

J. A. JEAN MACHINERY CO.
302 INDUSTRIAL WAY
SAN CARLOS, CALIFORNIA
593-2110

SOUTH BEND[®]

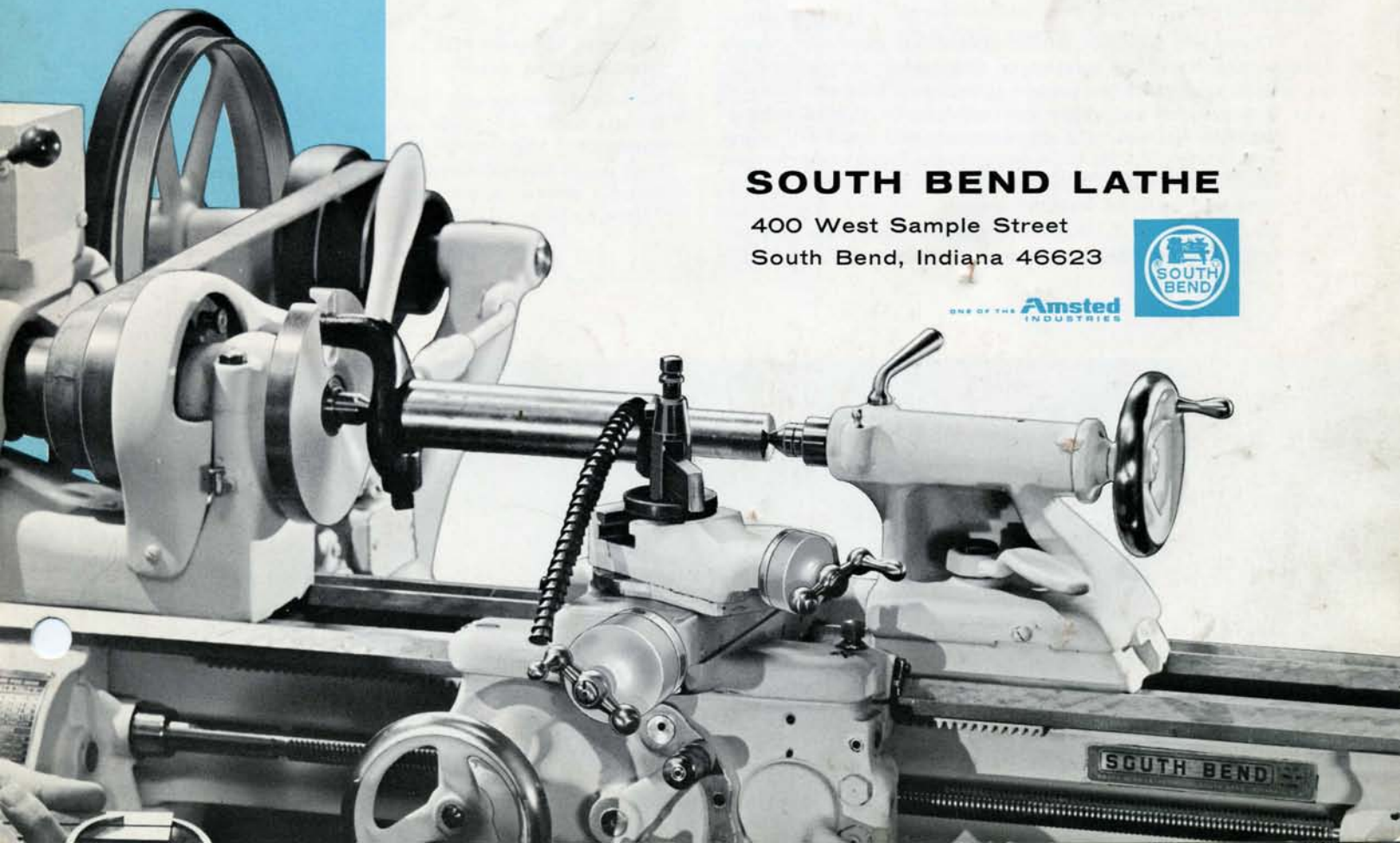
9"

