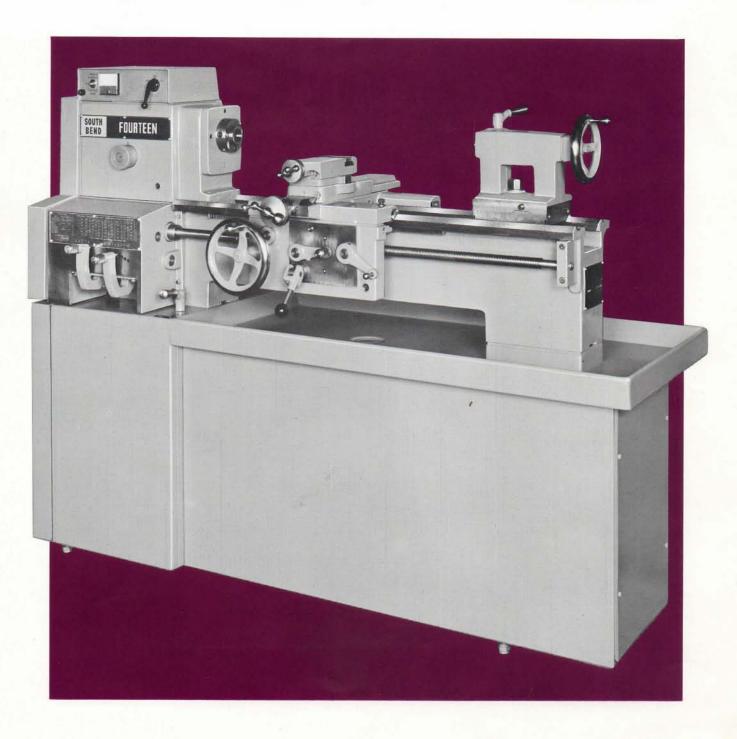


BUILDERS







## NOW

## a new style design that makes all other lathes old-fashioned...here's why:

## BETTER FINISHES

- ... because vibration has been eliminated from the headstock by positioning the entire drive system in the base of the lathe.
- ... because heat build-up has been eliminated from the headstock by locating the heavy cut power range gearing in a transmission in the base of the machine.
- ... because you get infinitely variable speeds and there is no gap between the high and low spindle speed ranges.
- ... because the 3" D-1 cam lock spindle is dynamically balanced and supported by two extremely large precision tapered roller bearings for greater stability.

#### BETTER ROUGHING ABILITY

- ... because the variable speed drive features balanced, anodized aluminum, polyurethane impregnated sheaves which offer a high coefficient of friction with the belt so practically no power is wasted.
- ... because the full power of the drive is delivered to the spindle.

## EASIER TO OPERATE

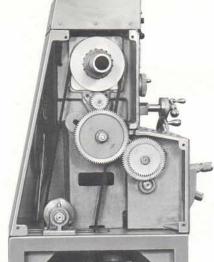
... because the electronic speed selector is sure and precise — with only one, simple control.

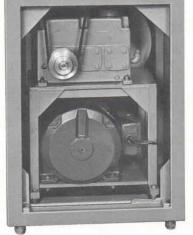
- ... because the electronic speed indicator is direct reading.
- ... because you simply operate one lever to shift from high to low speeds (and remember, there is no gap in obtainable speeds between the two ranges).
- ... because all operating controls are on the front of the lathe so the operator does not have to reach across the chuck.
- ... because you never have to run this lathe through its speed range to prevent sticking of the variable speed drive.

## LONG, DEPENDABLE SERVICE

- ... because of the heavy flame hardened and ground bedways.
- ... because all the gears in the transmission run in a bath of oil.
- ... because of the efficient pressure lubrication system in the headstock.
- ... because the variable speed drive requires no lubrication.
- ... because the speed changer will not operate except when the lathe is running this prevents damage to the variable speed drive.
- ... because there are over 60 years of experience building high-quality lathes behind this machine.

doesn't this add up to today's greatest dollar value? YOU BET!



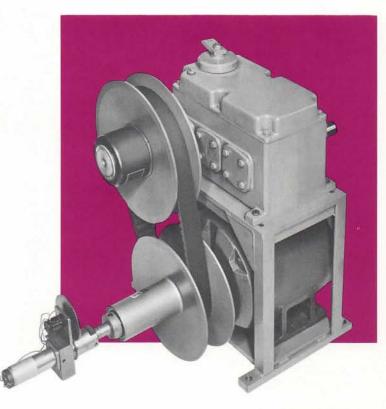


## CLEAN AS A WHISTLE

This view reveals the unique, simple design of the drive system gearing for the heavy cut power range that has been built into the new type transmission atop the motor base. The result? Vibration and heat build-up have been removed from the headstock to give you optimum spindle performance.

# No Matter How You Cut It

...this new 14" South Bend lathe will do it quicker and easier



## POWER PACKAGE

Here is the variable speed drive with its two anodized aluminum, polyurethane impregnated sheaves which deliver full power from the 3 hp motor. The drive never has to be lubricated.

## HUSKY

The spindle in this husky tailstock can't bind when fully retracted because of a special non-freeze feature. Note the heavy flame hardened bedways and "chip-shoot" construction that sends chips out the back of the machine.



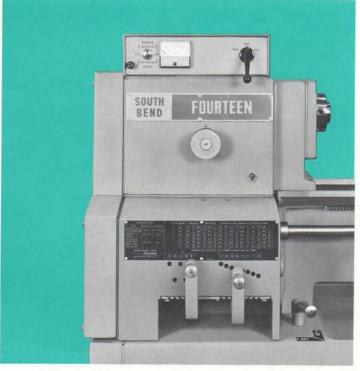
## HANDY

You move only a single lever to shift from the high to low speed ranges . . . and there is no gap between them. Furthermore, you never have to run this lathe through its speed range to prevent sticking of the variable speed drive.

