

# U.S. INDUSTRIAL MACHINERY

P.O. BOX 2098

MEMPHIS, TN 38101

PHONE: (800) 860-1850

FAX: (901) 526-2339

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

Dear Customer:

We are pleased to offer for your consideration:

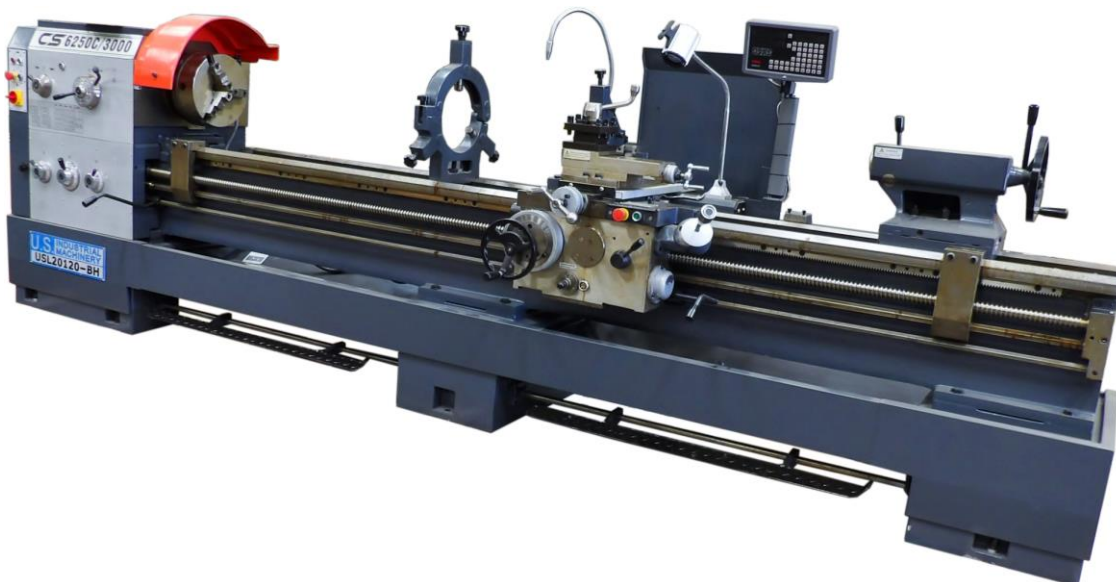
## ONE (1) NEW U.S. INDUSTRIAL 20" X 120" PRECISION GEARED HEAD ENGINE LATHE MODEL USL20X120BH-KIT *Spindle bore will pass 4".*

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, 4-way rapid travel, work lamp, a coolant system and an operator/service manual.

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

- 12" 3-Jaw Chuck. Universal, Self-centering
- 16" 4-Jaw Independent Chuck
- Steady Rest
- 4-way Toolpost
- Thread Dial
- Work Lamp
- Flood Coolant System
- Sino 2-Axis Digital Readout inch/metric ***(installed)***
- Inch Reading Dials on Apron, Cross-Slide and Compound
- Manual with test certificate
- 25" Face Plate & Dog Plate
- Foot Brake with Microswitch
- Follow Rest
- 4-Way Rapid Travel
- Safety Chuck Shield
- Taper Attachment ***(installed)***
- Large Spindle Bore to pass 4"
- Traveling Backsplash Behind Apron
- Slide Out Chip Pan



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## Specifications and important information:

Swing Over Bed	19.7" (500mm)
Swing Over Cross-Slide	11.8" (300mm)
Swing Over Gap	28" (710mm)
Gap Length	9.44" (240mm)
Maximum Workpiece Length with 3-jaw chuck	118" (3000mm) 116" (2950mm)
Maximum Turning Length	4.134" (105mm)
Spindle Bore	D1-8 Camlock
Spindle Type	36 to 1600 RPM
12 Spindle Speeds	.0023 to .0937 IPR
65 Longitudinal Feeds	.0011 to .0404 IPR
65 Cross Feeds	1 to 14mm
22 Metric Threads	2 to 28 TPI
27 Inch Threads	0.5 to 7mm
18 Module Threads	4 to 56 DP
24 Diametral Pitch Threads	5.75"
Compound Rest Travel	12.125"
Cross-Slide Travel	No. 5 Morse Taper
Tailstock Taper	5.906" (150mm)
Tailstock Spindle Travel	2.953" (75mm)
Tailstock Spindle Diameter	10 HP (7 kw) 220V or 440V, 3-Phase
Main Motor HP	0.4 HP
Rapid Feed Motor	.16 HP, 11 gallons per minute
Coolant Pump Motor	7,700 lbs.
Lathe Gross Weight	183" long, 40" wide, 50" tall
Dimensions	

