliable iron due to true slant-bed design and rigorous manufacturing standards—such as an extra wide saddle and large Z-axis rails.

Advanced spindle technology designed for easy access, easy maintenance, and minimal belt length.

Efficient design with ergonomic details, such as convenient front access to chuck and tailstock pressure controls, and front loading coolant tank and chip conveyor.

SMART Power

During the last decade, we have increased the energy efficiency of our machine tools.

- SMART CONTROL POWER SUPPLY (40% MORE EFFICIENT)
- SMART POWER CONTACTS (34.5% MORE EFFICIENT)
- SMART 2.0kW SERVO SIZE (33% MORE EFFICIENT)
- SMART COIL DEVICES (30% MORE EFFICIENT)
- SMART SPINDLE DECELERATION (20% MORE EFFICIENT)
- SMART TRANSFORMER (18.8% MORE EFFICIENT)
- SMART BTU GENERATION (18% MORE EFFICIENT)
- SMART SIGMA SERVOS (11.8% MORE EFFICIENT)
- SMART LED LIGHTING
Built for speed, accuracy, and repeatability.

All ball screws feature closed-loop adaptive tuning and high-resolution feedback to obtain the utmost in system performance and reliability. The AC servo motors are direct-coupled to the ball screws for the highest level of accuracy. The brushless AC servo drive motors provide high torque to inertia ratio for the axis drives. The X and Z axis motors deliver impressive torque for peak thrust during heavy cuts.

Benefits of TMXMY Mill Turn Lathes by Hurco

› **Short drive train of live tool** generates less heat, and provides more torque to the tool, higher reliability, and quieter operation.

› **VDI/BMT servo turret** provides quick-change tooling and fast indexing, has a large, curvic coupling for superior rigidity, and makes all stations live-tool capable.

› **High output, digitally controlled spindle motor.**

› **More Y-axis travel** than competitive lathes.

› **Heavy casting** provides superb dampening characteristics that inhibit thermal deformation and twisting.

› **Comprehensive chip management system** includes telescopic way covers, inside door tracks, washdown and air guns, and adjustable, brass coolant nozzles.

› **30° true slant-bed cast design** promotes larger turning capacity in addition to efficient chip removal and increased rigidity with a compact design.

› **Programmable tailstock or sub-spindle**

› **Component isolation system** combats heat dissipation and spindle head growth.

› **Large diameter double-nut ball screws for X and Z axes** are hardened and ground, centered between the guide ways, and anchored at both ends, providing outstanding positioning and repeatability.

› **LED lighting** shines brighter and saves energy.

Machine shown with options.
A rigid and reliable machine built to last. Duplomatic servo turret with 12-tool stations provides faster and more accurate tool indexes with the ability to use any combination of ID and OD tool holders. To increase rigidity, we equip our lathes with an extra wide saddle and large Z-axis rails. The large diameter, double-nut ball screws are hardened and ground, then centered between the guide ways and anchored at both ends.
Go from print to part faster with the Hurco TMM Series.

Benefits of TMM Mill Turn Lathes by Hurco

› **Extra wide saddle and large Z-axis rails** increase rigidity.
› **VDI servo turret with 12-tool stations** provides faster and more accurate tool indexes with ability to use any combination of ID and OD tool holders.
› **Heavy casting** provides superb dampening characteristics that inhibit thermal deformation and twisting.
› **Comprehensive chip management system** includes telescopic way covers, inside door tracks, washdown and air guns, and adjustable, brass coolant nozzles.
› **30° true slant-bed cast design** promotes larger turning capacity in addition to efficient chip removal.
› **Advanced spindle technology** with multiple V-belt design promotes higher power transfer and quieter operation.
› **Component isolation system** combats heat dissipation and spindle head growth.
› **Large diameter double-nut ball screws for X and Z axes** are hardened and ground, centered between the guide ways, and anchored at both ends, providing outstanding positioning and repeatability with virtually no thermal growth.
› **Tailstock with auto-quill** and draggable via turret hitch.
› **Yaskawa Sigma 5 drives.**
› **LED lighting** shines brighter and saves energy.

Machine shown with options.

See the Hurco TMM mill turn lathes in action!

Additional turning center in this series: **TMM10i**
Built to withstand the stress of high performance turning.

High-grade, **heavy casting** tested with both dynamic and static Finite Element Analysis. **Premium components**, such as **Bosch Rexroth drives, servos, and motors** result in a rigid and reliable turning center. Frame designed with **extra wide saddles** and **large Z-axis rails** for increased rigidity.
Go from print to part faster with the TMX Series.

