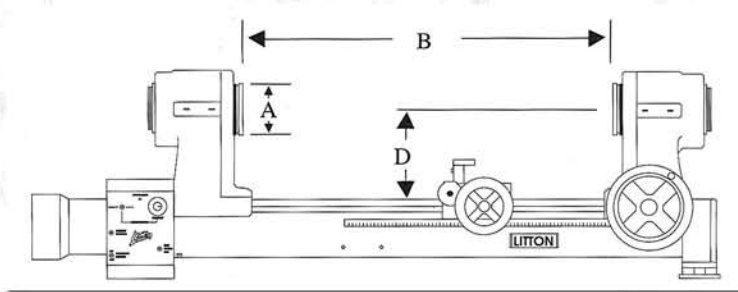


Litton

**ENGINEERING
LABORATORIES**

Quality, Precision Alignment



**Bench lathes
Chucks
Burners
Refurbishing**

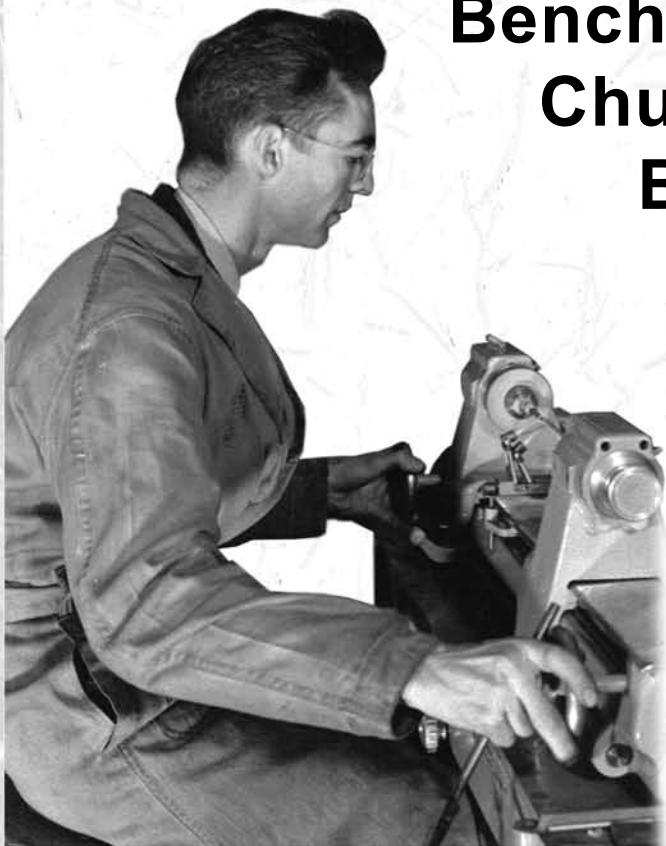


photo: Charles Litton Sr.

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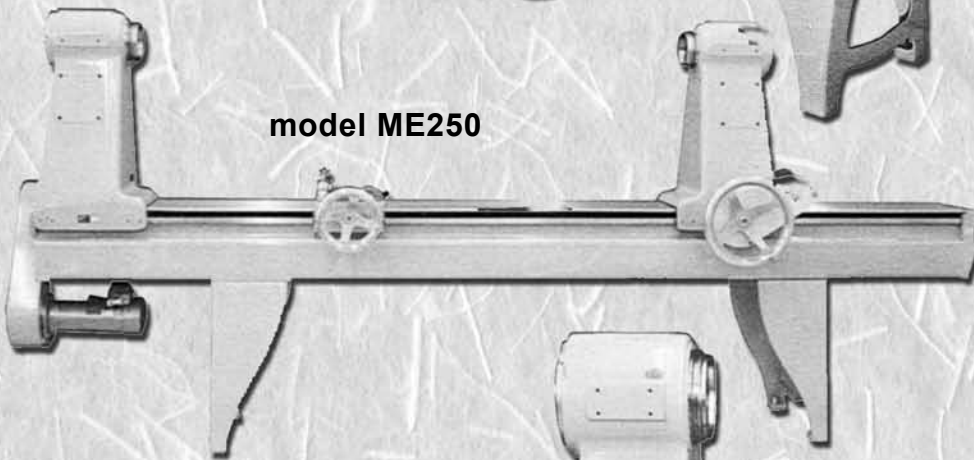
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ENGINEERING
LABORATORIES

