

XYZ
Machine Tools

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

The Company

ProtoTRAK Milling

ProTURN Lathes

Vertical Machining
Centres CAD/CAM

Turning Centres
and Automation

XL Lathes and
Manual Machines

OVER 350 NEW
MACHINES ALWAYS IN
UK STOCK

ProtoTRAK®
SIEMENS

 **HEIDENHAIN**

XYZ CATALOGUE 2019/20

XYZ Machine Tools

Welcome to the latest
XYZ Product Catalogue.

Please remember that each and every
machine tool within this 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

Visit the website to see the video



XYZ 35 years in the making
Nigel Atherton who formed XYZ in
1984 sees it like this.

Duration: 3 min 55 sec



**Inside the Devon Showroom
and Training Centre.**



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



The largest supplier of CNC into the UK.



Take a look inside the HQ of XYZ Machine Tools

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



**The 98,000 sq ft XYZ Devon factory
holds over 350 machine tools in UK
stock, all ready for delivery
and installation**



SINCE 1984

When you commit to an XYZ
product, XYZ commits to you.

This means that while your machine
tool has the support of the

XYZ Spares Department,

and **XYZ Service Team,**

you will be backed up by the
free support of the

XYZ Applications Training Team

and the free

XYZ Programming Helpline

for as long as you need it.

**Free training on any machine at one
of the XYZ UK Training Centres.**



On site training is available.



XYZ Service Plans

Most vehicle owners, even non-engineers, understand that routine maintenance is required for smooth, trouble-free, running. The same applies to machine tools. That's why XYZ provides tailor-made Service Plans for all of its machine tools. To learn about the details of the Service Plan that fits your machine tools, please call us or visit www.xyzmachinetools.com

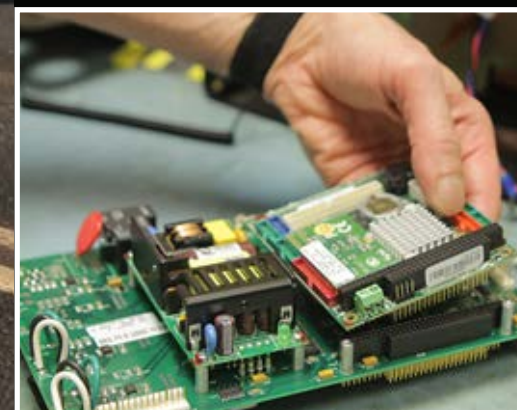


The XYZ Servicing Handbook - your personal passport to stress-free machine tool operation.

There are five types of XYZ Service Plans to ensure the perfect running of your machine tool. The type of Service Plan you need depends on which machine tools you have purchased.

- **ProtoTRAK Mills and XYZ 2-OP**
25 point Annual Service
- **ProtoTRAK Lathes**
25 point Annual Service
- **Machining Centres**
25 point Annual Service
- **Turning Centres**
25 point Annual Service
- **XL and Oil Country Lathes**
25 point Annual Service

These XYZ Service Plans are completely optional, in the same way as regularly servicing your car is optional.



With an XYZ Service Plan you know you're in safe hands.

XYZ Price Promise

We believe above all in fairness and treating customers as we would like to be treated. You can rest assured that the price you pay is the price every company pays.... Big, Small, New or Regular every customer pays the same.

Our price negotiation policy is simple and straightforward. XYZ promises that everyone gets our best price, automatically, every time.

N Atherton

Nigel Atherton
MANAGING DIRECTOR

The bitterness of poor quality remains long after the sweetness of low price is forgotten. Mark Twain

- XYZ Machine Tools deliver an average of 1000 machine tools to UK customers every year.
- XYZ Devon holds over £1.5 million of spare parts in its 18,000 sq ft Parts Department.
- At any one time XYZ has 350 machine tools in stock ready for delivery and installation.
- XYZ has five Showrooms and Training Centres strategically located across the UK.
- All XYZ machine tools are fully-supported by the XYZ UK Service Team to keep you 'up and running' at all times.
- Customers receive free training at an XYZ Centre and access to the XYZ Programming Support Helpline for as long as you need it.



92,000 ft² UK factory



18,000 ft² parts department



XYZ across the UK

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

XYZ BLACKBURN

Thwaites Close, Shadsworth Industrial Estate,
Blackburn, Lancashire. BB1 2QQ

XYZ NUNEATON TECHNICAL CENTRE

5/6 Tungsten Court, Hemdale Business Park,
Nuneaton. CV11 6GZ

XYZ SHEFFIELD (WNT Showroom)

Sheffield Airport Business Park,
Europa Link, Sheffield. S9 1XU

XYZ LONDON

944 Yeovil Road, Slough Trading Estate,
Slough. SL1 4NH

XYZ HALIFAX

Opening Autumn 2019

ISO 9001



The XYZ Sales advisors

Who's your XYZ Area Sales Manager ?

Visit the XYZ website at **www.xyzmachinetools.com** and click on the map to see who your Area Sales Manager is. Talk to the experts and learn how to maximise your low volume and prototype production with the very best technology from ProtoTRAK, Siemens and Heidenhain.



XYZ Case Studies

With over 35 years of history, XYZ has supplied 1000s of machine tools to a lot of engineering businesses and for many different reasons. Here is a taster of some of the experiences of XYZ customers. We hope these stories are of interest and may inspire you to investigate how XYZ can help your business develop. Visit www.xyzmachinetools.com to see the most recent Case Studies or to see the XYZ 2-OP video.

Visit the website to see the video



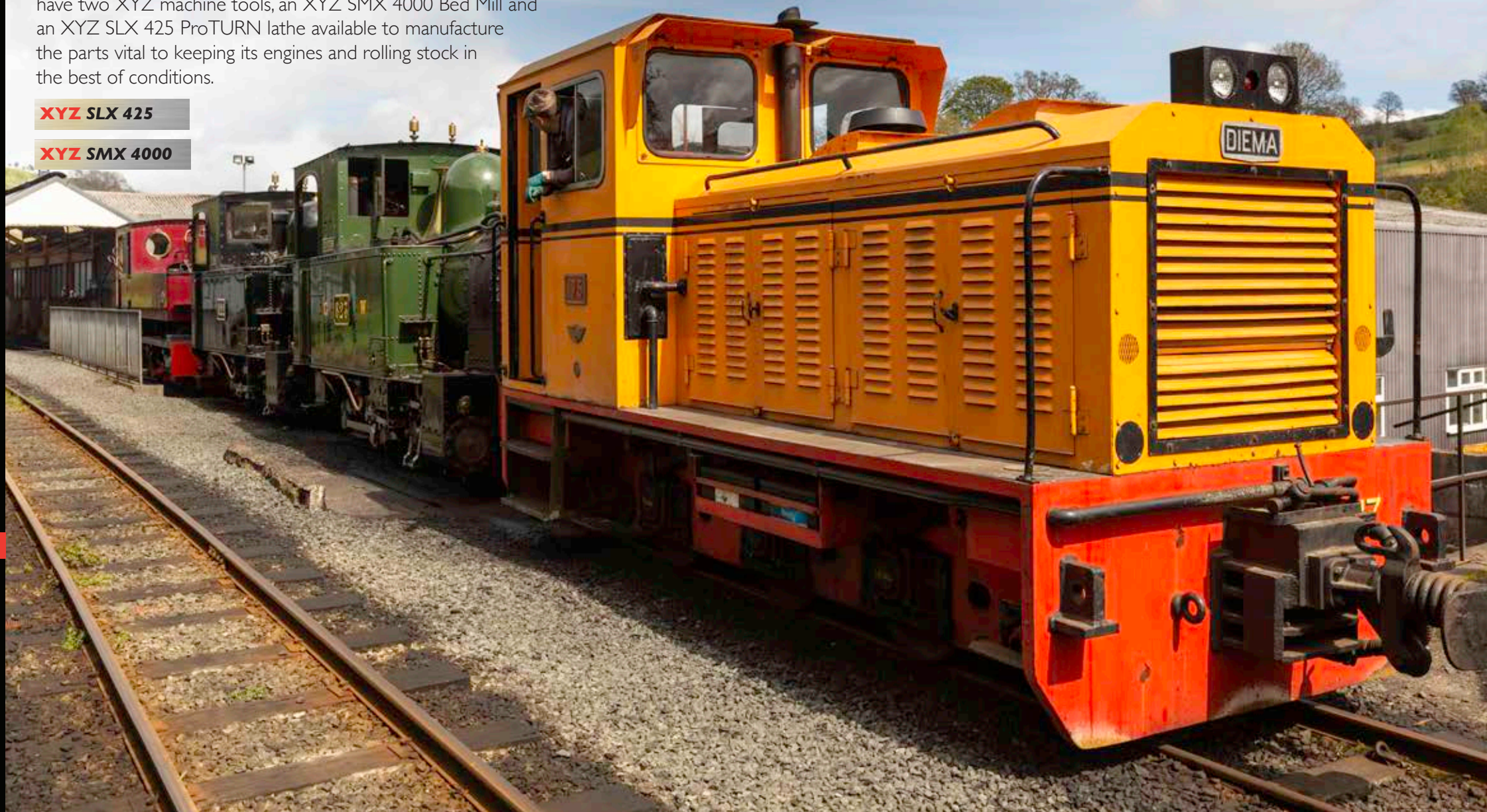
XYZ 2-OP double your profits
A true story filmed at PTG in Plymouth.
Duration: 3 min 47 sec

Keeping railway heritage rolling

Now almost 120 years old the Welshpool and Llanfair Light Railway continues to operate thanks to a dedicated team of volunteers and full and part-time engineering staff, who now have two XYZ machine tools, an XYZ SMX 4000 Bed Mill and an XYZ SLX 425 ProTURN lathe available to manufacture the parts vital to keeping its engines and rolling stock in the best of conditions.

XYZ SLX 425

XYZ SMX 4000



XYZ SLX 425



JAW Engineering

JAW Engineering provide local industry with low volume sub-contract capacity and emergency breakdown support for customers.

XYZ UMC-5X



Rivercircle

Several factors were in favour of the XYZ UMC-5X including machine construction and design gave us confidence it would perform.

XYZ 500 LR



DJM Engineering

It is a refreshing change to get such service from a supplier, it is how we like to treat our customers.

XYZ 710 HD



Restormel Machine

Five-axis was the next step for us, the XYZ 710 VMC with a Lehmann five-axis unit was the right move.

