

**XYZ**  
Machine Tools

**FREE**  
**INITIAL TRAINING**  
on all new **XYZ** CNC products

MILLING 2021/22



**ProtoTRAK® Turret Mills.**  
**ProtoTRAK® Bed Mills.**  
**Vertical Machining Centres.**  
**4+1 & 5 Axis Simultaneous VMCs.**  
**Mobile Robotic Automation.**  
**Manual Mills & Lathes.**  
**Grinders.**  
**Tooling & Accessories.**



# XYZ Machine Tools

Please remember that each and every machine tool within this Milling Catalogue has been designed and built to be **'the very best in its class'**, and all of our machine tools are backed up with our first rate **XYZ Customer Support Teams.**



*N Atherton*  
Nigel Atherton  
MANAGING DIRECTOR



Our Devon HQ Showroom and Training Centre at a glance.

**Largest supplier of CNC's to the UK market.**

**800 machines built and delivered every year.**

**25,000 machines installed across the UK.**

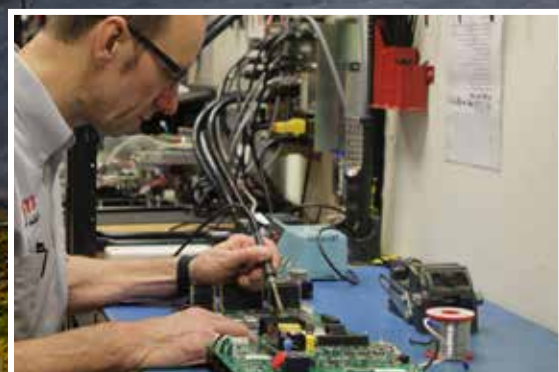


The 18,000 sq ft Parts Department with over £1.5 million of parts held in stock.

**INITIAL FREE TRAINING**  
on all new XYZ CNC products



Initial free product training available at any one of the five XYZ Training Centres.



UK back up support includes Servicing, Spares and Programming Helplines.



Free initial ProtoTRAK® training to get you up and running in minutes.



View our drone tour of HQ below.

<http://www.xyzmachinetools.com/video/overview>



Our Devon HQ, sized at 98,000 sq ft, houses stock of over 350 machine tools ready for delivery and installation.

## XYZ MACHINE TOOLS

- PROVEN QUALITY AND RELIABILITY FOR OVER 35 YEARS
- UK SALES & SERVICE BACK UP
- FULL PRODUCT TRAINING
- FINANCE PACKAGES TO SUIT
- MACHINE RENTAL
- PART EXCHANGE
- FULL 12 MONTH WARRANTY
- EXTENDED WARRANTIES
- NATIONWIDE SERVICE ENGINEERS
- PROGRAMMING HELPLINES
- SAME DAY SPARES DESPATCH





Here at **XYZ** we have been developing, testing, and refining our range of machine tools for over 35 years.

Our winning principles of combining outstanding build quality with the world's best control systems, namely ProtoTRAK<sup>®</sup>,

Siemens, and Heidenhain, have seen the **XYZ** product range grow to become the nation's first choice for prototype and low-volume production.

But that's just the beginning, when you combine great value products with an excellent support infrastructure it's easy to

see why **XYZ** has grown to be the largest supplier of CNC machine tools in the UK.

So here it is, the finished article, the **XYZ** 2021/22 range, each one the very best in its class.

# Introducing the **XYZ** thoroughbreds, each one the best in its class.



**XYZ Manual Mills, Lathes and Grinders**



**XYZ ProtoTRAK<sup>®</sup> KMX Turret Mill**  
3 Models available



**XYZ ProtoTRAK<sup>®</sup> RMX Bed Mills**  
4 Models available

**NEW** RLX 780 x 3 metre



**XYZ PROTURN RLX Lathes**  
8 Models available



**XYZ 2-OP**  
Now available with 10,000 RPM spindle  
1 Model available



**XYZ LR Range**  
3 Models available



**XYZ VMC HD Range**  
4 Models available



**XYZ High Speed VMC**  
1 Model available



**XYZ 5 Axis Simultaneous and 4+1 VMC**  
2 Models available

**NEW** 3 new models including Twin Spindle



**XYZ Turning Centres**  
6 Models available



**XYZ Robotic Automation**  
4 Models available



**XYZ Heavyweight Vertical Machining Centres**  
3 Models available

**NEW** XYZ XL now with live tooling option



**XYZ XL & Oil Country Lathes**  
5 Models available



# Introducing the ProtoTRAK® **KMX** and touchscreen **RMX** for the mill.

■ **BETTER**  
New hardware,  
faster feeds,  
24 **NEW** powerful  
features.

■ **EASIER**  
Now with up to  
15.6" touchscreen.

■ **FASTER**  
Now you can program  
your dxf files with just  
a few touches.

ProtoTRAK®  
CNC FROM ONLY  
**£99**  
A WEEK  
+VAT SUBJECT TO STATUS

## Productivity

- ProtoTRAK® RMX CNC integrated into the machine at the factory.
- TRAKing® allows operators to run through the program using handles.
- Programmable Spindle Control.

## Flexibility

- Manual, two or three axis.
- Real handwheels so you can work manually.
- DRO mode with power feed, teach and more.
- Head swivels right and left.

## Strength and Power

- Wide saddle.
- Box ways.
- Bed support of table and saddle.
- Low and high gear range.
- Entire ram moves along the column for rigidity.

## Precision

- Ballscrews in the table, saddle and column.
- Brushless servo motors with .000003" encoder resolution.
- Quill scale and column ballscrew encoder integrated into one Z dimension.
- Turcite coating on bearing surfaces to reduce friction.

‘The KMX and RMX controls on the XYZ range of Turret and Bed Mills is a formidable combination, a serious contender to the XYZ VMCs.’

*N Atherton*  
Nigel Atherton  
XYZ MANAGING DIRECTOR



## Book a Desktop Demo



Interact with your part graphics. You can zoom, pan or rotate your drawings and 3D varified part by using the touchscreen.



To find out more about the ProtoTRAK® controls visit our website or, better still, book a Desktop Demo via our website. <https://xyzmachinetools.com/prototrak-desktop-demo/>

## ProtoTRAK® on the Turret Mill and Bed Mill





# ProtoTRAK<sup>®</sup> turret mills.

From entry level CNC capability with DRO and powerfeeds for little more than the cost of a manual mill, up to the top of the range RMX ProtoTRAK<sup>®</sup> CNC control with 2 or 3 axis capabilities.

**XYZ KMX** turret mills built to the highest of standards.

## Motor / Head

All Turret Mill spindles are driven by AC motors transmitting power through a two speed gear box and variable speed cone pulleys. Precision quill bearings are dynamically balanced and built in a dust free, temperature controlled environment, to ensure smooth and accurate cutting performance.

## TRAKing<sup>®</sup>

KMX Turret Mills have the TRAKing<sup>®</sup> facility as an option which allows the operator to wind the handwheel and the machine moves through the program at that speed. The faster you wind the faster it machines. Stop or reverse the hand wheel and the machine does the same.

## Servo's & Ballscrews

High performance servo motors are built into the casting to protect them from the harsh machine shop environment. These servo's provide smooth consistent power to the precision ground ballscrews to give a perfect milled finish.

## Control

The latest generation of ProtoTRAK<sup>®</sup> KMX control provides maximum operator productivity particularly on **one-off** components or small batches. Even an operator with no previous CNC experience will be producing simple or complex parts within hours.

## Manual Operation

Mechanical handwheels allow the machinist to 'feel' the cutting process when manual machining is preferred, and will automatically disengage when the machine is running under CNC control.

## Solid Casting

Built of solid Meehanite ribbed cast iron with induction hardened and ground slides. Turcite-B coated ways and auto lubrication to all slides and precision ground ballscrews aid accuracy and longevity.

## Guarding

**Turret Mill Swing and Slide Guard.**



All XYZ machine tools are fitted with CE compliant guards. XYZ Turret Mills are fitted with swing and slide guards and XYZ Bed Mills are fitted with steel guards.



## XYZ KMX 1500

Entry level machine and control, after only one day you will wonder why you ever used a manual mill.

*Guards removed for clarity*



## XYZ KMX 2000


This machine has always been our best selling CNC Turret Mill, with its size capability and price making it a real winner.



## XYZ KMX SLV

1,000mm of 'X' Travel makes this one of the largest turret mills on the market.

XYZ KMX Turret Mills	XYZ KMX 1500	XYZ KMX 2000	XYZ KMX SLV
Spindle drive motor	2.25 kW (3 HP)	2.25 kW (3 HP)	3.75 kW (5 HP)
Vari speed range high / low	60-4,200 rpm	75-4,200 rpm	70-3,600 rpm
Table size	1,069 x 228 mm	1,270 x 254 mm	1,473 x 305 mm
T slots-3	15.9 mm 3 off	15.9 mm 3 off	15.9 mm 3 off
Longitudinal travel - X axis	610 mm	753 mm	1,000 mm
Cross travel - Y axis	305 mm	380 mm	410 mm
Knee vertical travel - Z axis	362 mm	406 mm	413 mm
Slide type	Hardened Ground	Hard Chrome	Hardened Box Way
Ram travel	390 mm	450 mm	450 mm
Spindle taper	R8 / 30 ISO optional	R8 / 30 ISO optional	40 ISO
Quill power feeds	.038 .076 .15 mm	.038 .076 .15 mm	.038 .076 .15 mm
Quill travel	127 mm	127 mm	127 mm
Quill diameter	86 mm	86 mm	105 mm
Max table load	350 kg	350 kg	580 kg
Swivel on turret	360°	360°	360°
Head tilt front to back	45°-45°	45°-45°	45°-45°
Head tilt left to right	90°-90°	90°-90°	90°-90°
Max throat depth	686 mm	686 mm	700 mm
Net weight approx	1,250 kg	1,350 kg	1,850 kg

 Visit our website or YouTube channel to see the video.

**Book a Desktop Demo.**



To make things simple, our demos take as little as 30 minutes and we will come to you.

*Guards removed for clarity*

# XYZ KMX 1500

**3 HP VARIABLE SPEED HEAD**  
**42" x 9" (1,069 x 228mm) TABLE**  
**24" x 12" (610 x 305mm) TRAVEL**



This is the best starting place for those keen to take advantage of CNC milling with the minimum of outlay.

The **XYZ KMX 1500** is the entry level machine and control, after only one day you will wonder why you ever used a manual mill.


### Standard Equipment

- Vari Speed 2 Range Head.**
- Chrome Slides.**
- 3 Axis DRO.**
- 2 Axis CNC.**
- Verify Solid Model Graphics.**
- Precision Ground Ballscrews.**
- Coolant.**
- Work Light.**
- Auto Lubrication.**
- Steel Swarf Tray.**
- Interlocked Guarding.**

### Optional Equipment

- TRAKing®.**
- Riser Blocks.**
- Air Power Drawbar.**
- 4th Axis DRO.**
- Offline Software.**
- Tooling, Vices etc.**
- Parasolid and DXF Convertors.**
- Millstar (Quill DRO).**

	<b>XYZ KMX 1500</b>
Spindle drive motor	2.25 kW (3 HP)
Vari speed range high / low	60-4,200 rpm
Table size	1,069 x 228 mm
T slots-3	15.9 mm 3 off
Longitudinal travel - X axis	610 mm
Cross travel - Y axis	305 mm
Knee vertical travel - Z axis	362 mm
<b>Slide type</b>	<b>Hardened Ground</b>
Ram travel	390 mm
Spindle taper	R8 / 30 ISO optional
Quill power feeds	.038 .076 .15 mm
Quill travel	127 mm
Quill diameter	86 mm
Max table load	350 kg
Swivel on turret	360°
Head tilt front to back	45°-45°
Head tilt left to right	90°-90°
Max throat depth	686 mm
Net weight approx	1,250 kg

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### Book a Desktop Demo.



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# XYZ KMX 2000

**3 HP VARIABLE SPEED HEAD**  
**42" x 9" (1,069 x 228mm) TABLE**  
**30" x 15" (753 x 380mm) TRAVEL**



Increase capacity without breaking the bank, the XYZ KMX 2000 turret mill provides the ideal solution.

The **XYZ KMX 2000** has always been our best selling CNC Turret Mill, with its size capability and price making it a real winner.


### Standard Equipment

**Vari Speed 2 Range Head.**  
**Chrome Slides.**  
**3 Axis DRO.**  
**2 Axis CNC.**  
**Verify Solid Model Graphics.**  
**Precision Ground Ballscrews.**  
**Coolant.**  
**Work Light.**  
**Power Rise & Fall to Knee on SLV Model.**  
**Auto Lubrication.**  
**Fibreglass Swarf Tray.**  
**Interlocked Guarding.**

### Optional Equipment

**TRAKing®.**  
**Riser Blocks.**  
**Air Power Drawbar.**  
**4th Axis DRO.**  
**Offline Software.**  
**Tooling, Vices etc.**  
**DXF Converter.**  
**Millstar (Quill DRO).**

	<b>XYZ KMX 2000</b>
Spindle drive motor	2.25 kW (3 HP)
Vari speed range high / low	75-4,200 rpm
Table size	1,270 x 254 mm
T slots-3	15.9 mm 3 off
Longitudinal travel - X axis	753 mm
Cross travel -Y axis	380 mm
Knee vertical travel - Z axis	406 mm
<b>Slide type</b>	<b>Hard Chrome</b>
Ram travel	450 mm
Spindle taper	R8 / 30 ISO optional
Quill power feeds	.038 .076 .15 mm
Quill travel	127 mm
Quill diameter	86 mm
Max table load	350 kg
Swivel on turret	360°
Head tilt front to back	45°-45°
Head tilt left to right	90°-90°
Max throat depth	686 mm
Net weight approx	1,350 kg

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### Book a Desktop Demo.