## SPACE-AGE CONTROLS

Electronic speed selector is sure and precise — with only one simple control. The direct reading speed indicator is also electronic. And, of course, all the controls are in front of the machine so you never have to reach across the chuck or workpiece.





## **SPECIFICATIONS**

#### CAPACITY

Swing over bed and saddle wings141/8"
Swing over cross slide81/4"
Swing over cross slide with taper attachment 81/4"
Center distances

#### **HEADSTOCK**

Capacity through spindle113/32"
Maximum collet capacity
Drawbar type11/16"
Spindle nose collet type13/8"
Cam lock spindle nose3" - D1
Size of center, Morse taper#3

#### SPINDLE SPEEDS

Spindle speedsvariable
Spindle speeds range (high)300 - 1800 rpm
Spindle speeds range (low)50 - 300 rpm
Motor size

#### GEAR BOX - THREADS AND FEEDS

Number of threads and feeds48
Range of threads per inch4 - 224
Longitudinal feeds per spindle revolution0015 – .0841
Cross feeds per spindle revolution000560315
Lead screw diameter and threads 1" - 6 acme

### COMPOUND REST

Cross feed travel8¾"
Cross feed travel with taper attachment81/8"
Angular hand feed of top slide
Tool post opening for tool holder shank 1/2" x 11/8"
TAILSTOCK

Size of center (Morse taper)
Spindle travel
Set over of top for taper turning
SHIPPING WEIGHT (approx.)1300 lbs.

#### STANDARD EQUIPMENT

Included as standard equipment are: motor and drum switch control, two centers, tool post assembly, small face plate, thread dial indicator, spindle sleeve, wrenches, installation plan and manual.

## MODELS

CL146RP	28" center distance, 208 Volts
CL146RD	28" center distance, 230 Volts
CL146RF	28" center distance, 460 Volts
CL146FP	40" center distance, 208 Volts
CL146FD	40" center distance, 230 Volts
CL146FF	40" center distance, 460 Volts

All above models wired for 3-phase, 60 Hz. (cycle) AC supply.

## **ACCESSORIES**

Push button	station	in lieu o	fstandard	drum	switch:

(4 - complete complete)	The second second second second						
*ES842P	3 phase,	60 cycle,	208	volts,	with	3	HP-
	1800 RP	M Motor					

*ES842DF	3 phase, 60 cycle, 230/460 volts, with 3					

*ES842DF	HP-1800 RPM Motor				
Electric moto	or brake for 3 HP-1800 RPM Motor:				
*CE2635P	3 phase, 60 cycle, 208 volts				
*CE2635DF	3 phase, 60 cycle, 230/460 volts				
*CE1401	Fused disconnect				
*CE1402	Non-Fused disconnect				
CC3506	3 Jaw Chuck, 6"				
CC3508	3 Jaw Chuck, 8"				
CC3510	3 Jaw Chuck, 10"				
CC4206	4 Jaw Chuck, 6"				
CC4208	4 Jaw Chuck, 8"				
CC4210	4 Jaw Chuck, 10"				
CC5206TT	Handlever Collet Attachment				
CC4306TT	Handwheel Collet Attachment				
CC2180TT	Large Face Plate				
CC2175TT	Small Face Plate				
CL2250T	Thread Cutting Stop				
CL2400TT	Steady Rest				
<b>CL2395TT</b>	Follower Rest				
*CLF1545TT	Telescopic taper attachment with hard- ened and ground cross feed and com- pound rest screws (supplied fitted to lathe)				

### Hardened and ground cross feed and compound rest screws, in lieu of regular \*CL2032T

#### \*CL2620TT Power feed bed turret

CL3375TT		turret	for	compound	rest	cross
	slide					

CL33/01	Square turret for double tool cross slide
CC6309TT	Step chuck closers for 3" and 4" chucks
CC6311TT	Step chuck closers for 5" and 6" chucks
<b>CL1955TT</b>	Metric transposing gears (with lathe)

CL968TT Micrometer c	carriage stop
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CL90011	Micrometer carriage stop
CE1770Q	Collet Rack
CL2680T	Milling Attachment
CL4021	Preparing lathe for coolant

1000 TO	
CL501TT	Coolant - 1 phase, 60 cycle, 115 volts
CI 503TT	Coolant - 3 phase 60 cycle

CLUGII	230/460 volts
CL2185T	Four position carriage stop

CL2795RT	Dial indicator carriage stop						
CL2061B	Splash	pan	(for	lathe	with	28"	center

	distance)						
CI 2061C	Calach	non	1for	latha	with	1011	aantar

CL2061C	Splash	pan	(for	lathe	with	40"	center
	distanc						

	distance
*CL3308TT	Fine feed handwheel (in lieu of regular)
*CE5522	Special Paint Colors

<sup>\*</sup>Should be specified when ordering lathe.



## **SOUTH BEND LATHE....**

offers you a complete line of metalworking PROFIT MAKERS... including

- Precision Lathes, 10" to 17"
- 1307 Super Precision Toolroom Lathes
- Vertical Milling Machines
- Bench Shapers
- Drill Presses
- Deka Drill® Automatic Multiple Spindle Drilling and Tapping Machines
- Johnson® Mechanical Power Presses
- South Bend-Ingersoll Electrical Discharge Machining Equipment

Why Do We Call Them *PROFIT MAKERS?*Because our Users do! Need we say more?

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