**PRICE.....With digital readout and taper attachment.....F.O.B. MEMPHIS.....\$ 32,990.00  
(Order Model Number: USL20X120BH-KIT)**

## AVAILABLE OPTIONS:

Quick Change Toolpost Kit with Holders.....	<b>\$ 995.00 See page 4 for detail of this option</b>
ISO Cutting Tool Package.....	<b>\$2,495.00 See page 5 for detail of this option</b>

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

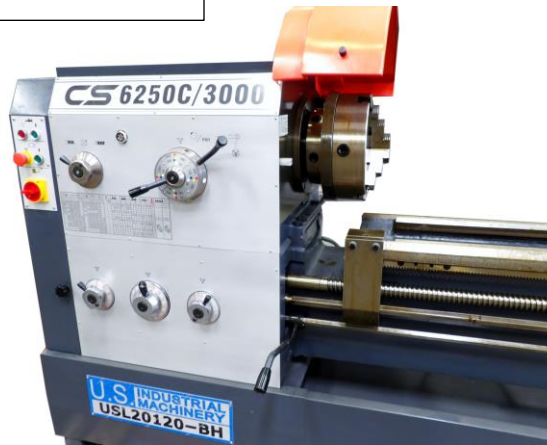
Sincerely,

U.S. Industrial Machinery

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Detail of Headstock

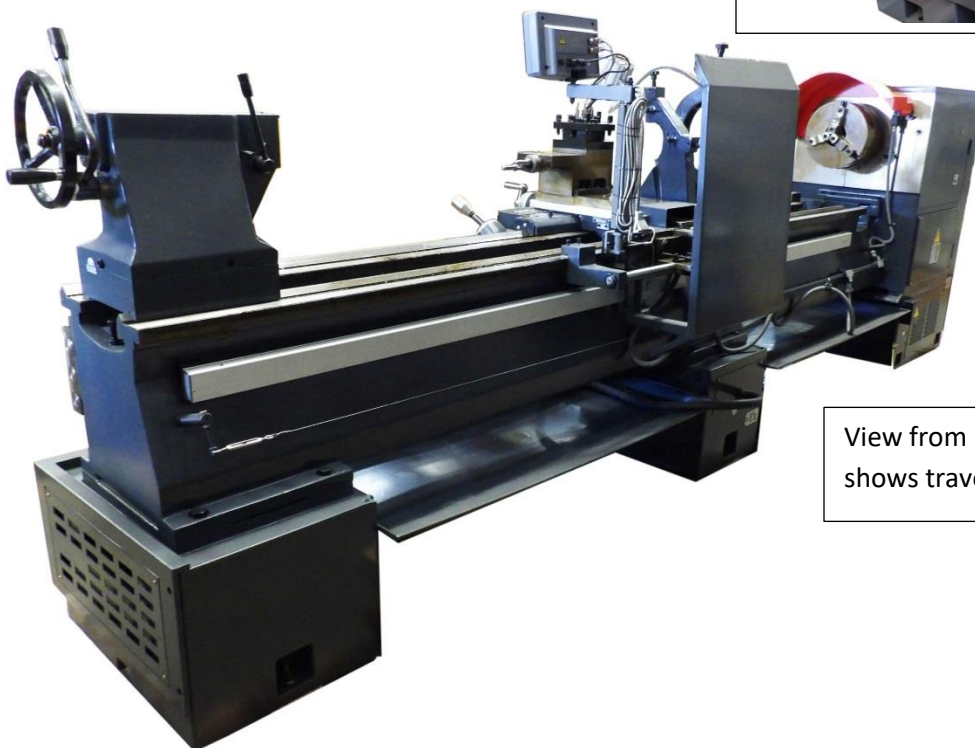
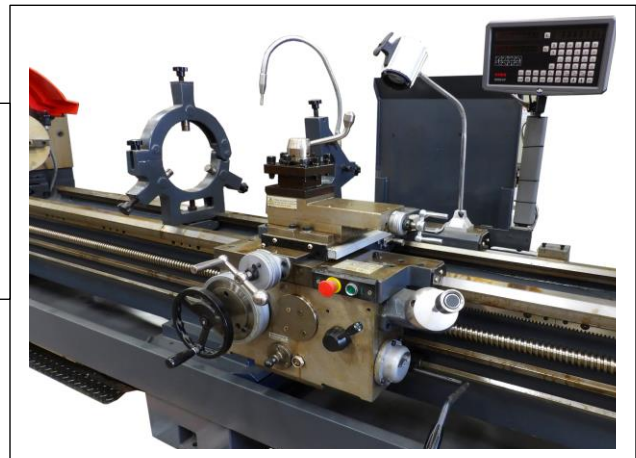


