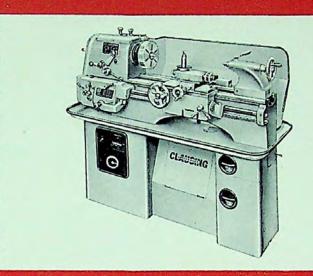
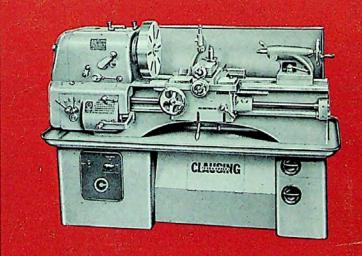
CLOLCHESTER G

6

13" 15" 17"

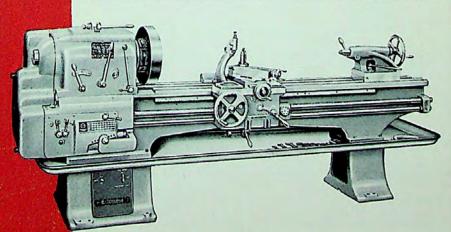


GEARED-HEAD



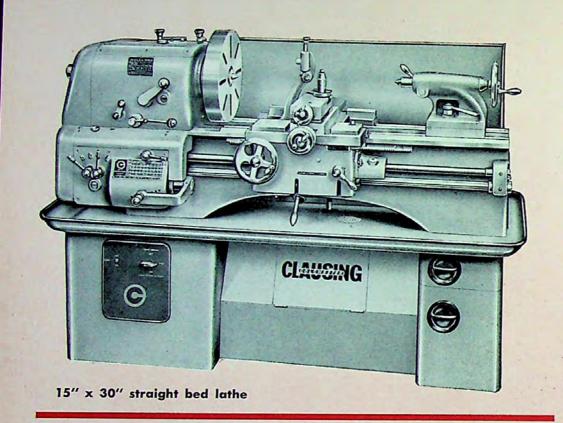
PRECISION LATHES

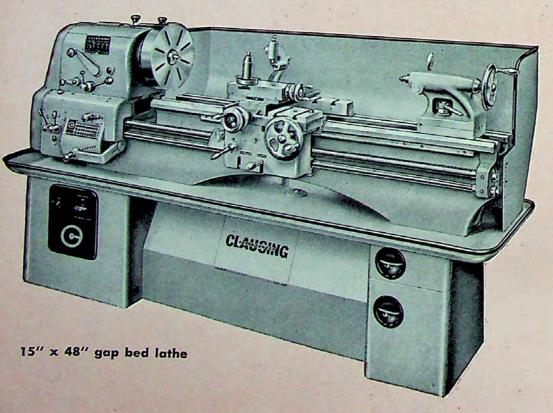
SOLD BY:



CLAUSING DIV. ATLAS PRESS KALAMAZOO, MICHIGAN, U.S.A.

13", 15", 17", heavy duty geared head precision lathes





Clausing-Colchester lathes are the achievement of over 50 years' experience in the manufacture of precision lathes.

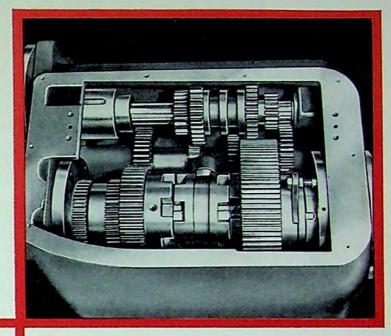
Their outstanding value and record of performance are the result of this experience, and the modern production facilities used in their manufacture. Highly specialized precision equipment, coupled with a unique system of tooling and gauging, assure the highest standards of accuracy, and uniformity of every part.

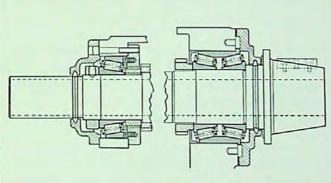
Clausing-Colchester lathes, manufactured in England, are the product of Europe's largest and most modern factory devoted exclusively to the manufacture of precision lathes. They are backed by the nation-wide Clausing sales, service and dealer organization.

Built to American standards of toolroom lathe accuracy

Clausing-Colchester geared headstocks are designed and built to deliver the power required for heavy-duty operations, and for smooth performance throughout the spindle-speed range. All gears are shaved, heat-treated high-tensile steel. Gear shafts are multi-splined heat-treated high-tensile steel — turn in phosphor bronze bearings. Splined shafts — no loose or sliding keys — assure high standards of accuracy and surface finish. Headstock is completely enclosed — entire gear drive mechanism travels in bath of oil.

Gear change and reverse levers are conveniently located. Front lever operates both starting switch and mechanical brake in drive pulley, a feature that permits rapid and sensitive control of machine.



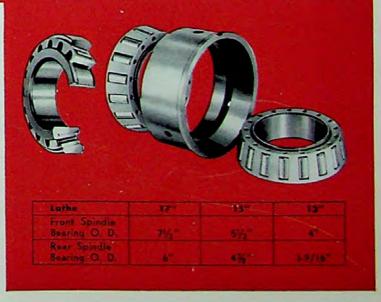


	SPINDLE CAL	PACITIES	
Lathe	17"	15"	13"
Thru-Hole	3-1/16"	2-1/16"	1-9/16"
Nose Taper Key Drive	L-2	L-I	L-0

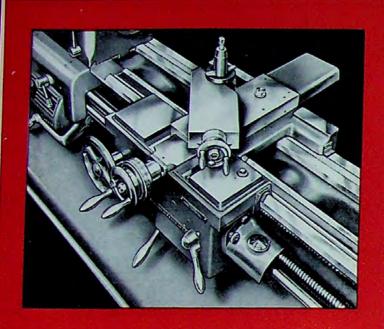
Headstock spindles are heat-treated high-tensile steel hammered forgings. Hardened nose is American Standard taper key-lock — spindle may be reversed without danger of the chuck's coming off. Note — in chart at left — the larger sizes and capacities — greater than those of lathes in the Clausing-Colchester class.

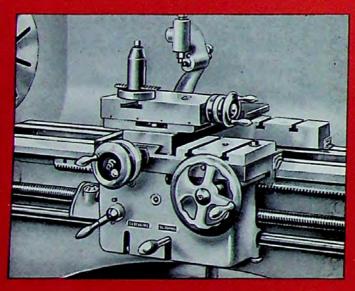
Spindle bearings are larger — see chart at right.