XYZ EMX MILLS



Babcock International

Investment in XYZ mills and lathes means we are much better placed to deliver the training that we need.

XYZ 500 LR



R&M Electrical Group

The benefits of investing in XYZ machining capacity at R&M Electrical Group go beyond simple cycle time savings and efficiencies.

XYZ SLX 1630



LC Precision Eng'g

We have seen growth through word of mouth, on the strength of our reputation for quality, and a willingness to invest.

XYZ CT 65 LTY



Monument Tools

The simplicity of the control on the XYZ means we can quickly produce batches of 10-off prototypes [or production volumes].

XYZ UMC-5X



Investment Casting

The first job on the XYZ UMC-5X was an injection mould tool, manufacturing time reduced by 60 per cent.

XYZ SLX 1630



Maverick Chanters

The impact of the SLX lathe allowed Maverick to produce what it wanted, when it wanted, with lead times virtually non-existent.

XYZ TC 400



Standfast Precision

Most of our work is in the oil & gas sector, mainly providing parts for instrumentation and logging systems.

XYZ 2-OP



Karpas Engineering

We all have dreams and Thomas Karpasitis is no different, except he has made his dream into reality.

XYZ 2010 HD



Voestalpine

Voestalpine High Performance Metals UK Ltd has built a reputation for supplying speciality metals to the most demanding sectors

XYZ 1510 HS



Stevens & Carlotti

Investment in XYZ machines has enhanced productivity and, has opened opportunities to develop a dedicated sub-contract machining capability.

XYZ SMX SLV



ES Precision

Lasers and machine tools are now being put to work providing a sub-contract service combining the best of both worlds



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

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®, 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 start of it, because when you combine great value products with excellent support 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** range, each one the very best in its class.



XYZ Manual Mills, Lathes and Grinders



XYZ ProtoTRAK® KMX Turret Mill
3 Models available



XYZ ProtoTRAK® RMX Bed Mills
4 Models available



XYZ ProTURN® RLX Lathes
7 Models available



XYZ 2-OP
1 Model available



XYZ LR Range
3 Models available



XYZ VMC HD Range
4 Models available



XYZ High Speed VMC
1 Model available



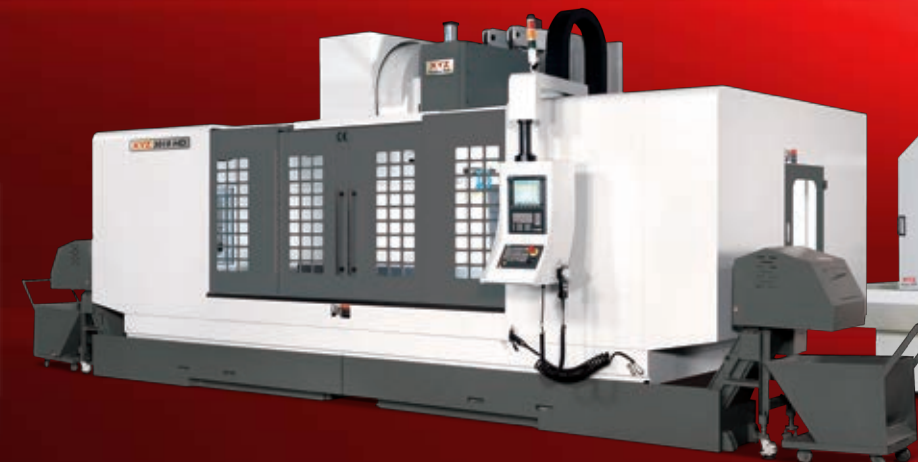
XYZ 5 Axis Simultaneous and 4+1 VMC
2 Models available



XYZ Turning Centres
4 Models available



XYZ Robotic Automation
4 Models available



XYZ Heavyweight Vertical Machining Centres
3 Models available



XYZ XL & Oil Country Lathes
5 Models available

Free XYZ product training

“Unleash the full power of your ProtoTRAK® and Siemens controls with our **Advanced Training**

Mike

MIKE CORBETT - XYZ APPLICATIONS MANAGER

FREE ProtoTRAK® training

When you buy any new XYZ ProtoTRAK® Mill or XYZ ProTURN® Lathe you also get full UK Support and that includes the FREE 'Standard Training Option'. After you've completed your 'Standard Training' you get access to the XYZ Telephone Support Lines should you need it and there's always the prospect of advanced training courses for the future.

ProtoTRAK Milling and Turning Training Standard Training Option - FREE

XYZ offer free unlimited classroom training for the first 12 months from date of order on all their ProtoTRAK controlled machine Tools. This broad-based course at any of our demonstration centres, introduces delegates to the basics of programming, use of the most popular features of the control and setting up the machine for production of parts.

One on One Training

If you would like to focus more on the specialties of the parts you manufacture, these courses at each XYZ Centre for up to 3 delegates and for which we make a small charge, offers you the chance to have an instructor to yourself and learn in greater depth the features to help benefit your business.

Training On-Site

Training on the machine you have purchased can be undertaken at your premises at a day rate cost for up to 3 delegates. This offers our customers a quick way to get up and running in their environment on the parts that need producing.

Advanced Training

Once a user has the basics and needs to develop their programming skills to the next level, these advanced courses which are classroom based aim to deliver on improving customers knowledge and help to reduce programming time and increase the machines productivity.

Telephone Support

XYZ's telephone support is available once a training course has been attended. This help on the end of the telephone is to assist the user if encounters errors when programming or as a gentle reminder if a function has not been used for a while.

By the end of your 'Advanced Training Days' complex components like this will be a real doddle, programmed within minutes.

FREE SIEMENS and HEIDENHAIN training

When you buy any new XYZ Machining Centre or Turning Centre you get the FREE 'Standard Training Option'. After completing your 'Standard Training' you get access to the XYZ Telephone Support Line should you need it.

This free, three days training starts with the first two days at an XYZ Centre, followed by a period of time to allow you to put into practice all that has been learnt so far. This 'breathing space' in the training course allows the 3rd and final day to be used either as a 'refresher course', or as a more 'advanced training day' based on the aspects that have now been learnt.

VMC and Turning Centre Training Standard Training - FREE

Three **free** training days on Vertical Machining Centres and Turning Centres for a maximum of three people at any XYZ Centre. Please note the first two days training is followed by a 'breathing space' before the final days training. Access to the XYZ Telephone Support Lines on completion.

Training On-Site

Training at your own site can be arranged at a cost for a maximum of three people. These courses are very client focussed, and offer a quick way to get you up and running on the jobs you produce.

Advanced Training

Unleash the full power of your control with our 'Advanced Training Days' available at any XYZ UK Centre. These are courses designed for existing users who want to get more from their control and brush-up on features they don't often get to use. Advanced Training can also focus on particular functions of the control specifically to improve your current production work flows.

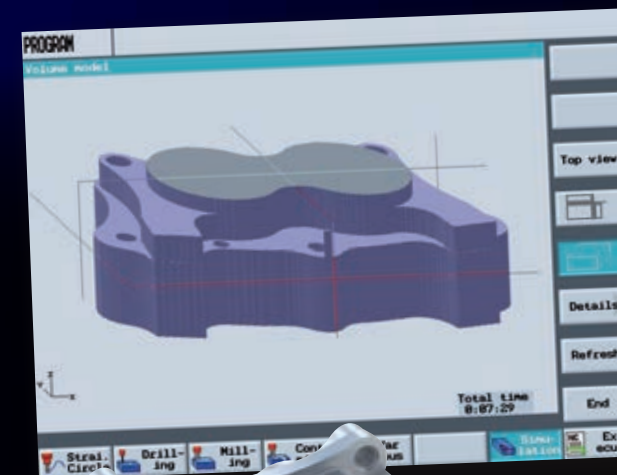
Most engineers can easily produce a simple component featuring bolt hole tapping and metal removal within the first few hours of the 'Standard Training'.



With five axis capability and an Advanced Training course complex components like this can be realised in just one-hit.



Complex components like this brake caliper, can easily be programmed after three days 'Standard Training' by most experienced engineers with no previous CNC experience.



If you would like to know more about the XYZ Training Courses, please call 01823 674200 and ask to speak to the Training Department.

Training is available at any of the 6 XYZ Centres across the UK.



Training & Applications Team



All of the XYZ Training and Applications Team have years of experience and are always up to speed with the latest developments from ProtoTRAK, Siemens and Heidenhain. These are the guys that will make your training experience an enjoyable one.



NEW

ProtoTRAK®

milling and turning

■ BETTER

New Hardware, Faster Feeds,
24 NEW features.

■ EASIER

Now with 15.6" touch screen.

■ FASTER

Drawing to finished component
much faster than before.

Call now for your
Desk Top Demo.

ProtoTRAK® Turret Mills

XYZ KMX 1500 pages 25, 26

XYZ KMX 2000 pages 25, 26

XYZ KMX SLV pages 25, 26

ProtoTRAK® Bed Mills

XYZ RMX 2500 pages 27, 28

XYZ RMX 3500 pages 27, 28

XYZ RMX 4000 pages 27, 28

XYZ RMX 5000 pages 27, 28

ProtoTRAK® Production

XYZ 2-OP

Portable 3 axis CNC pages 29, 30

ProtoTRAK® Lathes

XYZ PROTURN RLX 1630

page 36

XYZ PROTURN RLX 355

page 37

XYZ PROTURN RLX 425

1.25 and 2 metre Gap Bed Lathe

page 38

XYZ PROTURN RLX 555

1 and 1.75 metre Gap Bed Lathe

page 39

XYZ PROTURN RLX 555

3 metre Gap Bed Lathe

page 40

Milling, turning and more

The ProtoTRAK® control was designed from the
ground up to be the 'easy to use' control.

The current range of ProtoTRAK controls for the
mill or lathe is simply the best technology solution for
small batch and prototype production available today.

Program at the control in minutes or use ProtoTRAK
offline software, DXF or parasolid converter options.
Alternatively read in G code generated programs
from a CAM system.



**XYZ ProtoTRAK®
KMX Turret Mills**
3 Model available
Guards removed for clarity



**XYZ ProtoTRAK®
RMX Bed Mills**
4 Models available
Guards removed for clarity

Why ProtoTRAK

ProtoTRAK is the ideal control
for short runs.

