



Visit Our Web Site at [www.usindustrial.com](http://www.usindustrial.com)

**ONE (1) NEW U.S. INDUSTRIAL 16" X 40" PRECISION GEARED HEAD ENGINE LATHE  
MODEL USL1640** *Spindle bore will pass 3"*

This precision, **heavy duty geared head engine lathe** incorporates hardened and precision ground bedways on longitudinal and cross ways, and wide, precision ground gears. It has a gap-bed design, feed-rod/lead screw safety interlock system, weight bearing tailstock and forward/reverse levers at both the aprons and the head stock.

As with all U.S. Industrial lathes, it comes with a plethora of standard accessories, 3 and 4-jaw chucks, follower and steady rests, work lamp, a coolant system and an operator/service manual.

**Standard Equipment: (Items below are INCLUDED with the machine)**

- 10" 3-jaw Chuck. Universal, Self-centering
- 12" 4-Jaw Independent Chuck
- Steady Rest
- 4-Way Toolpost
- Micrometer Carriage Stop
- Thread Dial
- Work Lamp
- Flood Coolant System
- Sino 2-axis digital readout inch/metric *(installed)*
- 15" Face Plate & Dog Plate
- Foot Brake with microswitch
- Follow Rest
- Safety Chuck Shield
- Taper Attachment *(installed)*
- Large Spindle Bore to pass 3"
- Full Length Backsplash
- Slide-out Chip Pan
- Manual with test certificate

- Inch/metric Reading Dials on Apron, Cross-Slide and Compound

**U.S.**



## INDUSTRIAL MACHINERY

P.O. BOX 2098

MEMPHIS, TN 38101

PHONE: (800) 860-1850

FAX: (901) 526-2339 Visit

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### Specifications and important information:

Swing Over Bed  
Swing Over Cross-Slide  
Swing Over Gap  
Gap Length  
Maximum Workpiece Length  
Spindle Bore

Spindle Type  
15 Spindle Speeds  
66 Longitudinal Feeds  
66 Cross Feeds  
66 Metric Threads  
66 Inch Threads  
33 Module Threads  
33 Diametral Pitch Threads

|                          |                               |
|--------------------------|-------------------------------|
| Compound Rest Travel     | .0027 to .15 IPR              |
| Cross-Slide Travel       | .00135 to .075 IPR            |
| Tailstock Taper          | 0.5 to 28mm                   |
| Tailstock Spindle Travel | 1 to 56 TPI                   |
| Main Motor HP            | 0.5 to                        |
| Coolant Pump Motor       | 3.5mm                         |
| Lathe Gross Weight       | 8 to 56                       |
| Dimensions               | DP                            |
| 16.53" (420mm)           | 5.119" (130mm)                |
| 8.85" (225mm)            | 12" (305mm)                   |
| 21.65" (550mm)           | No. 5 Morse Taper             |
| 10.23" (260mm)           | 4.72" (120mm)                 |
| 39.37" (1000mm)          | 10 HP (7.5 kw) 220V or 440V,  |
| 3.15" (80mm)             | 3-Phase Fractional HP 3,900   |
| D1-8 Camlock             | lbs.                          |
| 24 to 1600 RPM           | 100" long, 48" wide, 60" tall |

**AVAILABLE OPTIONS:**

Quick Change Toolpost Kit with Holders.....  
ISO Cutting Tool Package.....

**(QCTP13-16)**  
**(ISOSET16)**

We await your reply and thank you for this opportunity to quote.

Sincerely,

U.S. INDUSTRIAL MACHINERY

October 2022

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*Detail of Headstock, chuck and guard*

*Detail of Apron, digital readout and  
tailstock*

October 2022



## QUICK CHANGE TOOLPOST OPTION – (Replaces standard four-way toolpost)

Thank you for the opportunity to quote. We are pleased to offer the following equipment for your consideration:

### **ONE – NEW QUICK CHANGE TOOLPOST WITH FIVE HOLDERS, FOR FACTORY ONLY INSTALL ON USL SERIES LATHES**

**Note: We use the wedge style, #333 for our Lathes. This comes with  
Part off holder, knurling holder, boring bar holder, and two ¾" SS holders**

**This is custom installation AND not available after machine ships. Must  
be installed on lathe at time of order, prior to shipping.**

Extra holders

### QUICK CHANGE QC TOOL POST SETS

"Phase II quick change QC tool post sets advanced design provides built-in quick tool changing versatility with positive rigidity to meet the most exacting working tolerances.

Quickly and easily installed on an engine bench or turret lathe Phase II quick change QC tool post sets perform a wide range of operations from fine precise work to heavy duty cutting.

All parts are hardened, ground and completely sealed for maintenance free operation.

Maximum rigidity for chatter free performance.

Phase II quick change QC tool post sets are interchangeable with all industry leading brands by series."