Benefits of TMX Lathes by Hurco

› **Extra wide saddle and large Z-axis rails** increase rigidity.
› **Servo turret with 12-tool stations** provides faster and more accurate tool indexes with ability to use any combination of ID and OD tool holders.
› **Heavy casting** has superb dampening characteristics that inhibit thermal deformation and twisting.
› **Comprehensive chip management system** includes telescopic way covers, inside door tracks, washdown and air guns, and adjustable, brass coolant nozzles.
› **30° true slant-bed cast design** promotes larger turning capacity in addition to efficient chip removal.
› **Advanced spindle technology** with multiple V-belt design promotes higher power transfer and quieter operation.
› **Component isolation system** combats heat dissipation and spindle head growth.
› **High output digitally controlled spindle motor.**
› **Large diameter double-nut ball screws for X and Z axes** are hardened and ground, centered between the guide ways, and anchored at both ends, providing outstanding positioning and repeatability with virtually no thermal growth.
› **Programmable tailstock**
› **LED lighting** shines brighter and saves energy.

Additional turning center in this series: **TMX10i**
Built tough to handle the stress of heavy duty turning.

High-grade, heavy casting tested with both dynamic and static Finite Element Analysis. Premium components, such as Yaskawa drives, servos, and motors result in a rigid and reliable turning center. Frame designed with extra wide saddles and large Z-axis rails for increased rigidity.

Benefits of heavy duty lathes by Hurco

› **Equipped with roller packs**, instead of ball pack linear ways, which provide an extremely stable cutting platform.

› **ZF Gearbox (TM18 and TM18L only)** produces outstanding cutting force for heavy cuts. Two-speed gearbox promotes maximum torque at low and high speeds.

› **Extra wide saddle and large Z-axis rails** increase rigidity.

› **Heavy casting** provides superb dampening characteristics that inhibit thermal deformation and twisting.

› **Component isolation system** combats heat dissipation and spindle head growth.

› **Comprehensive chip management system** includes telescopic way covers, inside door tracks, washdown and air guns, and adjustable, brass coolant nozzles.

› **30° true slant-bed cast design** promotes larger turning capacity in addition to efficient chip removal.

› **Advanced spindle technology** with multiple V-belt design promotes higher power transfer and quieter operation.

› **Large diameter double-nut ball screws for X and Z axes** are hardened and ground, centered between the guide ways, and anchored at both ends, providing outstanding positioning and repeatability with virtually no thermal growth.

› **Auto-hitch tailstock positioning.**

› **Steady rest ready**

› **LED lighting** shines brighter and saves energy.

See the Hurco heavy duty turning centers in action!

Additional turning centers in this series:  
**TM12i, TM18i**
The perfect combination of size and functionality.

Efficiently designed true 30° slant-bed lathes provide remarkable productivity and user flexibility. Premium components, such as Yaskawa drives, servos, and motors result in a rigid and reliable turning center. Frame designed with extra wide saddles and large Z-axis rails for increased rigidity.
Go from print to part faster with the TM Series.

Benefits of TM Lathes by Hurco

› **30° true slant-bed cast design** promotes larger turning capacity in addition to efficient chip removal.

› **Slotted turret** provides fast and accurate tool changes.

› **Turret supports any combination of ID and OD tool holders.**

› **The turret’s large curvic coupling** promotes accurate location and clamping.

› **Generous turning diameter and turning length** facilitates a wide range of part sizes and applications.

› **Spindle utilizes poly-V belt and precision grease packed steel bearings,** which results in a maintenance-free lubrication. The brushless, AC spindle motor delivers impressive power and torque.

› **Extra wide linear guide ways** are strategically spaced to provide excellent support to the cross slide.

› **Pre-loaded and stretched ball screws** with additional anchor to the Z-axis.

› **Component isolation system** combats heat dissipation and spindle head growth.

› **Tailstock with auto-quill and draggable via turret hitch.**

› **Yaskawa Sigma 5 drives.**

› **LED lighting** shines brighter and saves energy.

See the Hurco TM turning centers in action!

Machine shown with options.

Additional turning centers in this series:

**TM6i, TM8i**
Accessories

» Productivity Options

**Lift-Up Chip Conveyor** Increases productivity by keeping the spindle cutting, while chips are carried out of the machine with a barrel height chip conveyor. Easy front access is provided.