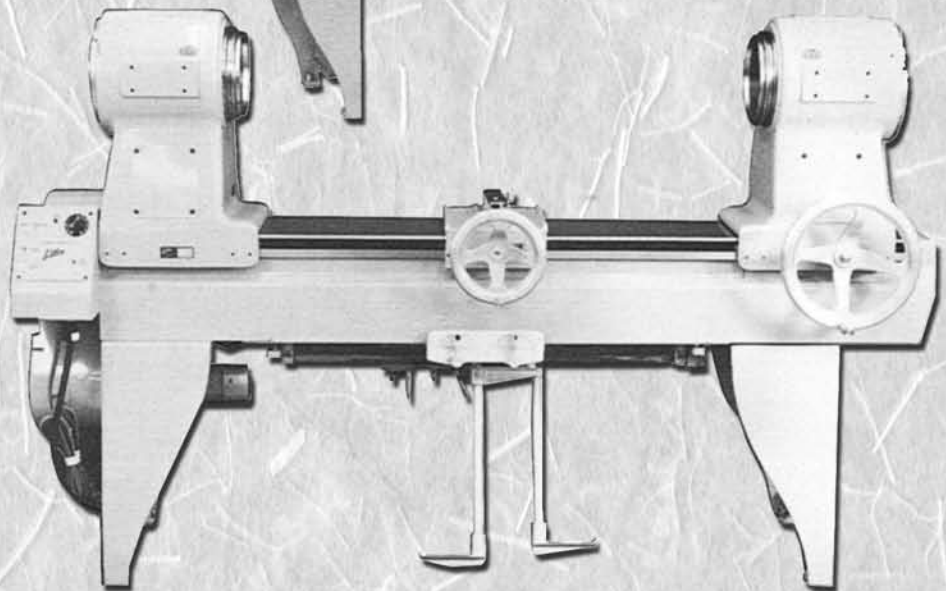

We welcome you to...
LITTON ENGINEERING LABORATORIES
Home of the very *Finest* in...
GLASSWORKING LATHES & ACCESSORIES



model EE171
with valve



model ME250



model ESA120
with valve

Floor Model Lathes

E series

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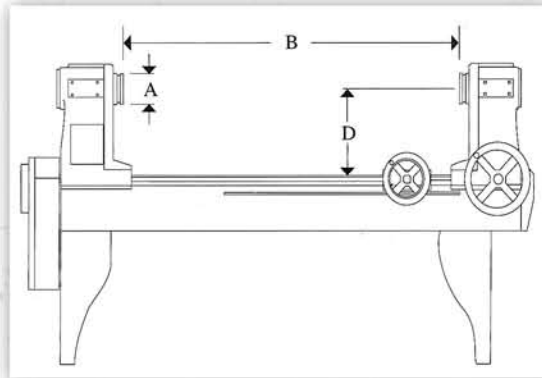
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E Floor Model Lathe Specifications

A = Spindle Bore Diameter

B = Maximum Length, Spindle
Nose to Spindle Nose

D = Radial Clearance Above
Heat Shield



Floor Lathe Model	A	B	D	Spindle Speed RPM
EE125	98 mm 3-7/8"	1251 mm 49-1/4"	349 mm 13-3/4"	5 - 270
EE171	98 mm 3-7/8"	1708 mm 67-1/4"	349 mm 13-3/4"	5 - 270
EE199	98 mm 3-7/8"	1988 mm 78-1/4"	349 mm 13-3/4"	5 - 270
EE227	98 mm 3-7/8"	2267 mm 89-1/4"	349 mm 13-3/4"	5 - 100
EE255	98 mm 3-7/8"	2546 mm 100-1/4"	349 mm 13-3/4"	5 - 100
EE283	98 mm 3-7/8"	2826 mm 111-1/4"	349 mm 13-3/4"	5 - 100

