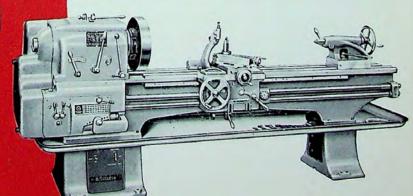


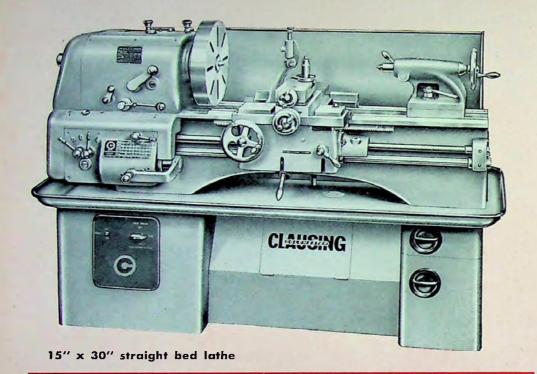
PRECISION LATHES

SOLD BY:

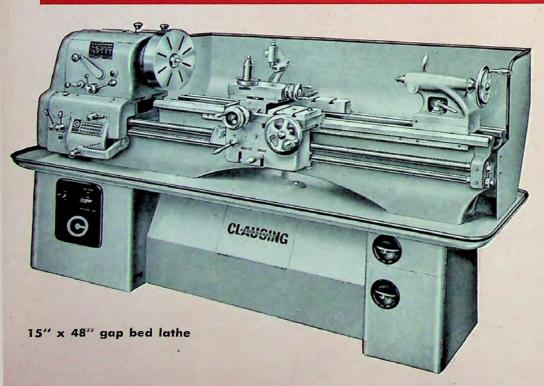


CLAUSING DIV. ATLAS PRESS KALAMAZOO, MICHIGAN, U.S.A.

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



ALGING



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

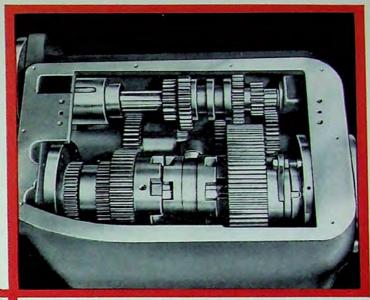
Their outstanding value and record of performance are the result of this experience, and the modern production facilities used in their manufacture. Highly specialized precision equipment, coupled with a unique system of tooling and gauging, assure the highest standards of accuracy, and uniformity of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

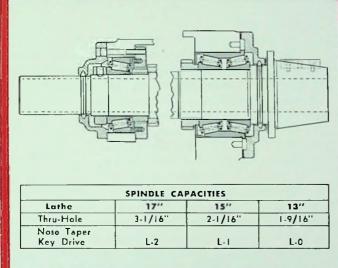
Clausing-Colchester lathes, manufactured in England, are the product of Europe's largest and most modern factory devoted exclusively to the manufacture of precision lathes. They are backed by the nation-wide Clausing sales, service and dealer organization.

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 heattreated 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.

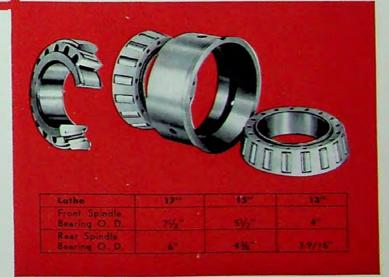




Headstock spindles are heat-treated high-tensile steel hammered forgings. Hardened nose is American Standard taper key-lock — spindle may be reversed without danger of the chuck's coming off. Note — in chart at left — the larger sizes and capacities — greater than those of lathes in the Clausing-Colchester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

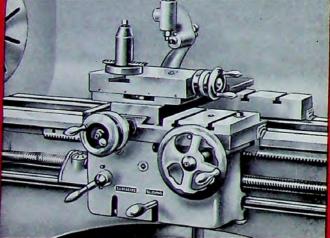
Spindle bearings are larger — see chart at right.

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.



CLAUSING heavy duty, precision lathes





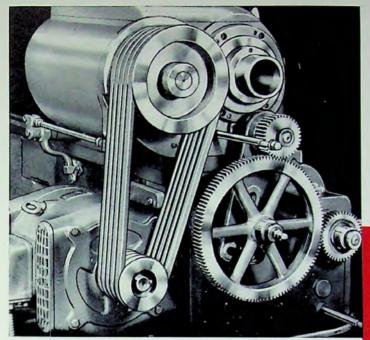


Apron is one-piece, double-walled — all shafts turn in two bearings — gear trains are protected against misalignment and dirt. Carriage has large bearing surfaces on bed, and is secured to bed by heavy plates bearing on front and rear ways. All surfaces of the saddle, cross slide and compound are precision 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.

