

Replace your old Hardinge HLV lathe for a new Cyclematic Lathe

SPECIFICATION

Spindle Capacity

With Chuck	150mm
With Expanding Collets	76mm
With Round 5C Collets	27mm
With Hexagon 5C Collets	22mm
With Square 5C Collets	19mm
With Step Chucks	27 ~ 152mm
Spindle Nose Diameter	Ø55.5mm
Spindle Nose I.D/O.D	5C (10°) / 4° Taper
Spindle Speeds (Variable)	50-4,000rpm (5C) / 50-3,000rpm (with 150mm 3- jaw chuck)
Inverter Spindle Motor	3 HP
Hole Through Spindle	31.75mm
Bar stock diameter (5C collet)	Ø27mm
Distance Between Centers	457mm
Swing Over Bed	280mm
Swing Over Carriage	230mm
Swing Over Cross Slide	152mm
Carriage Power Feed Range (Variable)	8~178mm
Cross Slide Power Feed Range (Variable)	5~102mm
Cross Slide Travel	152mm
Quick-action Compound Slide Travel	2.5mm
Compound Slide Travel	76mm
Tailstock spindle diameter	Ø34.5mm
Tailstock spindle taper	MT #2
Tailstock spindle travel	95mm
Coolant pump	1/8HP / 220V / 3PH
Feed inverter	1/2HP
Range of Threads	0.275 ~2.7mm (11~108 TPI)
Main motor	3 HP, 400V
AC feed motor	220V

Linear Cyclematic CTL618EVS High Precision Toolroom Centre Lathe

Net/Gross weight	1100 / 1200 kgs
Machine packing dimension	2000 × 850 × 1900mm

Machine equipped with

Mitutoyo KA 200 2 Axis Digital Readout System

Collet closer

Infinitely variable spindle speeds

Single toolpost

Dual metric/imperial reading dials

Halogen light

Coolant system

Spindle guards



[Click here](#) to watch the video on the CTL-618e (with Digital Threading unit) and the CTL-618evs

Built around the proven spindle design and gripping on the taper of a 5C collet, with the correct work holding solution, a guaranteed circular accuracy (TIR) of up to 0.00125mm (50 millionths inch) is achievable.

The spindle design provides both collet and chuck ready without the need for any spindle adaptors. Offering such a highly accurate TIR, the collet sits directly in the spindle of the Cyclematic machine. This provides the minimum of excessive overhang from the machine's spindle headstock bearings ensuring up to 0.00125mm circular accuracy.

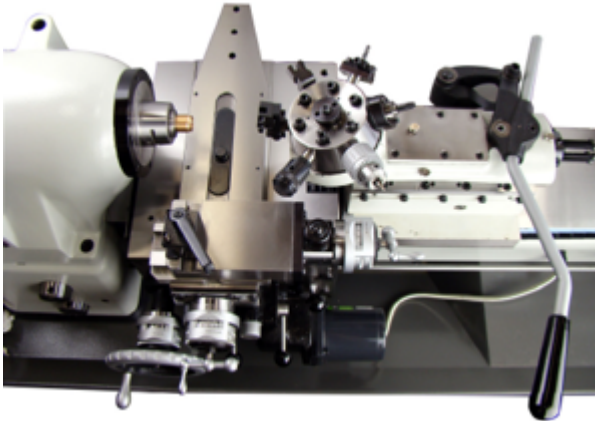
- The ultimate in maximum spindle rigidity with a high percentage of the collet gripping the workpiece.
- The least amount of spindle deflection as a result of the collet being located so close to the spindle bearings.
- Wide range headstock with upto 4000rpm available on the collet (3000rpm with 3 jaw chuck).
- Outstanding surface finish and high accuracy of machined components.

Extensive range of machine options for work and tool holding:

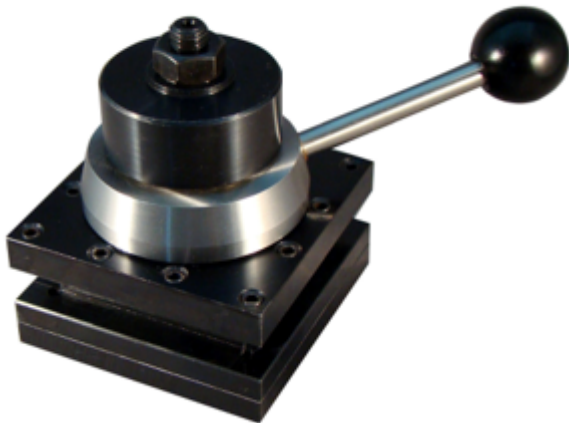


Step Chuck Collets: Step Chuck collets allow for components of up to 127mm to be clamped and machined for increased machining accuracy. Also available in 'Extra depth' style

collets.