Front spindle bearing is double row tapered roller bearing — rear spindle bearing is single row tapered roller bearing, spring loaded for automatic adjustment. Both are Gamet Micron Precision Bearings with oilflow lubrication — hole through bearing rollers assures maximum lubrication and cool running. Produced under strictly controlled conditions, these bearings are the most efficient and accurate known to industry. Evidence of the precision you can expect with Clausing-Colchester lathes is detailed on page 15.



heavy duty, precision lathes





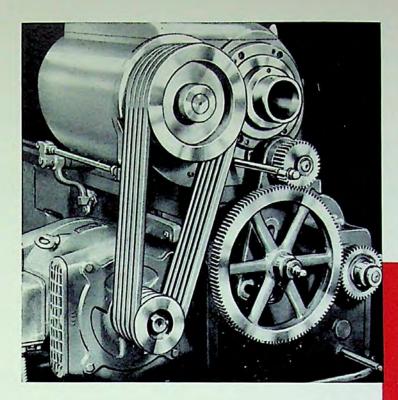


Apron is one-piece, double-walled — all shafts turn in two bearings — gear trains are protected against misalignment and dirt. Carriage has large bearing surfaces on bed, and is secured to bed by heavy plates bearing on front and rear ways. All surfaces of the saddle, cross slide and compound are precision ground. Large diameter micrometer dials reading in .001" are fitted to both slides and can be set at zero and clamped for easy operation. Power feed and screw cutting controls are interlocked to prevent simultaneous engagement. Half nuts are Mehanite. Power feeds are engaged by a positive single lever control action. Thread dial is furnished.

Note, in second illustration at left, the carriage provided with gap-bed lathes. Cross slide position brings cutting tool to outer edge of gap. Has boring-type teeslotted saddle. Controls on apron are located away from gap, for operator convenience and safety.

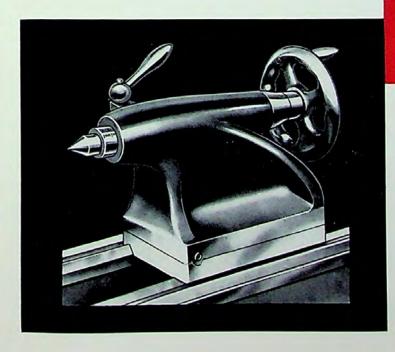
Quick-change mechanism provides instant selection of 36 threads and feeds. Quick-change gear box is cast integrally with the bed for maximum strength. Box is totally enclosed, and mechanism runs in a bath of oil. Gears are shaved, heat-treated high-tensile steel, and are carried on multi-splined heat-treated high-tensile steel shafts. Shafts turn in phosphor bronze bearings.

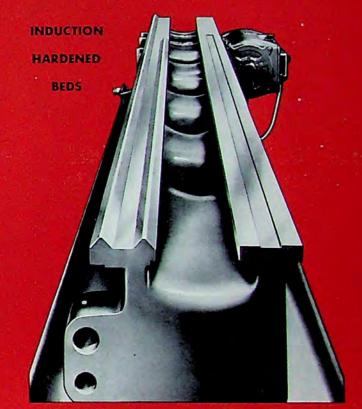
Power feeds are taken from a separate feed rod. The lead screw is used for threading only — another feature of design that gives you longer service and accuracy with a Clausing-Colchester. For safety, feed rod has springball clutch that releases rod whenever the load becomes too great and automatically re-engages when strain is removed. Lead screw is protected by easy-to-replace shear pin in gear train.



Bed ways are induction hardened to a Brinell hardness of 500, and are precision ground parallel to extremely close tolerance. Beds are massive, dense castings — 50% steel, 50% iron — with elliptical cross ribbing for maximum rigidity. 17" and 15" lathes have two V-ways at front, two flat ways at rear. 13" lathes have a V-way and flat way at both front and rear. Castings are rough machined and naturally aged before finish grinding. Gap bed lathes have removable block.

Drive is through multiple V-belts powered by heavy-duty motor furnished with lathe. Note choice of single and two speed motors. Drive is self-contained — motor is mounted at rear of headstock base below chip pan to keep out dirt, chips and coolant. Adjustment for belt tension is provided. V-belts are completely guarded. Electric panel in base has master control switch for magnetic starter. On-off switch furnished is air-break type controlled by lever on front of headstock. Reversing switch, available extra, see page 13, is furnished with linkage that mounts inside switch control-lever shaft.

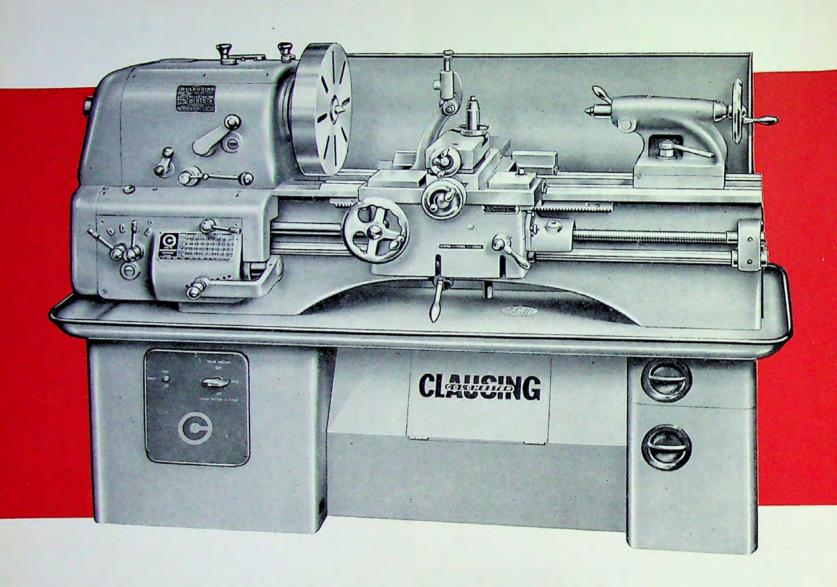




Husky tailstocks have large spindle and screw. Hole for spindle is honed with MicroMatic hones to superfinish standards for accuracy, rigidity, smooth operation. Spindles are graduated, have self-ejecting centers. Tailstock may be set over for taper turning — zero setting line simplifies resetting.

13" and 15" lathes are furnished with cabinet bases of welded steel columns, heavily cross ribbed to provide a firm foundation for the lathe and to keep vibration at a minimum. Built-in chip pan, splash guards and coolant tank. Tailstock pedestal has two shelves, and a drawer with lock.

15-inch heavy duty geared head precision lathe



Catalog Number	Swing Over Bed	Between Centers	Bed Length	Net Weight	Shipping Weight
		STRAIGHT	BED LATE	IES	
		ONE SP	EED MOTOR		
6574 6575	15" 15"	30" 48"	65" 83"	2100 lb. 2250 lb.	2700 lb. 2970 lb.
		TWO SP	EED MOTOR		
6534 6535	15" 15"	30" 48"	65" 83"	2100 lb. 2250 lb.	2700 lb. 2970 lb.
		GAP BE	D LATHES		
		ONE SPI	ED MOTOR		
6576 6577	15" 15"	30" 48"	65" 83"	2100 lb. 2250 lb.	2700 lb. 2970 lb.
		TWO SP	EED MOTOR		200/100
5536 5537	15" 15"	30" 48"	65" 83"	2100 lb. 2250 lb.	2700 lb 2970 lb

EQUIPMENT FURNISHED

Cabinet base with built-in chip pan, splash guards and coolant tank.