The simplicity of ProtoTRAK
makes training very simple and
with only one days training you
can be making profitable parts.
Often much faster than on a
machining or turning centre.



XYZ ProTURN® Lathes
7 Models available



XYZ 2-OP
1 Model available

Get the new RMX and RLX
control brochures. Call 01823
674200 or visit the website
to download.



Or better still call to book
your Desk Top Demo.

ProtoTRAK®

The ProtoTRAK CNC/Manual control is simply the best technology solution for small batch machining available today.

ProtoTRAK was first developed 35 years ago by Southwestern Industries in California. They focussed their entire efforts into finding an engineering solution that would provide 'consistent high efficiency performance on low-volume and complex prototype production'. From these focussed efforts ProtoTRAK began its evolution process with the introduction, in 1984, of the first ProtoTRAK branded product. ProtoTRAK is now a runaway success, with over 15,000 users in the UK and 100,000 worldwide.

The ProtoTRAK control is now available as the KMX and RMX for mills and the RLX for lathes. These three variants offer unrivalled milling and turning capabilities, with greater stability, amazing graphics, and are even more intuitive to use than before; with plain English prompts still proving to be a firm winner with machinists throughout the world.

ProtoTRAK, unlike many alternatives, is not simply a watered-down high volume production control – it's the genuine finished article designed from the ground up as a control for one-off and low volume production.

Milling



ProtoTRAK® KMX

A two-axis CNC control designed especially for Turret Mills, with up to four-axis DRO display (optional) is able to create cycles like bolt hole circles, circular and rectangular pockets, even complex profiles. See the KMX in action and you will realise the days of a conventional DRO on a mill are over.



ProtoTRAK® RMX

This three-axis CNC offers the latest ProtoTRAK technology. Canned cycles include pockets of every shape conceivable, with islands; thread millings; bolt hole patterns; drilling; tapping; and boring. AGE profiling means no more calculations! The unique 'Guess' key means that if a dimension is missing from a drawing, the operator can simply guess the approximate position of a point or intersection. 'Adaptive Material Removal' provides ground breaking 'area clearance', saving hours on jobs and improving surface finishes, as well as extending tool life. 3D surfacing with on-board DNC and the capability to handle virtually unlimited program sizes is also included.

Turning



ProtoTRAK® RLX

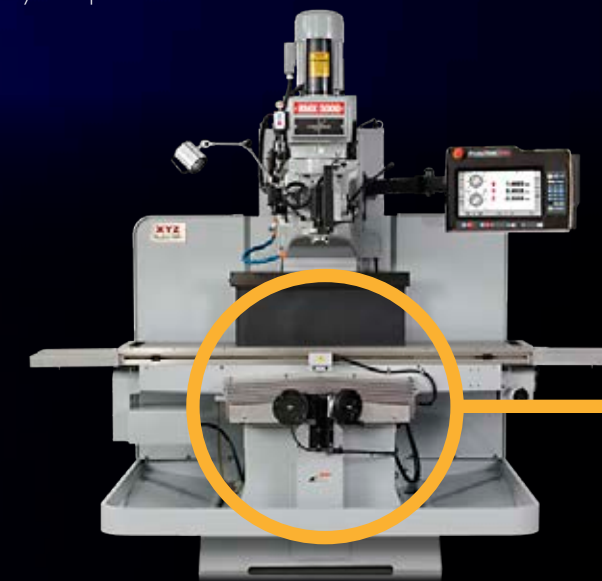
This is the ultimate in 'easy to use' lathe controls. Like all ProtoTRAK® controls the machine can be used manually or under full CNC control, with clearance cycles, profiling, grooving, drilling routines, standard and custom threads.

The features and benefits of ProtoTRAK®

TRAKing Is one of ProtoTRAK's most significant features as it boosts operator confidence on mills and lathes. This is highlighted more for previous non-CNC users. TRAKing allows operators to run through the program using the machine handles, building confidence as any programming errors are identified while under manual control.

LOOK Allowing operators to see the geometry of the program as they enter the data, which allows for verification of the program, saving time and money while avoiding any costly mistakes. As with TRAKing it gives operators additional confidence.

VERIFY This feature of ProtoTRAK gives a graphical interpretation of the part about to be machined, providing the required feedback that your program matches your expectations. Features such as Verify speed up the machining process by giving the confidence that the cutter path is exactly as you expect it to be.



TRAKing allows you to manually run through the program by winding the handles.

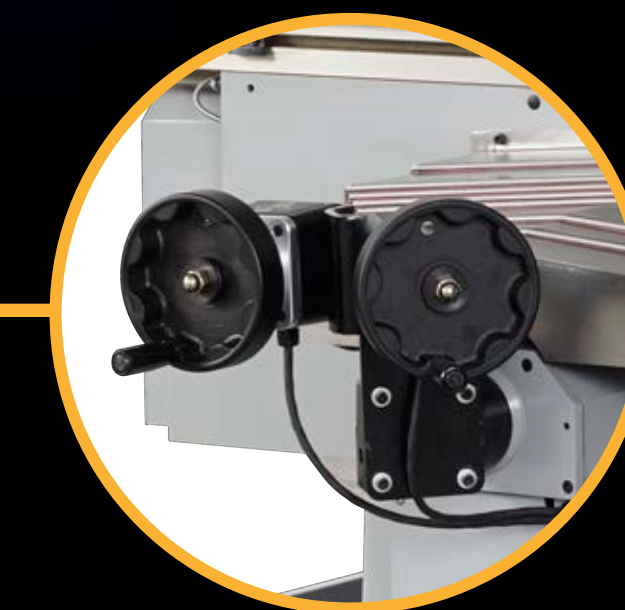
EASY No previous CNC experience is required with ProtoTRAK, as the quick and easy plain English format requires just a few hours training for even the most inexperienced machinist to be creating programs. This allows you to increase productivity and profitability.

Do One Need to machine a taper on a turned part? No more adjusting cross slides, simply select the taper function, input the angle and the ProTURN lathe will produce the angle just by turning the handwheel, it also works for radii and fillets.

List Step Another user interface that allows step by step movement through the program allowing you to identify and correct any errors.

Parasolid (option) If your part is available as a solid model, ProtoTRAK is able to read these files and quickly convert them into code that the machine can use. Either at the machine or offline.

DXF (option) Allows the input of complex drawings and creates programs for complex shapes without error.



See the videos at www.xyzmachinetools.com



ProtoTRAK CNC made easy

Designed from the ground up to be the easy to use CNC.
1 min 22 sec



ProtoTRAK - just like riding a bike

So simple we train you in under an hour.
2 mins



ProtoTRAK 2 axis

Everyday ProtoTRAK 2 axis-quick and easy.
1 min 33 sec



ProtoTRAK 3 axis

Reach the highest levels of modern day machining.
2 min 3 sec



ProtoTRAK on the lathe

From small lathes up to 3 metres between centres lathes.
1 min 55 sec

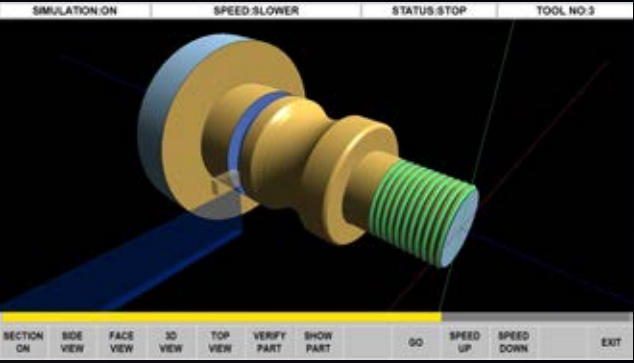
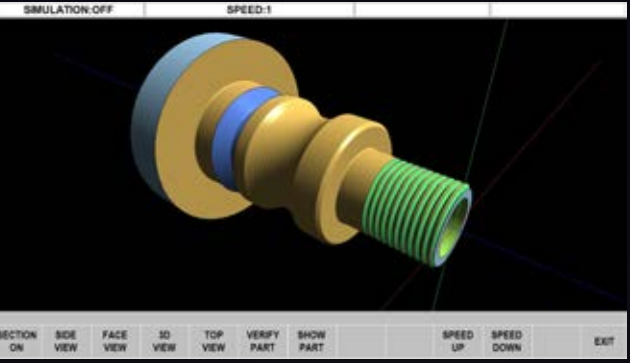
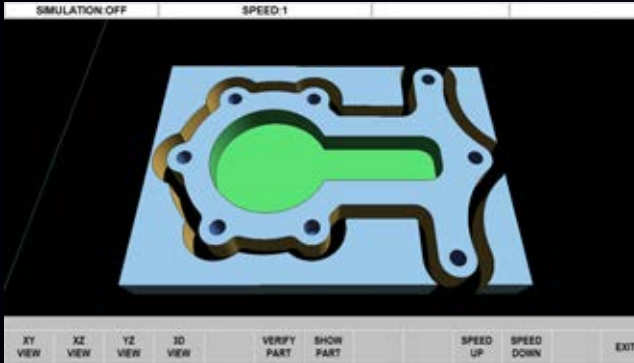
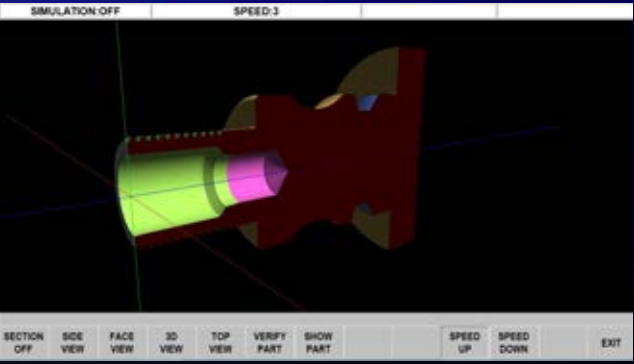
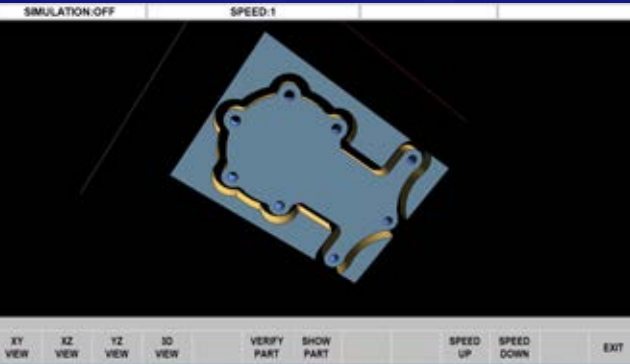
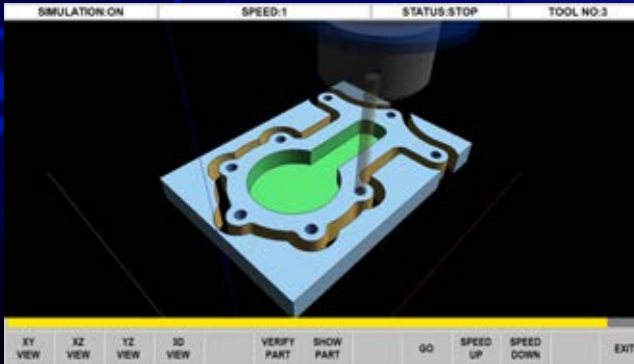
ProtoTRAK® Verify

One of the many advanced features of the ProtoTRAK RMX and RLX controls is the ability to have a visual representation of the part that has been programmed as a solid model. This VERIFY feature supplements the tool path function, which will show where each tool will machine by allowing the operator to specify the material size that the part is to be made from, then running the program as if machining is taking place. The prove out can be performed at different speeds, with the option to display every operation, or just the finished part.