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# XYZ KMX SLV

**5 HP VARIABLE SPEED HEAD**  
**58" x 12" (1,471 x 305mm) TABLE**  
**40" x 16" (1,000 x 410mm) TRAVEL**



The pinnacle of the XYZ turret mill range, the XYZ KMX SLV's impressive specification delivers sector-leading capability for one-off and low volume machining.

The **XYZ KMX SLV** has 1,000mm of 'X' Travel making this one of the largest turret mills on the market.


### Standard Equipment

**Vari Speed 2 Range Head.**  
**Hardened Box Way.**  
**3 Axis DRO.**  
**2 Axis CNC.**  
**Verify Solid Model Graphics.**  
**Precision Ground Ballscrews.**  
**Coolant.**  
**Work Light.**  
**Auto Lubrication.**  
**Fibreglass Swarf Tray.**  
**Interlocked Guarding.**

### Optional Equipment

**TRAKing®.**  
**Riser Blocks.**  
**Air Power Drawbar.**  
**4th Axis DRO.**  
**Offline Software.**  
**Tooling, Vices etc.**  
**Parasolid and DXF Convertors.**  
**Millstar (Quill DRO).**

	<b>XYZ KMX SLV</b>
Spindle drive motor	3.75 kW (5 HP)
Vari speed range high / low	70-3,600 rpm
Table size	1,473 x 305 mm
T slots-3	15.9 mm 3 off
Longitudinal travel - X axis	1,000 mm
Cross travel - Y axis	410 mm
Knee vertical travel - Z axis	413 mm powered
<b>Slide type</b>	<b>Hardened Box Way</b>
Ram travel	450 mm
Spindle taper	40 ISO
Quill power feeds	.038 .076 .15 mm
Quill travel	127 mm
Quill diameter	105 mm
Max table load	580 kg
Swivel on turret	360°
Head tilt front to back	45°-45°
Head tilt left to right	90°-90°
Max throat depth	700 mm
Net weight approx	1,850 kg

 **Visit our website or YouTube channel to see the video.**

### Book a Desktop Demo.



To make things simple, our demos take as little as 30 minutes and we will come to you.



# ProtoTRAK<sup>®</sup> bed mills.

From entry level CNC capability with DRO and powerfeeds for little more than the cost of a manual mill, up to the top of the range RMX ProtoTRAK<sup>®</sup> CNC control with 2 or 3 axis capabilities.

**XYZ RMX** bed mills built to the highest of standards.

## Motor / Head

All RMX Bed Mills have programmable spindle speed and are driven by AC motors with drive to the spindle cartridge, transmitting power through non-slip latest technology Polygrip Vee belts and pulleys. The lifetime lubricated and dynamically balanced spindle cartridge ensures smooth and accurate cutting performance even at high speeds.

## Solid Casting

Built of solid Meehanite ribbed cast iron with induction hardened and ground slides. Turcite-B coated ways and auto lubrication to all slides and precision ground ballscrews aid accuracy and longevity.

## TRAKing<sup>®</sup>

RMX Bed Mills have the TRAKing<sup>®</sup> facility as an option which allows the operator to wind the handwheel and the machine moves through the program. The faster you wind the faster it machines. Stop or reverse the hand wheel and the machine does the same.

## Control

The latest generation of ProtoTRAK<sup>®</sup> RMX three-axis control provides maximum operator productivity, particularly on one-off components or small batches. Even an operator with no previous CNC experience will be producing simple or complex parts within hours.

## Servo's & Ballscrews

High performance digital servo motors are built into the casting to protect them from the harsh machine shop environment. These high performance servo's provide smooth, consistent, power to the precision ground ballscrews to give a perfect milled finish.



Guards removed for clarity

## Tilting Head

RMX Bed Mills have the capability to tilt the head side to side. This offers the option of either using the manual quill or programming the head to produce angled holes or surfaces. Programmable spindle speeds of 40-5,000 rpm are standard and TRAKing<sup>®</sup> is available as an option on all models.

## Guarding



Bed Mill Steel Guard.

All XYZ machine tools are fitted with CE compliant guards. XYZ Bed Mills are fitted with steel guards.



Guards removed for clarity

## XYZ RMX 2500

This brings 3 axis milling within reach of all UK toolrooms.

## XYZ RMX 3500

Bed Mills are essential for when 3 axis CNC machining is required. Offering 530mm of programmable 'Z' travel yet still keeping the versatility of a swivel head and manual quill.

## XYZ RMX 4000

This 1,000mm 'X' travel machine offers massive capacity at a very competitive price.

## XYZ RMX 5000

Give yourself an advantage! How many companies do you know with 1,500mm X axis capacity on a relatively low cost CNC Bed Mill?

	XYZ RMX 2500	XYZ RMX 3500	XYZ RMX 4000	XYZ RMX 5000
Spindle drive motor	2.2 kW (3 HP)	3.75 kW (5 HP)	5.75 kW (7.5 HP)	5.75 kW (7.5 HP)
Speed range	40-4,200 rpm programmable	40-5,000 rpm programmable	40-5,000 rpm programmable	40-5,000 rpm programmable
2 Speed ranges	40-490 <sup>2</sup> / 300-4,200 rpm	40-600 / 300-5,000 rpm	40-600 / 300-5,000 rpm	40-600 / 300-5,000 rpm
Table size	1,245 X 228 mm	1,372 x 356 mm	1,474 x 356 mm	1,930 x 356 mm
T slots	15.9 mm 3 off	15.9 mm 4 off	15.9 mm 4 off	15.9 mm 4 off
Longitudinal travel X axis	762 mm	787 mm	1,016 mm	1,524 mm
Cross travel Y axis	381 mm	508 mm	596 mm	596 mm
Head vertical travel Z axis	560 mm	500 mm	584 mm	584 mm
Spindle taper	R8 / 30 ISO optional	40 ISO	40 ISO	40 ISO
Quill power feeds	.038 .076 .15 mm	.038 .076 .15 mm	.038 .076 .15 mm	.038 .076 .15 mm
Quill travel	127 mm	127 mm	140 mm	140 mm
Quill diameter	85.7 mm	105 mm	116 mm	116 mm
Max table load	600 kg	600 kg	850 kg	850 kg
Head tilt left to right	45°-45°	45°-45°	45°-45°	45°-45°
Throat depth	460 mm	520 mm	610 mm	610 mm
Net weight approx	1,780 kg	2,430 kg	3,190 kg	3,560 kg



Visit our website or YouTube channel to see the video.

## Book a Desktop Demo.



To make things simple, our demos take as little as 30 minutes and we will come to you.



## XYZ RMX 2500

**3HP PROGRAMMABLE VARIABLE SPEED HEAD**  
**49" x 9" (1,245 x 228mm) TABLE**  
**30" x 15" x 22" (762 x 381 x 560mm) TRAVEL**  
**4,200 RPM SPINDLE**



Entry level price with premium performance, the XYZ RMX 2500 bed mill is the starting point for toolrooms moving to three-axis milling.

The **XYZ RMX 2500** brings 3 axis milling within reach of all UK toolrooms.


### Standard Equipment

**Programmable Variable Speed Head.**  
**Hard Chrome Slides.**  
**3 Axis DRO.**  
**2 or 3 Axis CNC.**  
**Precision Ground Ballscrews.**  
**Coolant.**  
**Air Power Drawbar.**  
**Work Light.**  
**Auto Lubrication.**  
**Interlocked Guarding.**

### Optional Equipment

**Advanced Features.**  
**TRAKing®**  
**Riser Blocks.**  
**Offline Software.**  
**Tooling, Vices etc.**  
**DXF Converter.**  
**Parasolid Converter.**  
**Programmable 4th Axis.**

	<b>XYZ RMX 2500</b>
Spindle drive motor	2.2 kW (3 HP)
Speed range	40-4,200 rpm <i>programmable</i>
2 Speed ranges	40-490 <sup>2</sup> / 300-4,200 rpm
Table size	1,245 X 228 mm
T slots	15.9 mm 3 off
Longitudinal travel X axis	762 mm
Cross travel Y axis	381 mm
Head vertical travel Z axis	560 mm
Spindle taper	R8 / 30 ISO optional
Quill power feeds	.038 .076 .15 mm
Quill travel	127 mm
Quill diameter	85.7 mm
Max table load	600 kg
Head tilt left to right	45°-45°
Throat depth	460 mm
Net weight approx	1,780 kg

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# XYZ RMX 3500

**5HP PROGRAMMABLE VARIABLE SPEED HEAD**  
**54" x 14" (1,370 x 356mm) TABLE**  
**31" x 20" x 20" (787 x 508 x 508mm) TRAVEL**  
**PROGRAMMABLE 5,000 RPM SPINDLE**



With its solid cast construction and 5HP spindle, the XYZ RMX 3500 bed mill packs a powerful punch for one-off toolroom jobs or production runs.

The **XYZ RMX 3500** Bed Mill is essential for when 3 axis CNC machining is required. Offering 530 mm of programmable 'Z' travel yet still keeping the versatility of a swivel head and manual quill.


### Standard Equipment

**Programmable Variable Speed Head.**  
**Hardened and Ground Ways.**  
**3 Axis DRO.**  
**2 or 3 Axis CNC.**  
**Precision Ground Ballscrews.**  
**Coolant.**  
**Air Power Drawbar.**  
**Work Light.**  
**Auto Lubrication.**  
**Interlocked Guarding.**

### Optional Equipment

**Advanced Features.**  
**TRAKing®**  
**Riser Blocks.**  
**Offline Software.**  
**Tooling, Vices etc.**  
**DXF Converter.**  
**Parasolid Converter.**  
**Programmable 4th Axis.**

	<b>XYZ RMX 3500</b>
Spindle drive motor	3.75 kW (5 HP)
Speed range	40-5,000 rpm <i>programmable</i>
2 Speed ranges	40-600 / 300-5,000 rpm
Table size	1,372 x 356 mm
T slots	15.9 mm 4 off
Longitudinal travel X axis	787 mm
Cross travel Y axis	508 mm
Head vertical travel Z axis	500 mm
Spindle taper	40 ISO
Quill power feeds	.038 .076 .15 mm
Quill travel	127 mm
Quill diameter	105 mm
Max table load	600 kg
Head tilt left to right	45°-45°
Throat depth	520 mm
Net weight approx	2,430 kg

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### Book a Desktop Demo.



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## XYZ RMX 4000

**7.5HP PROGRAMMABLE VARIABLE SPEED HEAD**  
**58" x 14" (1,470 x 356mm) TABLE**  
**40" x 23 1/2" x 23" (1,016 x 596 x 584mm) TRAVEL**  
**PROGRAMMABLE 5,000 RPM SPINDLE**



If your work needs more spindle power than the RMX 4000 is the machine for you, with 7.5 HP available and fully programmable spindle speed.

The **XYZ RMX 4000** has a 1,000mm 'X' travel machine offers massive capacity at a very competitive price.


### Standard Equipment

**Programmable Variable Speed Head.**  
**Hard Box Ways.**  
**3 Axis DRO.**  
**2 or 3 Axis CNC.**  
**Precision Ground Ballscrews.**  
**Coolant.**  
**Air Power Drawbar.**  
**Work Light.**  
**Auto Lubrication.**  
**Interlocked Guarding.**

### Optional Equipment

**Advanced Features.**  
**TRAKing®**  
**Riser Blocks.**  
**Offline Software.**  
**Tooling, Vices etc.**  
**DXF Converter.**  
**Parasolid Converter.**  
**Programmable 4th Axis.**

	<b>XYZ RMX 4000</b>
Spindle drive motor	5.75 kW (7.5 HP)
Speed range	40-5,000 rpm <i>programmable</i>
2 Speed ranges	40-600 / 300-5,000 rpm
Table size	1,474 x 356 mm
T slots	15.9 mm 4 off
Longitudinal travel X axis	1,016 mm
Cross travel Y axis	596 mm
Head vertical travel Z axis	584 mm
Spindle taper	40 ISO
Quill power feeds	.038 .076 .15 mm
Quill travel	140 mm
Quill diameter	116 mm
Max table load	850 kg
Head tilt left to right	45°-45°
Throat depth	610 mm
Net weight approx	3,190 kg

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### Book a Desktop Demo.



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## XYZ RMX 5000

**7.5HP PROGRAMMABLE VARIABLE SPEED HEAD**  
**76" x 14" (1,930 x 356mm) TABLE**  
**60" x 23 1/2" x 23" (1,524 x 596 x 584mm) TRAVEL**  
**PROGRAMMABLE 5,000 RPM SPINDLE**

**With 1.5 metre table travel.**



When size matters the XYZ RMX 5000 is the machine you need in your toolroom. Its substantial build quality is matched by an impressive specification.

The **XYZ RMX 5000** gives you an advantage! How many companies do you know with 1,500mm X axis capacity on a relatively low cost CNC Bed Mill?


### Standard Equipment

**Programmable Variable Speed Head.**  
**Hardened and Ground Ways.**  
**3 Axis DRO.**  
**2 or 3 Axis CNC.**  
**Precision Ground Ballscrews.**  
**Coolant.**  
**Air Power Drawbar.**  
**Work Light.**  
**Auto Lubrication.**  
**Interlocked Guarding.**

### Optional Equipment

**Advanced Features.**  
**TRAKing®**  
**Riser Blocks.**  
**Offline Software.**  
**Tooling, Vices etc.**  
**DXF Converter.**  
**Parasolid Converter.**  
**Programmable 4th Axis.**

	<b>XYZ RMX 5000</b>
Spindle drive motor	5.75 kW (7.5 HP)
Speed range	40-5,000 rpm <i>programmable</i>
2 Speed ranges	40-600 / 300-5,000 rpm
Table size	1,930 x 356 mm
T slots	15.9 mm 4 off
Longitudinal travel X axis	1,524 mm
Cross travel Y axis	596 mm
Head vertical travel Z axis	584 mm
Spindle taper	40 ISO
Quill power feeds	.038 .076 .15 mm
Quill travel	140 mm
Quill diameter	116 mm
Max table load	850 kg
Head tilt left to right	45°-45°
Throat depth	610 mm
Net weight approx	3,560 kg

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### Book a Desktop Demo.