One-speed or two-speed motor.

Built-in electric panel with master control switch for magnetic starter.

Air-break type on-off switch.

14" face plate, 8" driving plate.

Two No. 3 MT centers, reducing sleeve.

Thread dial indicator.

Follower rest, tool post. Change gear.

Wrenches.

Instruction and Parts List manual.

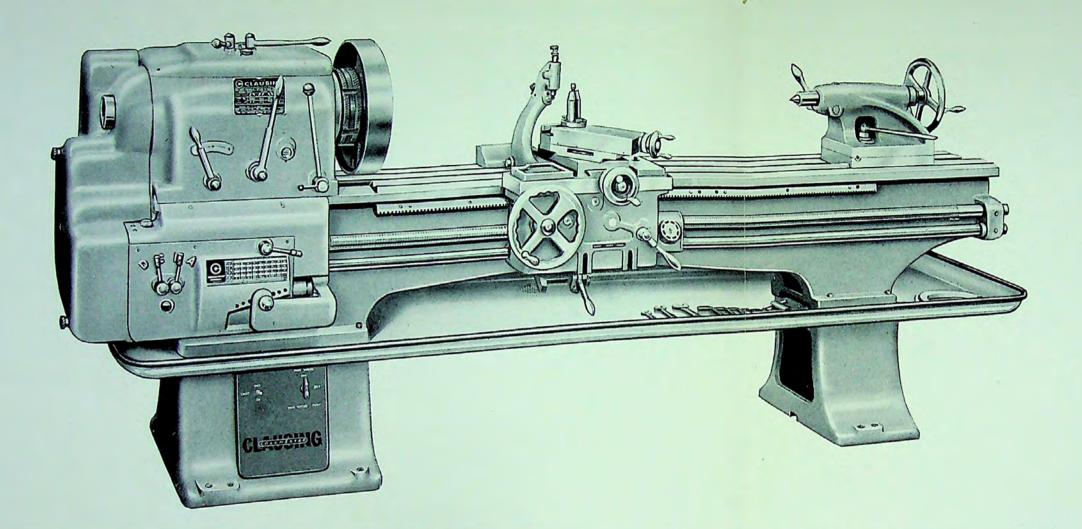
Design and specifications are subject to change without notice. Weights shown are approximate.

SPECIFICATIONS

CAPACITIES AND CLEARANCES	Compound rest travel
Swing over bed 15" Swing over cross slide 9" Swing over carriage wings 14" Swing over compound rest 3-11/16"	SPINDLE SPEEDS
Distance between centers, flush	Spindle speeds, with 1 speed motor
Follower rest, capacity	Spindle speeds, with 2 speed motor
HEADSTOCK	Speed range, with 2 speed motor, RPM 30, 58, 60, 82, 115, 120, 153, 163, 229, 241, 307, 319, 457, 600, 637, 1200
Hole through spindle 2-1/16"	
Spindle nose, A.S. taper key driveL-1 Taper in spindle nose bushingNo. 3 MT	MOTORS
Spindle center No. 3 MT	One speed 3 HP, 1720 RPM, 3 ph., 220-440 V, 60 C
Spindle bearings, Gamet Micron Precision tapered roller bearings	Two-speed
Front double row Rearsingle row, spring loaded	Number of V-belts
Spindle bearing outside diameters	
Front	THREADS AND FEEDS
BED	Lead screw, dia. 11/4" threads per inch, Acme .4 Feed rod, dia. 1"
Ways 2 V, 2 Flat	Number of threads
Length	Range
Depth at ends	9½, 10, 11, 11½, 12, 13, 14, 16, 18, 19, 20, 22, 23, 24, 26, 28, 32, 36, 38, 40, 44, 46, 48, 52, 56
	Number of feeds
TAILSTOCK	Feed range
Spindle, dia. 1½" Center No. 3 MT	NOTE: Change gear furnished provides additional feed range — 1/2 those shown above.
Spindle travel	GAP BED MODELS
CARRIAGE AND COMPOUND	Swing in gap
Carriage length	Length of gap in front of face plate
Width of cross slide 5½" Width of compound rest 4½"	NOTE: Other specifications similar to straight bed model.
Cross slide travel 9"	Finish, all models, light machine tool grey.



17-inch heavy duty geared head precision lathes



Catalog Number	Swing Over Bed	Between Centers	Bed Length	Net Weight	Shipping Weight
		STRAIGHT	BED LATE	IES	
		ONE SP	EED MOTOR		
6582	17"	78"	120"	4020 lb.	5160 lb
		TWO'SP	EED MOTOR		
6542	17"	78"	120"	4020 lb.	5160 lb
		GAP BE	D LATHES		
		ONE SP	ED MOTOR		
5594	17"	54"	96"	3720 lb.	4620 lb
5583	17"	78"	120"	4020 lb.	5160 lb
		TWO SP	EED MOTOR		
554	17"	54"	96"	3720 lb.	4620 lb
543	17"	78"	120"	4020 lb.	5160 lb

EQUIPMENT FURNISHED

Cast-iron mounting bases with chip and coolant tray.

One-speed or two-speed motor.

Built-in electric panel with master control switch for magnetic starter.

Air-break type on-off switch.

16" face plate, 10" driving plate.

Two No. 4 MT centers, reducing sleeve.

Thread dial indicator.

Follower rest, tool post. Change gear.

Wrenches.

Instruction and Parts List manual.

Design and specifications are subject to change without notice. Weights shown are approximate.

CAPACITIES AND CLEARANCES

Swing over bed	,
Swing over cross slide 12'	
Swing over carriage wings 16"	,
Swing over compound rest	,
Distance between centers, flush54" or 78'	,
Face plate, dia 16'	
Driving plate, dia 10'	
Follower rest, capacity 3'	
Steady rest, capacity 6'	
HEADSTOCK	
Hole through spindle 3-1/16	,
Spindle nose, A.S. taper key driveL-2	,
Taper in spindle bushing No. 4 MT	r
Spindle center	r
Spindle bearings, Gamet Micron Precision	-
Transfer Principal Traction	