On the RMX milling control the part can be rotated to ensure the cutters have machined to the correct depth and have retracted between operations to avoid collisions. On the lathe RLX control the part can be sectioned so that any internal details can be viewed.

The VERIFY function is the ultimate in part program prove out and can be used for programs produced using ProtoTRAK conversational format or generated on CAD/CAM systems.

To see the ProtoTRAK verify video please visit
<http://www.xyzmachinetools.com/video/verify>



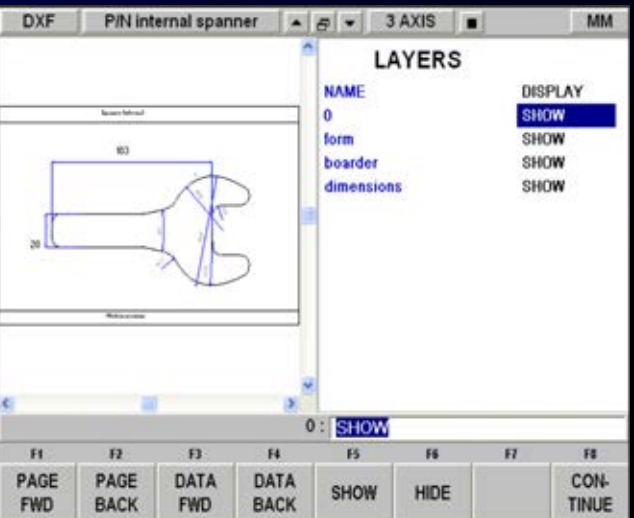
ProtoTRAK® DXF

Programming is easy on the ProtoTRAK control, but it can be made even easier. Fitting the optional DXF converter makes light work of programming profiles and selecting hole patterns by taking them straight from the CAD drawings in either DXF or DWG formats.

Because we don't need the supplementary data such as the drawing border and even dimensions, layers can be turned off and the machinist can decide where they would like to put the datum position. Using the standard ProtoTRAK programming menu to select the operations required directly from the drawing, means no dimensional mistakes will ever be made again.

Touchscreen makes this even simpler.

To see the ProtoTRAK DXF video please visit
<http://www.xyzmachinetools.com/video/dxf>



ProtoTRAK® Parasolid

More and more companies now design their parts using solid modelling software. This data, in the form of Parasolid model (.X_T format) can be imported directly into the ProtoTRAK control, allowing the machinist to work straight from the design.

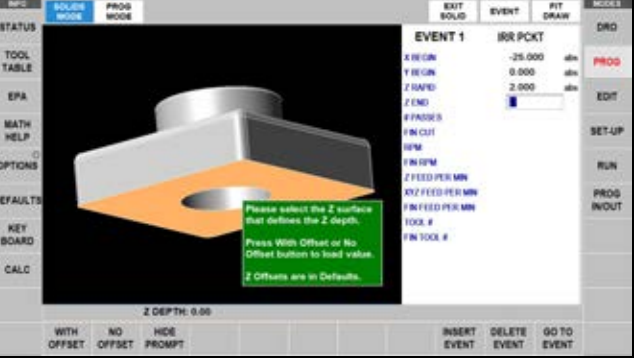
When the model is opened it can be viewed in full 3 dimensions along with the ability to zoom, pan and rotate the part to the desired perspective. The X,Y and Z axis datum positions can be set by the programmer before selecting the events required to manufacture the part.

To see the ProtoTRAK parasolid video please visit
<http://www.xyzmachinetools.com/video/parasolid>



By using the Inquiry key the programmer can interrogate the model to find the key data they need. This will ensure that the correct tooling is used to produce the part in the best possible cycle time.

Whichever machining functions are selected the converter takes the necessary X and Y co-ordinates from the model and by simply clicking on the model the correct Z rapid and Z end heights are input to the program. The control can also allow for drill points and tool breakthrough if required.



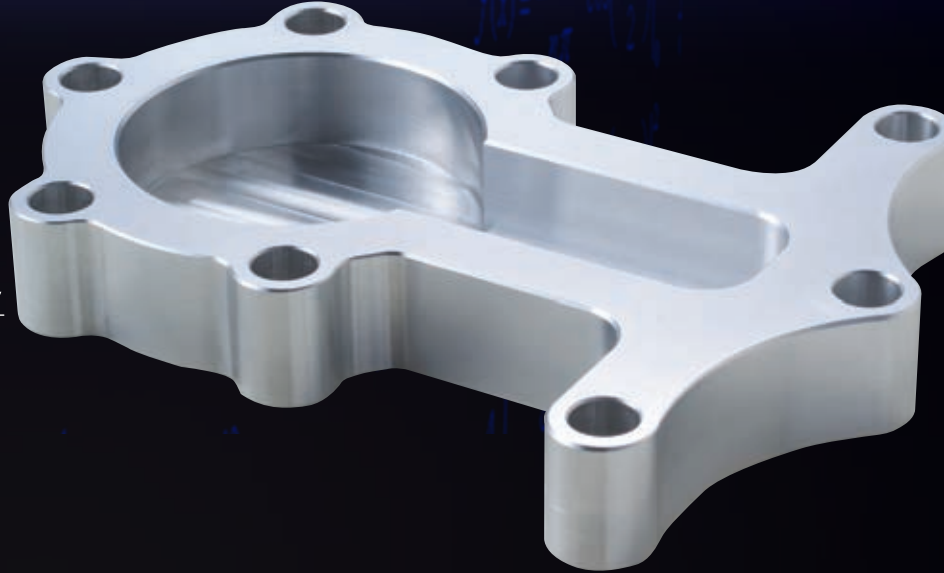
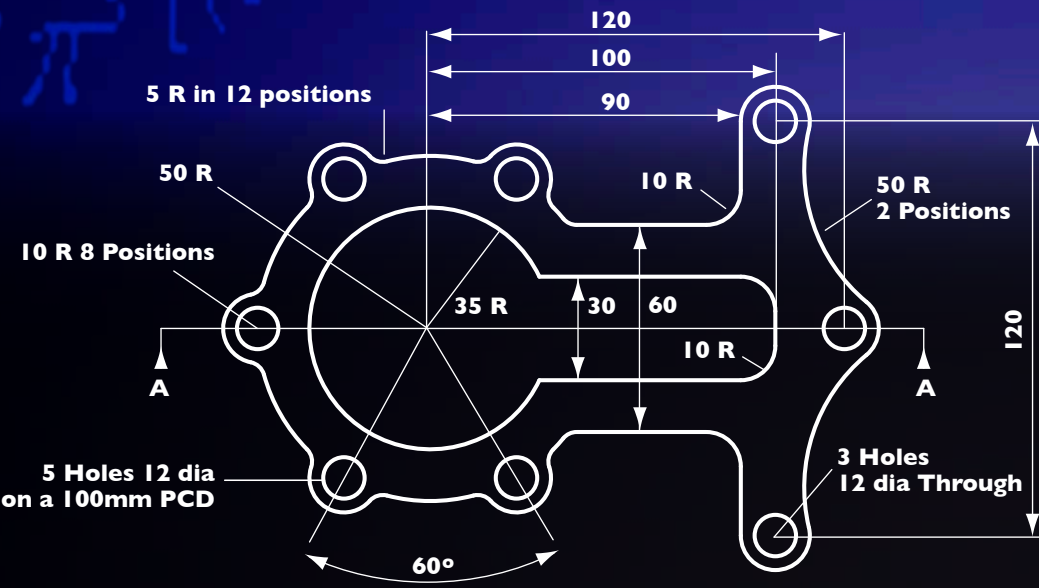
The economics of buying a ProtoTRAK® controlled machine tool

In this highly competitive age with high costs of skilled labour it is essential that you get the maximum productivity from your staff. An investment in a new ProtoTRAK® machine allows you to be more productive by producing components quicker and more accurately than you might be doing at present.

When you are busy an investment in ProtoTRAK will improve productivity. To keep you busy the efficiency of ProtoTRAK allows you to quote less per part to win the order and still be profitable.

With extended warranties and service contracts available on all XYZ machine tools you can rest assured that there will be no surprise costs and benefit from years of trouble-free fixed cost production.

Milling: programming time 10 minutes



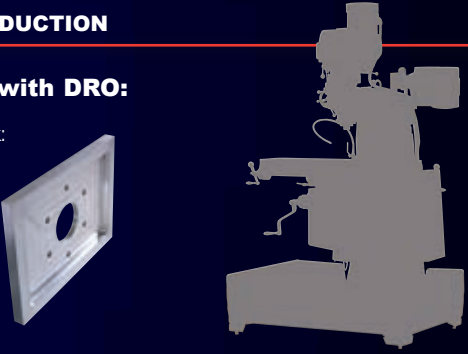
Making hard work easy
Program these components in minutes from scratch. Or, if drawings are produced by CAD as DXF or Solidworks files a Parasolid or DXF file converter is available as an option, making programming times even shorter.

