

XYZ UMC 4+1

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

SIEMENS
Touchscreen

HEIDENHAIN
Touchscreen



XYZ UMC-5X

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

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5 axis (4+1) multi face or 5 axis simultaneous?

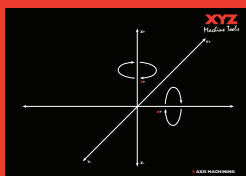
Stay ahead of the pack with either full blown simultaneous 5 axis or 5 axis via 4+1. Whether it is multi-face or 5 axis simultaneous machining, we have the solution. Machining with a UMC can save hours on machining and set up time, even on simple jobs that are currently done on a 3 axis VMC. To machine 6 sides of a dice requires 6 set ups on a VMC and only 2 on a multi-face machine.



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

N Atherton

Nigel Atherton
XYZ MANAGING DIRECTOR



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

XYZ UMC 4+I

XYZ UMC-5X

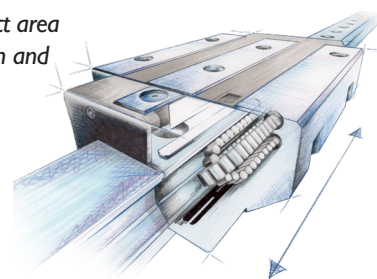
- **Siemens 840DSL ShopMill Touchscreen (iTNC 640 HSCI Heidenhain Touchscreen optional).**
XYZ UMC-5X only.
- **Front loading 600 mm diameter trunnion rotary table.**
- **High accuracy rotary axis direct drive high torque motor 90 rpm no worm and wheel.**
- **Tilting axis servo worm drive with brake +/- 120° (torque motor optional).**
- **Maximum table load of 600 kg.**
- **15,000 rpm in-line spindle or high speed 18,000 / 24,000 rpm motorised built-in spindle.**
- **35 kW / 261 Nm spindle motor.**
- **Repeatability +/- 2.5 microns.**
- **Linear scales XY and Z.**
Optional on XYZ UMC 4+I.
- **High precision encoders on A and C axis pivot centres.**
- **Side-mounted 24, 30, 48 or 60 tools ATC for quick tool changing.**
- **High pressure through spindle coolant system.**
- **Gantry frame machine.**
- **Thermal Spindle Compensation.**
- **Dynamic collision monitoring.**
XYZ UMC-5X only.
- **Traori / Kinematic functions for 5 axis simultaneous machining.** XYZ UMC-5X only.
- **Over 200 installed in Europe.**
- **Comes with fully dedicated 5 axis XYZ Service, Programming and Sales Engineers.**

	XYZ UMC 4+I and XYZ UMC-5X
Travels	
X and Y	600 mm
Z	500 mm
A (tilt)	+120° / -120°
C (rotation)	360°
Trunnion Table	
Table size	600 mm dia
Capacity	600 kg
Number of T slots	7
T slot width	14 mm
Standard spindle	
Speed	15,000 rpm
Drive system	In line direct drive
Torque	261 Nm @ S6 40%
Rating	35 kW @ S6 40% water cooled
Optional spindle	
Speed	18,000 / 24,000 rpm
Drive system	Motorised
Max torque	40 Nm
Max rating	25 kW
Feedrates (linear)	
Rapids X,Y and Z	36 M/min
Cutting feed rates	1-36,000 mm/min
Feedrates (rotary)	
Rapids C	540°/sec (90 rpm) opt 600°/sec (100 rpm)
Rapids A (tilting)	99°/sec (16.6 rpm) opt 300°/sec (50 rpm)
Tool changer	
Capacity	24 / 30 / 48 / 60
Tool type/taper	BBT / CAT / DIN 40 or HSK A63
Max tool length	300 mm
Tool to tool	1.5 sec
Chip to chip	2.3 sec
General	
Coolant capacity	20 Bar-TSC 370 L (70 Bar-TSC 570 L optional)
Air requirement	6 Bar 600 L/min
Power	400VAC±10 / 70 KVA (no transformer required)

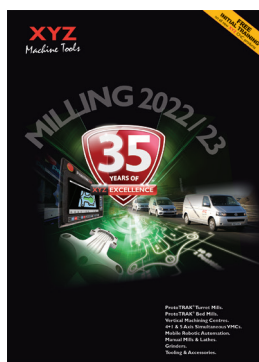
Conforming to ISO 10791	
Positional accuracy	+/- 5 microns /300 mm
Repeatability	+/- 2.5 microns
Circularity over 300mm	6 microns
C Axis Positioning Accuracy	+/- 5 sec

With Linear Roller Bearing Slides

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



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



Part of the **XYZ Milling Catalogue** which includes:
ProtoTRAK® Turret Mills.
ProtoTRAK® Bed Mills.
Vertical Machining Centres.
4+I & 5 Axis Simultaneous VMCs.
Mobile Robotic Automation.
Manual Mills & Lathes.
Grinders.
Tooling & Accessories.