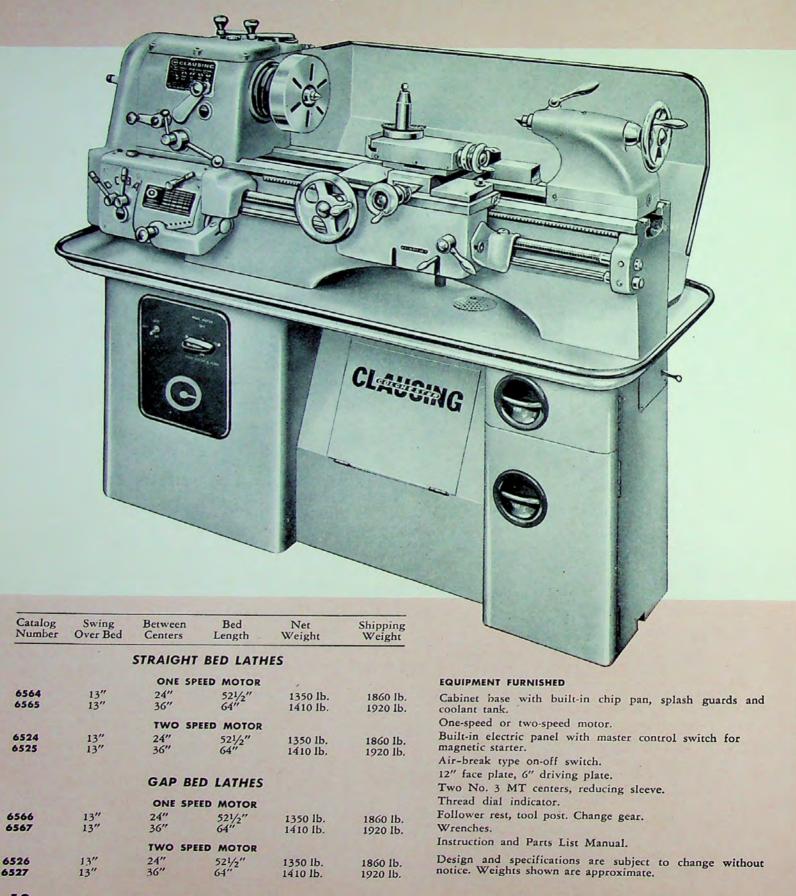
Frontdouble row Rearsingle row, spring loaded

tapered roller bearings

Front
Rear
BED
Ways 2 V, 2 Flat
Length
Width 127/8" Depth at ends 18" Depth at center 113/4"
Depth at center
TAILSTOCK
Spindle, dia 2"
Center
Spindle travel
CARRIAGE AND COMPOUND
Carriage length 20" Width of carriage bridge 83/4"
width of cross slide
Width of compound rest
Cross slide travel
Compound rest travel 6" Tool post, slot
1001 post, slot
SPINDLE SPEEDS
Spindle speeds, with 1 speed motor
180, 270, 415, 600
Spindle speeds, with 2 speed motor
Speed range, with 2 speed motor, RPM28, 42, 55, 65,
84, 94, 130, 135, 187, 202, 270, 311, 405, 450, 622, 900
MOTORS
One speed 5 HP, 1720 RPM, 3 ph, 220-440 V, 60 C
Two speed
220 or 440 V, 60 C
Specify voltage when ordering. Number of V-belts
14mmber 01 + betts
THREADS AND FEEDS
Lead screw, dia
threads per inch, Acme 4
Feed rod, dia. 11/4" Number of threads
Range
4, 41/2, 43/4, 5, 51/2, 53/4, 6, 61/2, 7, 8, 9,
91/2, 10, 11, 111/2, 12, 13, 14, 16, 18, 19,
20, 22, 23, 24, 26, 28, 32, 36, 38, 40, 44, 46, 48, 52, 56
Number of feeds
Feed range
NOTE: Change gear furnished provides additional feed range -
½ those shown above.
GAP BED MODELS
Swing in gap
Length of gap in front of face plate
NOTE: Other specifications similar to straight bed models.
Finish, all models, light machine tool grey.

Spindle bearing outside diameters

13" heavy duty geared head precision lathes



SPECIFICATIONS

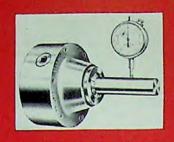
	Company of travel
CAPACITIES AND CLEARANCES	Compound rest travel
Swing over bed	1001 post, slot
Swing over cross slide 9"	
Swing over carriage wings 12"	SPINDLE SPEEDS
Swing over compound rest	Seledie and the selection of the selecti
Distance between centers, flush24" or 36"	Spindle speeds, with 1 speed motor
Face plate, dia	Speed range, with 1 speed motor, RPM52, 86, 118,
Driving plate, dia 6"	192, 272, 445, 610, 1000
Follower rest, capacity	Spindle speeds, with 2 speed motor
Steady rest, capacity 4"	Speed range, with 2 speed motor, RPM. 39, 65, 78, 88,
	129, 144, 177, 204, 288, 334, 408, 457, 667,
	750, 915, 1500
HEADSTOCK	Spindle bearings, Gamet Micron Precision tapered roller
	bearings
Hole through spindle	Front
Spindle nose, A.S. taper key driveL-0	Spindle bearing outside diameters
Taper in spindle nose bushing	Front 4"
Spindle center	Rear3-9/16"
Spindle bearings, Gamet Micron Precision tapered roller	
bearings	MOTORS
Front	
Rear	One speed 1½ HP, 1720 RPM, 3 ph, 220-440 V, 60 C
Spindle bearing outside diameters Front	Two speed
Rear	220 or 440 V, 60 C Specify voltage when ordering.
Rear5-9/10	Number of V-belts
	realiser of v-beits
BED	Construction of the contract o
	THREADS AND FEEDS
Ways 2 V, 2 Flat	Lead screw, dia
Length	threads per inch, Acme 6
Width 81/2"	Feed rod, dia
Depth at ends	Number of threads
Depth at center 8"	Range
	4, 41/2, 43/4, 5, 51/2, 53/4, 6, 61/2, 7, 8, 9,
	91/2, 10, 11, 111/2, 12, 13, 14, 16, 18, 19,
TAILSTOCK	20, 22, 23, 24, 26, 28, 32, 36, 38, 40,
0.1.11	44, 46, 48, 52, 56
Spindle, dia	Number of feeds
Center	Number of feeds
Center No. 3 MT Spindle travel 41/4"	Feed range 0.068" to 0.005"
Center	
Center	Feed range
Center No. 3 MT Spindle travel 41/4"	Feed range
Center No. 3 MT Spindle travel 41/4" Spindle graduated 0" to 41/4" by 1/8" CARRIAGE AND COMPOUND	Feed range
Center No. 3 MT Spindle travel 4½" Spindle graduated 0" to 4½" by ½" CARRIAGE AND COMPOUND Carriage length 13½"	Feed range
Center No. 3 MT Spindle travel $4^{1}/4^{\prime\prime}$ Spindle graduated 0" to $4^{1}/4^{\prime\prime}$ by $1^{1}/8$ " CARRIAGE AND COMPOUND Carriage length $13^{1}/2^{\prime\prime}$ Width of carriage bridge 6"	Feed range
Center No. 3 MT Spindle travel $4^{1}/4^{\prime\prime}$ Spindle graduated 0" to $4^{1}/4^{\prime\prime}$ by $1^{1}/8$ " CARRIAGE AND COMPOUND Carriage length $13^{1}/2^{\prime\prime}$ Width of carriage bridge 6" Width of cross slide 4"	Feed range
Center No. 3 MT Spindle travel $4^{1}/4^{\prime\prime}$ Spindle graduated 0" to $4^{1}/4^{\prime\prime}$ by $1^{1}/8$ " CARRIAGE AND COMPOUND Carriage length $13^{1}/2^{\prime\prime}$ Width of carriage bridge 6"	Feed range

ACCESSORIES









BURNERD CHUCKS

Chuck bodies are Meehanite castings for greater strength and long accurate service. Scrolls of universal chucks are heat treated nickel chrome steel, pinions are case hardened nickel steel. 4-jaw independent chucks have heat treated alloy steel jaw-operating screws. Jaws are case hardened steel — bearing and gripping surfaces are ground. Mount directly on lathe spindle nose — no back plates required. Wrench furnished.