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# XYZ 2-OP

## ProtoTRAK® System Hardware

ProtoTRAK® TMX CNC.  
 Three-Axis CNC and DRO.  
 5" Active-Matrix Colour LCD Screen.  
 2 USB Ports.  
 LED Status Lights built into display.  
 Uncluttered Front Panel with few Hard Keys.  
 Beacon Light.  
 Override of Program Spindle Speed.  
 Coolant Pump.

## Software Features General Operation

Clear, uncluttered Screen Display.  
 Prompted Data Inputs.  
 Conversational Programming – no codes.  
 Soft Keys - change within context.  
 Windows® Operating System.  
 Three-Axis CNC.  
 Inch/mm Selectable.

Absolute Home Location.  
 Canned Cycles – Pockets, Profiles, Bolt Hole Patterns, etc.  
 Rigid Tapping.  
 Reference to Ball Lock locations on table.



Achieve 'cell set ups' quickly and easily without the need to employ extra skilled labour.

# Mobile cell manufacturing for every machine shop with no increase in labour costs.

In a subcontract environment if the job is only a few hundred components, it's not worth moving machines around to set up a manufacturing cell. The **XYZ 2-OP** addresses this issue by allowing you to quickly set up a cell so smaller batch runs can be machined with 'cellular' efficiency, dramatically reducing the time on the whole job.

### Standard Equipment

ProtoTRAK® TMX 3 Axis CNC Control.  
 Optimised Digital Servo's.  
 8 Station Toolchanger.  
 10,000 RPM Spindle.  
 Jergens Ball Lock Table.  
 Pallet Truck.  
 Rigid Tapping.  
 Flood Coolant.  
 Worklight.  
 Auto Lubrication.  
 Pull Studs.  
 USB Port.  
 Networking.  
 Offline Programming (free download).

### Optional Equipment

Kurt Modified Vice.  
 Fixture Plate for Vice with Fence and Magnetic Stops.  
 Plain Fixture Plate.  
 Ball Lock Clamping Devices.  
 Primary and Secondary Liners for Fixture Plates.  
 Tooling Cart.  
 Speed indexer.  
 4th Axis with Controller.  
 External USB Drive.

	XYZ 2-OP
X travel	355 mm
Y travel	305 mm
Z travel	455 mm
Table size	457 x 381 mm
Spindle to table	70 - 525 mm
Rapid feed XYZ axis	15 M/min
Max table load	250 kg
T slot size	16 mm
T slot number & pitch	4 @ 63 mm
Spindle speed	50 - 10,000 rpm
Spindle motor	3 HP
Spindle taper	BT 30
Tool magazine	8 station
Max tool diameter	50 mm
Machine weight	1,100 kg
Footprint W x D x H	775 x 1,380 x 2,520 mm

The XYZ 2-OP comes fully equipped with tooling options, fixings and accessories as standard



Programmable Pneumatic Speed Indexer



Tool Holders - BT30, eight pieces of assorted sizes.



Mobile Tool Cart - Convenient and easy to move.



XYZ 2-OP Vice - Special model for the XYZ 2-OP (recommended).

**Quick cell set up**  
 With a footprint of only 775mm x 1,380mm the XYZ 2-OP can easily fit into the tightest of spaces.



Visit our website or YouTube channel to see the video.



# XYZ Vertical Machining Centres - quality proven.

XYZ HD machining centres are built on the well-proven model of a solid Meehanite ribbed casting, with induction hardened and ground slides combined with Turcite-B coated ways. This combination, along with the computer modelled rib reinforcement, gives superb

vibration absorption and rigidity. The XYZ machining centre range has optimised digital servo motors and automatic lubrication to slides and ballscrews, allowing fast rapid traverse rates. These machining centres have proven their worth in the toughest of sub-contract

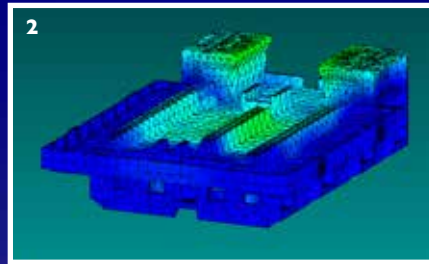
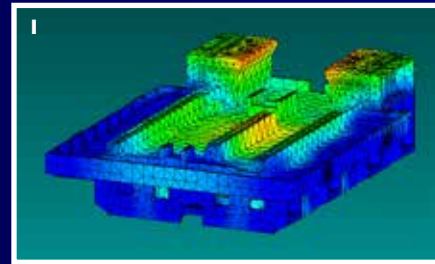
machine shop environments, so you can be assured that an XYZ machining centre is a workhorse that you can rely on well into the future. The new XYZ LR range of VMCs have been built to the same exacting standards and now feature the latest in linear bearing technology.

## Finite Element Analysis.

We don't just 'hope' we have a rigid machine, every XYZ machine is designed using the latest design technology. All parts and castings are analysed for areas of stress and weakness using Finite Element Analysis, so the parts and castings are the best they can be from the outset. Red points show stress and they are optimised in the final casting.

In the first image, areas of stress and weakness are identified and shown in yellow and red. In the second image, areas of stress and weakness now eliminated.

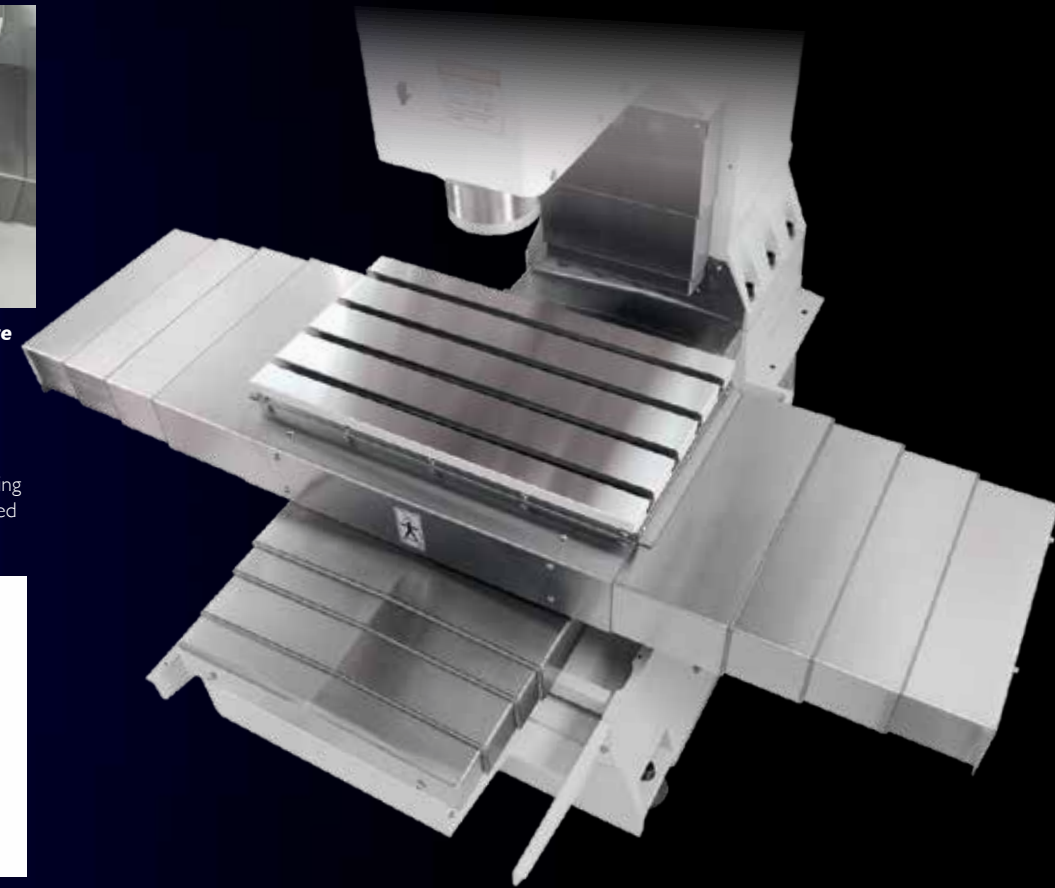
The final casting produced is solid, rigid and reliable. (Photo shown is of the XYZ 1060 HS base casting).



Linear Rails on all axes of the LR Range

### Direct drive on three axes

The three axes traverse are driven by high performance servo motors, which drive ballscrews with couplings assuring high positioning accuracy under any load condition. The optimised ballscrews are preloaded to minimise backlash.



### Fully protected

All XYZ VMCs feature steel concertina guards on all axes to protect the solid ribbed castings, slides and precision ground ballscrews.

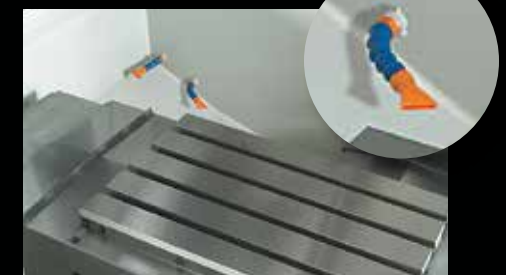
### Automatic Lubrication

The automatic lubrication is controlled by the CNC system that monitors and distributes oil to the guideways and ballscrews to ensure all critical components are lubricated with the correct amount of oil at all times.



### Swarf Management

Wash down facilities are standard on all VMCs. Swarf from the machining area is washed down to the swarf removal area. An optional conveyor can further reduce the time spent cleaning.



## XYZ LR Frame

This frame design is similar on all three XYZ LR models. The XYZ 500 LR, XYZ 750 LR and the XYZ 1000 LR. The only items that change are rail sizes, weight and overall size.



## XYZ 660 HD and 800 HD Frame

This frame design is similar on both models of HD VMCs. The only items that change are box section sizes, weight and overall size.



## XYZ 1100 HD Frame

This frame design is only available on the XYZ 1100 HD the base casting supports the full X and Y travels allowing up to 1,500 Kg of table load which is fully supported throughout the traverse.



# The XYZ LRs with the latest linear rail technology are built to the highest of standards.

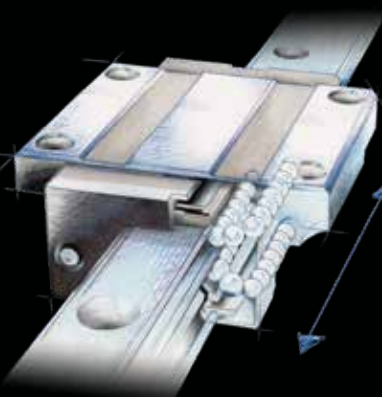
The LR range starts with the compact XYZ 500 LR, followed by the mid range XYZ 750 LR and the XYZ 1000 LR all the way up to the 1,600 mm travel XYZ 1600 LR. All come with initial free training, ongoing service and support and access to the XYZ Programming Helplines. This makes the LRs the perfect choice for those new to CNC or for the workshop that's looking to modernise it's existing machining capabilities with the minimum financial outlay. High speed machining has never been more affordable.

**SIEMENS**



## XYZ LR Frame

This frame design is similar on all four XYZ LR models. The only items that change are rail sizes, weight and overall size.



**Linear Rail Ball Bearing Slides**  
New advances in Linear Rail Technology have enabled XYZ to produce a highly cost effective range of VMCs, the best selling XYZ LR range.

	XYZ 500 LR	XYZ 750 LR	XYZ 1000 LR	XYZ 1600 LR
X travel	510 mm	750 mm	1,000 mm	1,600 mm
Y travel	400 mm	440 mm	500 mm	660 mm
Z travel	450 mm	500 mm	500 mm	635 mm
Table size	580 x 400 mm	830 x 410 mm	1,060 x 500 mm	1,600 x 660 mm
Spindle centre to column	415 mm	500 mm	532 mm	750 mm
Spindle to table	100 - 550 mm	100 - 600 mm	100 - 600 mm	105 - 740 mm
Column front to table centre	215 - 615 mm	305 - 745 mm	382 - 782 mm	370 - 1,030 mm
Rapid feed XYZ axis	20,000 mm/min	20,000 mm/min	20,000 mm/min	20,000 mm/min
Cutting feed rates	1-20,000 mm/min	1-20,000 mm/min	1-20,000 mm/min	1 - 20,000 mm/min
Max table load	250 kg	500 kg	800 kg	1,000 kg
T slot size	16 mm	16 mm	16 mm	18 mm
T slot number & pitch	3 @ 125 mm	3 @ 100 mm	4 @ 125 mm	5 @ 100 mm
Spindle speed	5 - 8,000 rpm	5 - 8,000 rpm	5 - 8,000 rpm	8,000 rpm (12,000 opt)
Spindle motor	20 HP / 15 kW	20 HP / 15 kW	20 HP / 15 kW	20 HP / 15 kW
Spindle taper	BT 40	BT 40	BT 40	BT 40
Tool magazine capacity	12 carousel	20 carousel (24 arm type optional)	20 carousel (24 arm type optional)	24 arm type
Tool change tool to tool	8 sec	8 sec (2.5 sec)	8 sec (2.5 sec)	2.5 sec
Max tool diameter	100 mm	80 mm	80 mm	80 mm
Max tool weight	6 kg	7 kg	7 kg	8 kg
Coolant capacity	105 L	125 L	160 L	160 L
Ballscrew size (grade C3)	28 mm P8	32 mm P8	32 mm P8	40 mm P8
AC servo motor size	X and Y 8Nm Z 12Nm	X and Y 8Nm Z 12Nm	X and Y 8Nm Z 12Nm	X and Y 12Nm Z 16Nm
Machine weight	2,400 kg	3,500 kg	4,600 kg	6,500 kg
Footprint W x D x H	1,660 x 1,860 x 2,300 mm	2,100 x 2,150 x 2,450 mm	2,530 x 2,200 x 2,500 mm	4,000 x 2,650 x 3,000 mm

XYZ 500 LR



The XYZ 500 LR makes full CNC machining even more affordable.

