

# XYZ TC 320 LTY

**SIEMENS**  
Touchscreen

**SPINDLE 32 kW / (43 HP)**  
**300 mm CHUCK (380 mm optional\*)**  
**91 mm SPINDLE BORE**  
**78 mm BAR CAPACITY**  
**3,300 rpm SPINDLE**  
**Live tooling**  
**100 mm Y axis**

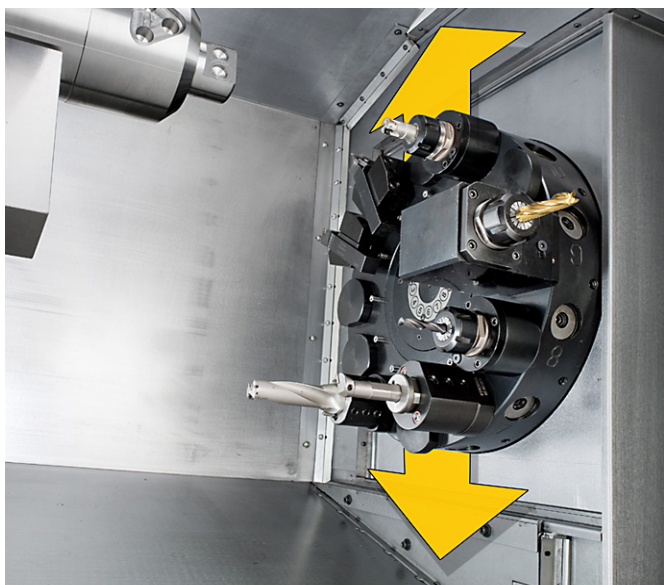


The **XYZ TC 320 LTY** packs a powerful productivity punch.

The **XYZ TC 320 LTY** is the largest y-axis turning centre in the XYZ range and provides users with exceptional capacity from a solid cast machine base.

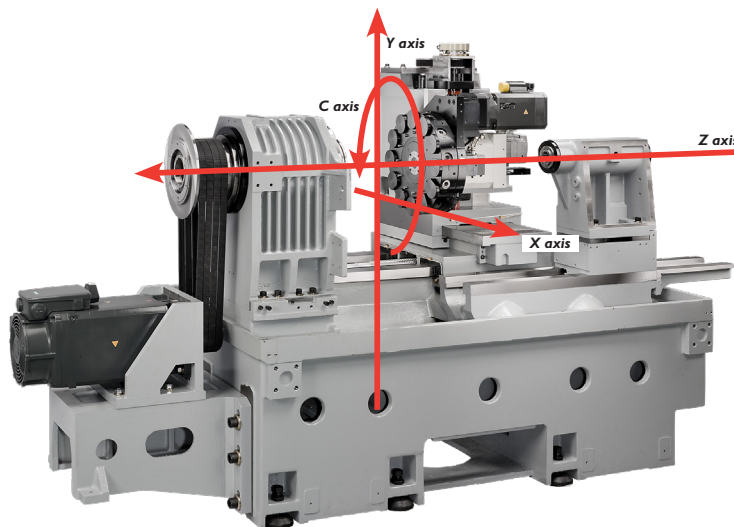
The addition of the 100 mm Y axis (+/-50 mm) adds a degree of versatility to the machine that allows many parts to be machined complete, increasing productivity significantly.

Added to this is the extensive list of standard equipment that makes the **XYZ TC 320 LTY** a highly competitive turning centre package. This list includes hydraulic chuck, 12-station (all live)VDI turret, Renishaw tool setting, swarf conveyor and the market leading Siemens 828D ShopTurn conversational control.



The 'Y' axis of the **XYZ TC 320 LTY** can travel 50mm above and below centreline (100mm total travel), making easy work of most components that would normally require milling and turning operations.

The **XYZ TC 320 LTY** is a solid cast machine with box ways that forms the base for precision turning and rigid milling.



For the full build specification of the XYZ Turning Centres see pages 19 and 20 of the **XYZ Turning Catalogue**.