3-JAW UNIVERSAL SCROLL CHUCKS

No. 13-201 71/2" UNIVERSAL CHUCK for ASA—L-0 spindle of 13" lathe. Net weight 34 lb. Shipping weight 43 lb.

No. 15-401 9" UNIVERSAL CHUCK for ASA—L-1 spindle of 15" lathe. Net weight 52½ lb. Shipping weight 68 lb.

No. 17-501 12" UNIVERSAL CHUCK for ASA—L-2 spindle of 17" lathe. Net weight 114 lb. Shipping weight 135 lb.

Universal chucks are furnished with two sets of jaws, one inside, one outside. Soft blank jaws, master jaws with hard or soft tops are also available. Data on request.

4-JAW INDEPENDENT CHUCKS

No. 13-202 10" 4-JAW INDEPENDENT CHUCK for ASA—L-0 spindle of 13" lathe. Net weight 62 lb. Shipping weight 77½ lb. No. 15-402 12" 4-JAW INDEPENDENT CHUCK for ASA—L-1 spindle of 15" lathe. Net weight 92 lb. Shipping weight 111½ lb. No. 17-502 16" 4-JAW INDEPENDENT CHUCK for ASA—L-2 spindle of 17" lathe. Net weight 164 lb. Shipping weight 187 lb.

CHUCK BACK PLATES

Meehanite castings with hole finish-bored for tapered spindle nose.

No. 13-218 BACK PLATE for ASA—L-0 spindle nose. 25 lb.

No. 15-417 BACK PLATE for ASA-L-1 spindle nose. 35 lb.

No. 17-519 BACK PLATE for ASA-L-2 spindle nose. 57 lb.

SPINDLE NOSE COLLET CHUCK

Trugrip precision spindle nose collet chucks save time and improve work accuracy. Collet is operated by simply turning a key — no need to hold or lock lathe spindle, no draw tube handwheel to tighten. Provides a rigid uniform grip on work that eliminates risk of distortion. Accuracy is guaranteed to .001" one inch from collet face. Collets are listed below.

No. 13-206 COLLET CHUCK for ASA—L-0 spindle nose. Less collet. Capacity, 1/16" to 1" dia. No. 13-207 Round Collets for above — specify diameter. 10 lb.

No. 15-406 COLLET CHUCK for ASA—L-1 spindle nose. Less collet. Capacity, 3/16" to 2" dia. No. 15-407 Round Collets for above — specify diameter. 28 lb.

No. 17-506 COLLET CHUCK for ASA—L-2 spindle nose. Less collet. Capacity, 3/16" to 2" dia. No. 17-507 Round Collets for above — specify diameter. 28 lb.

JACOBS COLLET CHUCK

Equips Clausing-Colchester 13" and 15" lathes for fast, accurate chucking of round work fed through the spindle. Mounts directly on spindle — compact design permits chucking work close to spindle nose.

9" dia. handwheel is solid aluminum — turns with a flick of the wrist. Impact tightening assures firm, even grip. Forged alloy steel body is hardened and ground. All other parts of body are hardened and ground alloy steel. Collets, extra, are positive gripping "rubber-flex".

No. 91-TO JACOBS COLLET CHUCK for ASA—L-0 spindle of 13" lathe. 16 lb.

No. 91-T1 JACOBS COLLET CHUCK for ASA—L-1 spindle of 15" lathe. 16 lb.

JACOBS ROUND COLLETS

Collet No.	Collet Range	Wt. Lb.	Collet No.	Collet Range	Wt.
7553	18" - 1/8"	1	7558	3/8" - 3/4"	1
7554	1/8" - 1/4"	1	7559	3/4" - 7/8"	1
7555	1/4" - 3/8"	1	7560	7/8" - 1"	1
7556	3/8" - 1/2"	1	7561	1" - 11/8"	1
7557	1/2" - 5/8"	1	7562	11/4" - 11/4"	1
			7563	11/4" - 13/8"	1

No. 7593 JACOBS HEXAGON COLLETS for Nos. 91-To and 91-T1 chucks available in 16th between 1/4" and 1". Specify diameter.

No. 7594 JACOBS SQUARE COLLETS for Nos. 91-T0 and 91-T1 chucks available in 16ths between 1/4" and 1". Specify diameter.

FACE PLATES for GAP BED LATHES

Finish machined, ready to mount on lathe spindle nose.

No. 13-203 18" FACE PLATE for ASA—L-0 spindle nose. 65 lb. No. 15-403 21" FACE PLATE for ASA—L-1 spindle nose. 105 lb.

No. 17-503 25" FACE PLATE for ASA-L-2 spindle nose. 180 lb.

PLAIN TAPER ATTACHMENTS

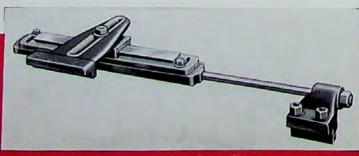
Taper attachments for 15" and 17" lathes cut external or internal tapers up to 12" long at one setting — 13" lathe, 10" at one setting. Simply reset along bed for longer work. Two sets of graduations show degrees of taper and inches per foot. Range, 9° both sides of center line.

No. 13-209 TAPER ATTACHMENT for Clausing-Colchester 13" lathes. 45 lb.

No. 15-409 TAPER ATTACHMENT for Clausing-Colchester 15" lathes. 85 lb.

No. 17-510 TAPER ATTACHMENT for Clausing-Colchester 17" lathes. 96 lb.







4-WAY TURRET

Replaces lathe compound, providing a rigid, accurate mount for tools. Turret is a heat treated steel forging. Slide is heavy cast iron, ground on all surfaces. Turret holds four tools or tool holders having a height up to 1". Handle releases turret, swings it to next indexing position, locks it in place. Retracting plunger design keeps mechanism free of dirt, chips. May be ordered separately, or with lathe in place of standard compound, as listed below.

Ordered with Clausing-Colchester lathe in place of standard compound.

No. 13-204 4-WAY TURRET for 13" lathe. (Extra).
No. 15-404 4-WAY TURRET for 15" lathe. (Extra).
No. 17-504 4-WAY TURRET for 17" lathe. (Extra).

Ordered as an accessory for Clausing-Colchester lathe.

No. 13-205 4-WAY TURRET for 13" lathe. 40 lb.

No. 15-405 4-WAY TURRET for 15" lathe. 62 lb.

No. 17-505 4-WAY TURRET for 17" lathe. 90 lb.

ENCO TURRET TOOL POST

Mounts in tool post slot. Each tool has 3 working positions.