Standard Accessories included with Lathe.



Also includes steady rest, follow rest, 3-jaw chuck, and 2-axis DRO  
See pic on Page 1.

Apron with travelling digital readout display, follow rest, steady rest, taper attachment, rapid travels.



View from back of lathe shows travelling backslash.

**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 3/4" SS holders**

**Price.....F.O.B. Memphis.....\$ 995.00  
(This ships only installed on lathe.)**

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

Extra holders are \$ 75.00 each.

**QUICK CHANGE QC TOOL POST SETS**

"Phase II quick change QC tool post sets advanced design provides built-in quick 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 10.**

PISTON TOOLPOST SETS	
STOCK #	SWING
251-100	9-12"
251-200	10-15"
251-300	13-18"
251-400	14-20"

WEDGE TOOLPOST SETS	
STOCK #	SWING
251-111	9-12"
251-222	10-15"
251-333	13-18"
251-444	14-20"
251-555	17-32"

**Quick Change QC Tool Post Features:**

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

[Back to Product Listing](#)

	Stock No.	A	B	C	D	E	H	R	Swing
Piston Style	250-100	2 1/2"	3 7/8"	2 1/4"	9/16"	1 7/16"	4 11/16"	5 3/4"	9-12"
	250-200	3"	4 5/8"	2 3/4"	5/8"	1 5/8"	5 9/16"	7 5/16"	10-15"
	250-300	3 3/8"	5 1/8"	3"	3/4"	1 7/8"	6 1/8"	7 7/8"	13-18"
	250-400	4"	6 1/4"	3 5/8"	7/8"	2 1/8"	7"	9"	14-20"
Wedge Style	250-111	2 1/2"	3 7/8"	2 1/4"	9/16"	1 3/8"	4 11/16"	5 3/4"	9-12"
	250-222	3"	4 5/8"	2 3/4"	5/8"	1 9/16"	5 9/16"	7 5/16"	10-15"
	250-333	3 1/2"	5 1/8"	3"	3/4"	1 29/32"	6 1/8"	7 7/8"	13-18"
	250-444	4"	6 1/4"	3 5/8"	7/8"	2 1/8"	7"	9"	14-20"
	250-555	5"	7 3/8"	4 5/8"	1"	2 11/16"	-	-	17-48"

## 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.
  - Left- and right-hand tools for working left and right hand shoulders
  - Tools for threading OD and ID
  - Part off tools
- Fine finish of the part ID  
Tools for boring the ID  
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 3/4" square shank

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

- 1 MWLN-R, 3/4" square, triangle insert, right hand.....
- 2 MWLN-L, 3/4" square, triangle insert, left hand.....
- 3 Box of 10 WNMG inserts for above.....
  
- 4 MCLN-R, 3/4" square, diamond insert, right hand.....
- 5 MCLN-L, 3/4" square, diamond insert, left hand.....
- 6 Box of 10 CNMG inserts for above.....
  
- 7 MVJN-R, 3/4" square, diamond insert, fine finish, right hand.....
- 8 MVJN-L, 3/4" square, diamond insert, fine finish, left hand.....
- 9 Box of 10 VNMG inserts, 1/64" nose radius.....
  
- 10 .SER-0750-SET, 3/4" square, for threading OD, with inserts.....  
(This is a KIT and includes threading inserts.)
  
11. SIR-0750-SET, 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", 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.....
  
- Set price.....\$ 2,495.00**