

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 LR's 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.

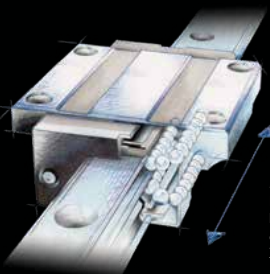
SIEMENS



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.

	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



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



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



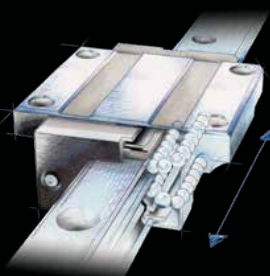
The XYZ 1600 LR gives you a competitive advantage on those bigger jobs.

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 MachineTools 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.**

	XYZ 500 LR
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 tool to tool	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.



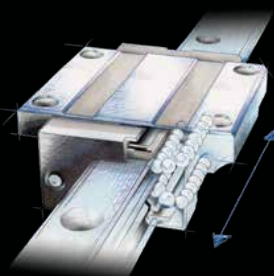
Standard Equipment

- 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.**

	XYZ 750 LR
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 <i>tool to tool</i>	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



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 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.

	XYZ 1600 LR
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 tool to tool	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.