XYZ 750 LR



The XYZ 750 LR hits the spot for cost-effective machining.

XYZ 1000 LR



The XYZ 1000 LR provides large capacity at an affordable price.

XYZ 1600 LR



The XYZ 1600 LR gives you a competitive advantage on those bigger jobs.

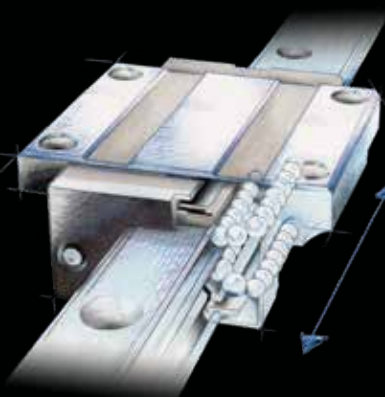


**XYZ 500 LR**

**SPINDLE 20 HP / 15 kW**  
**580 x 400 mm TABLE**  
**510 x 400 x 450 mm TRAVEL**  
**8,000 RPM SPINDLE**  
**SOLID CASTING 2,400 KG**

**SIEMENS**

Conforming to ISO 10791	
Positional accuracy	+/- 5 microns
Repeatability	+/- 2 microns
Circularity over 300mm	10 microns
Geometric accuracy over 300mm	10 microns



**Linear Rail Ball Bearing Slides**  
 New advances in Linear Rail Technology have enabled XYZ to produce a highly cost effective range of VMCs, the best selling XYZ LR range.

**XYZ 500 LR** is our best selling entry level VMC making CNC machining even more affordable.

The **XYZ 500 LR** is the smallest machine in XYZ's new linear rail technology range. As part of this new range of machines, the XYZ 500 LR offers price competitive performance with axis travels of 510 x 400 x 450 mm, 8,000 rpm spindle and 20m/min cutting feedrates. The move to linear rail technology comes after recent significant design advances in these rails, which now makes them compatible with XYZ's quality/performance criteria. With their addition to the XYZ range the LR machines offer a lower cost introduction to VMC ownership. XYZ Machine Tools is happy to demonstrate the capability of these machines at any of its UK showrooms.

**Standard Equipment**

- Siemens 828D Control.**
- Optimised Digital Servos.**
- Rigid Tapping.**
- Flood Coolant.**
- Worklight.**
- 12 Station Carousel.**
- Easy Clean Swarf Tray.**
- Steel Concertina Guards on all axes.**
- Powder Coated Guarding.**
- Pull Studs.**
- USB Port.**
- Compact Flash Card Slot.**

**Optional Equipment**

- 4th Axis Rotary Table.**
- Swarf Conveyor and Bin.**
- Renishaw/Heidenhain Toolsetting and Probing.**
- 12,000 RPM Spindle.**
- Through Spindle Coolant.**
- Remote Electronic Handwheel.**
- Side Vision Panels.**
- Offline Programming.**
- ShopMill Advanced Software.**
- Contour Handwheel (wind the handwheel to run through the program).**
- Factory Networking.**
- Advanced Swarf Management System.**
- DXF Reader.**

	<b>XYZ 500 LR</b>
X travel	510 mm
Y travel	400 mm
Z travel	450 mm
Table size	580 x 400 mm
Spindle centre to column	415 mm
Spindle to table	100 - 550 mm
Column front to table centre	215 - 615 mm
Rapid feed XYZ axis	20,000 mm/min
Cutting feed rates	1-20,000 mm/min
Max table load	250 kg
T slot size	16 mm
T slot number & pitch	3 @ 125 mm
Spindle speed	5-8,000 rpm
Spindle motor	20 HP / 15 kW
Spindle taper	BT 40
Tool magazine capacity	12 carousel
Tool change time <i>tool to tool</i>	8 sec
Max tool diameter	100 mm
Max tool weight	6 kg
Coolant capacity	105 L
Ballscrew size (grade C3)	28 mm P8
AC servo motor size	X and Y 8Nm Z 12Nm
Machine weight	2,400 kg
Footprint W x D x H	1,660 x 1,860 x 2,300 mm



**XYZ 750 LR**

**SPINDLE 20 HP / 15 kW**  
**830 x 410 mm TABLE**  
**750 x 440 x 500 mm TRAVEL**  
**8,000 RPM SPINDLE**  
**SOLID CASTING 3,500 KG**

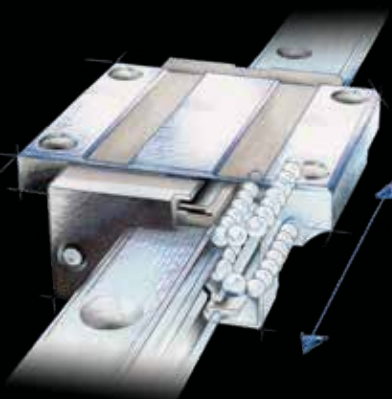
**SIEMENS**

Conforming to ISO 10791	
Positional accuracy	+/- 5 microns
Repeatability	+/- 2 microns
Circularity over 300mm	10 microns
Geometric accuracy over 300mm	10 microns

XYZ 750 LR hits the spot for cost-effective machining.

Sitting in the middle of the new XYZ LR range of linear rail machines, the **XYZ 750 LR's** capacity will make it the most popular choice for those looking to step up to CNC vertical machining centre operation at a very competitive price. With axis travels of 750 x 440 x 500 mm the **XYZ 750 LR** has the capacity to handle the majority of work passing through a typical machine shop. Add to that the 8,000 rpm, BT 40 spindle, 20 position toolchanger and a maximum table load of 500 kg it is a more than capable machine.

Demonstrations of the **XYZ 750 LR** are available at any of the XYZ showrooms.



**Linear Rail Ball Bearing Slides**  
 New advances in Linear Rail Technology have enabled XYZ to produce a highly cost effective range of VMCs, the best selling XYZ LR range.

**Standard Equipment**

- Siemens 828D Control.**
- Optimised Digital Servos.**
- Rigid Tapping.**
- Flood Coolant.**
- Worklight.**
- 20 Station Carousel.**
- Easy Clean Swarf Tray.**
- Steel Concertina Guards on all axes.**
- Powder Coated Guarding.**
- Pull Studs.**
- USB Port.**
- Compact Flash Card Slot.**

**Optional Equipment**

- 24 Station Arm Type ATC.**
- 4th Axis Rotary Table.**
- Swarf Conveyor and Bin.**
- Renishaw/Heidenhain Toolsetting and Probing.**
- 12,000RPM Spindle.**
- Through Spindle Coolant.**
- Remote Electronic Handwheel.**
- Side Vision Panels.**
- Offline Programming.**
- ShopMill Advanced Software.**
- Contour Handwheel (wind the handwheel to run through the program).**
- Factory Networking.**
- Advanced Swarf Management System.**
- DXF Reader.**

	<b>XYZ 750 LR</b>
X travel	750 mm
Y travel	440 mm
Z travel	500 mm
Table size	830 x 410 mm
Spindle centre to column	500 mm
Spindle to table	100 - 600 mm
Column front to table centre	305 - 745 mm
Rapid feed XYZ axis	20,000 mm/min
Cutting feed rates	1 - 20,000 mm/min
Max table load	500 kg
T slot size	16 mm
T slot number & pitch	3 @ 100 mm
Spindle speed	5 - 8,000 rpm
Spindle motor	20 HP / 15 kW
Spindle taper	BT 40
Tool magazine capacity	20 carousel (24 arm type optional)
Tool change time tool to tool	8 sec (2.5 sec)
Max tool diameter	80 mm
Max tool weight	7 kg
Coolant capacity	125 L
Ballscrew size (grade C3)	32 mm P8
AC servo motor size	X and Y 8Nm Z 12Nm
Machine weight	3,500 kg
Footprint W x D x H	2,100 x 2,150 x 2,450 mm



**XYZ 1600 LR**

**SPINDLE 20 HP / 15 kW**  
**1,600 x 660 mm TABLE**  
**1,600 x 660 x 635 mm TRAVEL**  
**8,000 RPM SPINDLE**  
**SOLID CASTING 6,500 KG**

**SIEMENS**

Conforming to ISO 10791	
Positional accuracy	+/- 5 microns
Repeatability	+/- 2 microns
Circularity over 300mm	10 microns
Geometric accuracy over 300mm	10 microns

**Standard Equipment**

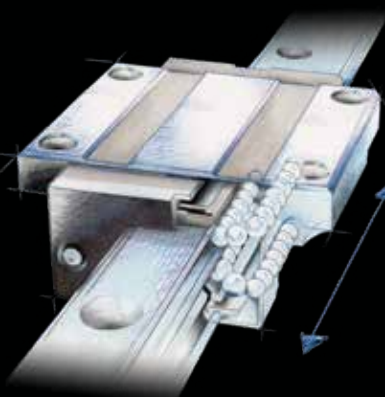
**Siemens 828D Control.**  
**Optimised Digital Servos.**  
**Rigid Tapping.**  
**Flood Coolant.**  
**Worklight.**  
**24 Station Arm Type ATC.**  
**Easy Clean Swarf Tray.**  
**Steel Concertina Guards on all axes.**  
**Powder Coated Guarding.**  
**Pull Studs.**  
**USB Port.**  
**Compact Flash Card Slot.**

**Optional Equipment**

**4th Axis Rotary Table.**  
**Swarf Conveyor and Bin.**  
**Renishaw/Heidenhain Toolsetting and Probing.**  
**12,000RPM Spindle.**  
**Through Spindle Coolant.**  
**Remote Electronic Handwheel.**  
**Side Vision Panels.**  
**Offline Programming.**  
**ShopMill Advanced Software.**  
**Contour Handwheel (wind the handwheel to run through the program).**  
**Factory Networking.**  
**Advanced Swarf Management System.**  
**DXF Reader.**

As the largest machine in the LR range the XYZ 1600 LR provides large capacity at an affordable price.

The **XYZ 1600 LR** has an impressive specification, including 1,600 mm of travel in the X-axis 660 in Y and 635 in Z. It shares the same 15 kW, 8,000 rpm, BT 40 spindle with the other machines in the range as well as the standard 24 station arm-type tool changer. The recent development in linear rail technology now means that XYZ can deliver a machine of this size to a very competitive price/performance ratio. Demonstrations of XYZ's linear rail machines are available at any of the XYZ showrooms.



**Linear Rail Ball Bearing Slides**  
 New advances in Linear Rail Technology have enabled XYZ to produce a highly cost effective range of VMCs, the best selling XYZ LR range.

	<b>XYZ 1600 LR</b>
X travel	1,600 mm
Y travel	660 mm
Z travel	635 mm
Table size	1,600 x 660 mm
Spindle centre to column	750 mm
Spindle to table	105 - 740 mm
Column front to table centre	370 - 1,030 mm
Rapid feed XYZ axis	20,000 mm/min
Cutting feed rates	1 - 20,000 mm/min
Max table load	1,000 kg
T slot size	18 mm
T slot number & pitch	5 @ 100 mm
Spindle speed	8,000 rpm (12,000 rpm opt)
Spindle motor	20 HP / 15 kW
Spindle taper	BT 40
Tool magazine capacity	24
Tool change time <i>tool to tool</i>	2.5 sec
Max tool diameter	80 mm
Max tool weight	8 kg
Coolant capacity	160 L
Ballscrew size (grade C3)	40 mm P8
AC servo motor size	X and Y 12Nm Z 16Nm
Machine weight	6,500 kg
Footprint W x D x H	4,000 x 2,650 x 3,000 mm

**Give yourself a competitive advantage, charge higher rates for those bigger jobs or get more smaller jobs on the table.**

**There may well be a shortage of bigger capacity machines in your area.**



# The XYZ HDs with hardened box ways for serious heavy duty metal removal.

Hardened box ways with Turcite coated slides have been the first choice for XYZ machines for many years, as they are renowned for providing the best solution for machine tool construction. The combination of machine weight and hardened box slideways guarantees a highly rigid machining platform, providing exceptional vibration damping, especially on intermittent cutting across a wide range of materials, such as Inconel, titanium, cast iron or stainless steel.

**SIEMENS**  
Touchscreen

**HEIDENHAIN**  
Touchscreen

**HD**  
HEAVY DUTY



## XYZ 660 HD and 800 HD Frame

This frame design is similar on both models of HDVMCs. The only items that change are box section sizes, weight and overall size.



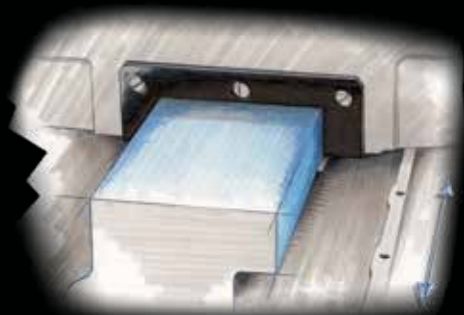
## XYZ 1100 HD Frame

This frame design is only available on the XYZ 1100 HD the base casting supports the full X and Y travels allowing up to **1,500 Kg** of table load which is fully supported throughout the traverse.