Order No.	For Lathe	Tool Size Range	Tool Block Specifications	Shipping Weight	
41/2-5	13"	3/4"	4 TOOL—12 POSITION 4½" sq. x 2½" thick	15 lb.	
4½-R .15" 1" or #1 HSS tool holder			4 TOOL—12 POSITION 4½" sq. x 2¾" thick	17 lb.	
6-5	6-5 17" 11/4" or #2 HSS tool holder		4 TOOL—12 POSITION 6" sq. x 3 16" thick	33 lb.	

STEADY REST

No. 13-210 STEADY REST for 13" lathes. 4" dia. maximum bar capacity. 24 lb.

No. 15-410 STEADY REST for 15" lathes. 5" dia. maximum bar capacity. 40 lb.

No. 17-511 STEADY REST for 17" lathes. 6" dia. maximum bar capacity. 60 lb.

GAMET ROTATING CENTERS

Gamet rotating centers are ideal for high speeds and heavy roughing cuts. Point rotates on tapered roller bearings. Bearings are grease packed, pre-loaded, and sealed. 60° replaceable points.

No. 13-215 GAMET ROTATING CENTER with No. 3 MT shank for 13" lathes. 2 lb.

No. 15-421 GAMET ROTATING CENTER with No. 3 MT shank for 15" lathes. 2 lb.

No. 17-516 GAMET ROTATING CENTER with No. 4 MT shank for 17" lathes. 3 lb.

ENCO Self-Indexing HEX BED TURRETS

		Hex. H	Hex. Head Dims.		Tool Hole Size			Slide	
Model No.	For Lathe	Across Flats	Face Dims.	Rough Bored	Finish Bore	Slide Length	Slide Total Travel	Work- ing Travel	
E425	13"	55/8"	27/8" x 3"	Blank	1"	141/4"	51/4"	41/4"	
E651	15"	55/8"	21/8" x 3"	Blank	1"	161/2"	71/2"	61/2"	
E650	17"	7"	31/2" x 4"	Blank	11/4"	161/2"	71/2"	61/2"	

COOLANT SYSTEMS

Unit consists of motor, circulating pump, switch, connections. Piping supplied is universal, with telescopic piping for feeding coolant in any position. Patented ball type shut-off valve permits easy control of coolant flow. Pump capacity is 3½ gallons per minute. Tank capacity, 5 gallons. Pump for 13" and 15" lathes mounts in built-in tank in lathe base—

both are readily accessible through door in front of lathe. Pump and tank for 17" lathe mount on floor beneath chip pan. Switch mounts in electric control panel. System is installed and wired at factory when ordered with 13" and 15" lathes.

No. 13-208 COOLANT SYSTEM for 13" lathes. No. 15-408 COOLANT SYSTEM for 15" lathes.

No. 17-508 COOLANT SYSTEM for 17" lathes.

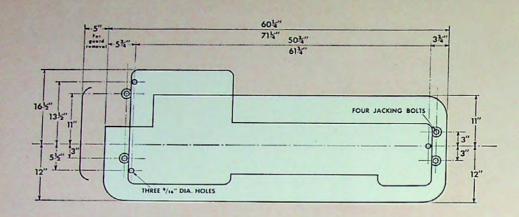
REVERSING SWITCH

Switch is furnished with linkage that mounts inside switch controllever shaft. Installed and wired when ordered with lathe. Brake must be used to stop spindle before motor is reversed.

No. 13-212 REVERSING SWITCH for 13" lathe. No. 15-412 REVERSING SWITCH for 15" lathe.

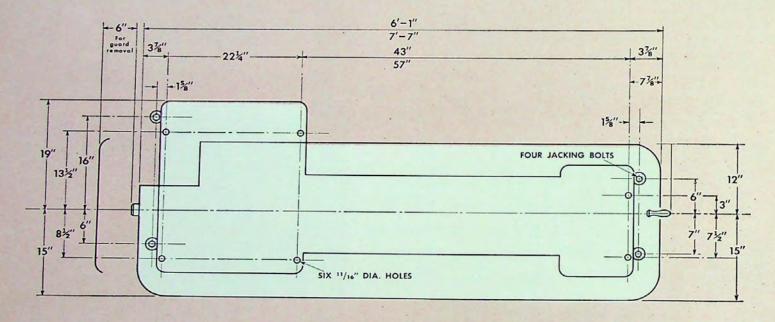
No. 17-513 REVERSING SWITCH for 17" lathe.



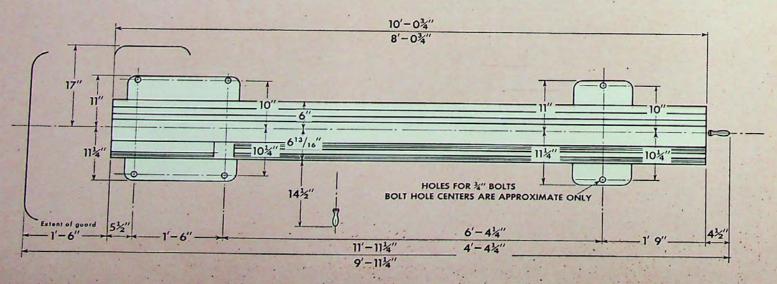


13" LATHES

15" LATHES



17" LATHES



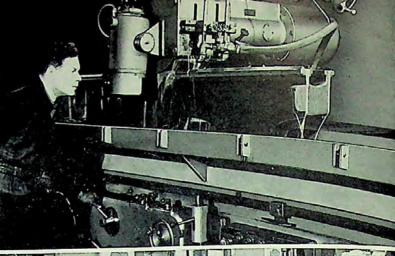
Built to American standards of toolroom lathe accuracy

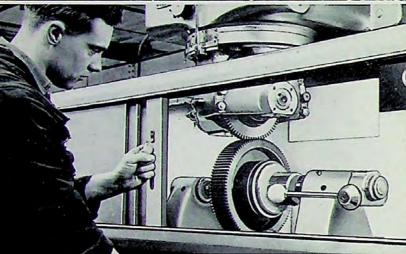
Each Clausing-Colchester lathe must pass tolerance tests such as those shown below. Inspection after inspection, and test after test — at every stage of manufacture and assembly — assure that every lathe measures up to rigid specifications of construction and performance.

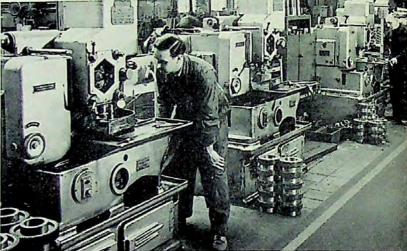
The Clausing-Colchester name plate is a symbol of quality, precision and value.