**Auto Tool Presetter** This Tool Touch Probing package is a compact and robust tool setting probe, which utilizes a stylus touch application for accurate measurement of tool geometry offsets. Tool probing is for initial tool set only and will not support automatic in process gauging.

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

**Parts Conveyor** Moves parts from catcher bin to secondary operations such as a parts washer or parts tumbler for lights out manufacturing.

**Hurco Bar Feeder** This magazine-fed automatic bar feeder increases productivity. The Integrated PLC controller comes with a remote control pendant for fast and easy setups and includes three (3) pusher rods. The Hurco bar feeder comes standard with a slider assembly for easy door access.
Bar Feeder Interface  Allows third-party bar feeders to be controlled by Hurco lathes.

High Pressure Coolant  Provides up to 1,000 psi for deep hole drilling.

Oil Skimmer  Increases coolant life and performance by removing unwanted oil.

Mist Collector  Provides a safe, clean environment while also reclaiming evaporated coolant mist.

Steady Rest  Large capacity SMW Autoblock steady rest for supporting long parts.

Overhead Hoist  Anchored, motorized hoist to lift heavy parts into the lathe.
Control Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Dual</th>
<th>Single</th>
</tr>
</thead>
</table>
| Display | › Dual monitors  
› Dedicated program and graphics screens  
› 12-inch color LCD  
› Touch screen  
› Adjustable tilt & brightness | › Single monitor  
› Toggle between program and graphics screens  
› 12-inch color LCD  
› Touch screen |
| Hard Drive | 64 GB Solid State Drive | |  
| RAM Memory | 2 GB |  |
| Chip | 2GHz Dual Core Intel® Processor | |  
| Input / Output | › USB 2.0 port on the control console  
› Two USB 2.0 ports on the electrical cabinet  
› Ethernet LAN port | |  
| Software | WinMax® 9 | |  
| Buttons | A | |  
› Power on / off  
› Emergency stop  
› Start / stop cycle  
› Feed hold  
› Feed rate override  
› Spindle RPM override  
› Rapid override  
› Spindle on / off | |  
› Optional stop  
› Turret index  
› Coolant select  
› Auto / manual machine mode | |  
› Single cycle mode  
› Auto interrupt cycle  
› Store position |
| Remote Jog | B | |  
› Included | | |  
› Optional |
| Keyboard | C | |  
› Easy to use  
› Ergonomically angled  
› Designed for industrial environment | | |  
| Serviceability | | |  
› Field replaceable module  
› Configuration auto-backup to flash drive for easy recovery  
› Remote diagnostics | | |  
| Input Peripherals | | |  
› Stylus pen for precise touch-screen input  
› Full computer keyboard | | |  
| Part Print Holder | | |  
› Top-mounted part print holder  
› Side-mounted notebook holder | | |  

» Modular Design Minimizes Downtime.

The one-piece control module can be quickly and easily swapped out in the field.
WinMax® Software/Automation Packages

New (WinMax®)
- DXF Scaling
- Fast Draw Graphics Engine
- Font Magnification
- Industry Standard NC (SNCF)
- Stick Lettering
- WinMax Desktop Complete

Programming
- 99 Work Offsets (G-Code)
- 99 Tool Offsets
- Advanced Grooving Cycles
- AutoCalc
- Bar Feed/Pull Block
- Canned Cycle Blocks
- Canned Hole Cycles with Pecking
- Context Sensitive Help
- DXF Transfer
- Frame Mill
- ISO/EIA NC Support
- Inch-Metric Toggle
- Inch per Revolution or Inch per Minute Feed
- Leadscrew Compensation
- Lines & Arcs
- NC/Conversational Merge
- NC Editor
- Profile Blocks (Turn, Face, Taper, Blend Arc, Chamfer)
- Program Manager Function
- Program Parameters
- Program Review with Cut/Copy/Paste
- Programmable Tool Change Position
- Radius to Diameter Toggle for Programming
- Rigid Tap
- Slots
- True Type Lettering Package
- UltiPocket
- 99 Work Offsets (Conversational)
- WinMax Desktop

Verification
- Automatic Error Check
- Advanced Verification Graphics with 3D Solid Rendering
- Graphics Display (Tool Path, Solids, Projection in 3 Planes, Isometric)
- Graphics Error Verification
- Graphics Scaling
- Graphics Zoom
- Real Time Tool Simulation

Operational
- Internal/External Chucking
- Interrupt Cycle
- Automatic Tool Home
- Backlash Compensation
- Control and Machine Diagnostics
- Coolant Select (Dual)
- Displayed Spindle Load Monitor
- Distance To Go
- Feed Hold Button
- Feedrate Override
- UltiMonitor™