Floor Lathe Model	A	B	D	Spindle Speed RPM
ME120	98 mm 3-7/8"	1200 mm 47-1/4"	540 mm 21-1/4"	5 - 270
ME166	98 mm 3-7/8"	1656 mm 65-1/4"	540 mm 21-1/4"	5 - 270
ME194	98 mm 3-7/8"	1937 mm 76-1/4"	540 mm 21-1/4"	5 - 270
ME222	98 mm 3-7/8"	2216 mm 87-1/4"	540 mm 21-1/4"	5 - 100
ME250	98 mm 3-7/8"	2495 mm 98-1/4"	540 mm 21-1/4"	5 - 100
ME278	98 mm 3-7/8"	2775 mm 109-1/4"	540 mm 21-1/4"	5 - 100

ESA120	184 mm 7-1/4"	1200 mm 47-1/4"	349 mm 13-3/4"	5 - 165
ESA166	184 mm 7-1/4"	1656 mm 65-1/4"	349 mm 13-3/4"	5 - 165
ESA194	184 mm 7-1/4"	1937 mm 76-1/4"	349 mm 13-3/4"	5 - 165
ESA222	184 mm 7-1/4"	2216 mm 87-1/4"	349 mm 13-3/4"	5 - 60
ESA250	184 mm 7-1/4"	2495 mm 98-1/4"	349 mm 13-3/4"	5 - 60
ESA278	184 mm 7-1/4"	2775 mm 109-1/4"	349 mm 13-3/4"	5 - 60

ESB119	209 mm 8-1/4"	1187 mm 46-3/4"	349 mm 13-3/4"	5 - 120
ESB165	209 mm 8-1/4"	1645 mm 64-3/4"	349 mm 13-3/4"	5 - 120
ESB192	209 mm 8-1/4"	1924 mm 75-3/4"	349 mm 13-3/4"	5 - 120
ESB220	209 mm 8-1/4"	2203 mm 86-3/4"	349 mm 13-3/4"	5 - 50
ESB248	209 mm 8-1/4"	2483 mm 97-3/4"	349 mm 13-3/4"	5 - 50
ESB276	209 mm 8-1/4"	2762 mm 108-3/4"	349 mm 13-3/4"	5 - 50

Electrical Supply Required: 110 - 120V AC, 50 - 60 Hz Single Phase

Floor Model Lathes

Fine quality Litton floor model lathes feature precision alignment. E Series lathes have the same fire carriage and drive configurations. Infinitely variable timing belt drives have: spindle On/Off, speed and direction controls: jog switch for spindles: and sockets which allow connection of remote control devices for control of spindle On/Off and speed functions. An optional tail stock spindle On/Off feature is available for the shorter models.

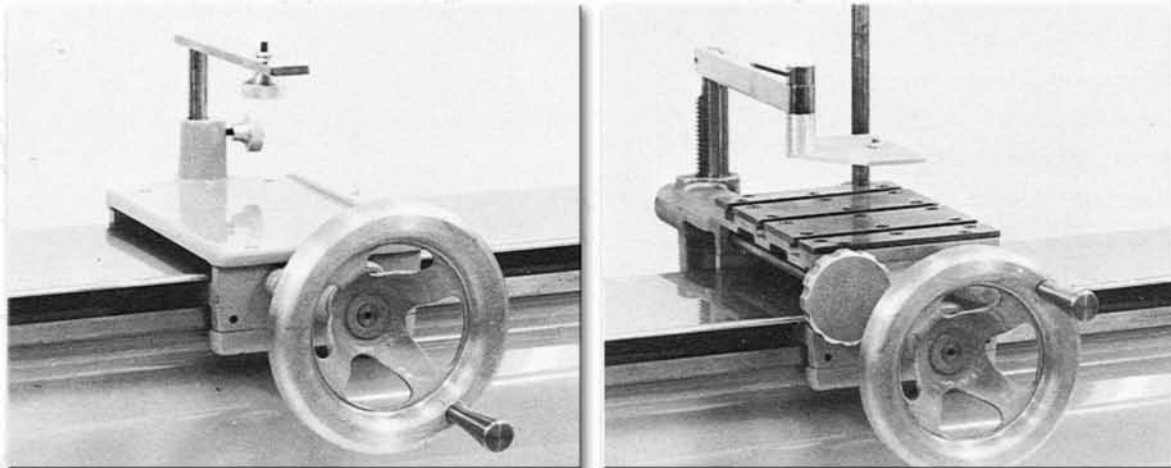
E Series lathes vary in spindle bore diameter and in radial clearance above the heat shield. Six bed lengths are available for each model. Lathe bed scales are standard on all models. Motorized fire carriage and tail stock options are available.