Milling: the maths

MANUAL PRODUCTION

Manual Mill with DRO:

One hour's work:



Charge to customer: **£35** per part

Profit per hour: **£19**

PROTOTRAK PRODUCTION

ProtoTRAK Mill:

One hour's work:



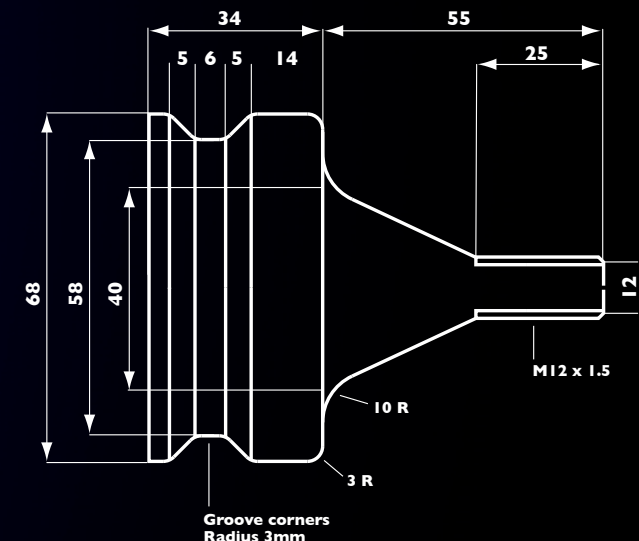
Charge to customer: **£30** per part

Profit per hour: **£104**

*Based on a cost of £16.00 per hour for man and machine

INCREASE PROFITABILITY BY UP TO 6 FOLD

Turning: programming time 3 minutes



Turning: the maths

MANUAL PRODUCTION

Manual Lathe with DRO:

One hour's work:



Charge to customer: **£35** per part

Profit per hour: **£19**

PROTOTRAK PRODUCTION

ProtoTRAK Lathe:

One hour's work:



Charge to customer: **£30** per part

Profit per hour: **£224**

*Based on a cost of £16.00 per hour for man and machine

INCREASE PROFITABILITY BY UP TO 15 FOLD

NEW Introducing the new ProtoTRAK® KMX

■ **BETTER**
New Hardware,
Faster Feeds,
24 NEW features.

■ **EASIER**
Now with 15.6" touch screen.

■ **FASTER**
Drawing to finished
component much faster
than before.

“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

Productivity

- ProtoTRAK RMX CNC integrated into the machine at the factory.
- TRAKing – control of program run.
- 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.

Get the new RMX control brochure
Call 01823 674200
or visit the web-site to get yours



and touchscreen RMX for the mill



To see more about tap, swipe, pan, zoom and other touchscreen gestures watch the videos at the XYZ website www.xyzmachinetools.com

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

Now with
touch screen

Or, better still, get a demo in your machine shop. Talk to your XYZ Salesman about the new ProtoTRAK controls. Chances are, he'll have a Demo Box with him.

ProtoTRAK® Turret Mills

XYZ KMX 1500 pages 25, 26

XYZ KMX 2000 pages 25, 26

XYZ KMX SLV pages 25, 26

ProtoTRAK® Bed Mills

XYZ RMX 2500 pages 27, 28

XYZ RMX 3500 pages 27, 28

XYZ RMX 4000 pages 27, 28

XYZ RMX 5000 pages 27, 28

ProtoTRAK® Production

XYZ 2-OP pages 29, 30

Portable CNC

ProtoTRAK®

turret and 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 CNC control with 2 or 3 axis capabilities.



Get the Desk Top Demo



Get the ProtoTRAK Desk Top Demo, it only takes 30 minutes and happens at your place. Alternatively visit the website and see the ProtoTRAK videos.



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

1000mm of 'X' Travel makes this one of the largest turret mills on the market.



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 1000mm 'X' travel machine offers massive capacity at a very competitive price.



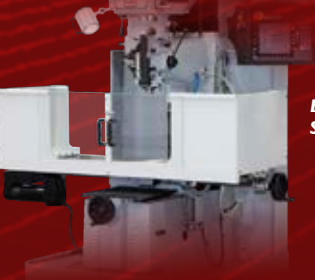
XYZ RMX 5000

Give yourself an advantage! How many companies do you know with 1500mm X axis capacity on a relatively low cost CNC Bed Mill.

Guarding

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.

Turret Mill Swing and Slide Guard.



Bed Mill Steel Guard.

XYZ ProtoTRAK® KMX Turret Mill

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®

KMX Turret Mills have the TRAKing 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 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.

XYZ KMX 1500

3 HP VARIABLE SPEED HEAD
42" x 9" (1069 x 228mm) TABLE
26" x 12" (660 x 305mm) TRAVEL

XYZ KMX 2000

3HP VARIABLE SPEED HEAD
50" x 10" (1270 x 254mm) TABLE
30" x 15" (762 x 380mm) TRAVEL

XYZ KMX SLV

5 HP VARIABLE SPEED HEAD
58" x 12" (1471 x 305mm) TABLE
40" x 16" (1000 x 410mm) TRAVEL

Standard Equipment

Vari Speed 2 Range Head.
Chrome Slides or Box Ways.
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 Drawbars.
4th Axis DRO.
Offline Software.
Tooling, Vices etc.
Parasolid and DXF Convertors.
Millstar (Quill DRO).

Guarding

All machines are fitted with CE compliant guards. XYZ ProtoTRAK Turret Mills are fitted with swing and slide guards.



Turret Mill Swing and Slide Guard.



All ProtoTRAK Turret Mills and Bed Mills are Renishaw ball bar tested to ensure accuracy.

Guards removed for clarity

XYZ ProtoTRAK® RMX Bed Mill

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

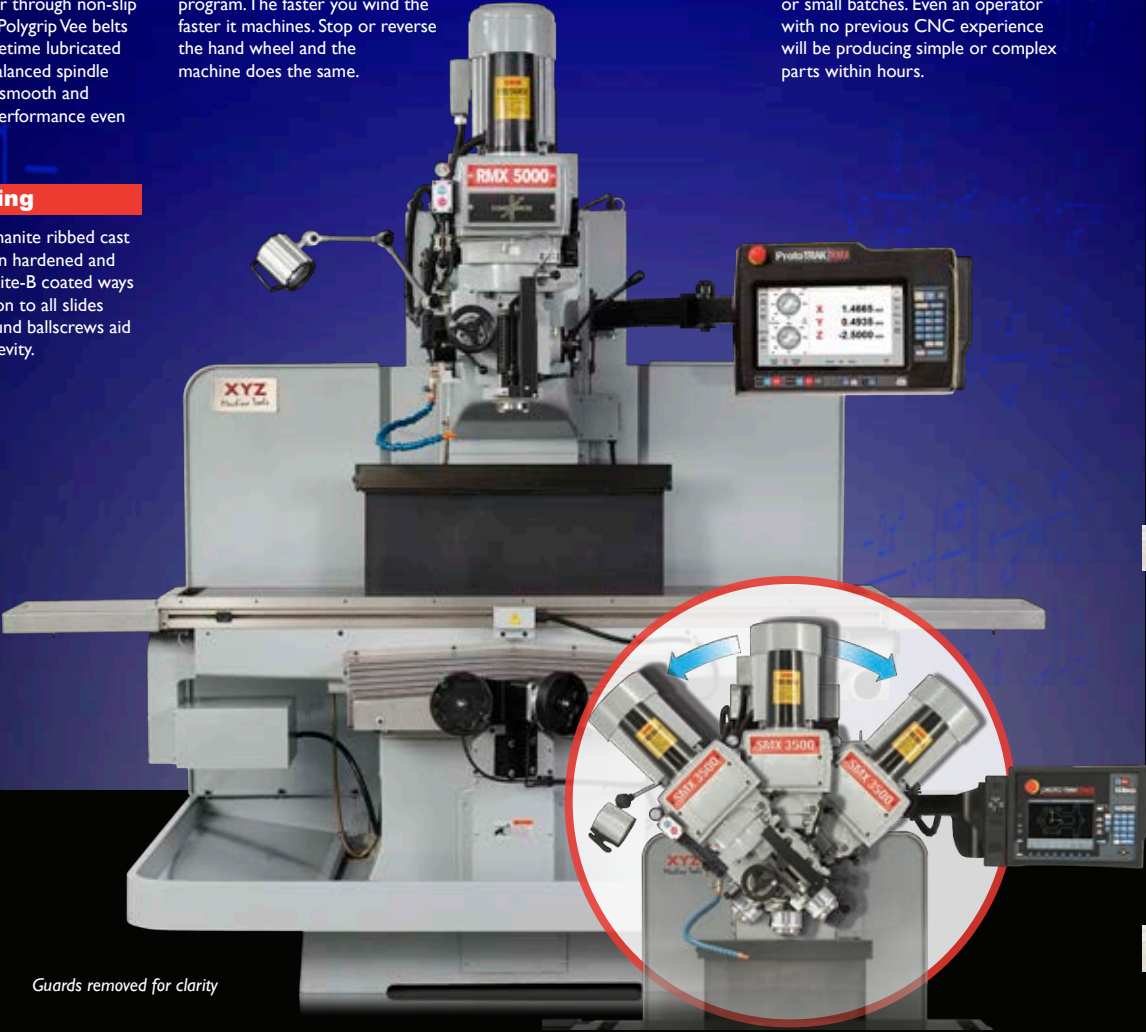
Built of solid Meehanite ribbed cast iron with induction hardened and ground slides. Turcite-B coated ways and auto lubrication to all slides and precision ground ballscrews aid accuracy and longevity.

TRAKing®

RMX Bed Mills have the TRAKing 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 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.



Guards removed for clarity

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.

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 40-5000 rpm are standard and TRAKing is available as an option on all models.



XYZ RMX 2500

3HP PROGRAMMABLE VARIABLE SPEED HEAD
49" x 9" (1245 x 228mm) TABLE
30" x 15" x 22" (762 x 381 x 560mm) TRAVEL
5000 RPM SPINDLE

Standard Equipment

- Vari Speed 2 Range Head.
- Hardened and Ground Ways.
- 3 Axis DRO.
- 2 or 3 Axis CNC.
- Precision Ground Ballscrews.
- Coolant.
- Air Drawbar
- Work Light.
- Auto Lubrication.
- Interlocked Guarding.

Optional Equipment

- Riser Blocks.
- Offline Software.
- Tooling, Vices etc.
- DXF Converter.
- Parasolid Converter.