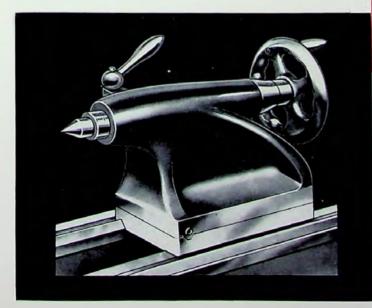
Note, in second illustration at left, the carriage provided with gap-bed lathes. Cross slide position brings cutting tool to outer edge of gap. Has boring-type teeslotted saddle. Controls on apron are located away from gap, for operator convenience and safety.

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.

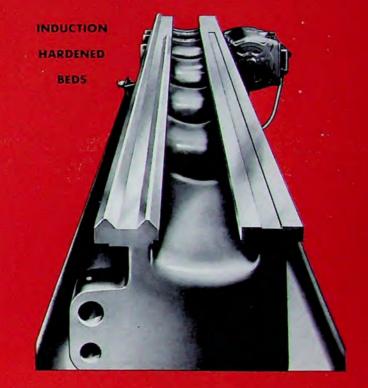
Power feeds are taken from a separate feed rod. The lead screw is used for threading only — another feature of design that gives you longer service and accuracy with a Clausing-Colchester. For safety, feed rod has springball clutch that releases rod whenever the load becomes too great and automatically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



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.



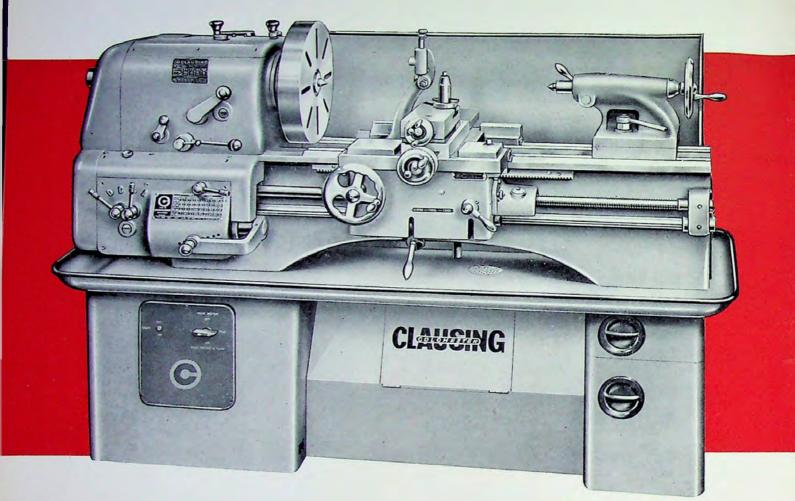
Bed ways are induction hardened to a Brinell hardness of 500, and are precision ground parallel to extremely close tolerance. Beds are massive, dense castings — 50% steel, 50% iron — with elliptical cross ribbing for maximum rigidity. 17" and 15" lathes have two Vways at front, two flat ways at rear. 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.



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



Swing Over Bed	Between Centers	Bed Length	Net Weight	Shipping Weight
	STRAIGHT	BED LATH	IES	
	ONE SPI			
15"	30"	65"	2100 lb.	2700 lb
15"	48"	83"	2250 Ib.	2970 Ib
	TWO SP			
15"	30"	65"	2100 lb.	2700 lb
15"	48"	83″	2250 lb.	2970 lb
	GAP BE	D LATHES		
	ONE SPE	ED MOTOR		
15"	30"	65"	2100 lb.	2700 Ib.
15"	48"	83"	2250 lb.	2970 lb.
	TWO SPE			
15"	30"	65"	2100 lb.	2700 lb.
15"	48"	83″	2250 lb.	2970 lb.
	Over Bed 15" 15" 15" 15" 15" 15"	Over Bed Centers STRAIGHT ONE SPI 15" 30" 15" 48" TWO SPI 30" 15" 48" GAP BE ONE SPE 15" 30" 15" 48" TWO SPE 50" 15" 48" TWO SPE 15" 15" 30" 15" 30" 15" 30"	Over Bed Centers Length STRAIGHT BED LATH ONE SPEED MOTOR 15" 30" 65" 15" 48" 83" TWO SPEED MOTOR 15" 30" 65" 15" 48" 83" GAP BED LATHES ONE SPEED MOTOR 15" 30" 65" 15" 48" 83" TWO SPEED MOTOR 15" 30" 65" 15" 30" 65" 15" 30" 65" 15" 30" 65"	Over Bed Centers Length Weight STRAIGHT BED LATHES ONE SPEED MOTOR 15" 30" 65" 2100 lb. 15" 48" 83" 2250 lb. 15" 30" 65" 2100 lb. 15" 48" 83" 2250 lb. 15" 30" 65" 2100 lb. 15" 30" 65" 2100 lb. 15" 30" 65" 2100 lb. GAP BED LATHES ONE SPEED MOTOR 15" 30" 65" 2100 lb. 15" 30" 65" 2100 lb. 15" 30" 65" 2100 lb. 15" 30" 65" 2100 lb.