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Windows is a registered trademark of Microsoft Corporation in the United States and other countries.
### Machine Specifications

**multi-axis + performance lathes**

<table>
<thead>
<tr>
<th></th>
<th>TMX8i</th>
<th>TMX8MYi</th>
<th>TMX8MYSi</th>
<th>TMX10i</th>
<th>TMX10MYi</th>
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<td>3,500 rpm</td>
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<td>178 ft-lbs / 241.5 Nm @ 1,100 rpm</td>
<td>178 ft-lbs / 241.5 Nm @ 1,100 rpm</td>
<td>258 ft-lbs / 350 Nm @ 759 rpm</td>
<td>258 ft-lbs / 350 Nm @ 759 rpm</td>
<td>258 ft-lbs / 350 Nm @ 759 rpm</td>
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<td>37.3 hp</td>
<td>37.3 hp</td>
<td>37.3 hp</td>
<td>37.3 hp</td>
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<td>27.8 kW</td>
<td>27.8 kW</td>
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<td>A2-6</td>
<td>A2-6</td>
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<td>A2-8</td>
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<td><strong>Chuck Diameter</strong></td>
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<td>8 in</td>
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<td>Slotted Disc</td>
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<td>VDI 40 / DIN 5480</td>
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<td>0.55 sec</td>
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<td><strong>Rapid Traverse per minute</strong></td>
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<td>Z=1,181 / 30 m</td>
<td>W=1,181 / 30 m</td>
<td>X=945 in / 24 m</td>
<td>Z=1,181 / 30 m</td>
<td>W=1,181 / 30 m</td>
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<tr>
<td></td>
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<td>Z=1,181 / 30 m</td>
<td>W=1,181 / 30 m</td>
<td>Y=472 / 12 m</td>
<td>X=945 in / 24 m</td>
<td>Z=1,181 / 30 m</td>
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<td>4,000 rpm</td>
<td>NA</td>
<td>4,000 rpm</td>
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<td>8.5 hp</td>
<td>NA</td>
<td>8.5 hp</td>
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<tr>
<td></td>
<td></td>
<td>6.4 kw</td>
<td>6.4 kw</td>
<td></td>
<td>6.4 kw</td>
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<td>20.4 ft-lbs / 27.6 Nm @ 2,190 rpm</td>
<td>NA</td>
<td>20.4 ft-lbs / 27.6 Nm @ 2,190 rpm</td>
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<td>70.4 ft-lbs / 95.5 Nm @ 1,450 rpm</td>
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<tr>
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<td>102.2 in</td>
<td>102.2 in</td>
<td>87.9 in</td>
<td>102.2 in</td>
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<tr>
<td></td>
<td>2,232 mm</td>
<td>2,597 mm</td>
<td>2,597 mm</td>
<td>2,232 mm</td>
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<tr>
<td><strong>Required Floor Space</strong></td>
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<td>224.4 x 120 in</td>
<td>224.4 x 120 in</td>
<td>221.7 x 119.4 in</td>
<td>224.4 x 120 in</td>
<td>224.4 x 120 in</td>
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<tr>
<td></td>
<td>5,630 x 3,033 mm</td>
<td>5,700 x 3,048 mm</td>
<td>5,700 x 3,048 mm</td>
<td>5,630 x 3,033 mm</td>
<td>5,700 x 3,048 mm</td>
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<td><strong>Machine Weight</strong></td>
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<td>13,420 lb</td>
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<td></td>
<td>5,900 kg</td>
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<td>6,100 kg</td>
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Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions. Information may change without notice.
<table>
<thead>
<tr>
<th></th>
<th>TMX8i</th>
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<th>TMX8MYSi</th>
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<th>TMX10MYi</th>
<th>TMX10MYSi</th>
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<td><strong>B</strong></td>
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<td>102.2 in</td>
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<td>87.9 in</td>
<td>102.2 in</td>
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<td>2,597 mm</td>
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<tr>
<td><strong>C</strong></td>
<td>119.4 in</td>
<td>120 in</td>
<td>120 in</td>
<td>119.4 in</td>
<td>120 in</td>
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<td><strong>D</strong></td>
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<td><strong>E</strong></td>
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<td>86.7 in</td>
<td>86.7 in</td>
<td>86.3 in</td>
<td>86.7 in</td>
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## Machine Specifications