Lathe spindles contain seals which make it possible to apply air pressure to the work through the spindles. Litton also offers an optional Swivel/Stop System which delivers both pressure and vacuum directly to the work. This system will accommodate different sized stoppers which are easily change to accommodate varied glass sizes.

Options

Burner Mount & Firecarriage Covers

Pictured to the left is a standard fire carriage and burner mount. Pictured to the right is a fire carriage with an optional T-slot fire carriage cover and rack and pinion burner mount; the latter allows vertical adjustment of the burner by merely turning a conveniently located know. Also included in the assembly is an auxiliary mounting bar for mounting additional accessories. Both burner mount and fire carriage cover are to be specified when lathes are purchased.



Valves

Litton offers three types of valves which control both the volume and proportion of gas and oxygen to burners: a rotary cock gas-oxy proportioner, volume control and spindle air control valve; a piston type gas-oxy proportioner, volume control valve; and a rotary cock spindle air and vacuum control valve.

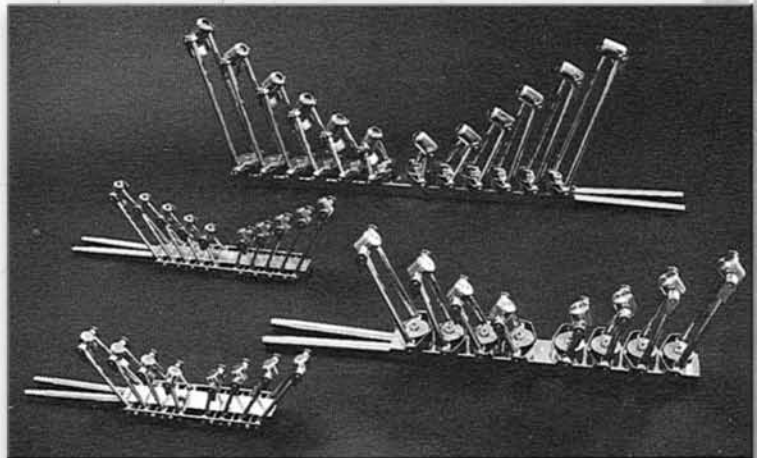
Chucks

To complete the versatility of Litton Lathers, a variety of chucks are available. Outboard spindle nose adaptors (OBSNA) mount to the outboard side of the spindle. They permit chucks to be mounted to the rear of the spindle. Guiding Chucks mount tot the outboard side of the spindle to guide pieces of tubing that extend through the spindle. The following chucks can be purchased for E series lathes:

- **Burners**
- **Drill**
- **Scroll**
- **3-Jaw**
- **6-Jaw**
- **4 Jaw**
- **Guiding**

Burners

Litton cradle burners are offered in standard and swivel configurations. Ring configurations are also available bur are not pictured All burners are surface mix and can be purchased constructed of chromium plated brass or stainless steel. Annealing and hand torches are also available.