AUGHE

C

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.

S P E C I F I C A T I O N S

CAPACITIES AND CLEARANCES

Swing over bed 15"
Swing over cross slide 9"
Swing over carriage wings 14"
Swing over compound rest 3-11/16"
Distance between centers, flush 30" or 48"
Face plate, dia 14"
Driving plate, dia 8"
Follower rest, capacity
Steady rest, capacity 5"

HEADSTOCK

Hole through spindle 2-1/16"
Spindle nose, A.S. taper key driveL-1
Taper in spindle nose bushingNo. 3 MT
Spindle center No. 3 MT
Spindle bearings, Gamet Micron Precision tapered roller
bearings
Front double row
Rearsingle row, spring loaded
Spindle bearing outside diameters

Front	
Rear	4 ³ /8''

THERE)

Ways 2 V, 2 Flat
Length 65" or 83"
Width 10"
Depth at ends 147/8"
Depth at center 10"

TAILSTOCK

Spindle, dia	'
Center No. 3 MT	
Spindle travel 6'	•
Spindle graduated0" to 6" by 1/8'	'

CARRIAGE AND COMPOUND

Carriage length 171/2"
Width of carriage bridge 8"
Width of cross slide
Width of compound rest
Cross slide travel 9"

Compound rest travel	
Tool post, slot	for 5/8" square tools

SPINDLE SPEEDS

 Spindle speeds, with 1 speed motor
 8

 Speed range, with 1 speed motor, RPM
 ...40, 77, 109, 161, 205, 305, 425, 800

 Spindle speeds, with 2 speed motor
 16

 Speed range, with 2 speed motor, RPM
30, 58, 60, 82, 115, 120, 153, 163, 229, 241, 307, 319, 457, 600, 637, 1200

MOTORS

One speed 3 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

THI EADS AND FEEDS

Lead screw, dia
Feed rod, dia 1"
Number of threads
Range
$4, 4\frac{1}{2}, 4\frac{3}{4}, 5, 5\frac{1}{2}, 5\frac{3}{4}, 6, 6\frac{1}{2}, 7, 8, 9,$
$9^{1}/_{2}$, 10, 11, $11^{1}/_{2}$, 12, 13, 14, 16, 18, 19,
20, 22, 23, 24, 26, 28, 32, 36, 38, 40,
44, 46, 48, 52, 56
Number of feeds 36
Feed range
NOTE: Change gear furnished provides additional feed range — $\frac{1}{2}$ those shown above.

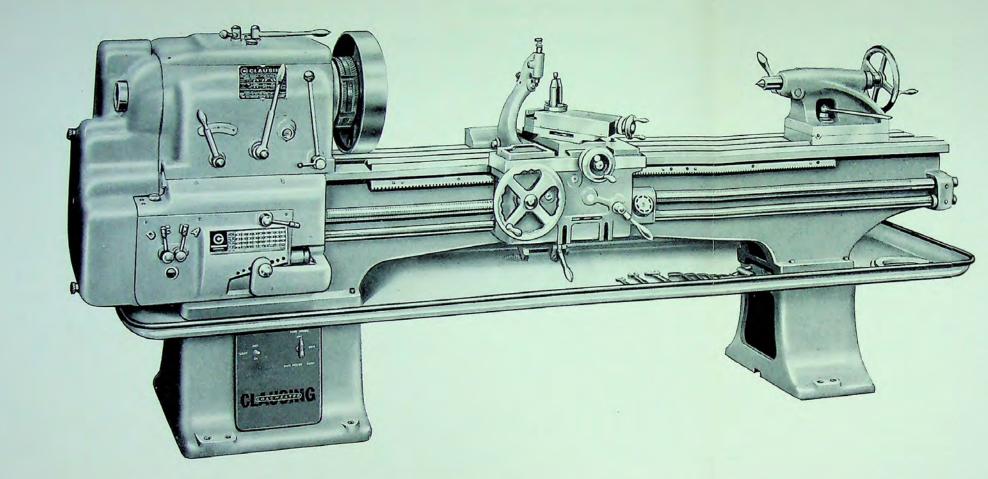
GAP BED MODELS

Swing in gap	24"
Length of gap in front of face plate	6"

NOTE: Other specifications similar to straight bed model.