XYZ RMX 3500

5HP PROGRAMMABLE VARIABLE SPEED HEAD
54" x 14" (1370 x 356mm) TABLE
31" x 20" x 20" (787 x 508 x 508mm) TRAVEL
PROGRAMMABLE 5000 RPM SPINDLE

Guarding

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



Bed Mill Steel Guard



XYZ RMX 4000

7.5HP PROGRAMMABLE VARIABLE SPEED HEAD
58" x 14" (1470 x 356mm) TABLE
40" x 23 1/2" x 23" (1016 x 596 x 584mm) TRAVEL
PROGRAMMABLE 5000 RPM SPINDLE



XYZ RMX 5000

7.5HP PROGRAMMABLE VARIABLE SPEED HEAD
76" x 14" (1930 x 356mm) TABLE
60" x 23 1/2" x 23" (1524 x 596 x 584mm) TRAVEL
PROGRAMMABLE 5000 RPM SPINDLE

	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	40-5000 rpm programmable	40-5000 rpm programmable	40-5000 rpm programmable	40-5000 rpm programmable
2 Speed ranges	40-600 / 300-5000 rpm	40-600 / 300-5000 rpm	40-600 / 300-5000 rpm	40-600 / 300-5000 rpm
Table size	1245 X 228 mm	1372 x 356 mm	1474 x 356 mm	1930 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	1016 mm	1524 mm
Cross travel Y axis	381 mm	508 mm	596 mm	596 mm
Head vertical travel Z axis	560 mm	500 mm <small>Can be extended to 530mm but this restricts Y axis travel to 480mm.</small>	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	1900 kg	2350 kg	3200 kg	3500 kg

XYZ 2-OP

Cell manufacturing for all machine shops with NO increase in labour.

	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	50-6000 rpm max
Spindle motor	3 hp
Spindle taper	BT 30
Tool magazine capacity	8 station
Max tool diameter	50 mm
Machine weight	1100 kg
Footprint W x D x H	775 x 1,380 x 2,520 mm

See the videos at www.xyzmachinetools.com



XYZ 2-OP double your profit

A true story filmed at PTG Plymouth.

Duration:
3 minutes 47 sec.

The most expensive item on any shopfloor is its manpower !

Any capital cost of a machine tool should be amortised over its reasonable life of say 7 - 10 years, therefore a £50,000 machine costs £5,000 to £7,000 per year depending on the term. But labour costs may be £30,000 a year, so you need the operator kept busy running as many spindles as possible.

Everyone knows that in a production environment making masses of the same item that cellular manufacturing is the most efficient use of labour.

However, in a subcontract environment if the job is only a few hundred components, or a few days' work, it's not worth moving machines around to set up a 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.

If you are using any machine, quite a lot of the 'expensive' operator time can be just waiting for a machining cycle to finish. With the XYZ 2-OP the operator can use that time productively at virtually no cost to the business. The portability of the XYZ 2-OP addresses these issues and allows for higher productivity.

To learn more visit the website to see the video or call 01823 674200 to arrange a demonstration near you.

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



Options to fit your exact needs



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



Fixture plate - Precision plate with primary liners, 457mm x 381mm.



Fixture plate set up - Includes liners, fence, and vice stop assembly.



Vice stop - Includes mag base and 25.4, 50.8 and 76.2mm extensions.



Tool holders - BT30, eight pieces of assorted sizes.



Ball lock clamping devices - Available in sets of four.



Mobile tool cart - Convenient and easy to move.



Ball lock liners - set of 8 For fixture plates. High and low precision for use with primary and secondary locating holes in the **XYZ 2-OP** table.



Programmable Pneumatic Speed Indexer

Quick cell set up

With a footprint of only 775mm x 1380mm the **XYZ 2-OP** can easily fit into the tightest of spaces.



Specifications

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

512 MB USB Drive (Optional)

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

English language - 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

Standard Equipment

ProtoTRAK® TMX 3 Axis CNC control.

Optimised digital servo's.

8 Station Toolchanger.

6000 RPM Spindle.

Jergens ball lock table.

Pallet truck.

Rigid Tapping.

Flood coolant.

Washdown coolant.

Worklight.

Auto Lubrication.

Pull Studs.

USB port.

Networking.

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.

Offline programming

(free download).

External USB drive.

NEW Introducing the new touchscreen Proto

■ **BETTER**
New Hardware,
Faster Feeds,
21 NEW features.

■ **EASIER**
Now with 15.6" touch screen.

■ **FASTER**
Drawing to finished
component much faster
than before.

‘With a choice of swings, bed lengths and spindle bores, the XYZ RLX range has a lathe to make you more productive.’

N Atherton
Nigel Atherton
XYZ MANAGING DIRECTOR

- ProtoTRAK RLX is possibly the simplest CNC control available today.
- 15.6" touchscreen makes the control simple and intuitive.
- Gesture control makes controlling the screen quick and easy.
- Constant Surface Speed control for improved tool life and surface finishes.
- Electronic handwheels allows Tapers, Radii and Fillets to be produced manually.

■ Enhanced ProtoTRAK Assistant is your on board help at the touch of the screen.

■ Protur Lathes are standard with TRAKing® 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 handwheel and the machine does the same.

■ Choice of toolholding, quick change toolpost, 4 station indexer or 8 station turret.

■ Optional DXF software allows program production straight from the drawing.

Get the new RLX control brochure
Call 01823 674200
or visit the website to download.



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

TRAK® **RLX** for the lathe



To see more about tap, swipe, pan, zoom and other touchscreen gestures watch the videos at the XYZ website
www.xyzmachinetools.com

Or, better still, get a demo in your machine shop. Talk to your XYZ Salesman about the new ProtoTRAK RLX control. Chances are, he'll have a Demo Box with him.

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



ProtoTRAK® Lathes

XYZ PROTURNS RLX 1630 page 36

XYZ PROTURNS RLX 355 page 37

XYZ PROTURNS RLX 425 page 38

1.25 and 2 metre Gap Bed Lathe

XYZ PROTURNS RLX 555 page 39

1 and 1.75 metre Gap Bed Lathe

XYZ PROTURNS RLX 555 page 40

3 metre Gap Bed Lathe

ProtoTRAK® on the lathe

The ProtoTRAK® RLX control is available across the ProTurn range, from small lathes through to three metre between centre lathes.

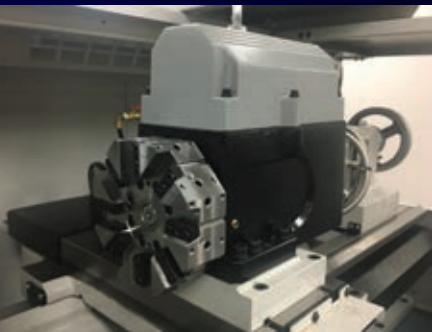
The RLX can be used manually or under full CNC control with clearance cycles, profiling, grooving, drilling, standard and custom thread routines and more.



Improved precision and production options



Optional four or eight station indexing tool posts improve productivity on larger batches.



If you're considering buying a large turning centre fitting an 8 station turret to a large ProTURN could give you very similar results at a fraction of the price. Perhaps 80% of the performance at 30% of the price.



All XYZ Proturn Lathes are thoroughly tested with the latest QC20 bluetooth Renishaw Ball Bar system.



Optional drilling attachment.

Get the Desk Top Demo



Get the ProtoTRAK Desk Top Demo, it only takes 30 minutes and happens at your place. Alternatively visit the website and see the ProtoTRAK videos.



XYZ PROTURNS RLX 1630

Capacity, capability and value! After the first day you will wonder why you ever used a manual lathe.



XYZ PROTURNS RLX 355

High speed, high precision, rigidity and performance.



XYZ PROTURNS RLX 425 1.25 and 2 metre Gap Bed Lathe

Our best selling workhorse with 80mm spindle bore and a solid one piece bed and base. Kick your competition into touch.



XYZ PROTURNS RLX 555 1 and 1.75 metre Gap Bed Lathe

104mm spindle bore, up to 1.75 metres between centres and ProtoTRAK's simplicity makes this a real winner.



XYZ PROTURNS RLX 555 3 metre Gap Bed Lathe

The 'heavyweight' ProTURN with heavier bed and base. For larger capacity lathes see the XL range on pages 93 to 96.

XYZ ProTURN® Lathes - time proven quality

Control

The latest generation of ProtoTRAK RLX 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.

Guarding

Built and guarded to comply with the latest CE regulations to ensure complete operator safety. When closed and in full CNC operation the easy lift, totally enclosed guard, ensures water tight containment of swarf and coolant.

Headstock

The headstock is built using Japanese induction hardened and precision ground gears. Two precision taper roller bearings and a support journal bearing ensure spindle rigidity and concentricity. High pressure oil lubrication is provided to all gears and bearings via a pump and oil cooler ensuring thermal stability, quiet running and long life.

Swarf Tray

Front opening easy access Swarf Tray makes light work of swarf removal and reduces the amount of space required at the rear of the machine.

Tailstock

Heavy tailstock with two clamp points prevents movement when machining components between centres. Repositioning is effortless and is achieved by providing an air cushion that lifts the tailstock from the bed (not on the XYZ ProTURN RLX 1630).

Cast Bed & Base

Unlike most other Lathes that are cast or fabricated in two or three pieces and then bolted together, the Proturn RLX is a one piece solid ribbed casting that provides weight and rigidity ensuring unrivalled precision. The extra wide 'Vee and flat' bed way provides a large bearing surface that makes other Lathes seem flimsy by comparison. The lower cost RLX 1630 does not have a single piece casting.

TRAKing®

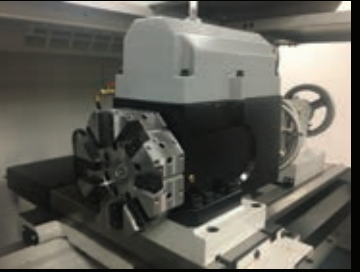
Proturn Lathes are standard with TRAKing which allows the operator to wind the handwheel and the machine moves through the program. The faster you wind the faster it machines. Stop or reverse the handwheel and the machine does the same.

Saddle & Apron

The apron moves with the saddle and emulates the actions of a manual lathe. This brings reassuring familiarity to the first time user of a CNC Lathe, and a joy stick provides for rapid positioning.