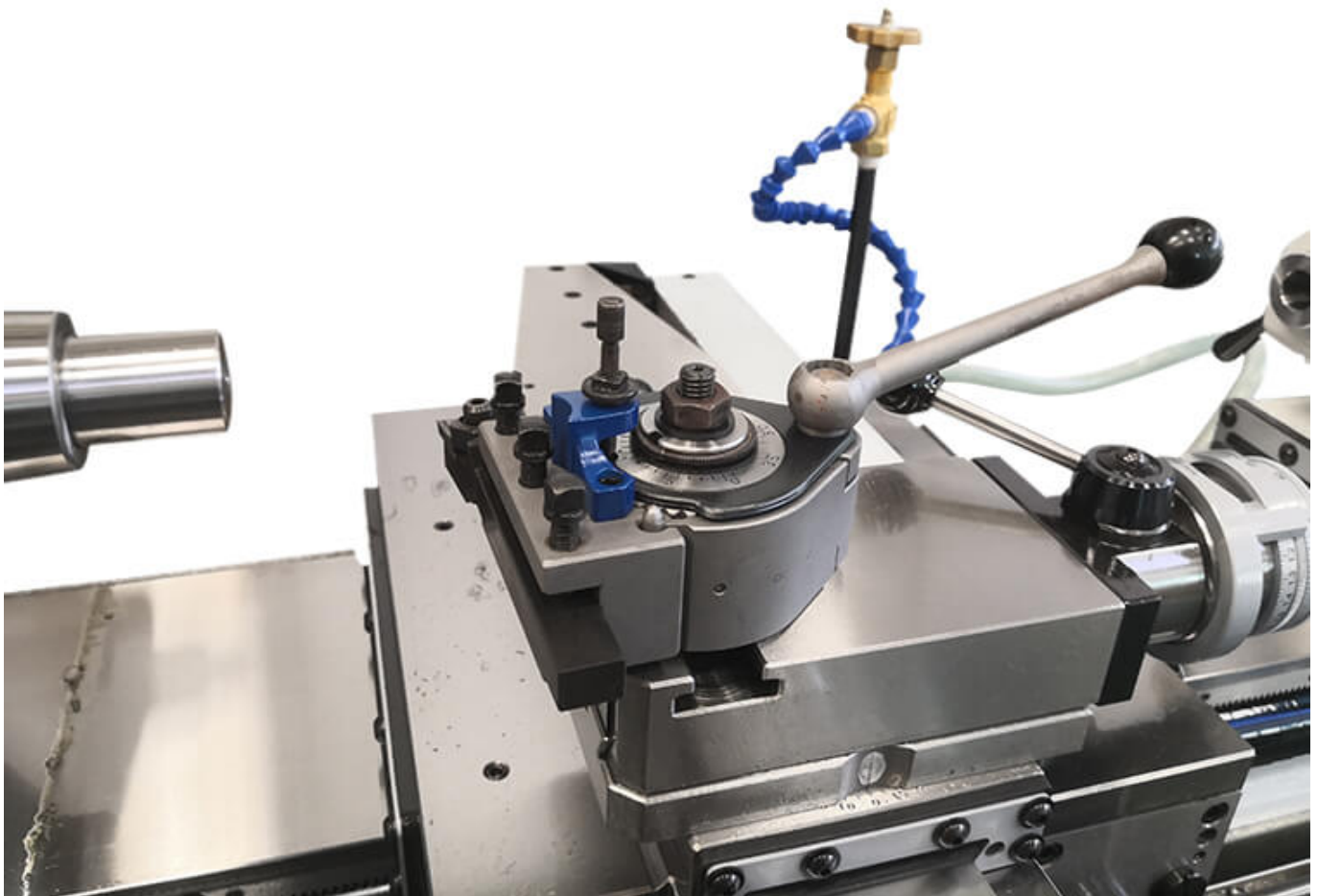
Six Station Turret:
The turret tool holder diameter 16mm
slide travel 9mm.



Automatic Indexing Turret:
The square turret is applied directly to the tool
post
T-slot of the compound slide. The turret takes
standard 10mm square shank tooling. By a

Linear Cyclematic CTL618EVS High Precision Toolroom Centre Lathe

simple movement of the ball-handled lever, the turret is automatically unlocked, indexed to the next tool position, and relocked, ready for the next machining operation.



Multifix Quick Change Toolpost option:
Providing high levels of tooling compatibility.

Super precision lathes to replace the Hardinge HLV lathe you use.