*bench and
metal cabinet lathes*

SOUTH BEND LATHE

400 West Sample Street
South Bend, Indiana 46623

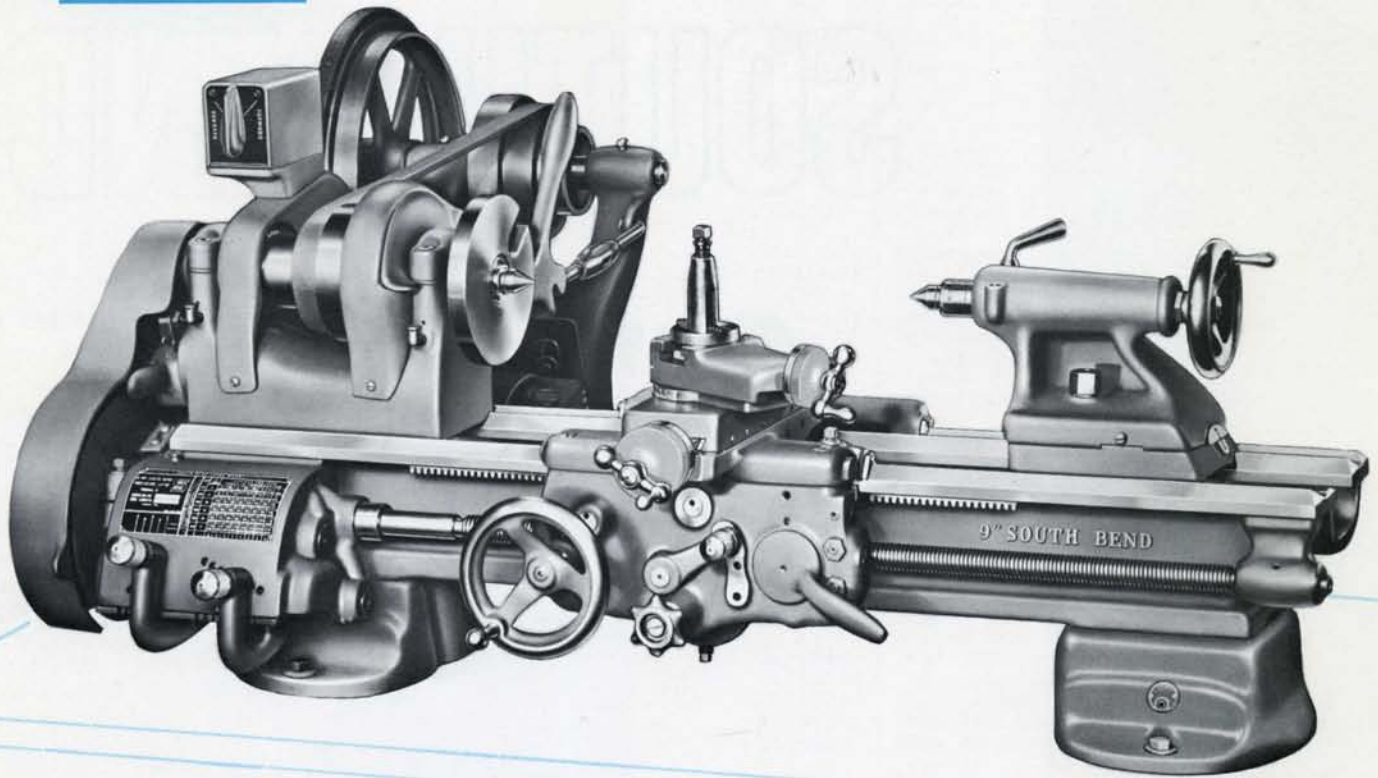
ONE OF THE **Amsted**
INDUSTRIES



9"

SOUTH BEND® PRECISION LATHES

engine lathes in bench...



These are precision tools capable of machining work to the exacting tolerances demanded in modern industry. Features include precision finished V-ways, heat-treated and super-finished spindle, precision bearings for spindle with oil reservoir and capillary oiling system, graduated tailstock spindle, large satin chrome micrometer dials, oilite bushings in countershaft bearings and built-in leveling legs.

South Bend 9" Lathes have quick change box and patented worm drive apron with friction clutch. Also

choice of 12-speed flat belt or 16-speed V-belt for horizontal motor drives.

Standard equipment includes: motor drive; motor pulley with $\frac{5}{8}$ " hole; necessary belting; graduated compound rest; small face plate; heat-treated steel tool post; two 60-degree hardened tool steel centers; spindle sleeve; wrenches; installation plan; and book "How to Run a Lathe".

See complete specifications

9"

SOUTH BEND GAP BED BENCH LATHES

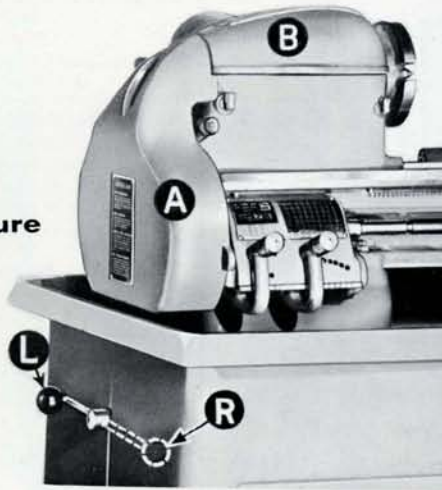
The 9" Gap Bed Bench Lathes are made with a $4\frac{1}{2}$ ' bed and have a 1" gap measured from face plate when bed insert is in place. When 4" insert is removed, the 5" gap allows $14\frac{1}{8}$ " swing capacity. Saddle and cross slide design allows the cutting tool to do work up to the

spindle. Gives greater support to the tool. Unit can be supplied with either flat belt or V-belt cone pulleys. Gap bed lathes have the same equipment as corresponding models of 9" bench lathes and all specifications are the same except for shipping weights.

and metal cabinet types

Drive Interlock Feature

South Bend 9-inch Underneath Motor Driven Lathes have a drive interlock which makes it difficult to open the end gear guard, "A", or the cone pulley cover, "B", until the belt tension lever, "L", is placed in position "R", disconnecting power.