	XYZ 660 HD	XYZ 800 HD	XYZ 1100 HD
X travel	660 mm	800 mm	1,100 mm
Y travel	450 mm	500 mm	610 mm
Z travel	500 mm	510 mm	610 mm
Table size	720 x 420 mm	920 x 480 mm	1,200 x 600 mm
Spindle centre to column	490 mm	550 mm	675 mm
Spindle to table	100 - 600 mm	100 - 610 mm	150 - 760 mm
Column front to table centre	290 - 740 mm	300-800 mm	360 - 970 mm
Rapid feed XYZ axis	24 M/min box way	24 M/min box way	24 M/min box way
Cutting feed rates	24 M/min	24 M/min	24 M/min
Max table load	500 kg	900 kg	1,500 kg
T slot size	16 mm	16 mm	18 mm
T slot number & pitch	4 @ 100 mm	4 @ 100 mm	4 @ 125 mm
Spindle speed	10,000 rpm	10,000 rpm	10,000 rpm
Spindle motor	28 HP / 21 kW	28 HP / 21 kW	28 HP / 21 kW
Spindle taper	BT 40	BT 40	BT 40
Tool magazine capacity	12 carousel	24 arm type	30 arm type
Tool change time tool to tool	4-5 sec	2.5 sec	2.5 sec
Max tool diameter	95 mm	78 mm	78 mm
Max tool weight	6 kg	7 kg	7 kg
Coolant capacity	130 L	150L	240L
Ballscrew size (grade C3)	32 mm P10	40 mm P10	40 mm P12
AC servo motor size	X and Y 8.5Nm Z 12Nm	X and Y 8.5Nm Z 12Nm	X, Y and Z 20Nm
Machine weight	3,400 kg	4,400 kg	7,000 kg
Footprint W x D x H	2,000 x 2,100 x 2,600 mm	2,250 x 2,250 x 2,750 mm	3,100 x 2,250 x 2,820 mm

### Hardened Box Way Slides

The combination of machine weight and hardened box slideways guarantees a highly rigid machining platform on the XYZ HD range



“The HD range is for those who need to get the job done.”

*N Atherton*

Nigel Atherton  
XYZ MANAGING DIRECTOR

### XYZ 660 HD



The top selling XYZ 660 HD is at the top of its class for power and performance.

### XYZ 800 HD



The mid range XYZ 800 HD offers great capacity and cutting performance.

### XYZ 1100 HD



The XYZ 1100 HD is a real workhorse with a solid casting and rigid box ways. A great metal remover.



**XYZ 660 HD**

**SPINDLE 28 HP / 21 kW**  
**720 x 420 mm TABLE**  
**660 x 450 x 500 mm TRAVEL**  
**10,000 RPM SPINDLE**  
**SOLID CASTING 3,400 KG**

**SIEMENS**  
**Touchscreen**

**HEIDENHAIN**  
**Touchscreen**

**HD**  
**HEAVY DUTY**

Conforming to ISO 10791	
Positional accuracy	+/- 5 microns
Repeatability	+/- 2 microns
Circularity over 300mm	8 microns
Geometric accuracy over 300mm	8 microns

The new XYZ 660 HD with increased travels in X & Y of 660 mm and 450 mm.

With a small footprint of just 2,000 x 2,100 x 2,600 mm this VMC will give modern day production capabilities to most shopfloors, with room to spare! The **XYZ 660 HD** is the smallest HD VMC in our range with a solid ribbed casting, wide box slideways and powerful direct drives on all three axes. The **XYZ 660 HD** features an automatic 12 station toolchanger and can accommodate most components with travels of 660 mm x 450 mm x 500 mm.



**Standard Equipment**

**Siemens 828D ShopMill Touchscreen Control or Heidenhain TNC 620 Touchscreen Control.**  
**Optimised Digital Servo's.**  
**Hardened Table.**  
**Rigid Tapping.**  
**High Pressure Flood Coolant.**  
**Coolant Washdown.**  
**LED Worklight.**  
**12 Station Tool Changer.**  
**Remote Electronic Handwheel.**  
**Easy Clean Swarf Tray.**  
**Steel Concertina Guards on all Axes.**  
**Stainless Steel Floor Pan.**  
**Powder Coated Guarding.**  
**Pull Studs.**  
**Networking.**  
**USB Port.**

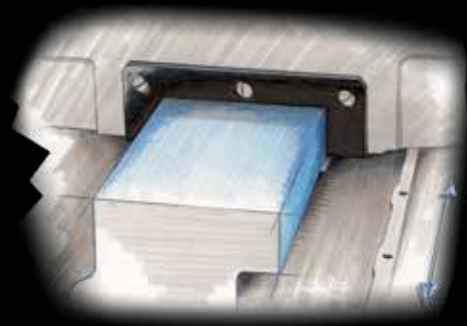
**Optional Equipment**

**4th Axis Rotary Table.**  
**5th Axis Rotary Table.**  
**Swarf Conveyor & Bin.**  
**12,000 rpm Spindle.**  
**Through Spindle Coolant.**  
**Offline Programming.**  
**Renishaw/Heidenhain Toolsetting and Probing.**  
**Contour Handwheel (wind the handwheel to run through the program).**  
**Oil Skimmer.**  
**Advanced Swarf Management System.**  
**DXF Reader.**

	<b>XYZ 660 HD</b>
X travel	660 mm
Y travel	450 mm
Z travel	500 mm
Table size	720 x 420 mm
Spindle centre to column	490 mm
Spindle to table	100 - 600 mm
Column front to table centre	290 - 740 mm
Rapid feed XYZ axis	24 M/min box way
Cutting feed rates	24 M/min
Max table load	500 kg
T slot size	16 mm
T slot number & pitch	4 @ 100 mm
Spindle speed	10,000 rpm (12,000 optional)
Spindle motor	28 HP / 21 kW
Spindle taper	BT 40
Tool magazine capacity	12 carousel
Tool change time tool to tool	4-5 sec
Max tool diameter	95 mm
Max tool weight	6 kg
Coolant capacity	130 L
Ballscrew size (grade C3)	32 mm P10
AC servo motor size	X and Y 8.5Nm Z 12Nm
Machine weight	3,400 kg
Footprint W x D x H	2,000 x 2,100 x 2,600 mm

Shown with **HEIDENHAIN** touchscreen control

**Hardened Box Way Slides**  
 The combination of machine weight and hardened box slideways guarantees a highly rigid machining platform on the XYZ HD range





**XYZ 800 HD**

**SPINDLE 28 HP / 21 kW**  
**920 x 480 mm TABLE**  
**800 x 500 x 510 mm TRAVEL**  
**10,000 RPM SPINDLE**  
**SOLID CASTING 4,400 KG**

**SIEMENS**  
**Touchscreen**

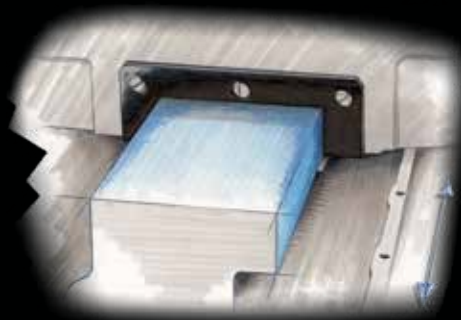
**HEIDENHAIN**

**HD**  
 HEAVY DUTY

Conforming to ISO 10791	
Positional accuracy	+/- 5 microns
Repeatability	+/- 2 microns
Circularity over 300mm	8 microns
Geometric accuracy over 300mm	8 microns



Shown with **SIEMENS** control  
 Touchscreen



**Hardened Box Way Slides**  
 The combination of machine weight and hardened box slideways guarantees a highly rigid machining platform on the XYZ HD range

The new XYZ 800 HD with increased travels in X & Y of 800 mm and 500 mm.

The **XYZ 800 HD** is a compact, highly capable and popular machine. With its solid cast ribbed structure, 24-station arm-type toolchanger, and vibration absorbing box slideways it is a rigid machine ideal for the typical sub-contractor who doesn't know day-to-day.

The **XYZ 800 HD** can cut even the toughest materials faster than most other competitor VMCs.

**Standard Equipment**

- Siemens 828D ShopMill
- Touchscreen Control or Heidenhain TNC 620 Touchscreen Control.
- Optimised Digital Servo's.
- Hardened Table.
- Rigid Tapping.
- High Pressure Flood Coolant.
- Coolant Washdown.
- LED Worklight.
- 24 Station Arm Type Tool Changer.
- Remote Electronic Handwheel.
- Easy Clean Swarf Tray.
- Steel Concertina Guards on all Axes.
- Stainless Steel Floor Pan.
- Powder Coated Guarding.
- Pull Studs.
- Networking.
- USB Port.

**Optional Equipment**

- 4th Axis Rotary Table.
- 5th Axis Rotary Table.
- Swarf Conveyor & Bin.
- 12,000 rpm Spindle.
- Through Spindle Coolant.
- Offline Programming.
- Renishaw/Heidenhain Toolsetting and Probing.
- Contour Handwheel (wind the handwheel to run through the program).
- Oil Skimmer.
- Advanced Swarf Management System.
- DXF Reader.

	<b>XYZ 800 HD</b>
X travel	800 mm
Y travel	500 mm
Z travel	510 mm
Table size	920 x 480 mm
Spindle centre to column	550 mm
Spindle to table	100 - 610 mm
Column front to table centre	300 - 800 mm
Rapid feed XYZ axis	24 M/min box way
Cutting feed rates	24 M/min
Max table load	900 kg
T slot size	16 mm
T slot number & pitch	4 @ 100 mm
Spindle speed	10,000 rpm (12,000 optional)
Spindle motor	28 HP / 21 kW
Spindle taper	BT 40
Tool magazine capacity	24 arm type
Tool change time tool to tool	2.5 sec
Max tool diameter	78 mm
Max tool weight	7 kg
Coolant capacity	150L
Ballscrew size (grade C3)	40 mm P10
AC servo motor size	X and Y 8.5Nm Z 12Nm
Machine weight	4,400 kg
Footprint W x D x H	2,250 x 2,250 x 2,750 mm



**XYZ I 100 HD**

**SPINDLE 28 HP / 21 kW**  
**1,200 x 600 mm TABLE**  
**1,100 x 610 x 610 mm TRAVEL**  
**10,000 RPM SPINDLE**  
**SOLID CASTING 7,000 KG**

**SIEMENS**  
**Touchscreen**

**HEIDENHAIN**

**HD**  
**HEAVY DUTY**

Conforming to ISO 10791	
Positional accuracy	+/- 5 microns
Repeatability	+/- 2 microns
Circularity over 300mm	8 microns
Geometric accuracy over 300mm	8 microns



Shown with **SIEMENS** control  
**Touchscreen**

**Hardened Box Way Slides**  
 The combination of machine weight and hardened box slideways guarantees a highly rigid machining platform on the XYZ HD range

The new XYZ I 100 HD with increased travels in X & Y of 1100 mm and 610mm.

This completely new structure has a newly designed base that allows for better support of the X and Y travel and increases table load capacity from 800 kg to a massive 1,500 kg. There is never any table overhang and the table is always fully supported. Built on a solid Meehanite, computer modelled, ribbed casting with induction hardened, ground and Turcite-B coated slides gives the **XYZ I 100 HD** superb vibration absorption and rigidity. The optimised digital servo motors and automatic lubrication of the slides and ballscrews also ensures maximum rapid traverse rates. Performance has been proven in some of the toughest machine shop environments to reassure customers that an XYZ machining centre is a true workhorse that you can depend on for many years of reliable and accurate operation.

**Standard Equipment**

**Siemens 828D ShopMill**  
**Touchscreen Control or Heidenhain TNC 620 Touchscreen Control.**  
**Optimised Digital Servo's.**  
**Hardened Table.**  
**Rigid Tapping.**  
**Twin Swarf Augers.**  
**Swarf Conveyor & Bin from Auger.**  
**High Pressure Flood Coolant.**  
**Coolant Washdown.**  
**LED Worklight.**  
**30 Station Arm Type Tool Changer.**  
**Pneumatically Counter Balanced Head.**  
**Remote Electronic Handwheel.**  
**Easy Clean Swarf Tray.**  
**Steel Concertina Guards on all Axes.**  
**Stainless Steel Floor Pan.**  
**Powder Coated Guarding.**  
**Pull Studs.**  
**Networking.**  
**USB Port.**

**Optional Equipment**

**4th Axis Rotary Table.**  
**5th Axis Rotary Table.**  
**12,000 rpm Spindle.**  
**Through Spindle Coolant.**  
**Offline Programming.**  
**Renishaw/Heidenhain Toolsetting and Probing.**  
**Contour Handwheel**  
*(wind the handwheel to run through the program).*  
**Oil Skimmer.**  
**Advanced Swarf Management System.**  
**DXF Reader.**

	<b>XYZ I 100 HD</b>
X travel	1,100 mm
Y travel	610 mm
Z travel	610 mm
Table size	1,200 x 600 mm
Spindle centre to column	675 mm
Spindle to table	150 - 760 mm
Column front to table centre	360 - 970 mm
Rapid feed XYZ axis	24 M/min box way
Cutting feed rates	24 M/min
Max table load	1,500 kg
T slot size	18 mm
T slot number & pitch	4 @ 125 mm
Spindle speed	10,000 rpm (12,000 optional)
Spindle motor	28 HP / 21 kW
Spindle taper	BT 40
Tool magazine capacity	30 arm type
Tool change time tool to tool	2 sec.
Max tool diameter	78 mm
Max tool weight	7 kg
Coolant capacity	240L
Ballscrew size (grade C3)	40 mm P12
AC servo motor size	X, Y and Z 20Nm
Machine weight	7,000 kg
Footprint W x D x H	3,100 x 2,250 x 2,820 mm



**XYZ 1060 HS**

**SPINDLE 28 HP / 21 kW**  
**580 x 400 mm TABLE**  
**510 x 400 x 450 mm TRAVEL**  
**8,000 RPM SPINDLE**  
**SOLID CASTING 2,400 KG**

**SIEMENS**  
**Touchscreen**

**HEIDENHAIN**  
**Touchscreen**

**Standard Equipment**

Siemens 840DSL High Speed ShopMill 19" **Touchscreen** Control.  
 12,000 rpm Oil Cooled Spindle.  
 43 M/min Rapids.  
 Temperature Controlled Ballscrews.  
 Temperature Controlled Spindle.  
 Pneumatically Counterbalanced Head.  
 30 Station Arm Type Tool changer.  
 High Pressure Coolant.  
 Through Spindle Coolant.  
 Coolant Washdown.  
 Swarf Conveyor & Bin.  
 Optimised Digital Servo's.  
 Hard Drive and Networking.  
 Rigid Tapping.  
 Remote Electronic Handwheel.  
 High Speed Concertina Guards.  
 Stainless Steel Floor Pan.  
 Powder Coated Guarding.  
 USB Port.  
 Networking.

