



Efficient machining of complex production parts

The HTX horizontal machining centers match the performance of many machines that cost twice as much. Fast Twin 500mm Pallet system keeps cycle times low. Fully integrated 4-Axis capability to efficiently machine complex production parts accurately (full 4th axis rotary table) Higher contour machining rates and superior surface finish compared to vertical machining centers with similar design.



Basic Machine Specifications

Capacity:	HTX500
X, Y, Z -axis Travel	28" x 24" x 24"
Pallet Working Surface (2)	500mm x 500mm
Maximum Table Load	1,100 lbs per pallet
Spindle Nose to Table	6.1" to 30.12"
B Axis Motion	360 Degrees
Coolant Capacity	153 Gallons
Pallet Top	(24) - M16 Hole Matrix on 3.94" Centers
Spindle:	HTX500
Spindle Taper	CAT 40
Spindle Speed	12,000 RPM
Spindle Motor Horsepower (1 min.)	24 HP
Spindle Motor Torque (1 min.)	175 Ft. lbs @ 720 RPM
Motion:	HTX500
Rapid Traverse Rate X,Y and Z	1,260 ipm
Cutting Feed Rate	600 ipm
Least Command Increment	0.0001"
B Axis Feedrate	33.3 RPM
B Axis Clamping Force (4 cone clamp system)	10,000 lbs
B Axis Clamping Force (Rotational)	1,100 lbs
Positioning Accuracy X,Y/ Z	-/+ 0.0002"
Repeatability X,Y/Z	-/+ 0.0001"
Pallet Exchange Time	8 Seconds
Positioning Accuracy B Axis	8 Arc-seconds
Repeatability Accuracy B Axis	+/- 2 Arc-seconds
Automatic Tool Changer:	HTX500
Number of Stations	60 / CAT 40
Tool to Tool ATC Time	2.5 Seconds
Tool Changer Type	Electronic
Maximum Tool Diameter	3.2"
Maximum Tool Length	13.8"
Machine Dimensions:	HTX500
Maximum Operating Dimensions	163.8" x 215.8" x 122.1"
Machine Weight	28,650 lbs
Machine and Accessories Shipping Weight	32,000 lbs
Machine Shipping Dimensions	96.5" x 169.3" x 110.3"
Accessories Shipping Dimensions	96.5" x 150" x 66"
Shipping Dimensions, Tool change side cover	96.5" x 154" x 24"
Voltage Required	208-240 VAC / 60Hz
Power Rating	60 KVA
Air Requirements	5 CFM @ 80-100 psi



Standard Machine Features:

- Dual Pallet System
- Full B Axis
- High speed 12,000 RPM 40 Taper Spindle
- Powerful 24 hp High Torque Spindle Motor
- Latest servo motor and drive technology
- Fast 1,260 ipm Rapid Traverse Rates
- Large Travel (X, Y, Z) 28" x 24" x 24"
- Heavy duty linear rails for X, Y and Z axis
- Large Work Cube
- 60-station automatic dual arm tool changer
- Heavy frame design
- Solid one piece fine-grain cast iron bed
- Spindle Coolant Ring Flood coolant system
- Powerful wash down system
- Rigid Tapping
- Oversized, single nut pre-tensioned ball screws
- Automatic central lubrication system
- Air dryer, Filter/Regulator/Lubricator
- Power Cabinet Heat Exchanger
- Cartridge Spindle Design
- Standard Height Lift-Up Chip Conveyor
- Full enclosure splash guards
- Telescopic Way Covers
- Oversized access doors
- Fully contained tool storage
- Industrial Design Air and Water Pistol's
- Work lights inside splash guard
- Way Lube Separation System
- Leveling pads
- CE Door Switch Assembly Standard

Standard Control Features:

- Dual (2) 12" LCD Color Monitors
- Conversational programming
- NC (G-Code) programming
- Ergonomically designed UltiMax4 control
- Calculator Style Keypad
- Dual Touch Screen Technology
- 2.8 GHz Pentium 4 Processor
- 40 GB Hard Disk Drive
- 2 GB RAM Memory
- 3.5" Floppy Disk Drive
- USB 2.0 Port
- RS-232 Port
- Indexer Port
- Up to 2,277 BPS Processing Speed
- 600 ipm Programmable Feed-rate
- Multi Processor Motion Control System
- Remote Jog Pendant Control
- On-Screen Context Sensitive Help
- Control and Machine Diagnostics
- Distance to Go (Conversational & NC)
- Backlash and Leadscrew Compensation
- User Defineable M-code functions
- Interrupt Cycle
- Low air supply switch indicator
- Door Interlock
- Work end signal light
- Indexer port
- CE/UL/CSA Qualified Components and Certifications
- International CE Safety Conformity & EMF Certified

Hurco Machine Tool Products reserves the right to incorporate any modifications or improvements in machines and machine specifications that it considers necessary, but are not documented within this quotation. Hurco is not responsible for misprints or typographical errors.



1968 2008

HURCO

Dual Screen Winmax Control

The power of the WinMax® Software is the result of Hurco's three decades of customer-centered software experience combined with the proven platform of Microsoft® Windows®. Power packed with 25 new features and hundreds of enhancements to existing software features, our engineers designed WinMax to maximize efficiency, increase productivity, and improve surface finish. The WinMax control is equipped with two programming options so you can decide the best programming method for each job—Hurco's shop floor programming, called Hurco Conversational, or NC (M and G codes) part programming.

Conversational programming allows you to program a part at the machine by reading the print or program worksheet. As you program the part, prompts and questions appear on the screen. You respond by selecting machine operations or entering part dimensions. The software steps you through.

NC part programs can be created using the CNC software on the control or imported from an offline CAM System. With an enhanced NC interpreter, multi-line NC run time monitor with a G-Code modal display, and canned G-Code probing cycles, the NC side of the Max control is just as powerful as the Conversational programming method for which Hurco is known.



Standard Conversational Programming Features:

- | | | |
|---------------------------------|----------------------------|--------------------------------------|
| Auto Cutter Comp | Auto Save | Automatic Rough/Finish Pass |
| Automatic Speed and Feed Calc | Blend Arc | Bolt Circle |
| Boring Routines | Calc-Assist | Concurrent Programming |
| Cut, Copy and Paste Data Blocks | Contour Milling | Datum Shift |
| Distance to Go | Drilling Cycles (Peck) | Estimated Run Time |
| Circle, Frame, Face Mill | Helical Interpolation | Inch-Metric Programming |
| Graphical Error Verification | Indexer Routines | Parts Counter |
| True Type Lettering | Transform Part Zero | Programmable Safety Zones |
| Linear Repeat | M Code Auxiliary Functions | Mirror Image |
| NC (G Code) Programming | Rigid Tapping | Pattern (Scale / Rotate / Translate) |