PERMISSIBLE		PERMISSIBLE		PERMISSIBLE
ACTUAL	TEST	ERROR	TEST	ERROR
ERROR		ERROR		ACTUAL ERROR
When using Precision Level all Readings to be within 0.0006 in 12 in. of Bed Length	HEADSTOCK ALIGNMENT—	High at end of 12 in. Test Bar rising towards Tailstock End 0 to 0.0005	LEAD SCREW CAN ACTION	Maximum 0.0003
When using				
Precision Level along Bed Maximum Reading to be within 0.0005 in 12 in. of Bed Length		At end of 12 in. Test Bar 0 to = 0.0003		To face hollow or concave only on 12 in. diameter 0 to 0.0005
	HEADSTOCK ALIGNMENT— HORIZONTAL		CROSS SLIDE ALIGNMENT	
Maximum Reading along length of Bed 0.0005 in 48 in.	TAILSTOCK SPINDLE ALIGNMENT—HORIZONTAL	Forward at end of Spindle when fully extended 0 to 0.0005	FACE PLATE RUNOUT	On diameter 0 to 0.0005 on face at normal diameter 0 to 0.001
	11 4-0	High	18	Must turn round
Indicator Reading 0 to 0.0004	TAILSTOCK SPINDLE ALIGNMENT—	at end of Spindle when fully extended 0 to 0.0005	WORK MOUNTED IN CHUCK	0.0003 Must turn cylindrical on 12 in. length of workpiece 0.0008
Total Indicator Reading 0 to 0.0003	TAILSTOCK TAPER ALIGNMENT—	End of 12 in. Test Bar 0 to ± 0.0005	19	Must turn cylindrical on a 12 in. length of workpiece 0.0004
Total	HORIZONTAL			
Indicator Reading with Indicator on rear side of Test Plate 0 to 0.0003	TAILSTOCK TAPER ALIGNMENT— VERTICAL	High at end of 12 in. Test Bar 0 to 0.0005	LEAD SCREW LEAD PER FT. LEAD IN ANY 4"	± 0.001
Total Indicator Reading at end of 12 in. Test Bar 0 to 0.0006 at end of Spindle Nose 0 to 0.0003	VERTICAL ALIGNMENT OF	High at Tailstock 0 to 0.001	BACK LASH ON CROSS FEEDS SCREW ON COMPOUND REST SCREW	0.004
	ACTUAL ERROR When using Precision Level all Readings to be within 0.0006 in 12 in. of Bed Length When using Precision Level along Bed Maximum Reading to be within 0.0005 in 12 in. of Bed Length Maximum Reading along length of Bed 0.0005 in 48 in. Total Indicator Reading 0 to 0.0004 Total Indicator Reading 0 to 0.0003 Total Indicator Reading 0 to 0.0003	When using Precision Level all Readings to be within 0.0006 in 12 in. of Bed Length When using Precision Level along Bed Maximum Reading to be within 0.0005 in 12 in. of Bed Length Maximum Reading along length of Bed 0.0005 in 48 in. Total Indicator Reading 0 to 0.0004 TallsTOCK SPINDLE ALIGNMENT—HORIZONTAL Total Indicator Reading 0 to 0.0003 TallsTOCK TAPER ALIGNMENT—HORIZONTAL Total Indicator Reading of 10 to 0.0003 TallsTOCK TAPER ALIGNMENT—HORIZONTAL Total Indicator Reading with Indicator On tear side of Test Plate 0 to 0.0003 TallsTOCK TAPER ALIGNMENT—VERTICAL Total Indicator Reading with Indicator On tear side of Test Plate 0 to 0.0003 TallsTOCK TAPER ALIGNMENT—VERTICAL Total Indicator Reading with Indicator On tear side of Test Plate 0 to 0.0003 TallsTOCK TAPER ALIGNMENT—VERTICAL Total Indicator Reading at end of Spindle Nose 0 to 0.0003 TallsTOCK TAPER ALIGNMENT—VERTICAL	TEST ACTUAL ERROR ACTUAL High at end of 12 in. Test Bar of 12 in. Test Bar of 5 pindle when fully extended 01 to 0.0005 in 48 in. Total Indicator Reading 0 to 0.0003 TAILSTOCK SPINDLE ALIGNMENT— HIGH At end of Spindle when fully extended 01 to 0.0005 TAILSTOCK SPINDLE ALIGNMENT— HIGH At end of Spindle when fully extended of 10 to 0.0005 TAILSTOCK TAPER ALIGNMENT— High at end of 12 in. Test Bar of to 1.0.0005 TAILSTOCK TAPER ALIGNMENT— Forward at end of 12 in. Test Bar of to 1.0.0005 TAILSTOCK TAPER ALIGNMENT— Find of 12 in. Test Bar of to 1.0.0005 TAILSTOCK TAPER ALIGNMENT— VERTICAL Total Indicator Reading of to 0.0003 TAILSTOCK TAPER ALIGNMENT— VERTICAL Total Indicator Reading at end of 12 in. Test Bar of to 1.0.0005 TAILSTOCK TAPER ALIGNMENT— VERTICAL Total Indicator Reading at end of 12 in. Test Bar of to 1.0.0005 TAILSTOCK TAPER ALIGNMENT— VERTICAL High at end of 12 in. Test Bar of to 0.0.0005 VERTICAL ALIGNMENT OF VERTICAL ALIGNMENT OF	ERROR ACTUAL ERROR When using Presision Level HEADSTOCK ALIGNMENT— Total Indicator Reading along along HEADSTOCK ALIGNMENT— HEADSTOCK ALIGNMENT— HEADSTOCK ALIGNMENT— HEADSTOCK SPINDLE ALIGNMENT— HORIZONTAL Total Indicator Reading 0 to 0.0005 TAILSTOCK SPINDLE ALIGNMENT— FACE PLATE RUNOUT Total Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator Reading 0 to 0.0005 TAILSTOCK TAPER ALIGNMENT— HIGH Indicator On rear side of feel fails Of 12 in. Test Bar Of 12









Clausing-Colchester lathes are produced in England by Europe's largest manufacturer of precision lathes - recognized as the leader in its field for more than fifty years.

They are built to American standards of tool room lathe accuracy. All parts are completely interchangeable and replacement parts are readily available. Screws and bolts used in assembly have threads and heads that are standard in the United States.

Clausing-Colchester lathes are backed by the coast-to-coast sales, service and dealer organization of one of America's leading machine tool manufacturers - Clausing.

Clausing-Colchester lathes are guaranteed to equal or exceed the standards of accuracy as represented.

They are guaranteed against defects in material and workmanship for a period of one year, subject to standard warranty procedure. Design and construction are subject to modification and improvement without notice.

CLAUSING DIVISION, ATLAS PRESS CO., KALAMAZOO, MICH., U. S. A.

NUMERICAL PRICE LIST FOR

CLAUSING

LATHES AND ACCESSORIES

PRICE LIST 6582-2

NOVEMBER, 1956

We reserve the right to make changes in price, design and specifications without notice, and those in effect at date of shipment will apply. Prices marked (*) are F.O.B. factory; all others are F.O.B. nearest port accepting or open to ocean traffic. A minimum billing of \$1.00 will be made on any order.

