

## XYZ UMC 4+1

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

**SIEMENS**  
Touchscreen

**HEIDENHAIN**  
Touchscreen



ISO 9001:2015 FM 538421    ISO 14001:2015 EMS 546518    ISO 50001:2011 ENMS 642457



## XYZ UMC-5X

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

**SIEMENS**  
Touchscreen

**HEIDENHAIN**  
Touchscreen



ISO 9001:2015 FM 538421    ISO 14001:2015 EMS 546518    ISO 50001:2011 ENMS 642457



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

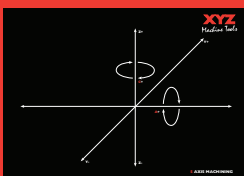
Stay ahead of the pack with either full blown simultaneous 5 axis or 5 axis via 4+1. Whether it is multi-face or 5 axis simultaneous machining, we have the solution. Machining with a UMC can save hours on machining and set up time, even on simple jobs that are currently done on a 3 axis VMC. To machine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



Visit our website or call today to get the full 16 page Technical Brochure.

## XYZ UMC 4+1

## XYZ UMC-5X

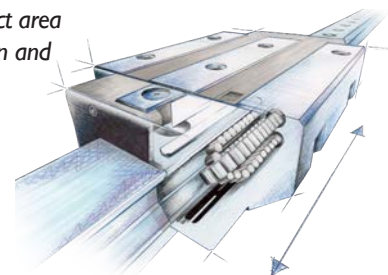
- **Siemens 840DSL ShopMill (iTNC 640 HSCI Heidenhain optional).** XYZ UMC-5X only.
- **Front loading 600 mm diameter trunnion rotary.**
- **High accuracy rotary axis direct drive high torque motor 90 rpm no worm and wheel.**
- **Tilting axis servo worm drive with brake +/- 120° (torque motor optional).**
- **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 X Y and Z.**  
Optional on XYZ UMC 4+1.
- **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.**
- **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+1 and XYZ UMC-5X	
<b>Travels</b>	
X and Y	600 mm
Z	500 mm
A (tilt)	+120° / -120°
C (rotation)	360°
<b>Trunnion</b>	
Table size	600 mm dia
Capacity	600 Kg
Number of T slots	7
T slot width	14 mm
<b>Standard spindle</b>	
Speed	15,000 rpm
Drive system	In line direct drive
Torque	261 Nm @ S6 40%
Rating	35 kW @ S6 40% water cooled
<b>Optional spindle</b>	
Speed	18,000 / 24,000 rpm
Drive system	Motorised
Max torque	40 Nm
Max rating	25 kW
<b>Feedrates (linear)</b>	
Rapids X,Y and Z	36 M/ min
Max cutting	36 M/ min
<b>Feedrates (rotary)</b>	
Rapids C	540°/sec (90 rpm ) opt 600°/sec (100 rpm)
Rapids A (tilting)	99°/sec (16.6 rpm ) opt 300°/sec (50 rpm)
<b>Tool changer</b>	
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
<b>General</b>	
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)

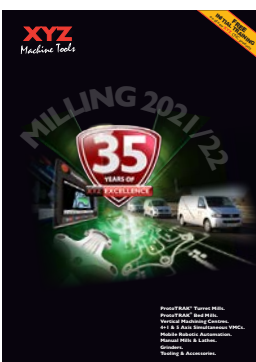
Conforming to ISO 10791	
Positional accuracy	+/- 5 microns /300 mm
Repeatability	+/- 2.5 microns
Circularity over 300mm	6 microns
C Axis Positioning Accuracy	+/- 5 sec

### With Linear Roller Bearing Slides

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



Visit [www.xyzmachinetools.com](http://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+1 & 5 Axis Simultaneous VMCs.**  
**Mobile Robotic Automation.**  
**Manual Mills & Lathes.**  
**Grinders.**  
**Tooling & Accessories.**