Type	Bed Length Feet	Between Centers Inches	Crated Weight Pounds	With 16-Speed Belt Drive Catalog No.	With 12-Speed Flat Belt Drive Catalog No.
Bench (HMD)	3½	22	404	CL744Z	CL644Z
	4½	34	435	CL744R	CL644R
Cabinet (UMD)	3½	22	710		CL344ZD
	4½	34	730		CL344RD

MOTORS AND CONTROLS

HORIZONTAL MOTOR DRIVE							
Cat. No.	H.P.	Speed	Phase	Cycle	Voltage	Drum Control	P.B. Linestarter
CE4920B	½	1	1	60	115	EQ790	EB841AO
CE4920D	½	1	1	60	230	EQ790	EB841CO
CE4924P	½	1	3	60	208	EQ790	EB841CO
CE4924D	½	1	3	60	230	EQ790	EB841CO
CE4924F	½	1	3	60	460	EQ790	EB841DTO

Note: Push button controls are supplied unmounted for horizontal motor drive lathes.

UNDERNEATH MOTOR DRIVE							
Cat. No.	H.P.	Speed	Phase	Cycle	Voltage	Drum Control	P.B. Linestarter
CE4920B	½	1	1	60	115	EB790	EB841AO
CE4920D	½	1	1	60	230	EB790	EB841CO
CE4924P	½	1	3	60	208	EB790	EB841CO
CE4924D	½	1	3	60	230	EB790	EB841CO
CE4924F	½	1	3	60	460	EB790	EB841DTO

Cabinet models with underneath motor drive are one of our most popular lathes for toolroom and manufacturing operations. These cabinet type lathes are the same as bench models except for underneath drive, spindle speeds, replaceable bronze sleeve bearings for the spindle and necessary alterations in the headstock. Cabinet has three drawers, as shown above. A built-in chip pan forms the top of the metal cabinet.

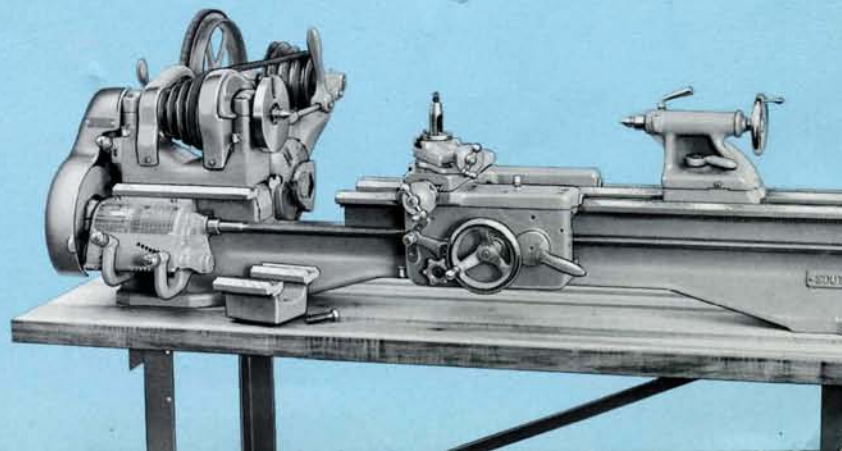
Motor drive unit is enclosed in cabinet under the lathe headstock and provides 12 spindle speeds ranging from approximately 50 to 1365 r.p.m. Belt tension is adjustable.

Standard equipment includes motor pulley with ⅝" hole, graduated compound rest, small face plate, tool post, two 60° hardened tool steel centers, spindle sleeve and wrenches.

See complete specifications

9" HORIZONTAL MOTOR DRIVE GAP BED LATHES

- Bed Length 4½'
- Between Centers 34"
- Crated Weight, pounds 465
- Catalog number CL744RG with 16-speed V-belt drive
- Catalog number CL644RG with 12-speed flat belt drive
- Bench and electricals not included.