Finish, all models, light machine tool grey.

CRUCERNG 17-inch heavy duty geared head precision lathes



Catalog Number	Swing Over Bed	Berween Centers	Bed Length	Net Weight	Shipping Weight
		STRAIGHT	BED LATI	IES	
		ONE SP	EED MOTOR		
6582	17″	78″	120"	4020 Ib.	5160 lb.
		TWO SP			
6542	17"	78″	120″	4020 lb.	5160 lb.
		GAP BE	D LATHES		
		ONE SPE	ED MOTOR		
6594 6583	17" 17"	54" 78"	96″ 120″	3720 lb. 4020 lb.	4620 lb. 5160 lb.
		TWO SPE	ED MOTOR		
554 543	17" 17"	54" 78"	96″ 120″	3720 lb. 4020 lb.	4620 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 with

out notice. Weights shown are approximate.

CAPACITIES AND CLEARANCES

Swing over	bed	17"
	cross slide	
	carriage wings	
Swing over	compound rest	41/4"
	ween centers, flush 54"	
Face plate,	dia	16"
	te, dia	
	st, capacity	
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	
Spindle center	
pindle bearings, Gamet Micron Precision	
tapered roller bearings	
Frontdouble row	
Rearsingle row, spring loaded	

Spindle bearing outside diameters

Front	
Rear	 · · · · · · · · · · · · · · · · · · ·

BED

BED	
Ways	2 V, 2 Flat
Length	96" or 120"
Width	127/8"
Depth at ends	18"
Depth at center	113/4"

TAILSTOCK

Spindle, dia 2"
Center
Spindle travel
Spindle graduated

CARRIAGE AND COMPOUND

Carriage length	20"
Width of carriage bridge	83/4"
Width of cross slide	63/4"
Width of compound rest	
Cross slide travel	
Compound rest travel	
Tool post, slotfor 3/4" squar	e tools

SPINDLE SPEEDS

Spindle speeds, with 1 speed motor 8
Speed range, with 1 speed motor, RPM 37, 56, 87, 125,
180, 270, 415, 600
Spindle speeds, with 2 speed motor 16
Speed range, with 2 speed motor, RPM
84, 94, 130, 135, 187, 202, 270, 311, 405, 450, 622, 900

MOTORS

MOTORS
One speed5 HP, 1720 RPM, 3 ph, 220-440 V, 60 C Two speed4 - 8 HP, 900 - 1800 RPM, 3 ph, 220 or 440 V, 60 C
Specify voltage when ordering.
Number of V-belts 5
THREADS AND FEEDS
Lead screw, dia 11/2"
threads per inch, Acme
Feed rod, dia
1/4
Number of threads
Range
4, 41/2, 43/4, 5, 51/2, 53/4, 6, 61/2, 7, 8, 9,
$9\frac{1}{2}$, 10, 11, $11\frac{1}{2}$, 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 — ¹ /2 those shown above.

GAP BED MODELS

Swing in gap
NOTE: Other specifications similar to straight bed models.
Finish, all models, light machine tool grey.



89

13" heavy duty geared head precision lathes

CLAUGING

_					
Catalog	Swing	Between	Bed	Net	Shipping
Number	Over Bed	Centers	Length	Weight	Weight

STRAIGHT BED LATHES

		ONE SI	EED MOTOR		
6564	13"	24″	521/2"	1350 lb.	1860 lb.
6565	13"	36"	64"	1410 lb.	1920 lb.
		TWO S	PEED MOTOR		
6524	13"	24"	52 ¹ /2"	1350 lb.	1860 lb.
6525	13"	36″	64"	1410 lb.	1920 lb.
		GAP B	ED LATHES		
		ONE SP	EED MOTOR		
6566	13"	24"	521/2"	1350 lb.	1860 lb.
6567	13"	36"	64"	1410 lb.	1920 lb.
		TWO SP	EED MOTOR		
6526	13"	24"	52 ¹ /2"	1350 lb.	1860 lb.
6527	13"	36"	6-1"	1410 lb.	1920 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. 12" face plate, 6" 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.