XYZ PROTURN RLX 555 3 metre Gap Bed Lathe



8 Station Turret
If you're considering buying a large turning centre fitting an 8 station turret to a large/longbed ProTURN could give you very similiar results at a fraction of the price. Perhaps 80% of the performance at 30% of the price.

XYZ PROTURN RLX 1630

SWING OVER BED 400mm
SPINDLE BORE 54mm
DISTANCE BETWEEN CENTRES 760mm
MAX 2500 RPM



Standard Equipment

TRAKing®.
Constant Surface Speed.
Verify Solid Model Graphics.
Rapid Traverse with Joy Stick.
3 Jaw Chuck 200mm.
Quick Change Toolpost and 6 Holders.
Centres and Bushes.
Tailstock.
Interlocked Chuck Guard and Main Guard.
Auto Lubrication.
Coolant.
Worklight.

Optional Equipment

4 Station Auto Indexing Toolpost.
Faceplates, Steadies, Chucks and Collet Chucks.
Offline Software.
Adjustable Back Stop.
DXF Converter.

	XYZ RLX 1630
Swing over bed mm	400 mm
Swing in gap	not applicable
Gap in front of faceplate	not applicable
Swing over cross slide	218 mm
Cross Slide travel	216 mm
Distance between centres	760 mm
Maximum cutting length	760 mm
Spindle bore	54 mm
Spindle nose	DI-6 camlock
Spindle taper	MT4 in bush
Spindle motor	5.75 Kw (7.5 hp)
Spindle speeds	150-2500 rpm
Tailstock travel	127 mm
Tailstock taper	MT4
Tailstock diameter	60 mm
Bed width	320 mm
Footprint L x D x H	2090 x 1260 x 1800 mm
Weight	1750 kg

See the videos at www.xyzmachinetools.com



ProtoTRAK CNC made easy
Designed from the ground up to be the easy to use CNC.
I min 22 sec

XYZ PROTURNSRLX 355

SWING OVER BED 360mm
SPINDLE BORE 52mm
DISTANCE BETWEEN CENTRES 1000mm
MAX 4000 RPM



Standard Equipment

TRAKing®.
Constant Surface Speed.
Verify Solid Model Graphics.
2 Speed Headstock.
Rapid Traverse with Joy Stick.
3 Jaw Chuck 200mm.
Quick Change Toolpost
and 6 Holders.
Centres and Bushes.
Air Assisted Floating Tailstock.
Interlocked Chuck Guard
and Main Guard.
Auto Lubrication.
Coolant.
Worklight.

Optional Equipment

4 or 8 Station Auto Indexing Toolposts.
Faceplates Steadies Chucks.
and Collet Chucks.
Offline Software.
Adjustable Back Stop.
DXF Converter.
Drilling Attachment.
Swarf Conveyor.

	XYZ RLX 355
Swing over bed	360 mm
Swing in Gap	not applicable
Gap in front of faceplate	not applicable
Swing over cross slide	225 mm
Cross Slide Travel	185 mm
Distance between centres	1000 mm
Maximum cutting length	900 mm
Spindle bore	52 mm
Spindle nose	D 1-6 camlock
Spindle taper	MT4 in bush
Spindle motor	5.75 Kw (7.5 hp)
Spindle speeds	50-4000 rpm - 2 ranges
Tailstock Travel	150 mm
Tailstock taper	MT 4
Tailstock diameter	60 mm
Bed Width	300 mm
Footprint L x D x H	2300 x 1370 x 1810 mm
Weight	2150 kg

XYZ PROTURNSRLX 425

AVAILABLE AS A 1.25 AND 2 METRE GAP BED LATHE
SWING OVER BED 480mm
SPINDLE BORE 80mm
DISTANCE BETWEEN CENTRES 1250 & 2000mm
MAX 2500 RPM



XYZ ProTURN RLX 425 x 2 metre

Standard Equipment

TRAKing®.
Constant Surface Speed.
Verify Solid Model Graphics.
3 Speed Headstock.
Rapid Traverse with Joy Stick.
3 Jaw Chuck 250mm.
Quick Change Toolpost and 6 Holders.
Centres and Bushes.
Air Assisted Floating Tailstock.
Interlocked Chuck Guard
and Main Guard.
Auto Lubrication.
Coolant.
Worklight.

Optional Equipment

4 or 8 Station Auto Indexing Toolposts.
Faceplates, Steadies, Chucks
and Collet Chucks.
Offline Software.
Adjustable Backstop.
DXF Converter.
Drilling Attachment.
Swarf Conveyor.

	XYZ RLX 425
Swing over bed	480 mm
Swing in gap	700 mm
Gap in front of faceplate	170 mm
Swing over cross slides	257 mm
Cross Slide travel	230 mm
Distance between centres	1250 / 2000 mm
Maximum cutting length	1080 / 1900 mm
Spindle bore	80 mm
Spindle nose	D 1-8 camlock
Spindle taper	MT7 in bush
Spindle motor	7.5 kw (10 hp)
Spindle speeds	25-2500 rpm - 3 ranges
Tailstock travel	160 mm
Tailstock taper	MT 5
Tailstock diameter	75 mm
Bed width	370 mm
Footprint L x D x H	2600/3450 x 1460 x 1810mm
Weight	2950 / 3950 kg

See the videos at www.xyzmachinetools.com



**ProtoTRAK on
the lathe**
From small lathes up
to 3 metres between
centres lathes.
1 min 55 sec

See the videos at www.xyzmachinetools.com



**ProtoTRAK CNC
made easy**
Designed from the
ground up to be the
easy to use CNC.
1 min 22 sec

XYZ PROTURNSRLX 555

1 and 1.75 METRE GAP BED LATHE
SWING OVER BED 560mm
SPINDLE BORE 104mm
DISTANCE BETWEEN CENTRES 1000 or 1750mm
MAX 1800 RPM

Standard Equipment

TRAKing®.
Constant Surface Speed.
Verify Solid Model Graphics.
2 Speed Headstock.
Rapid Traverse with Joy Stick.
3 Jaw Chuck 315mm.
Quick Change Toolpost and 6 Holders.
Centres and Bushes.
Air Assisted Floating Tailstock.
Interlocked Chuck Guard and Main Guard.
Auto Lubrication.
Coolant.
Worklight.

Optional Equipment

4 or 8 Station Auto Indexing Toolposts.
Faceplates, Steadies, Chucks
and Collet Chucks.
Offline Software.
Adjustable Backstop.
DXF Converter.
Drilling Attachment.
Swarf Conveyor.

	XYZ RLX 555- 1 and 1.75 metre
Swing over bed	560 mm
Swing in gap	780 mm
Gap in front of faceplate	227 mm max
Swing over cross slide	350 mm
Cross Slide travel	280 mm
Distance between centres	1000 / 1750 mm
Maximum cutting length	900 / 1650 mm
Spindle bore	104 mm
Spindle nose	D 1-11 camlock
Spindle taper	MT7 in bush
Spindle motor	11 Kw (15hp)
Spindle speeds	30-1800 rpm - 2 ranges
Tailstock travel	160 mm
Tailstock taper	MT 5
Tailstock diameter	90 mm
Bed width	370 mm
Footprint L x D x H	2600 / 3450 x 1570 x 1910 mm
Weight	3200 / 4100 kg

XYZ PROTURNSRLX 555

3 METRE GAP BED LATHE
SWING OVER BED 560mm
SPINDLE BORE 104mm
DISTANCE BETWEEN CENTRES 3000mm
MAX 1800 RPM

Standard Equipment

TRAKing®.
Constant Surface Speed.
Verify Solid Model Graphics.
2 Speed Headstock.
Rapid Traverse with Joy Stick.
3 Jaw Chuck 315mm.
Quick Change Toolpost and 6 Holders.
Centres and Bushes.
Air Assisted Floating Tailstock, with
towing hitch.
Interlocked Chuck Guard and Main
Guard.
Auto Lubrication.
Coolant.
Worklight.

Optional Equipment

4 or 8 Station Auto Indexing Toolposts.
Faceplates, Steadies, Chucks
and Collet Chucks.
Offline Software.
Adjustable Backstop.
DXF Converter.
Drilling Attachment.
Swarf Conveyor.

	XYZ RLX 555- 3 metre
Swing over bed	560 mm
Swing in gap	935 mm
Gap in front of faceplate	297 mm max
Swing over cross slide	350 mm
Cross Slide travel	290 mm
Distance between centres	3000 mm
Maximum cutting length	2900 mm
Spindle bore	104 mm
Spindle nose	D 1-11 camlock
Spindle taper	MT7 in bush
Spindle motor	11 Kw (15hp)
Spindle speeds	30-1800 rpm - 2 ranges
Tailstock travel	200 mm
Tailstock taper	MT 6
Tailstock diameter	105 mm
Bed width	500 mm
Footprint L x D x H	5260 x 2010 x 1910 mm
Weight	6600 kg



See the videos at www.xyzmachinetools.com



ProtoTRAK on
the lathe
From small lathes up
to 3 metres between
centres lathes.
1 min 55 sec



8 Station Turret
If you're considering buying a
large turning centre fitting an 8
station turret to a large/longbed
ProTURN could give you very
similiar results at a fraction of
the price. Perhaps 80% of the
performance at 30% of the price.

Introducing the XYZ family of manual machine tools

Despite the advances of 'easy to use' CNC systems we still offer a complete range of Manual Machine Tools which are very popular with Training Organisations and Maintenance Shops etc. For those who have to operate within a more commercially competitive environment please see the

XYZ 1500 XYZ 2000 XYZ SLV



Guards removed for clarity

	XYZ 1500	XYZ 2000	XYZ SLV
Newall 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 - 4200 rpm	75-4200 rpm	70-3600 rpm
Table size	1069 x 228 mm	1270 x 254 mm	1473 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	1000 mm
Cross travel - Y axis	305 mm	380 mm	410 mm
Knee vertical travel - Z axis	406 mm	406 mm	406 mm
Ram travel	305 mm	450 mm	450 mm
Spindle taper	R8 / 30 ISO optional	R8 / 30 ISO optional	40 ISO

entry level ProtoTRAK KMX system and machine on pages 15 and 25.
In the last 30 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 and all are fitted with European bearings and electrical components to full CE approval.

XYZ eTURN 1325/1340 XYZ TRAINER 1330 XYZ 1550 VS



Longer and shorter beds are available.