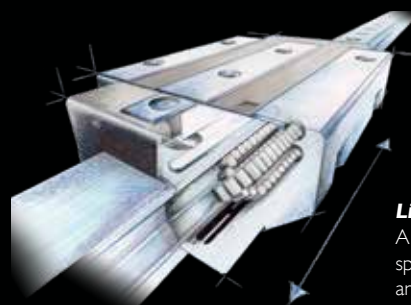
**Optional Equipment**

4th Axis Rotary Table.  
 5th Axis Rotary Table.  
 Linear Scales.  
 Offline Programming.  
 15,000 RPM Spindle.  
 Renishaw/Heidenhain Toolsetting and Probing.  
 Contour Handwheel (*wind the handwheel to run through the program*).  
 Advanced Swarf Management System.

The XYZ 1060 High Speed - the flagship of the XYZ VMC range.

This high accuracy and high speed Vertical Machining Centre is equipped with the latest control technology from Siemens, the 840DSL ShopMill Touchscreen control. The 1060 has top of the line THK linear roller bearings making it capable of modern fast machining for use in the aerospace and mouldmaking industries where precision is of paramount importance.

The **XYZ 1060 HS** can easily be upgraded to 4 or 5 axis.



**Linear Roller Bearing Slides**  
 A larger bearing contact area for high speed precision and enhanced stiffness and rigidity

Shown with **SIEMENS** control **Touchscreen**

	<b>XYZ 1060 HS</b>
X travel	1,020 mm
Y travel	610 mm
Z travel	620 mm
Table size	1,210 x 600 mm
Spindle centre to column	670 mm
Spindle to table	140 - 760 mm
Column front to table centre	365 - 975 mm
Rapid feed XYZ axis	43 M/min roller linear way
Cutting feed rates	1 - 43,000 mm/min
Max table load	800 kg
T slot size	18 mm
T slot number & pitch	5 @ 125 mm
Spindle speed	12,000 rpm (15,000 rpm optional)
Spindle motor	28 HP / 21 kW
Spindle taper	BT 40
Tool magazine capacity	30 arm type
Tool change time <i>tool to tool</i>	2.5 secs
Max tool diameter	100 mm
Max tool weight	8 kg
Coolant capacity	280 L
Ballscrew size (grade C3)	40 mm P16
AC servomotor size	X and Y 27Nm Z 36Nm
Machine weight	8,000 kg
Footprint W x D x H	3,650 x 2,680 + 800 mm for control unit x 3,250 mm (includes conveyor)
<b>Conforming to ISO 10791</b>	
<b>Positional accuracy</b>	+/-5 microns
Repeatability	+/-2 microns
Circularity over 300mm	10 microns
Geometric accuracy over 300mm	10 microns



**XYZ 2010 HD**

TABLE 2,200 x 1,000 mm  
TRAVEL 2,000 x 1,000 x 800 mm  
8,000 RPM SPINDLE  
16 M/MIN RAPIDS  
SOLID CASTING 20,000 KG

**Standard Equipment**

Siemens 828D ShopMill Control.  
Coolant System.  
Auto Lubrication System.  
Work Lamp.  
Remote Electronic Handwheel.  
Spindle Air Blast.  
Work Air and Coolant Gun.  
Auto Power Off (M30).  
BT40 Spindle (BT50 optional).  
Heat Exchanger for Electrical Cabinet.  
Rigid Tapping.  
Spindle Oil Cooler.  
Chip Conveyor with Bin.  
Pull Studs.  
Networking.  
USB Port.  
Compact Flash Card Slot.

**XYZ 2510 HD**

TABLE 2,700 x 1,000 mm  
TRAVEL 2,500 x 1,000 x 800 mm  
8,000 RPM SPINDLE  
16 M/MIN RAPIDS  
SOLID CASTING 23,000 KG

**Optional Equipment**

Through Spindle Coolant.  
Upgrade to BT50.  
Geared Head.  
4th Axis Rotary Table.  
5th Axis Rotary Table.  
Offline Programming.  
Renishaw/Heidenhain Toolsetting and Probing.  
Contour Handwheel (wind the handwheel to run through the program).  
Advanced Swarf Management System.

**XYZ 3010 HD**

TABLE 3,100 x 1,000 mm  
TRAVEL 3,000 x 1,000 x 800 mm  
8,000 RPM SPINDLE  
16 M/MIN RAPIDS  
SOLID CASTING 25,000 KG

**SIEMENS  
Touchscreen**



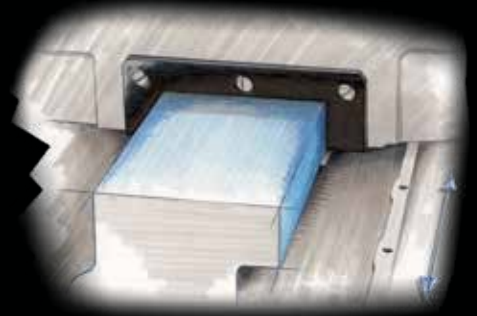
The XYZ Super Heavyweights with up to 3 metres of travel.

As British manufacturing grows, so it seems do the size of the components it needs to machine, with oil, gas, aerospace and renewables demanding larger capacity machine tools. Enter the XYZ Super Heavyweight VMCs, with up to 3,000 mm x 1,000 mm x 800 mm of travel. Backing up this capacity is the 25 tonnes of solid Meehanite casting, with wide box slideways, six on the Y axis alone.

Conforming to ISO 10791	
Positional accuracy	+/- 5 microns
Repeatability	+/- 2 microns
Circularity over 300mm	10 microns
Geometric accuracy over 300mm	10 microns

	<b>XYZ 2010-2510-3010 HDs</b>
X axis	2,000 mm 2,500 mm or 3,000 mm
<b>Y axis</b>	<b>1,000 mm</b>
Z axis	800 mm
Spindle nose to table surface	185~980 mm
Table size	2,200 - 2,700 - 3,100 x 1,000 mm
Spindle centre to column surface	600 - 1,600 mm
Rapid feed X,Y Z axes	16,000 mm/min
Cutting feed rates	1 - 16,000 mm/min
Ballscrew diameter	50 mm PI2
T slot size	22 mm
T slot number and pitch	8 @ 125 mm
Hardened box way slides XY and Z	6 x slides on Y axis
Max permissible table load	3,000 - 3,200 - 4,000 Kg
Automatic toolchanger type	30 arm type
Max tool diameter	110 mm
Max tool weight	15 Kg
Spindle speed	8,000 rpm
Spindle motor	30 HP / 23 kW continuous
	36 HP / 27 kW 30 minutes
	56 HP / 42 kW 2.5 minutes in 10
Coolant capacity	300 L
Machine weight	20,000 / 23,000 / 25,000 Kg

**1 metre  
Y axis**



**Hardened Box Way Slides**  
The combination of machine weight and hardened box slideways guarantees a highly rigid machining platform on the XYZ HD range

**Six hardened box way slides**

The XYZ Heavyweights have 6x 'hardened box way' slides on the Y axis for assured accuracy across 1,000mm.

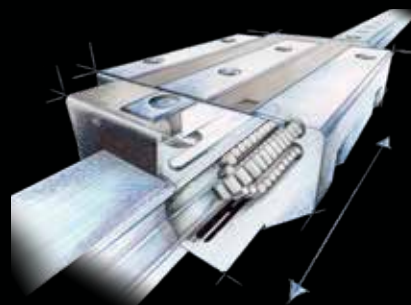
**SIX SLIDES**

The perfect Aerospace production platform with up to 10,000 mm on the X axis.

Introducing the large X axis range of Travelling Column Machines, perfect for those large Aerospace/Energy components. Make easy work of those big aerospace components with the XYZ range of large X-axis Travelling Column machines. The machines benefit from the latest Siemens or Heidenhain control featuring advanced and easy to program conversational software, along with 'roller' linear ways that ensure optimum precision and speed.

**SIEMENS**  
Touchscreen

**HEIDENHAIN**  
Touchscreen



**Linear Roller Bearing Slides**  
A larger bearing contact area for high speed precision and enhanced stiffness and rigidity

**XYZ 4000 TCM**

4,000 x 800 mm TABLE  
4,000 x 800 x 600 mm TRAVEL  
8,000 RPM SPINDLE  
SOLID CASTING 22,000 KG

**XYZ 6000 TCM**

6,000 x 800 mm TABLE  
6,000 x 800 x 600 mm TRAVEL  
8,000 RPM SPINDLE  
SOLID CASTING 25,000 KG

**XYZ 8000 TCM**

8,000 x 800 mm TABLE  
8,000 x 800 x 600 mm TRAVEL  
8,000 RPM SPINDLE  
SOLID CASTING 28,000 KG

**XYZ 10000 TCM**

10,000 x 800 mm TABLE  
10,000 x 800 x 600 mm TRAVEL  
8,000 RPM SPINDLE  
SOLID CASTING 32,000 KG

	<b>XYZ 4000, 6000, 8000 and 10000 TCM</b>
Table size (W x L)	800 mm x / 4,000 / 6,000 / 8,000 / 10,000 mm
Travelling column X axis	4,000 / 6,000 / 8,000 / 10,000 mm
Y axis travel	800 mm
Z axis travel	600 mm (800mm optional)
Spindle taper	BT40 (BT50 optional)
Spindle speed	60 - 8,000 rpm 15HP
Spindle S1 continuous	20 HP / 15 kW
S2-30 mins	24 HP / 18 kW
S6 25% (2.5 mins in 10)	38 HP / 28.5 kW
X / Y / Z axis rapid	24 M / min
Cutting feedrate	24,000 mm / min
X axis transmission	Backlash free dual gearbox with GUDEL (Swiss made) high precision gear rack.
Z & Y axis	Ballscrew
X / Y / Z slide way	Roller linear way
Weight	22,000 Kg / 24,000 Kg / 26,000 Kg / 32,000 Kg

**Standard Equipment**

Siemens 828D ShopMill  
Touchscreen Control  
or Heidenhain TNC 620  
Touchscreen Control.  
X axis linear scale.  
Full splash guard.  
Coolant and Wash-down.  
Auto lubrication pump.  
8,000 rpm spindle, BT40.  
X/Y/Z rapid 24 M / Min.  
24 station Arm Type ATC.  
Metal telescopic cover for 3 axis.  
Swarf Auger with bin.

**Optional Equipment**

12,000 rpm spindle and cooler.  
BT50 spindle.  
Tilt head (B axis).  
Two speed gearbox.  
Through spindle coolant.  
Upgrade to 30 station ATC.  
Swarf Conveyor and bin.  
Linear Scales.  
Contour Handwheel  
(wind the handwheel to run  
through the program).



# 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.

- **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

XYZ UMC 4+1 and XYZ UMC-5X	
<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



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

## XYZ UMC 4+1

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



**BOTH WITH DIRECT DRIVE HIGH TORQUE MOTOR**

**90 RPM**

**NO WORM OR WHEEL**

**SIEMENS Touchscreen**

**HEIDENHAIN Touchscreen**

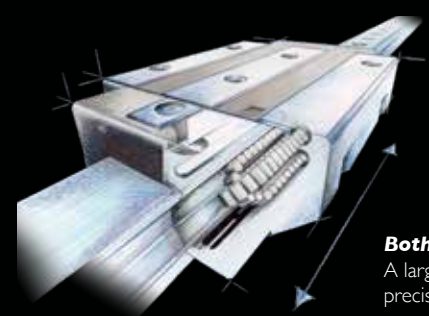


**“In its price bracket, this is at the forefront of five-axis machining.”**

*N Atherton*  
Nigel Atherton  
XYZ MANAGING DIRECTOR

## XYZ UMC-5X

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



**Both with Linear Roller Bearing Slides**  
A larger bearing contact area for high speed precision and enhanced stiffness and rigidity



# XYZ ROBO-TEND

Mobile Robot Automation for Milling and Turning.



The **XYZ ROBO-TEND** on an **XYZ** Vertical Machining Centre.

- Minimise your labour costs.
- Works 24/7.
- Payback can be just a few months.
- British designed and built.
- 10 - 25 kg Robot capacity range.

“This brings true mobile robot automation within the reach of traditional sub-contract engineering businesses.”

*N Atherton*

Nigel Atherton  
XYZ MANAGING DIRECTOR



The **XYZ ROBO-TEND** on an **XYZ** Turning Centre



Visit our website or call today to get a copy of our **XYZ ROBO-TEND** brochure.

## 1 Wheel it up.

The robot trolley is wheeled up to the front of the chosen machine tool and then locked into position.