S P E C I F I C A T I O N S

CAPACITIES AND CLEARANCES

Swing over bed 1	3″
Swing over cross slide	9″
Swing over carriage wings 1	2″
Swing over compound rest	8"
Distance between centers, flush	6"
Face plate, dia 1	2″
Driving plate, dia.	6″
Follower rest, capacity	
Steady rest, capacity	

HEADSTOCK

Hole through spindle 1-9/16"
Spindle nose, A.S. taper key driveL-0
Taper in spindle nose bushing
Spindle center
Spindle bearings, Gamet Micron Precision tapered roller
bearings
Frontdouble row
Rear single row, spring loaded
Spindle bearing outside diameters
Front 4"
Rear

BED

Ways 2 V, 2 Flat
Length
Width
Depth at ends 117/8"
Depth at center

TAILSTOCK

Spindle, dia	8"
Center	T
Spindle travel 41/	4"
Spindle graduated	8

CARRIAGE AND COMPOUND

Carriage length	131/2"
Width of carriage bridge	. 6"
Width of cross slide	. 4"
Width of compound rest	31/2"
Cross slide travel	71/2"

Compound rest travel	
Tool post, slot	

SPINDLE SPEEDS

MOTORS

One speed 1 ¹ / ₂ HP, 1720 RPM, 3 ph, 220-440 V, 60 C
Two speed $1\frac{1}{2}$ - 3 HP, 900 - 1800 RPM, 3 ph,
220 or 440 V, 60 C
Specify voltage when ordering.
Number of V-belts 2

THREADS AND FEEDS

Lead screw, dia
threads per inch, Acme 6
Feed rod, dia 3/4"
Number of threads
Range
$4, 41/_2, 43/_4, 5, 51/_2, 53/_4, 6, 61/_2, 7, 8, 9,$
$9\frac{1}{2}$, 10, 11, $11\frac{1}{2}$, 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 0.068" to 0.005"
NOTE: Change gear furnished provides additional feed range —

NOTE: Change gear furnished provides additional feed range — 1/2 those shown above.

GAP BED MODELS

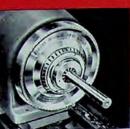
Swing in gap		1	8″
Length of gap	p in front of face	plate	1/2"

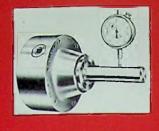
NOTE: Other specifications similar to straight bed model. Finish, all models, light machine tool grey.

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 521/2 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 77¹/₂ lb. No. 15-402 12" 4-JAW INDEPENDENT CHUCK for ASA—L-1 spindle of 15" lathe. Net weight 92 lb. Shipping weight 111¹/₂ 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

Mechanite 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. 91-71 JACOBS COLLET CHUCK for ASA-L-1 spindle of 15" lathe. 16 lb.

JACO	DBS	ROU	ND	COL	LETS
------	-----	-----	----	-----	------

Collet No.	Collet Range	Wt. Lb.	Collet No.	Collet Range	Wt. Lb.
7553	18" - 1/8"	1	7558	3/8" - 3/4"	1
7554	1/n" - 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	11/8" - 11/4"	1
			7563	11/4" - 13/8"	1

No. 7593 JACOBS HEXAGON COLLETS for Nos. 91-T0 and 91-T1 chucks available in 16th between $\frac{1}{4}$ and 1". Specify diameter.

No. 7594 JACOBS SQUARE COLLETS for Nos. 91-T0 and 91-T1 chucks available in 16ths between $\frac{1}{4}$ 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.

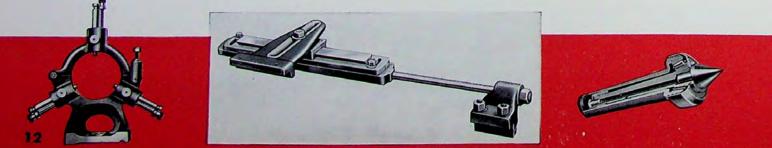
PLAIN TAPER ATTACHMENTS

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.



the second second

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

ENCO TURRET TOOL POST

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

Order No.	For Latho	Tool Sizo Range	Tool Block Specifications	Shipping Weight
41/2-5	13"	*/4"	4 TOOL-12 POSITION 41/2" sq. x 21/4" thick	15 lb.
41/2-R	.15"	1" or #1 HSS tool holder	4 TOOL-12 POSITION 41/2" sq. x 23/4" thick	17 lb.
6-5	17"	11/4" or #2 HSS tool holder	4 TOOL-12 POSITION 6" sq. x 3 to" 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 Ib.