### Heavy Duty Lathes

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<th>Machine Specifications</th>
<th>TM12i</th>
<th>TM18i</th>
<th>TM18Li</th>
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<tr>
<td>X Travel</td>
<td>12 in</td>
<td>17 in</td>
<td>17 in</td>
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<tr>
<td>Z Travel</td>
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<td>6 sec</td>
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<td>X= 787 in / 20 m</td>
<td>X= 787 in / 20 m</td>
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<tr>
<td></td>
<td>Z= 945 in / 24 m</td>
<td>Z= 787 in / 20 m</td>
<td>Z= 787 in / 20 m</td>
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<td>Machine Height</td>
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<td>99.2 in</td>
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<td>314 x 128 in</td>
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<td>6,700 kg</td>
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Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions. Information may change without notice.
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<th>TM18Li</th>
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<td>B</td>
<td>C</td>
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<tr>
<td>A</td>
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<td>274 in</td>
<td>314 in</td>
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<tr>
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<td>6,142 mm</td>
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<td>99.2 in</td>
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<td>Min.</td>
<td>D</td>
<td>B</td>
<td>E</td>
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<tr>
<td>D</td>
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<td>2,196 mm</td>
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**Machine Specifications**

3-axis + general purpose lathes

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<th>TM10i</th>
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<td>178 mm</td>
<td>203 mm</td>
<td>250 mm</td>
<td>198 mm</td>
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<tr>
<td><strong>Z Travel</strong></td>
<td>14 in</td>
<td>20 in</td>
<td>29.5 in</td>
<td>20 in</td>
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<td>750 mm</td>
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<tr>
<td><strong>Turning Diameter Max.</strong></td>
<td>12.4 in</td>
<td>14 in</td>
<td>17.7 in</td>
<td>10.1 in</td>
<td>11.6 in</td>
</tr>
<tr>
<td></td>
<td>316 mm</td>
<td>356 mm</td>
<td>450 mm</td>
<td>256 mm</td>
<td>295 mm</td>
</tr>
<tr>
<td><strong>Turning Length Max.</strong></td>
<td>13.4 in</td>
<td>19 in</td>
<td>28.3 in</td>
<td>17.9 in</td>
<td>27.6 in</td>
</tr>
<tr>
<td></td>
<td>340 mm</td>
<td>483 mm</td>
<td>720 mm</td>
<td>455 mm</td>
<td>700 mm</td>
</tr>
<tr>
<td><strong>Bar Capacity Max.</strong></td>
<td>1.75 in</td>
<td>2 in</td>
<td>3 in</td>
<td>2 in</td>
<td>3 in</td>
</tr>
<tr>
<td></td>
<td>45 mm</td>
<td>51 mm</td>
<td>76 mm</td>
<td>51 mm</td>
<td>76 mm</td>
</tr>
<tr>
<td><strong>Spindle Speed Max.</strong></td>
<td>6,000 rpm</td>
<td>4,800 rpm</td>
<td>3,000 rpm</td>
<td>4,800 rpm</td>
<td>3,000 rpm</td>
</tr>
<tr>
<td><strong>Spindle Torque Max.</strong></td>
<td>84 ft-lb / 113 Nm @ 1,090 rpm</td>
<td>133 ft-lb / 180 Nm @ 870 rpm</td>
<td>260 ft-lb / 352 Nm @ 600 rpm</td>
<td>258 ft-lb / 350 Nm @ 359 rpm</td>
<td>350 ft-lb / 474 Nm @ 360 rpm</td>
</tr>
<tr>
<td><strong>Spindle Power</strong></td>
<td>17.5 hp</td>
<td>22 hp</td>
<td>29.7 hp</td>
<td>18 hp</td>
<td>24 hp</td>
</tr>
<tr>
<td></td>
<td>13 kW</td>
<td>16 kW</td>
<td>22.1 kW</td>
<td>13.2 kW</td>
<td>18 kW</td>
</tr>
<tr>
<td><strong>Spindle Nose</strong></td>
<td>A2-5</td>
<td>A2-6</td>
<td>A2-8</td>
<td>A2-6</td>
<td>A2-8</td>
</tr>
<tr>
<td><strong>Chuck Diameter</strong></td>
<td>6 in</td>
<td>8 in</td>
<td>10 in</td>
<td>8 in</td>
<td>10 in</td>
</tr>
<tr>
<td></td>
<td>152 mm</td>
<td>203 mm</td>
<td>254 mm</td>
<td>203 mm</td>
<td>254 mm</td>