**Standard Drive
for E or K**



Fiber Preform Lathe



**ESA 120
with valve & foot pedal**

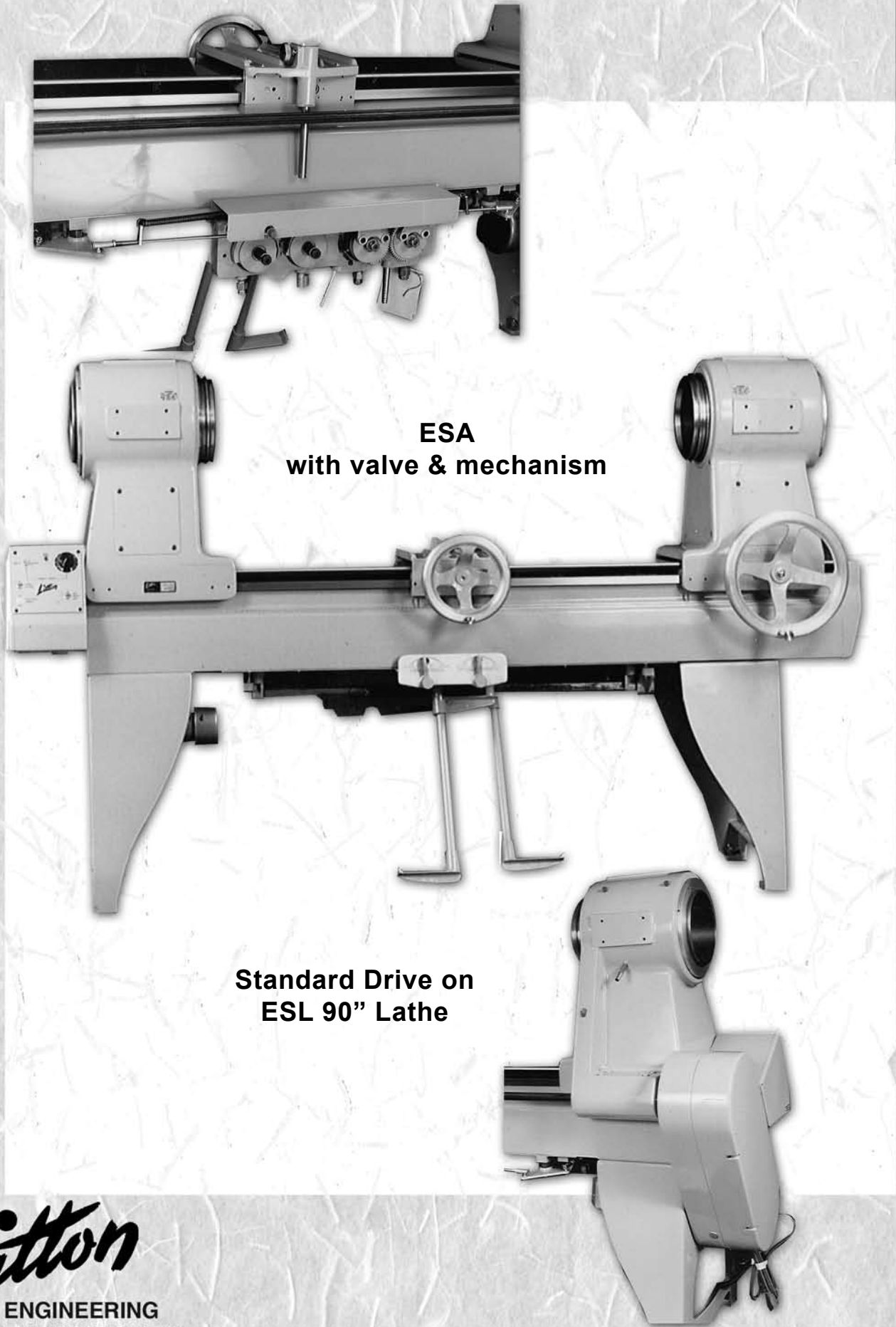
**FLOOR MODEL
LATHES**

**ME Lathe
with valve & coaxial drive**



**ESL 90" Lathe
with valve & coaxial drive
Tall Legs**

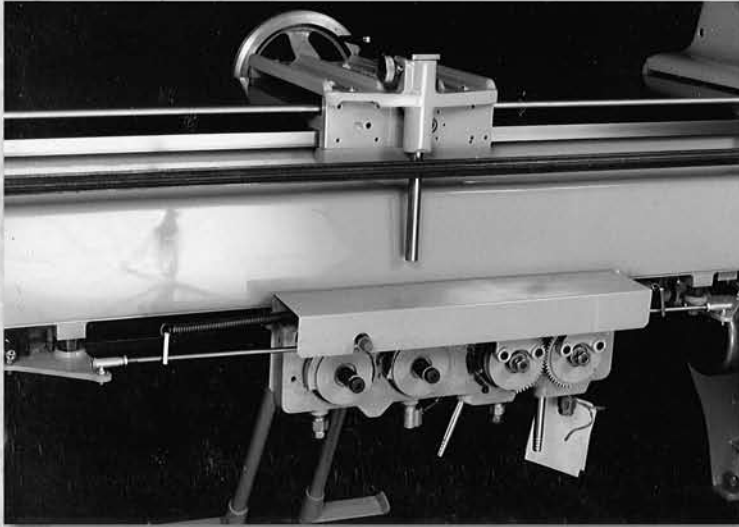




**ESA
with valve & mechanism**

**Standard Drive on
ESL 90" Lathe**

Front view of Standard Drive on
ESL 90" Lathe



Rotary Cock Valve 'EE'

ESA