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

ENCO Self-Indexing HEX BED TURRETS

		Hex. Head Dims.		Tool Hole Size				Slide
Model No.	For Lothe	Across Flats	Face Dims.	Rough Bored	Finish Bore	Slide Length	Slide Total Travel	Work- ing Travel
E425	13"	55/8"	2 ⁷ / ₈ " x 3"	Blank	1″	141/4"	51/4"	41/4"
E651	15"	5%a"	2½" x 3"	Blank	1"	161/2"	71/2"	61/2"
E650	17"	7″	3 ¹ / 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 $3\frac{1}{2}$ gallons per minute. Tank capacity, 5 gallons. Pump for 13'' and 15'' lathes mounts in built-in tank in lathe base —

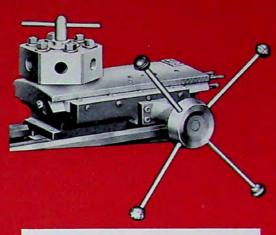
Pump for 13" and 15" lathes mounts in built-in tank in lathe base both are readily accessible through door in front of lathe. Pump and tank for 17" lathe mount on floor beneath chip pan. Switch mounts in electric control panel. System is installed and wired at factory when ordered with 13" and 15" lathes.

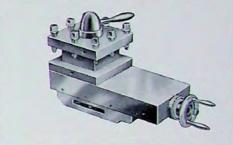
No. 13-208 COOLANT SYSTEM for 13" lathes. No. 15-408 COOLANT SYSTEM for 15" lathes. No. 17-508 COOLANT SYSTEM for 17" lathes.

REVERSING SWITCH

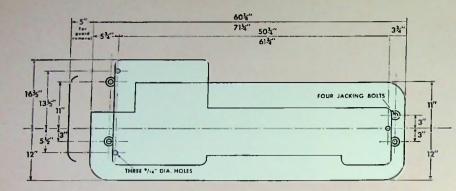
Switch is furnished with linkage that mounts inside switch controllever shaft. Installed and wired when ordered with lathe. Brake must be used to stop spindle before motor is reversed.

No. 13-212 REVERSING SWITCH for 13" lathe. No. 15-412 REVERSING SWITCH for 15" lathe. No. 17-513 REVERSING SWITCH for 17" lathe.