	XYZ eTURN 1325/1340	XYZ TRAINER 1330/1340	XYZ 1530/1550 VS
Swing over bed	330 mm	330 mm	390 mm
Swing in gap (opt)	NA	495 mm	610 mm (standard)
Gap in front of face plate (opt)	NA	150 mm	150 mm
Swing over cross slide	198 mm	190 mm	240 mm
Distance between centres	584 / 965 mm	750 / 965 mm	750 / 1250 mm
Cross slide travel	180 mm	190 mm	230 mm
Spindle speed	35-2000 rpm 3HP	53-2000 rpm	18-2500 rpm
Type of spindle nose	D 1-4	D 1-4	D 1-6
Main spindle bore	38 mm	36 mm	54 mm

XYZ 1020
250 x 500mm magnetic chuck.
Larger Grinders available



LARGER GRINDERS AVAILABLE

	XYZ 1020	XYZ 1224	XYZ 1632	XYZ 2040
Table/Magnetic chuck size	250 x 500 mm	304 x 609 mm	406 x 812 mm	500 x 1050 mm
Max grinding length - Longitudinal	500 mm	609 mm	860 mm	1050 mm
Max grinding width - Cross	250 mm	304 mm	406 mm	550 mm
Max distance from table surface to spindle centre	500 mm	508 mm	558 mm	600 mm
Longitudinal travel - Hydraulic	558 mm	660 mm	860 mm	1100 mm
Longitudinal travel - Variable	5 - 25 m/min	5 - 25m/min	5 - 25m/min	5 - 25m/min
Cross travel - Automatic increment	0.15 mm - 15 mm	0.1 mm - 10 mm	0.1 mm - 10 mm	1 mm - 20 mm
Cross travel - Automatic travel	250 mm	304 mm	406 mm	550 mm
Cross feed handwheel - Per revolution	4 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	1 mm	0.5 mm
Down feed handwheel - Per graduation	0.01 mm	0.01 mm	0.005 mm	0.005 mm
Spindle motor - Speeds	3000 rpm	3000 rpm	3000 rpm	1450 rpm
Spindle motor - Power ratings	2 hp	5 hp	5 hp	10 hp
Hydraulic motor - Power ratings	1 hp	1 hp	2 hp	3 hp
Standard grind wheel - Diameter	180 mm	355 mm	355 mm	355 mm
Standard grind wheel - Width	12 mm max 19 mm	38 mm	50.8 mm	38 mm
Standard grind wheel - Bore	31.75 mm	127 mm	127 mm	127 mm
Weight	1550 kg	1700 kg	2300 kg	5700 kg

XYZ for education

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



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.

	FT 1000	FT 800	FT 400	FT 200	FT 90
Max capacity-Steel	M6	M10	M12	M16	M24
Max capacity-Aluminium	M8	M12	M14	M24	M24
Speed (no load)	1200 rpm	800 rpm	400 rpm	250/800 rpm	90/250 rpm
Air pressure flow	90 psi	90 psi	90 psi	90 psi	90 psi
Noise max	85.0 dBA	85.1 dBA	84.2 dBA	84.2 dBA	84.1 dBA

XYZ 260 HORIZONTAL BANDSAW

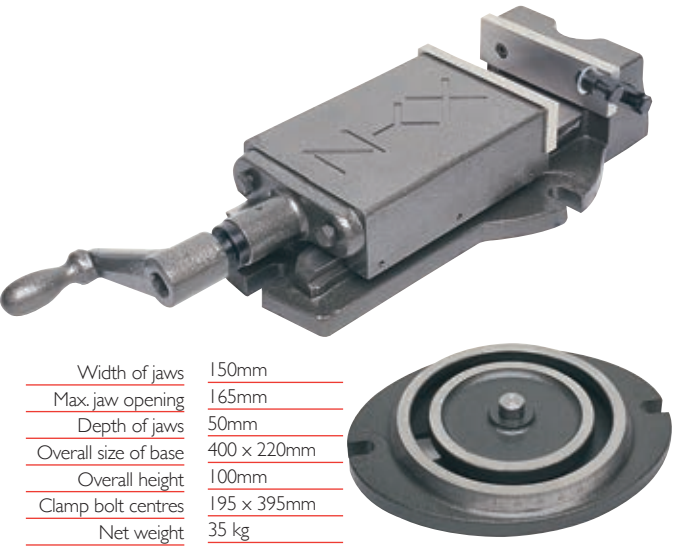
- Vertical guide arms carrying carbide faced guides.
- Fast & accurate blade tensioning.
- Standard blade size 25x3300mm.
- Conveniently placed controls.
- 90° - 45° mitering.

	XYZ 260
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 3300 mm
Machine size LxDxH	1680 x 737 x 1050 mm
Packing size	1730 x 760 x 1130 mm
Net weight	390 kg



A-TYPE MILLING VICE

High grade iron vice body. Low overall height. Adjustable positioner. Moving jaw runs in long prismatic slides with provision for new adjustment. Hardened & ground steel jaw plates. Enclosed ACME screw with phosphor bronze nut. Optional swivel base. Drop forged handle.

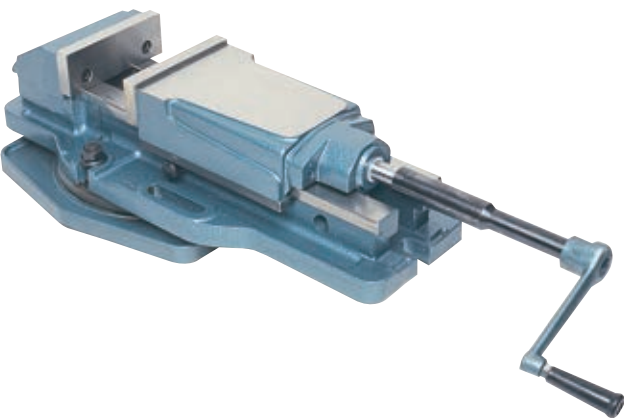


Width of jaws	150mm
Max jaw opening	165mm
Depth of jaws	50mm
Overall size of base	400 x 220mm
Overall height	100mm
Clamp bolt centres	195 x 395mm
Net weight	35 kg

12" HYDRAULIC MILLING VICE - 6" & 8" Jaw Width

12" opening. 6000Kg clampforce.

Rugged construction. Body is made of high quality ductile cast iron for extra rigidity. Sliding bedways flame hardened and ground. Concealed spindle for extra protection. Hydra booster system for extra clamping pressure. Quick action clamping. Optional swivel base. Draw down jaws.



TOOLING VOUCHERS

WNT (UK) Tooling Vouchers are available to purchase from XYZ giving additional discount plus the tooling voucher can be added to your capital purchase.

WNT (UK) Vouchers are available from £500 upwards.



52 PIECE STEEL CLAMPING KIT

Heat treated steel black oxide finish. Block size 25mm.

Set in steel rack consists of 24 Studs (75, 100, 125, 150, 175 & 200mm lengths), 6 x T-Nuts. 4 x Coupling nuts. 6 x Flange nuts. 6 x Step clamps and 6 x Step blocks. Can be wall mounted for tidy and compact storage.

	CK-14	CK-1816
Table slot	15.8 mm	18 mm
Stud size	M12	M16
G.W.	12.5 Kg	13 Kg



CNC 4TH AXIS

CNC 4th Axis for the XYZ VMC range.

For more information see pages 41 to 72.

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



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	35kg	50kg	50kg	60kg	60kg	100kg
Max Load Tilted	20kg	30kg	30kg	40kg	40kg	60kg
Max RPM Rotate Axis	41.6rpm	41.6rpm	41.6rpm	33.3rpm	33.3rpm	33.3rpm
Max RPM Tilt Axis	25rpm	16.6rpm	16.6rpm	16.6rpm	16.6rpm	16.6rpm
Max Clamping Torque Rotate	180Nm	280Nm	350Nm	450Nm	600Nm	900Nm
Max Clamping Torque Tilt	300Nm	500Nm	550Nm	800Nm	1200Nm	1200Nm
Weight	73kg	158kg	141kg	163kg	170kg	260kg

All dimensions in millimeters unless stated otherwise



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	120kg	160kg	200kg	250kg
Max Load Vertical	60kg	80kg	100kg	125kg
Max RPM	50rpm	41.6rpm	33.3rpm	33.3rpm
Max Clamping Torque	150Nm	310Nm	350Nm	600Nm
Weight	33kg	41kg	61kg	85kg

All dimensions in millimeters unless stated otherwise



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's 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 Machine Tools

XYZ across the UK

XYZ DEVON Main Factory and Administration

Woodlands Business Park, Burlescombe,
Tiverton, Devon. EX16 7LL

XYZ BLACKBURN

Thwaites Close, Shadsworth Industrial Estate,
Blackburn, Lancashire. BB1 2QQ

XYZ NUNEATON TECHNICAL CENTRE

5/6 Tungsten Court, Hemdale Business Park,
Nuneaton. CV11 6GZ

XYZ SHEFFIELD (WNT Showroom)

Sheffield Airport Business Park,
Europa Link, Sheffield. S9 1XU

XYZ LONDON

944 Yeovil Road, Slough Trading Estate.
Slough. SL1 4NH

XYZ HALIFAX

Opening Autumn 2019



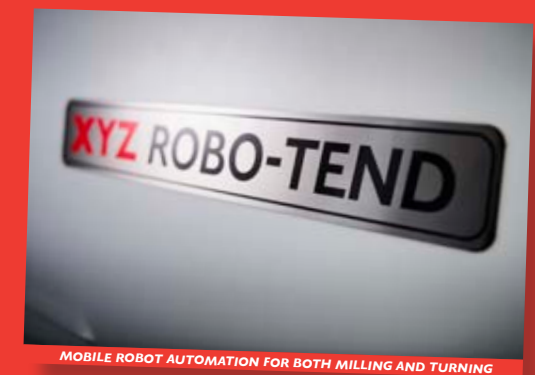
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Get the new Touchscreen ProtoTRAK control brochures, now with 24 new features. RMX for milling and RLX for turning.



XYZ ROBO-TEND **NEW**

To learn more about robotic automation get the new ROBO-TEND brochure. Automation for VMCs and TCs wherever and whenever needed.



MOBILE ROBOT AUTOMATION FOR BOTH MILLING AND TURNING

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