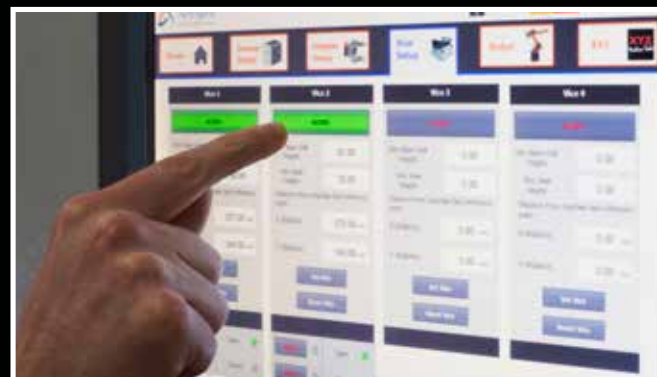
## 2 Lock it into position.

The loading trolley is then securely attached to the robot trolley. The robot identifies the trolley and its contents. The guard locks and ROBO-TEND becomes live.



## 3 Tell it the billet size.

With a conversational interface the robot controller can be programmed to know the shape of billet, material size and number of parts in the drawers.



For Machining and Turning Centres



**FREE INITIAL TRAINING**  
For up to 3 people on installation day.



# The XYZ 2021/22 Manual Machine Tool Range.

Despite the advances of modern day CNC systems we still offer a complete range of Manual Machine Tools which are very popular with the likes of Training Organisations and Maintenance Shops.

For those who have to operate within a more commercially competitive environment please see the entry level ProtoTRAK® KMX system and machine on pages 5 to 14.

In the last 35 years XYZ have installed over 10,000 manual Turret Mills and Lathes in the UK, which have become synonymous with quality, reliability and value for money.

All XYZ manual machines are built of solid ribbed cast iron to provide unrivalled rigidity and stability. Additionally, all are fitted with European bearings and electrical components to full CE approval.

**XYZ I330 TRAINER**

**XYZ I340 TRAINER**



**XYZ I500**

**XYZ 2000**

**XYZ SLV**

**XYZ I530 VS**

**XYZ I550 VS**



Guards removed for clarity

XYZ MANUAL MILLS	XYZ I500	XYZ 2000	XYZ SLV
Digital readout	DRO	DRO	DRO
Spindle drive motor	2.25 kw (3HP)	2.25 kw (3HP)	3.75 kw (5HP)
Vari speed range - low/high	60 - 4,200 rpm	75 - 4,200 rpm	70 - 3,600 rpm
Table size	1,069 x 228 mm	1,270 x 254 mm	1,473 x 305 mm
T slots	15.9 mm 3 off	15.9 mm 3 off	15.9 mm 3 off
Longitudinal travel - X axis	660 mm	750 mm	1,000 mm
Cross travel - Y axis	305 mm	380 mm	410 mm
Knee vertical travel - Z axis	406 mm	406 mm	413 mm
Ram travel	305 mm	450 mm	450 mm
Spindle taper	R8 / 30 ISO optional	R8 / 30 ISO optional	40 ISO

XYZ MANUAL LATHES	XYZ TRAINER I330/I340	XYZ I530/I550 VS
Swing over bed	330 mm	390 mm
Swing in gap (opt)	495 mm	610 mm (standard)
Gap in front of face plate (opt)	150 mm	150 mm
Swing over cross slide	190 mm	240 mm
Distance between centres	750 / 965 mm	750 / 1,250 mm
Cross slide travel	190 mm	230 mm
Spindle speed	53 - 2,000 rpm	18 - 2,500 rpm
Type of spindle nose	D I-4	D I-6
Main spindle bore	35 mm	54 mm

# The XYZ range of grinders.

**XYZ 4060**



**LARGER GRINDERS AVAILABLE**

**XYZ 1020**



	<b>XYZ 1020</b>	<b>XYZ 1224</b>	<b>XYZ 1632</b>
Table/magnetic chuck size	250 x 500 mm	304 x 609 mm	406 x 812 mm
Max grinding length - longitudinal	500 mm	609 mm	860 mm
Max grinding width - cross	250 mm	304 mm	406 mm
Max distance from table surface to spindle centre	500 mm	508 mm	558 mm
Longitudinal travel - hydraulic	558 mm	660 mm	860 mm
Longitudinal travel - variable	5 - 25 m/min	5 - 25m/min	5 - 25 m/min
Cross travel - automatic increment	0.15 mm - 15 mm	0.1 mm - 10 mm	0.1 mm - 10 mm
Cross travel - automatic travel	250 mm	304 mm	406 mm
Cross feed handwheel - per revolution	4 mm	5 mm	5 mm
Cross feed handwheel - per graduation	0.02 mm	0.02 mm	0.02 mm
Down feed handwheel - per revolution	2 mm	2 mm	2 mm
Down feed handwheel - per graduation	0.01 mm	0.01 mm	0.005 mm
Spindle motor - speeds	3,000 rpm	3,000 rpm	3,000 rpm
Spindle motor - power ratings	2 HP	5 HP	5 HP
Hydraulic motor - power ratings	1 HP	1 HP	1 HP
Standard grind wheel - diameter	180 mm	355 mm	355 mm
Standard grind wheel - width	12 mm max 19 mm	38 mm	50.8 mm
Standard grind wheel - bore	31.75 mm	127 mm	127 mm
Weight	1,550 kg	1,700 kg	2,300 kg

	<b>XYZ 2040</b>	<b>XYZ 2060</b>	<b>XYZ 2480</b>	<b>XYZ 4060</b>
Table/magnetic chuck size	500 x 1,050 mm	500 x 1,524 mm	600 x 2,000 mm	1,000 x 1,500mm
Max grinding length - longitudinal	1,050 mm	1,050 mm	2,000 mm	1,500 mm
Max grinding width - cross	550 mm	550 mm	600 mm	1,000 mm
Max distance from table surface to spindle centre	600 mm	600 mm	600 mm	800 mm
Longitudinal travel - hydraulic	1,100 mm	1,100 mm	2,150 mm	1,600 mm
Longitudinal travel - variable	5 - 25 m/min	5 - 25 m/min	5 - 25 M/min	3 - 25 M/min
Cross travel - automatic increment	1 mm - 20 mm	1 mm - 20mm	0.5 mm - 20 mm	0.1 mm - 15 mm
Cross travel - automatic travel	550 mm	550 mm	660 mm	1,050 mm
Cross feed handwheel - per revolution	5 mm	5 mm	5 mm	5 mm
Cross feed handwheel - per graduation	0.02 mm	0.02 mm	0.02 mm	0.02 mm
Down feed handwheel - per revolution	2 mm	2 mm	min. 0.1 mm-MPG	min. 0.1 mm-MPG
Down feed handwheel - per graduation	0.005 mm	0.005 mm	min. 0.001 mm-MPG	min. 0.001 mm-MPG
Spindle motor - speeds	1,450 rpm	1,450 rpm	1,450 rpm	1,450 rpm
Spindle motor - power ratings	10 HP	10 HP	10 HP	10 HP
Hydraulic motor - power ratings	3 HP	3 HP	5 HP	7.5 HP
Standard grind wheel - diameter	355 mm	355 mm	405 mm	405 mm
Standard grind wheel - width	38 mm	38 mm	20 mm max 50 mm	20mm max 50 mm
Standard grind wheel - bore	127 mm	127 mm	127 mm	127 mm
Weight	5,700 kg	7,200 kg	8,700 kg	13,800 kg

# Small machines and tooling.

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**XYZ FAST TAP**

Vertical and horizontal tapping, with M24 max capacity in aluminium and steel. See table below.

## Fast Tap makes light work of:

- Reaming.
- Chamfering.
- Countersinking.
- Spot Facing.
- Helicoil insertion.
- Stud making.
- Assembly work - screw & nut driving.

	<b>XYZ FAST TAP</b>	<b>FT 1000</b>	<b>FT 800</b>	<b>FT 400</b>	<b>FT 200</b>	<b>FT 90</b>
Max capacity -steel	M6	M10	M12	M12	M16	M24
Max capacity - aluminium	M8	M12	M14	M14	M24	M12
Speed (no load)	1,000 rpm	700 rpm	300 rpm	250/800 rpm	90/250 rpm	90/250 rpm
Air pressure flow	90 psi	90 psi	90 psi	90 psi	90 psi	90 psi
Noise max	85.0 dBA	85.1 dBA	84.2 dBA	84.1 dBA	84.1 dBA	84.1 dBA



**XYZ 260**

## HORIZONTAL BANDSAW.

- Vertical guide arms carrying carbide faced guides.
- Fast & accurate blade tensioning.
- Standard blade size 25 x 3,300mm.
- Conveniently placed controls.
- 90° - 45° mitering.

	<b>XYZ 260</b>
Cutting capacity	260 mm Round Bar
Motor	1.5 kw (2HP)
Blade speeds	21, 34, 43, 60 m/min
Blade size	25 x 0.9 x 3,300 mm
Machine size LxDxH	1,680 x 737 x 1,050 mm
Packing size	1,730 x 760 x 1,130 mm
Net weight	390 kg



## CNC 4TH AXIS.

### CNC 4th Axis for the XYZ VMC range.

For more information see pages 29 to 50.

Diameter	160 mm	200 mm	250 mm
Centre height	135 mm	135 mm	185 mm
Centre bore	35 mm	35 mm	52 mm
Maximum load	75 Kg	75 Kg	100 Kg
Maximum rpm	33.3 rpm	33.3 rpm	16.6 rpm
Weight	70 Kg	84 Kg	124 Kg



## Detron 5TH AXIS.



Detron 5th axis model	GFA-101S	GFA-125S	GFA-170S	GFA-210S	GFA-255H
Faceplate diameter	100 mm	125 mm	170 mm	210 mm	255 mm
Chuck diameter	100 mm	125 mm	165 mm	200 mm	250 mm
Centre height 0	205 mm	224.5 mm	260 mm	280 mm	325 mm
Centre height 90	135 mm	160 mm	190 mm	210 mm	225 mm
Max load horizontal	35 kg	50 kg	75 kg	100 kg	200 kg
Max load tilted	20 kg	35 kg	50 kg	70 kg	150 kg
Max rpm rotary	33.3 rpm	44.4 rpm	33.3 rpm	33.3 rpm	22.2 rpm
Max rpm tilt	16.6 rpm	44.4 rpm	22.2 rpm	22.2 rpm	16.6 rpm
Net weight	99 kg	120 kg (excluding motor)	180 kg (excluding motor)	242 kg	470 kg (excluding motor)

## Kitagawa 4th axis rotary tables with controller for ProtoTRAK® RMX bed mills.



Kitagawa NCRT model	MR120	MR160	MR200	MR250
Faceplate diameter	Ø128	Ø165	Ø202	Ø250
Chuck diameter	Ø130	Ø165	Ø190	Ø232
Centre height	120	140	140	180
Faceplate register	Ø50H7	Ø50H7	Ø65H7	Ø100H7
Through bore	Ø32	Ø40	Ø45	Ø70
Max load horizontal	120 kg	160 kg	200 kg	250 kg
Max load vertical	60 kg	80 kg	100 kg	125 kg
Max rpm	50 rpm	41.6 rpm	33.3 rpm	33.3 rpm
Max clamping torque	150 Nm	310 Nm	350 Nm	600 Nm
Weight	33 kg	41 kg	61 kg	85 kg

## Kitagawa TT 4th 5th axis rotary tables.



Kitagawa NCRT model	TT101	TT140	TT150	TT182	TT200	TT251
Faceplate diameter	Ø110	Ø140	Ø150	Ø180	Ø200	Ø250
Chuck diameter	Ø110	Ø130	Ø165	Ø165	Ø190	Ø232
Centre height	140	200	150	180	180	225
Faceplate register	Ø50H7	Ø60H7	Ø60H7	Ø65H7	Ø65H7	Ø100H7
Through bore	Ø32	Ø32	Ø40	Ø40	Ø40	Ø70
Max load horizontal	35 kg	50 kg	50 kg	60 kg	60 kg	100 kg
Max load tilted	20 kg	30 kg	30 kg	40 kg	40 kg	60 kg
Max rpm rotate axis	41.6 rpm	41.6 rpm	41.6 rpm	33.3 rpm	33.3 rpm	33.3 rpm
Max rpm tilt axis	25 rpm	16.6 rpm	16.6 rpm	16.6 rpm	16.6 rpm	16.6 rpm
Max clamping torque rotate	180 Nm	280 Nm	350 Nm	450 Nm	600 Nm	900 Nm
Max clamping torque tilt	300 Nm	500 Nm	550 Nm	800 Nm	1,200 Nm	1,200 Nm
Weight	73 kg	158 kg	141 kg	163 kg	170 kg	260 kg





XYZ Machine Tools' education team is focussed on providing UK colleges, universities, private training establishments and research centres with competitively priced manual and CNC machines tools as well as a package of service and support exclusive to the sector.

XYZ for Education is our commitment to the UK's education sector through which we offer any organisation involved in the education of the next generation of engineers special pricing on the full range of XYZ products. In addition XYZ has developed a variety of training programmes aimed at the education sector. This combination ensures that training centres are able to deliver the correct training, using techniques and machines that trainees will encounter once they return to industry, with the educators kept fully up to date with changes in machine tool development and application.

XYZ for Education is for everyone involved in education and will benefit Bursars, Teachers, Technicians and Students. With this program XYZ is actively helping to develop the engineers of tomorrow... today.

To get the XYZ for Education brochure call 01823 674200 or visit the web-site to download



## Terms and Conditions

All details contained within this catalogue are accurate at the time of going to press, but please be aware that XYZ Machine Tools Ltd has a policy of continuous development. Because of this some details may be subject to change without prior notice. Please be sure to confirm all specifications and details prior to ordering.

### XYZ MACHINE TOOLS LIMITED TERMS AND CONDITIONS OF SALE

Please read this document carefully as all goods sold by XYZ Machine Tools Limited will be supplied subject to these terms and conditions of sale.