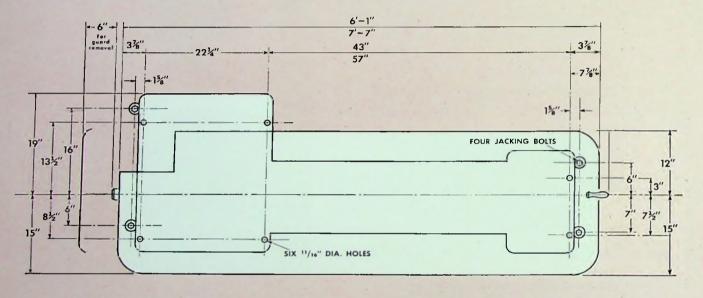




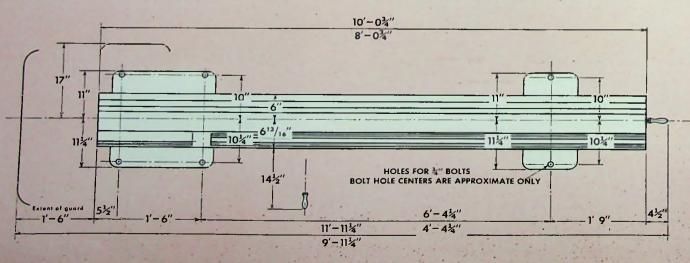


13" LATHES

15" LATHES



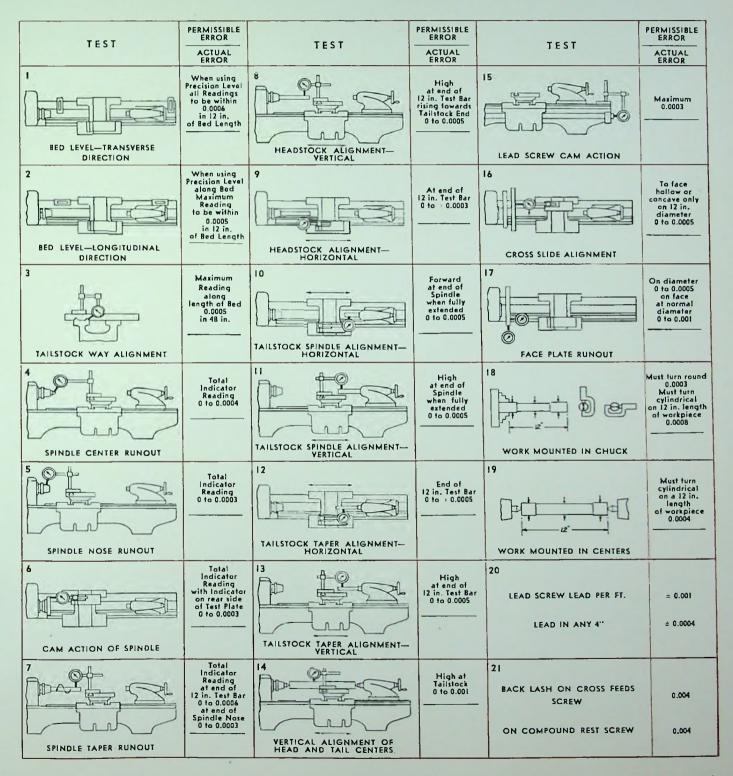
17" LATHES

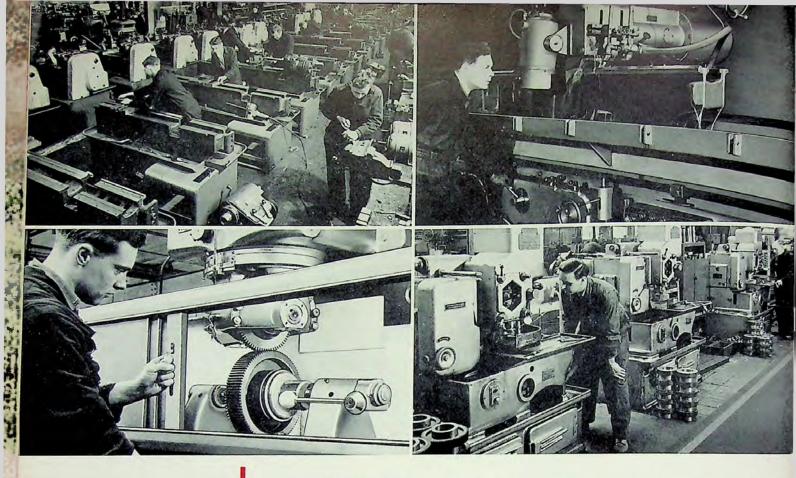


Built to American standards of toolroom lathe accuracy

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.





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 stand-ard 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



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 apen 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.

Catalog No.	Description	Price
	13" STRAIGHT BED LATHES	
	WITH ONE SPEED MOTOR	
6564 656 5	24" Centers, 52 ¹ / ₂ " Bed	\$1952.00 2069.00
6524 6525	24" Centers, 521/2" Bed	2072.00 2189.00
	13" GAP BED LATHES	
	WITH ONE SPEED MOTOR	
656 6 656 7	24" Centers, 521/2" Bed	2052.00 2169.00
6526	WITH TWO SPEED MOTOR	2172.00
6527	36" Centers, 64" Bed	2289.00
	15" STRAIGHT BED LATHES	
	WITH ONE SPEED MOTOR	
65 74 65 75	30" Centers, 65" Bed 48" Centers, 83" Bed	2744.00 2919.00
5534	WITH TWO SPEED MOTOR 30" Centers, 65" Bed	
535	48" Centers, 83" Bed	3079.00
	15" GAP BED LATHES	
	WITH ONE SPEED MOTOR	
576 577	30" Centers, 65" Bed 48" Centers, 83" Bed	
	WITH TWO SPEED MOTOR	
536 5 37	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	4345.00
594 583	54" Centers, 96" Bed	4345.00
554	WITH TWO SPEED MOTOR 54" Centers, 96" Bed	4533.00
543	78" Centers, 120" Bed	4768.00