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<tr>
<td><strong>Tool Capacity</strong></td>
<td>12 Station</td>
<td>10 Station</td>
<td>12 Station</td>
<td>12 Station</td>
<td>12 Station</td>
</tr>
<tr>
<td><strong>Tool Type</strong></td>
<td>Slotted Disc</td>
<td>Slotted Disc</td>
<td>Slotted Disc</td>
<td>VDI 30 / DIN 5480</td>
<td>VDI 40 / DIN 5480</td>
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<tr>
<td><strong>Turret Index Farthest</strong></td>
<td>1.5 sec</td>
<td>1.5 sec</td>
<td>1.5 sec</td>
<td>0.7 sec</td>
<td>0.8 sec</td>
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<tr>
<td><strong>Rapid Traverse per minute</strong></td>
<td>X= 750 in / 19 m</td>
<td>X= 750 in / 19 m</td>
<td>X= 750 in / 19 m</td>
<td>X= 750 in / 19 m</td>
<td>X= 750 in / 19 m</td>
</tr>
<tr>
<td></td>
<td>Z= 945 in / 24 m</td>
<td>Z= 945 in / 24 m</td>
<td>Z= 945 in / 24 m</td>
<td>Z= 945 in / 24 m</td>
<td>Z= 945 in / 24 m</td>
</tr>
<tr>
<td><strong>Spindle Power</strong></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>6 hp</td>
<td>8.9 hp</td>
</tr>
<tr>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>4.4 kW</td>
<td>6.6 kW</td>
</tr>
<tr>
<td><strong>Spindle Torque</strong></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>21 ft-lb / 28.5 Nm @ 1,500 rpm</td>
<td>31 ft-lb / 42 Nm @ 1,500 rpm</td>
</tr>
<tr>
<td><strong>Machine Height</strong></td>
<td>85.8 in</td>
<td>85.5 in</td>
<td>87.1 in</td>
<td>85.5 in</td>
<td>87.1 in</td>
</tr>
<tr>
<td></td>
<td>2,180 mm</td>
<td>2,172 mm</td>
<td>2,212 mm</td>
<td>2,212 mm</td>
<td>2,212 mm</td>
</tr>
<tr>
<td><strong>Required Floor Space</strong></td>
<td>159.2 x 85.6 in</td>
<td>188.6 x 89.3 in</td>
<td>209.1 x 96.4 in</td>
<td>196 x 100 in</td>
<td>213 x 102.3 in</td>
</tr>
<tr>
<td></td>
<td>4,043 x 2,174 mm</td>
<td>4,790 x 2,268 mm</td>
<td>5,310 x 2,449 mm</td>
<td>4,977 x 2,539 mm</td>
<td>5,410 x 2,599 mm</td>
</tr>
<tr>
<td><strong>Machine Weight</strong></td>
<td>7,011 lbs</td>
<td>8,704 lbs</td>
<td>11,028 lbs</td>
<td>8,819 lbs</td>
<td>11,023 lbs</td>
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<tr>
<td></td>
<td>3,180 kg</td>
<td>3,950 kg</td>
<td>5,002 kg</td>
<td>4,000 kg</td>
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Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions. Information may change without notice.
<table>
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<tr>
<th></th>
<th>TM6i</th>
<th>TM8i</th>
<th>TM10i</th>
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<td>A</td>
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<td>196 in</td>
<td>213 in</td>
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<tr>
<td></td>
<td>4,043 mm</td>
<td>4,790 mm</td>
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<td>4,977 mm</td>
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<tr>
<td>B</td>
<td>85.8 in</td>
<td>85.5 in</td>
<td>87.1 in</td>
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<td>87.1 in</td>
</tr>
<tr>
<td></td>
<td>2,180 mm</td>
<td>2,172 mm</td>
<td>2,212 mm</td>
<td>2,172 mm</td>
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<tr>
<td>C</td>
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<td>89.3 in</td>
<td>96.4 in</td>
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<tr>
<td></td>
<td>2,174 mm</td>
<td>2,268 mm</td>
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<td>2,539 mm</td>
<td>2,599 mm</td>
</tr>
<tr>
<td><strong>Min.</strong></td>
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<td>D</td>
<td>86.6 in</td>
<td>112.7 in</td>
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<td>2,200 mm</td>
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<td>3,115 mm</td>
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<td>2,074 mm</td>
<td>2,113 mm</td>
<td>2,074 mm</td>
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<tr>
<td>E</td>
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<td>75.7 in</td>
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<tr>
<td></td>
<td>1,781 mm</td>
<td>1,922 mm</td>
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