1. Definitions
  - 1.1 In these terms and conditions, the following definitions shall apply:
    - "Company" means XYZ Machine Tools Limited (company number 1765883) whose registered office is at Centenary House, Peninsula Park, Rydon Lane, Exeter EX2 7XE.
    - "Purchaser" means the person, firm or company placing an order for Goods.
    - "Goods" means the goods described in the Confirmed Order.
    - "Confirmed Order" means an order for the Goods as confirmed by the Company under clause 3.4
    - "Due Date" means the date referred to in clause 6.1.
  - 1.2 Any reference in these terms and conditions to any provision of a statute shall be construed as a reference to that provision as amended, re-enacted or extended at the relevant time.
2. Contract
  - 2.1 These terms and conditions apply to all contracts for the sale of Goods by the Company to the Purchaser. No variation will be effective unless agreed in writing by a director of the Company.
  - 2.2 The Company's employees or agents are not authorised to make any representations concerning the Goods unless confirmed by the Company in writing. Any advice or recommendation given by the Company or its employees or agents to the Purchaser which is not confirmed in writing is followed or acted upon entirely at the Purchaser's own risk.
  - 2.3 The descriptions and illustrations contained in the Company's catalogues, price lists, specifications and other advertisement matter are intended merely as an indication of the type of goods described therein and none of the above shall form part of any contract with the Purchaser.
3. Order and Acceptance
  - 3.1 The Company will provide the Purchaser with a written quotation for the Goods. Any order made by the Purchaser against such quotation constitutes an offer by the Purchaser to buy the Goods.
  - 3.2 The Purchaser shall be responsible to the Company for the accuracy of any information contained in its order.
  - 3.3 Any Goods from stock are subject to availability at the time an order is submitted by the Purchaser.
  - 3.4 No order submitted by the Purchaser shall be deemed to be accepted by the Company unless and until confirmed in writing by the Company.
  - 3.5 The quantity and description of the Goods shall be as specified in, or referred to, in the Confirmed Order.
  - 3.6 No Confirmed Order may be cancelled by the Purchaser except with the agreement in writing of the Company and on terms that the Purchaser shall indemnify the Company in full against all costs (including the cost of all labour and materials used), damages, charges and expenses incurred by the Company as a result of cancellation.
  - 3.7 A separate contract shall arise in respect of each Confirmed Order.
4. Price of the Goods
  - 4.1 The price for the Goods shall be the price set out in or referred to in the Confirmed Order (or, in the case of any error or omission, as subsequently notified by the Company to the Purchaser) provided the Company may increase the price for any reason under clause 6.2.
  - 4.2 The price is exclusive of Value Added Tax.
  - 4.3 The price is exclusive of delivery charges. If the Purchaser requires delivery of the Goods the Company reserves the right to add to the price the cost of any packaging, carriage and/or insurance.
  - 4.4 The price is exclusive of any duties, imposts and levies. The price for any imported parts incorporated in the Goods may be subject to fluctuation and the Purchaser agrees that any Confirmed Order is based on the current rate of import duty and rate of exchange at the time of the Confirmed Order unless otherwise specified.
  - 4.5 Unless otherwise agreed in writing, payment shall be made in pounds sterling, and if the price for the Goods is quoted by the Company in a currency other than pounds sterling payment shall be calculated at the rate of exchange at the time of the Confirmed Order.
5. Delivery
  - 5.1 The Company will use reasonable endeavours to deliver on any date indicated in the Confirmed Order for the delivery of Goods but delivery dates should be regarded as approximate only and delivery time shall not be of the essence of the contract.
  - 5.2 Delivery shall take place when the Company notifies the Purchaser that the Goods are ready for collection from the Company's premises unless the Purchaser has required the Company to make delivery at the Purchaser's premises in which case delivery shall take place when the Goods are delivered to such premises and off loaded from the transporting vehicle.
6. Terms of Payment
  - 6.1 Payment for the Goods shall be made by the Purchaser to the Company immediately upon delivery of the Goods or, if otherwise agreed between the Company and the Purchaser, within 30 days after the end of the month of despatch by the Company of an invoice for the Goods.
  - 6.2 If the Company is unable to effect delivery or despatch the Goods by reason of the Purchaser failing to take delivery of the Goods or by reason of the Purchaser's instructions or lack of instructions the Company shall be entitled to notify the Purchaser that the Goods are ready for delivery or despatch and to add to its invoice reasonable additional carriage for insurance and/or storage costs resulting from the delay in delivery or despatch of the Goods.
  - 6.3 Time for payment shall be of the essence.
  - 6.4 If the Purchaser fails to make any payment on the Due Date then, without prejudice to any other right or remedy available to the Company, and without incurring any liability for any loss or damage caused to the Purchaser, the Company shall be entitled to:
    - a. cancel any Confirmed Order and/or suspend any further deliveries of goods to the Purchaser;
    - b. appropriate any payment made by the Purchaser to such of the Goods (or goods supplied under any other contract between the Company and the Purchaser) as the Company may think fit; and
    - c. charge the Purchaser interest (both before and after judgement) on the amount unpaid at the rate of 6 per cent per annum above the base rate of HSBC Bank plc from time to time or the statutory rate applicable under The Late Payments of Commercial Debts (Interest) Act 1998 as amended (whichever is greater), in either case such interest to accrue on a daily basis from the Due Date until the date of actual payment.
7. Risk and Property
  - 7.1 The risk of damage to or loss of the Goods shall pass to the Purchaser at the time of delivery or, if the Purchaser fails to take delivery of the Goods, at the time when the Company has tendered delivery of the Goods.
  - 7.2 Notwithstanding delivery and the passing of risk in the Goods or any other provision of these terms and conditions the property in the Goods shall not pass to the Purchaser until the Company has received in cash or in cleared funds:
    - a. payment in full of the price of the Goods, and
    - b. payment in full for all other goods agreed to be sold by the Company to the Purchaser for which payment is then due or accruing due.
  - 7.3 Until such time as the property in the Goods passes to the Purchaser:
    - a. the Purchaser shall hold the Goods as the Company's fiduciary agent and bailee and shall keep the Goods properly stored and insured for the Company's benefit and identified as the Company's property; and
    - b. the Company shall be entitled at any time to require the Purchaser to deliver up the Goods to the Company and if the Purchaser fails to do so the Company, its employees and/or its agents may forthwith enter upon any premises of the Purchaser or any third party where the Goods are stored and repossess the Goods; and
    - c. the Purchaser shall afford the Company inspection of any documents relating to such Goods for the purpose of tracing them.
  - 7.4 The Purchaser shall not be entitled to pledge, or purport to pledge or in any way charge or purport to charge by way of security for any indebtedness, any of the Goods which remain the property of the Company.
8. Acceptance of Goods
 

The Purchaser shall be responsible for inspecting the Goods:

  - a. where they are collected by the Purchaser (or its agent) from the Company's premises, at the time of collection; or
  - b. where they are delivered to the Purchaser's premises, within 3 working days of delivery and shall at the relevant time notify the Company if the Purchaser shall consider the Goods to be in any way damaged, unsatisfactory or otherwise not in conformity with the contract. In the absence of such notification the Purchaser shall be deemed to have accepted the Goods.

### 9. Warranty

- 9.1 Subject to the conditions of this clause and of clause 10 the Company warrants that Goods will at their time of acceptance under Clause 8, remain free from defects in material and workmanship for the shorter of a period of 12 months or for 2000 hours of use.
- 9.2 The above warranty is given by the Company subject to the following conditions:
  - a. the Company shall be under no liability in respect of any defect arising from wilful damage, negligence, failure to follow the Company's instructions, misuse, alteration to the Goods (including by the removal of any guard or cover) or repair of the Goods in each case by the Purchaser, its employees or agents;
  - b. that it does not extend to parts, materials or equipment not manufactured by the Company, in respect of which the Purchaser shall only be entitled to the benefit of any warranty or guarantee given by the relevant manufacturer;
  - c. the Company shall be under no liability if full payment for any of the Goods has not been made by the Due Date.
- 9.3 Subject as expressly provided in these terms and conditions and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977) all warranties and conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law. Where Goods are sold to a consumer the statutory rights of the consumer are not affected by these terms and conditions.
- 9.4 Without prejudice to clause 9.2 (b) any claim made by the Purchaser which is based on any defect in the quality or condition of the Goods shall be notified to the Company in writing within 14 days from the date on which the defect or failure became apparent. Where such a claim is notified to the Company, the Company shall be given the opportunity of remedying the defect or failure and supplying (where necessary) replacement parts and completion of such remedial work shall constitute fulfilment of the Company's obligations under the contract. Remedial work and replacement parts will be provided free of charge, provided the Purchaser at its own cost returns to the Company the relevant Goods.
- 9.5 Without prejudice to clause 9.4 the Company at its sole discretion shall be entitled to refund the Purchaser the price of the Goods and shall have no further liability to the Purchaser under the contract.
- 9.6 Except in respect of death or personal injury caused by the negligence of the Company the total liability of the Company to the Purchaser under this contract shall not exceed the price of the Goods.
- 9.7 Except in respect of death or personal injury caused by the negligence of the Company, the Company shall not be liable to the Purchaser by reason of any representation (unless fraudulent), warranty, condition or other term of the contract for any loss or damage (whether for loss of profit or goodwill), for consequential loss which arise out of or in connection with the supply of the Goods.
- 9.8 The Company shall not be liable to the Purchaser or be deemed to be in breach of the contract by reason of any delay in performing or any failure to perform the Company's obligations in relation to the Goods if the delay or failure was due to any cause beyond the Company's reasonable control. Without prejudice to the generality of the foregoing, the following shall be regarded as causes beyond the Company's reasonable control:
  - a. act of God, explosion, flood, tempest, fire or accident;
  - b. war or threat of war, sabotage, insurrection, civil disturbance;
  - c. acts, restrictions, regulations, byelaws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority;
  - d. import or export embargoes;
  - e. strikes, lock outs, or any other industrial actions or trade disputes (whether involving employees of the Company or a third party);
  - f. difficulty in obtaining labour, fuel, parts or Goods from their manufacturer.
10. Acknowledgements by the Purchaser
 

Without prejudice to clause 9.2 (a) the Purchaser acknowledges by placing an order for the Goods:

  - a. that if the Goods are incorrectly installed the Goods may cause serious danger to persons and property and that the Purchaser accepts responsibility for the proper installation of the Goods; and
  - b. the Purchaser must use the Goods in a safe manner and comply with all applicable health and safety laws and regulations when instructing its employees or agents in the use of the Goods; and
  - c. that it has read these terms and conditions and that it considers these terms and conditions are reasonable.
11. Indemnity
  - 11.1 Certain component parts incorporated into the Goods may have intellectual property rights belonging to their original manufacturer and may not be reproduced, altered or used in any way without the written permission of the manufacturer.
  - 11.2 The Purchaser will indemnify the Company and keep it indemnified against all damages, penalties, costs and expenses for which the Company becomes liable as a result of third party claims or demands made against the Company as a result of the failure of the Purchaser to comply with any of its obligations under the contract.
12. Notices
 

Any notice under the contract shall be properly given in writing and sent by first class post or facsimile transmission or by electronic mail to the address of the intended recipient as stated in the contract or to such address as the Company and the Purchaser from time to time communicate to each other as their respective addresses for service and shall be deemed served, in the case of postal notice, on the expiry of 24 hours from time of posting or, if by facsimile transmission or electronic mail, at the time of transmission provided that a facsimile or electronic mail confirmatory receipt is obtained by the sender.
13. General
  - 13.1 If any provision of these terms and conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these terms and conditions and the remainder of the provision in question shall not be affected thereby.
  - 13.2 These terms and conditions and any contract incorporating them shall be governed by and construed in accordance with English Law and all disputes hereunder shall be submitted to the non-exclusive jurisdiction of the English courts.
14. Non-transferable
 

14.1 The Purchaser's rights and obligations under this contract shall not be transferred or assigned directly or indirectly either in part or whole to any third party without the prior written consent of the Company.

14.2 Unless otherwise agreed between the Company and the Purchaser a person who is not party to this contract has no right under the Contracts (Rights of Third Parties) Act 1999 to enforce any terms of this contract but this does not affect any right or remedy of a third party which exists or is available apart from that Act.
15. Termination
 

Without prejudice to clause 6.4 the Company shall be entitled to cancel the contract with the Purchaser in the following circumstances:

  - a. if a petition is presented for the winding up, administration or bankruptcy of the Purchaser, if the Purchaser has a receiver appointed in respect of its assets or any other insolvency proceedings are commenced by or against it;
  - b. if any distress or execution is levied upon the Purchaser, its property or assets;
  - c. if the Purchaser ceases, or threatens to cease to carry on business;
  - d. if the Company reasonably apprehends that any of the events mentioned in clauses (a)-(c) above are about to occur in relation to the Purchaser and notifies the Purchaser accordingly; in each case without incurring any liability for any loss or damage caused to the Purchaser and without prejudice to the Company's rights to payment under clauses 3, 6 and 11.2.

## XYZ CERATIZIT TOOLING VOUCHERS.

XYZ Ceratizit Tooling Vouchers are available to purchase from XYZ giving additional discount. The tooling voucher can also be added to your capital purchase.

XYZ Ceratizit Tooling Vouchers are available from £500 upwards.





# XYZ Machine Tools

## XYZ across the UK

**XYZ DEVON Main Factory and Administration**  
Woodlands Business Park, Burllescombe,  
Tiverton, Devon. EX16 7LL

**XYZ NUNEATON TECHNICAL CENTRE**  
5/6 Tungsten Court, Hemdale Business Park,  
Nuneaton. CV11 6GZ

**XYZ SHEFFIELD** (Ceratzit Showroom)  
CERATIZIT UK & Ireland Ltd Unit 15, Evolution, Morse Way,  
Advanced Manufacturing Park, Rotherham. S60 5BJ

**XYZ LONDON**  
944 Yeovil Road, Slough Trading Estate.  
Slough. SL1 4NH

**XYZ HALIFAX**  
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