**EACH SET CONSISTS OF ONE TOOLPOST AND 5 HOLDERS, ONE OF EACH STYLE, #1, 2, 4, 7 AND 15.**

#### PISTON TOOLPOST SETS

| STOCK # | SWING  |
|---------|--------|
| 250-100 | 8-12"  |
| 250-200 | 10-23" |
| 250-300 | 13-30" |
| 250-400 | 14-20" |

#### WEDGE TOOLPOST SETS

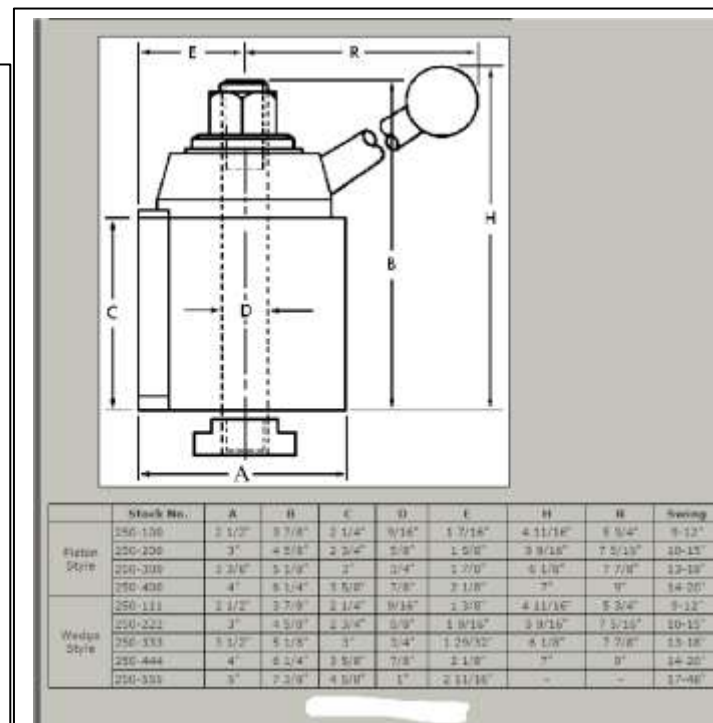
| STOCK # | SWING  |
|---------|--------|
| 250-111 | 9-12"  |
| 250-222 | 10-23" |
| 250-333 | 13-18" |
| 250-444 | 14-20" |
| 250-555 | 17-33" |

**Quick Change QC Tool Post Features:**

- No chatter or vibration
- Quick swap of tools
- No Shims
- Guaranteed Repeatability

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## **Cutting Tool Package for U.S. Industrial Lathes:**

This optional cutting tool package is designed to fit our QUICK CHANGE TOOLPOST option. It is not for the standard 4-way toolpost.

Tools included below are for:

- Rough and medium finishing of the part OD. Fine finish of the part ID
- Left- and right-hand tools for working left and right hand shoulders
- Tools for threading OD and ID                      Tools for boring the ID
- Part off tools    And more.....

List of carbide cutting tools in KIT for US INDUSTRIAL LATHE: (ISO tools are imports.)

Note: Tools for 13", 16", 20" and 26" Lathes will be  $\frac{3}{4}$ " square shank

Note: Customer MUST purchase option, OUR QC Toolpost set for install prior to shipping:

1. MW LN-R,  $\frac{3}{4}$ " square, triangle insert, right hand.....
2. MW LN-L,  $\frac{3}{4}$ " square, triangle insert, left hand.....
3. Box of 10 W NMG inserts for above.....
4. MCLN-R,  $\frac{3}{4}$ " square, diamond insert, right hand.....
5. MCLN-L,  $\frac{3}{4}$ " square, diamond insert, left hand.....
6. Box of 10 CNMG inserts for above.....
7. MVJN-R,  $\frac{3}{4}$ " square, diamond insert, fine finish, right hand.....
8. MVJN-L,  $\frac{3}{4}$ " square, diamond insert, fine finish, left hand.....
9. Box of 10 VNMG inserts,  $\frac{1}{64}$ " nose radius.....
10. SER-0750-SET,  $\frac{3}{4}$ " square, for threading OD, with inserts.....  
(This is a KIT and includes threading inserts.)
11. SIR-0750-SET,  $\frac{3}{4}$ " round, for threading ID, with inserts.....  
(This is a KIT and includes threading inserts.)
12. SCLCR-SET, Boring bars, .315", 3/8", 1/2", 5/8",  $\frac{3}{4}$ " bars, with inserts..... (This is a KIT and includes inserts.)
13. RH-MCLN, Boring bar, 1" diameter, 12" long.....
14. Use inserts in Item No. 6, CNMG.....
15. HSS Blade for part-off holder, high speed steel..... Block, blade and  
10 self-lock carbide parting/grooving inserts.....
16. Arbor and key chuck for tailstock.....
17. Live center for tailstock.....
18. Semi-synthetic coolant concentrate, 1 gallon.....