Turn page for Accessories

Catalog No.	Doscription	Price
4 ½-R	Enco Turret Tool Post for 15" lathe\$	77.00*
4 1/2-S	Enco Turret Tool Post for 13" lathe	62.50*
6-S	Enco Turret Tool Post for 17" lathe	125.00*
13-201	7 ¹ / ₂ " Universal Chuck for 13" lathe	110.00 110.00
13-202 13-203	10" Independent Chuck for 13" lathe 18" Face Plate for Gap Bed lathe, ASA—L-0 spindle	46.75
13-204	4-Way Turret for 13" lathe (in place of standard compound)	110.00
13-205	4-Way Turret for 13" lathe (ordered as accessory)	172.00
13-206	Collet Chuck for ASA-L-0 nose, less collet	133.00
13-207 13-208	Round Collet for No. 13-206. 1/16" to 1" dia. Specify dia Coolant System for 13" lathe	9.00 118.50
13-209	Taper Attachment for 13" lathe	193.25
13-210	Steady Rest for 13" lathe	37.00
13-212	Reversing Switch for 13" lathe	44.25
13-215	Rotating Center, No. 3 MT, for 13" lathe	25.50
13-218 15-401	Back Plate for ASA—L-0 spindle nose	57.75 160.00
15-402	12" Independent Chuck for 15" lathe	166.50
15-403	21" Face Plate for Gap Bed Lathe, ASA-L-1 nose	67.75
15-404	4-Way Turret for 15" lathe (in place of standard compound)	142.00
15-405	4-Way Turret for 15" lathe (ordered as accessory)	229.00
15-406 15-407	Collet Chuck for ASA—L-1 spindle nose, less collet	180.00 16.25
15-408	Coolant System for 15" lathe	146.00
15-409	Taper Attachment for 15" lathe	350.00
15-410	Steady Rest for 15" lathe	61.50
15-412 15-417	Reversing Switch for 15" lathe Back Plate for ASA—L-1 spindle nose	44.25
15-417	Rotating Center, No. 3 MT, for 15" lathe	71.25 25.50
17-501	12" Universal Chuck for 17" lathe	237.00
17-502	16" Independent Chuck for 17" lathe	217.50
17-503	25" Face Plate for Gap Bed Lathe, ASA-L-2 nose	102.00
17-504 17-505	4-Way Turret for 17" lathe (in place of standard compound)	149.00
17-505	4-Way Turret for 17" lathe (ordered as accessory) Collet Chuck for ASA-L-2 spindle nose, less collet	260.00 186.00
17-507	Round Collet for No. 17-506. 3/16" to 2" dia. Specify dia.	16.25
17-508	Coolant System for 17" lathe	175.00
17-510	Plain Taper Attachment for 17" lathe	395.00
17-511 17-513	Steady Rest for 17" lathe Reversing Switch for 17" lathe	75.25 44.25
17-516	Rotating Center, No. 4 MT, for 17" lathe	31.50
17-519	Back Plate for ASA—L-2 spindle nose	76.50
91-T1	Jacobs Collet Chuck for 15" lathe	260.00
91-TO E425	Jacobs Collet Chuck for 13" lathe	240.00
E425 E650	Enco Hex Bed Turret for 13" lathes Enco Hex Bed Turret for 17" lathes	380.00 545.00
E651	Enco Hex Bed Turret for 15" lathes	465.00
7553	Jacobs Round Collet $1/16'' - \frac{1}{6''}$	13.75
7554	Jacobs Round Collet $\frac{1}{8}'' - \frac{1}{4}''$	13.75
7555 7556	Jacobs Round Collet $\frac{1}{4}$ " — $\frac{1}{8}$ " Jacobs Round Collet $\frac{1}{4}$ " — $\frac{1}{2}$ "	13.75
7557	Jacobs Round Collet $\frac{1}{2}$ " — $\frac{1}{2}$ " Jacobs Round Collet $\frac{1}{2}$ " — $\frac{1}{2}$ "	13.75 13.75
7558	Jacobs Round Collet 2/a" - 2/a"	13.75
7559	Jacobs Round Collet $\frac{1}{8}$ " — $\frac{1}{8}$ " Jacobs Round Collet $\frac{1}{8}$ " — 1" Jacobs Round Collet $\frac{1}{8}$ " — 1" Jacobs Round Collet $\frac{1}{8}$ " — $\frac{1}{8}$ " Jacobs Round Collet $\frac{1}{8}$ " — $\frac{1}{4}$ "	13.75
7560	Jacobs Round Collet $\frac{7}{8}'' - 1''$	13.75
7561 7562	Jacobs Round Collet $1/8''$	13.75
7563	Jacobs Round Collet 1^{1}_{4} — 1^{3}_{4}	13.75
7593	Jacobs Round Collet 1/4"—11/4" Jacobs Hexagon Collets for Nos. 91-T0, 91-T1 chucks. Specify diameter	15.00
7594	Jacobs Square Collets for Nos. 91-T0, 91-T1 chucks. Specify diameter	15.00
	Soft Blank Jaws for Universal Scroll Chucks:	
13-219	Soft Blank Jaws for No. 13-201, 7 ¹ / ₂ " dia	19.50 24.50
17-520	Soft Blank Jaws for No. 17-501, 12" dia	30.50
10.00-	Master Jaws for Universal Scroll Chucks:	20 75
13-220	Master Jaws for No. 13-201 chuckper set Master Jaws for No. 15-401 chuckper set	28.75 36.75
15-423	Master Jaws for No. 17-501 chuck	48.75
	Hard Top Jaws for master jaws:	
13-221	Hard Top Jaws for No. 13-201 per set	22.00
15-424	Hard Top Jaws for No. 15-401per set Hard Top Jaws for No. 17-501per set	27.00 37.00
17-522		07.00
	Soft Top Janus for master janus	

Soft Top Jaws for master jaws:

Soft top Jaws for master laws:						
13-222	Soft Top Jaws for No. 13-201per set	16.50				
15-425	Soft Top Jaws for No. 15-401 per set	18.75				
17-523	Soft Top Jaws for No. 17-501 per set	24.50				

9 1057184M