

XYZ UMC-5X

Other models available with up to 1,250 mm tables and 1,500 rpm table option.



5 axis simultaneous.

Stay ahead of the pack with full blown simultaneous 5 axis machining with a UMC. Save hours on machining and set up times, even on simple jobs that are currently done on a 3 axis VMC. To machine 6 sides of a dice requires 6 set ups on a VMC and only 2 on a UMC.

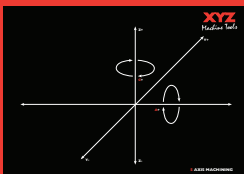


The perfect machining platform for high speed process intensive manufacturing.



“ In its price bracket, this is at the forefront of five-axis machining. ”

Nigel Atherton
XYZ MANAGING DIRECTOR



Call 01823 674200 to get the full 16 page Technical Brochure.

XYZ UMC-5X

Standard Equipment

- Siemens 840DSL ShopMill Touchscreen (iTNC 640 HSCI Heidenhain Touchscreen optional).
- Front Loading 600mm Diameter Trunnion Rotary Table.
- High Accuracy Rotary Axis Direct Drive High Torque Motor 90 rpm No Worm and Wheel.
- Tilting Axis Servo Worm Drive with Brake +/- 120° (Torque Motor Optional).
- 15,000 rpm In-line Spindle.
- Repeatability +/- 2.5 Microns.
- Linear Scales X Y and Z.
- High Precision Encoders on A and C Axis Pivot Centres.
- High Pressure Through Spindle Coolant System.
- Gantry Frame Machine.
- Thermal Spindle Compensation.
- Dynamic Collision Monitoring.
- Swarf Conveyor and Bin.

Optional Equipment

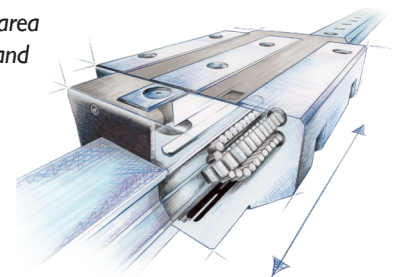
- 18,000 / 24,000 rpm Built in Spindle.
- Laser Tool Setting.
- 70 Bar Through Spindle Coolant.
- Traori / Kinematic.
- Reference Ball.
- Renishaw Workpiece Probe RMP600.
- Offline Programming.

Specification	XYZ UMC-5X
X Axis Table Travel	600mm
Y Axis Table Travel	600mm
Z Axis Table Travel	500mm
A Axis (Tilt)	+ 120° / -120°
C Rotary Axis	360°
Table Size	600mm Diameter
Max Table Load	600kg
T Slots	7 off @ 75mm Pitch
T Slot Size	14mm
Spindle Speeds	15,000 rpm (Options available)
Rapid Feedrate	36 M/min
Cutting Feedrate	1 - 36,000 MM/min
Toolchanger	60 Station (Optional 24, 30 or 48 ATC)
Spindle Taper	BBT40 (HSK A63 Optional)
Max Tool Length	300mm
Toolchange Time	>2 secs
Coolant Tank Capacity	300L (increased to 570L with 70 BarTSC)
Through Spindle Coolant	40 Bar (Optional 70 Bar - Requires Roof)
Machine Weight	9,500kg
Footprint	4,495 x 3,875 x 3,000mm

Conforming to ISO 10791	
Positional accuracy	+/- 5 microns /300mm
Repeatability	+/- 2.5 microns
Circularity over 300mm	6 microns
C Axis Positioning Accuracy	+/- 5 sec

With Linear Roller Bearing Slides

A larger bearing contact area for high speed precision and enhanced stiffness and rigidity.



Part of the **XYZ Catalogue 2024/25** which includes:
ProtoTRAK® Turret Mills.
ProtoTRAK® Bed Mills.
ProtoTRAK® TMCs.
Vertical Machining Centres.
5 Axis Simultaneous VMCs.
Manual Mills & Lathes.
Grinders.
Tooling & Accessories.



Visit www.xyzmachinetools.com or our YouTube channel to see the video.