	CLAUSING DIVISION		ATLAS PRESS CO.		KALAMAZOO,	MICHIGAN		U.S.A.
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Catalog No.	Description	Price
	13" STRAIGHT BED LATHES	
	WITH ONE SPEED MOTOR	
6564 6565	24" Centers, 52½" Bed	\$1952.00 2069.00
	WITH TWO SPEED MOTOR	
6524 6525	24" Centers, 52½" Bed	2072.00
	13" GAP BED LATHES	
	WITH ONE SPEED MOTOR	
6566 6567	24" Centers, 52½" Bed 36" Centers, 64" Bed	2052.00
	WITH TWO SPEED MOTOR	
6526 6527	24" Centers, 52½" Bed	2172.00
	15" STRAIGHT BED LATHES	
	WITH ONE SPEED MOTOR	
5574 5575	30" Centers, 65" Bed	2744.00 2919.00
	WITH TWO SPEED MOTOR	
534	30" Centers, 65" Bed	2904.00 3079.00
	15" GAP BED LATHES	
	WITH ONE SPEED MOTOR	
576 577	30" Centers, 65" Bed	2894.00 3059.00
	WITH TWO SPEED MOTOR	
536 5 3 7	30" Centers, 65" Bed	3054.00
	17" STRAIGHT BED LATHES	
	WITH ONE SPEED MOTOR	
582	78" Centers, 120" Bed	4370.00
	WITH TWO SPEED MOTOR	
542	78" Centers, 120" Bed	4558.00
	17" GAP BED LATHES	
	WITH ONE SPEED MOTOR	
594 583	54" Centers, 96" Bed	4345.00 4580.00
	WITH TWO SPEED MOTOR	
554 543	54" Centers, 96" Bed	4768.0

atalog o.	Description	Price
/2-R	Enco Turret Tool Post for 15" lathe	77.00
/2-5	Enco Turret Tool Post for 13" lathe	62.50
S	Enco Turret Tool Post for 17" lathe	125.00
3-201	7½" Universal Chuck for 13" lathe	110.00
3-202 3-203	10" Independent Chuck for 13" lathe	110.00
3-203	18" Face Plate for Gap Bed lathe, ASA—L-0 spindle	110.0
3-204	4-Way Turret for 13" lathe (in place of standard compound)	172.00
-206	Collet Chuck for ASA—L-0 nose, less collet	133.00
3-207	Round Collet for No. 13-206. 1/16" to 1" dia. Specify dia.	9.0
-208	Coolant System for 13" lathe	118.50
-209	Taper Attachment for 13" lathe	193.2
-210	Steady Rest for 13" lathe	37.0
-212	Reversing Switch for 13" lathe	44.2
-215	Rotating Center, No. 3 MT, for 13" lathe	25.5
3-218	Back Plate for ASA—L-0 spindle nose	57.7
-401	9" Universal Chuck for 15" lathe	160.0
-402	12" Independent Chuck for 15" lathe	166.5
-403	21" Face Plate for Gap Bed Lathe, ASA—L-1 nose	67.7
-404	4-Way Turret for 15" lathe (in place of standard compound)	142.0
-405	4-Way Turret for 15" lathe (ordered as accessory)	229.0
-406	Collet Chuck for ASA—L-1 spindle nose, less collet	180.0
-407	Round Collet for No. 15-406. 3/16" to 2" dia. Specify dia.	16.2
-408	Coolant System for 15" lathe	146.0
-409	Taper Attachment for 15" lathe	350.0
-410	Steady Rest for 15" lathe	61.5
-412	Reversing Switch for 15" lathe	44.2
-417	Back Plate for ASA—L-1 spindle nose	71.2
-421 -501	Rotating Center, No. 3 MT, for 15" lathe	25.5
-502	12" Universal Chuck for 17" lathe	237.0
-502 -50 3	16" Independent Chuck for 17" lathe	217.5
-50 3 -50 4	A.Way Turnet for 17" lathe (in place of standard company)	102.0
-505	4-Way Turret for 17" lathe (in place of standard compound) 4-Way Turret for 17" lathe (ordered as accessory)	149.0
506	Collet Chuck for ASA—L-2 spindle nose, less collet	260.0
507	Round Collet for No. 17-506. 3/16" to 2" dia. Specify dia.	186.0
508	Coolant System for 17" lathe	16.2
-510	Plain Taper Attachment for 17" lathe	395.0
-511	Steady Rest for 17" lathe	75.2
-513	Reversing Switch for 17" lathe	44.2
-516	Rotating Center, No. 4 MT, for 17" lathe	31.5
-519	Back Plate for ASA—L-2 spindle nose	76.5
-T1	Jacobs Collet Chuck for 15" lathe	260.0
-TO	Jacobs Collet Chuck for 13" lathe	240.0
25	Enco Hex Bed Turret for 13" lathes	380.0
50	Enco Hex Bed Turret for 17" lathes	545.0
1	Enco Hex Bed Turret for 15" lathes	465.0
3	Jacobs Round Collet 1/16"—1/9"	13.7
4	Jacobs Round Collet 1/8"—1/4"	13.7
5	Jacobs Round Collet 1/4"—3/8"	13.3
6	lacobs Round Collet 3/6"—1/3"	13.7
7	Jacobs Round Collet 1/2"—5/8"	13.
8	Jacobs Round Collet $\frac{3}{8}$ "— $\frac{3}{4}$ "	13.
9	Jacobs Round Collet 3/4"— 1/8"	13.
0		13.7
1	Jacobs Round Collet 1"— 11/8"	13.
2	Jacobs Round Conet 1/8 1/4	13.7
3	Jacobs Round Collet 11/4"—13/8"	13.
3	Jacobs Hexagon Collets for Nos. 91-T0, 91-T1 chucks. Specify diameter	15.
4	Jacobs Square Collets for Nos. 91-T0, 91-T1 chucks. Specify diameter	15.
		_
	Soft Blank Jaws for Universal Scroll Chucks:	
13-219	Soft Blank Jaws for No. 13-201, 71/2" dia	19.50
15-422	Soft Blank Jaws for No. 15-401, 9" diaper set	24.50
17-520	Soft Blank Jaws for No. 17-501, 12" dia	30.50
	Master Jaws for Universal Scroll Chucks:	23.02
13-220	Master Jaws for No. 13-201 chuckper set	28.75
15-423	Master Jaws for No. 15-401 chuckper set	36.75
17-521	Master Jaws for No. 17-501 chuckper set	48.75
	Hard Ton James for marter laws	
45,524	Hard Top Jaws for master jaws:	
13-221	Hard Top Jaws for No. 13-201per set	22.00
15-424	Hard Top Jaws for No. 15-401per set	27.00
17-522	Hard Top Jaws for No. 17-501per set	37.00
	Soft Ton Investor Investor Invest	
	Soft Top Jaws for master jaws:	Charles
13-222	Soft Top Jaws for No. 13-201per set	16.50
	of mir v f at an las	
15-425	Soft Top Jaws for No. 15-401	18.75 24.50