SPECIFICATIONS

CAPACITY

Swing over bed and saddle wings 9 1/4"
 Swing over saddle cross slide 5 1/2"

TAILSTOCK

Size of center, Morse Taper No. 2
 Spindle travel 2 1/8"
 Each graduation on tailstock spindle 1/16"
 Tailstock top set-over for taper turning 5/8"

COMPOUND REST

Cross slide travel 5 3/4"
 Angular hand feed of compound rest top slide 2 1/4"

TOOL POST

Size of tool holder shank 3/8" x 1 1/16"
 Size of cutter bit for tool holder 1/4" sq.

SPINDLE SPEEDS (HMD) (approximate, not exact)

With flat belt	Direct Drive	Back Geared
High, r.p.m.	1270, 750, 446	250, 145, 86
Low, r.p.m.	692, 410, 244	134, 81, 50

With V-belt

High, r.p.m.	1200, 900, 772, 505	235, 179, 130, 100
Low, r.p.m.	640, 490, 362, 272	130, 95, 70, 54

HEADSTOCK

Hole through spindle 3/4"
 Maximum collet capacity 1/2"
 Spindle nose diameter and threads per inch 1 1/2"—8
 Size of center, Morse taper No. 2
 Width of cone pulley step for belt 1"
 Small face plate diameter 5 3/8"
 Front spindle bearing diameter 1-13/16"

THREAD CUTTING RANGE

48 pitches,
 R.H. or L.H. 4 to 224 per inch
 Lead screw, 29° Acme thread 3/4" dia.—8 thrds.

POWER LONGITUDINAL FEEDS

48 feeds0015" to .0853"

POWER CROSS-FEEDS

48 feeds0004" to .0255"

Hardened and ground bed ways are available in lieu of regular bed ways as listed below:

Catalog Number CL4954Z for 3 1/2' bed length.
 Catalog Number CL4954R for 4 1/2' bed length.

SOUTH BEND LATHE

Attachments and Accessories

Only part of the accessories and attachments for 9-inch South Bend Lathes are listed below. A catalog (6801) listing all accessories and attachments will be supplied on request.

Catalog Number	Description	Shipping Weight Pounds
ATTACHMENTS		
CL4306N	Handwheel Collet Attachment	5
CL5206N	Handlever Collet Attachment	10
CE3050	Steel Collets for round work, 1/16" to 1/2" in 64ths, each	6 ozs.
CE3065	Collets (set of 8) 1/16" to 1/2" in 16ths	3
CE1770N	Collet Rack	9
CE2680NK	Milling Attachment	13
CL428NK	Taper Attachment	35
CL2400NK	Steady Rest	10
CL2395NK	Follower Rest	4
CE301B	External Grinding Attachment, Single Phase, 60 Cycle, 115V	55
CE307NK	Clamp Bolt Assembly	1
CE601B	Internal Grinding Attachment, 1-60-115V	43
CL968NK	Micrometer Carriage Stop	2
CL1611N	Handlever Bed Turret	76
CL2250NK	Thread Cutting Stop	1/2
CL810NK	Thread Dial Indicator	2
CL2030N	Handlever Double Tool Cross Slide	36
CL3376NR	Square Turret for Double Tool Cross Slide	10
CL3375N	Square Turret for Compound Rest Cross Slide	13
CL2154N	Four Position Cross Slide Stop	2
CL2185NK	Four Position Carriage Stop	6
CL758NK	Plain Carriage Stop	2
CL2882NK	Fiber Glass Belt Guard	
CL2883N	Fiber Glass Belt Guard (Order with Lathe)	
CL2180NK	Large Face Plate	8
CE3900	Ball-Bearing Live Center, 60° Point	3
CE2401	60° Center, Hardened, No. 2 Morse Taper	1
CE1889	60° Center, Carbide-Tipped, No. 2 Morse Taper	1
CE2107	Set of 6 Lathe Dogs, 3/8" to 1 1/2" capacity	6
CE1780	Angle Steel Bench	124
CE1780D	Drawer for Bench	9
CE1731	Cabinet Style Bench	216
CHUCKS AND TOOLS		
CL4006NK	6" 4-Jaw Independent Lathe Chuck, fitted	13
CE3005NK	5" 3-Jaw Universal Lathe Chuck, fitted	12
CE3506NK	6" 3-Jaw Universal Lathe Chuck, fitted	26
CE1201	Jacobs Drill Chuck, 0" to 1/2" capacity	2-6 oz.
CE2302	Arbor for above Drill Chuck No. CE1201	8 oz.
CE1413NK	10 in 1 Tool Holder	5
CE847S	Straight Shank Turning Tool with cutter bit	1
CE847R	Right-Hand Turning Tool with cutter bit	1
CE847L	Left-Hand Turning Tool with cutter bit	1
CE833S	Straight Shank Cutting-off Tool with blade	1
CE833R	Right-Hand Cutting-off Tool with blade	1
CE423	Boring Tool, Style "B", with Boring Bar	2
CE820	Knurling Tool with medium diamond knurls	2
CE845	Threading Tool with 60° cutter blades	2