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## Standard Equipment

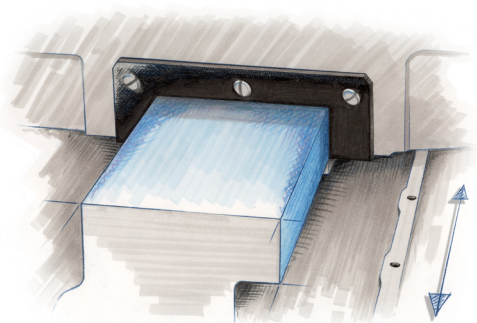
**Siemens 828D ShopTurn Touchscreen Control.**  
**PLC written by Siemens UK.**  
**Hydraulic 315 mm 3 Jaw Chuck.**  
**Sauter 'German' VDI Turret.**  
**Automatic Tool Setting Arm.**  
**Swarf Conveyor & Bin.**  
**VDI Turret.**  
**Full 'C' Axis.**  
**Live Tooling.**  
**100 mm Y axis.**  
**Programmable Hydraulic Tailstock.**  
**Through Tool and Flood Coolant.**  
**Remote Electronic Handwheel.**  
**USB Port.**  
**Networking.**

## Optional Equipment

**Parts Catcher.**  
**Collet Chuck.**  
**Bar Puller.**  
**LNS or Hydrafeed Bar Feed Systems.**  
**Offline Programming.**  
**Siemens CAD Reader.**  
**Contour Handwheel.**  
**Gear Hobbing.**  
**Polygon Turning.**  
**Advanced Swarf Management System.**

## With Hard Box Way slides

The **XYZ TC 320 LTY** features the latest in high quality Hard Box Way slide technology.



Part of the **XYZ Turning Catalogue** which includes:  
**ProtoTRAK® Lathes.**  
**Turning Centres.**  
**XL Extra Large Lathes.**  
**Oil Country Lathes.**  
**Mobile Robotic Automation.**  
**Manual Mills & Lathes.**  
**Grinders.**  
**Tooling & Accessories.**

	XYZ TC 320 LTY
Power chuck diameter	300 mm (380 mm optional*)
Maximum swing	450 mm
Swing over carriage cover	450 mm
Maximum turned diameter	320 mm
Maximum turned length	550 mm
X axis travel	270 mm
Y axis travel	100 mm ± 50 mm
Z axis travel	600 mm
Spindle centre height from floor	1,230 mm
Spindle nose	A2-8
Spindle bore	91 mm
Bar capacity	78 mm
Spindle front bearing internal dia	130 mm
Max spindle speed	3,300 rpm
Spindle motor	32 kW / (43 HP)
Min spindle speed for full power	1,500 rpm
X & Z axis rapid traverse rate	20 & 20 M/min
Y axis rapid traverse rate	15 M/min
X axis slideway configuration	Hardened box ways
Y axis slideway configuration	Hardened box ways
Z axis slideway configuration	Hardened box ways
Ballscrew diameter (X,Y & Z)	40 x 36 x 45 mm
Servo motors	16Nm
Turret diameter	440 mm
Tool type	VDI 40 (5480)
Number of tool stations	12
Turning tool shank dimensions	25 x 25 mm
Max. boring bar diameter	40 mm
Tailstock quill taper	MT5
Quill diameter and travel	95 x 125 mm
Max. quill thrust	2,300 kg
Coolant tank capacity	125 litre
Coolant pump delivery	16 L/min @ 4 Bar
Machine weight	6,950 kg
Footprint W x D x H approx with conveyor	3,700 x 2,320 x 2,030 mm

Conforming to ISO 13041	
Positional accuracy	+/- 5 microns
Repeatability	+/- 2 microns
Cutting accuracy over 100mm	10 microns
Geometric accuracy over 100mm	10 microns

## Live Tooling / C Axis

	XYZ TC 320 LTY
No. of stations	12, all live
Max rpm	4,500 rpm
Power 40% rating	6 kW
'C' axis resolution	0,001°



Visit [www.xyzmachinetools.com](http://www.xyzmachinetools.com) or the YouTube channel to see the video.