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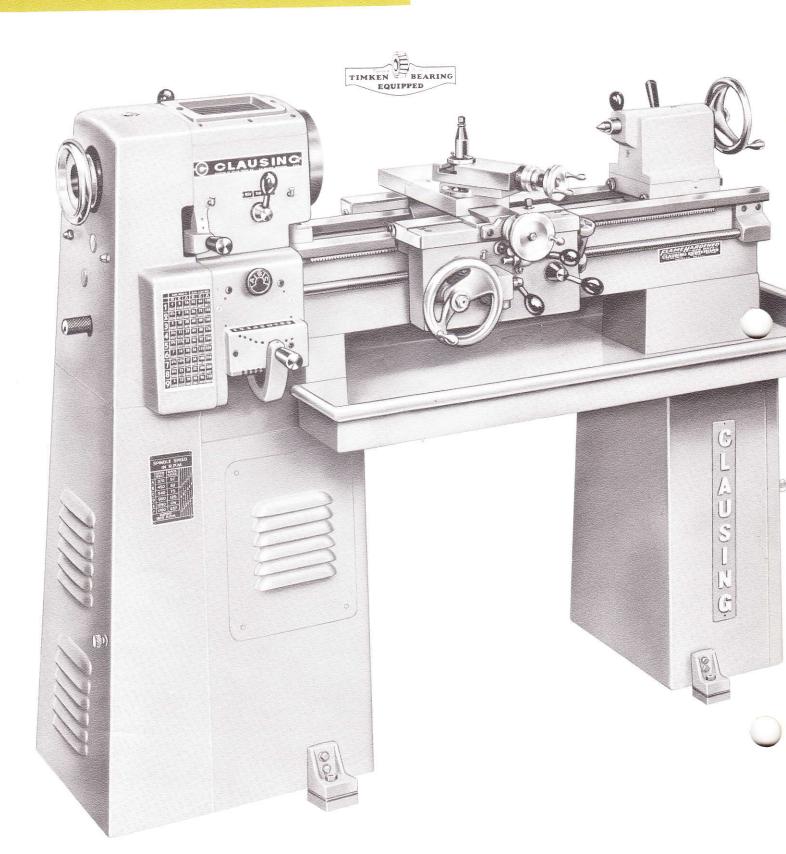
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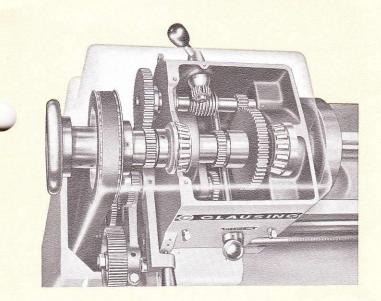
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10 - inch precision lathes

CLAUSING 10" precision lathes

*12 speeds – 52 to 1700 rpm *1 ¼" hole thru spindle *Flame hardened bed ways





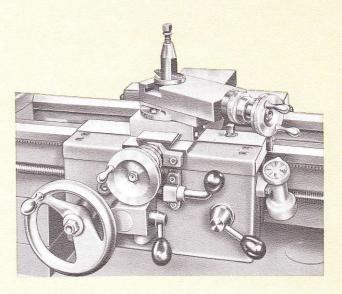
ENCLOSED HEADSTOCK-1-1/16" SPINDLE HOLE

Rigid box-type headstock — a precision housing — is hand fitted to bed ways. Headstock is enclosed — all controls, including those for back gears, are outside for safe, efficient operation. And, switch lever is interlocked to prevent engagement of back gears while lathe is running, or accidental reversing of spindle.

Forged spindle is chrome-moly steel. Has hardened nose, ground threads—turns on Timken tapered roller bearings. Spindle has 1-1/16" bore—larger thru-spindle work capacity.

BALL BEARING QUICK-CHANGE provides 54 feeds and threads (including $111/_2$ and 27) without change of gear train. Stack gear shaft and lead screw turn on lubricated-for-life ball bearings.

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CARRIAGE, POWER FEEDS

The husky carriage is engineered to take full advantage of Clausing's wider work range.

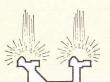
Hand fitted saddle bears a full 11-inches on bed ways. Wide, deep bridge provides a rigid support for the cutting tool.

Power feed gear shafts in apron are supported at both ends. Feeds are engaged thru fast-acting positive clutches — lead screw threads are used for thread cutting only. Indicator dial, furnished, simplifies threading. Feed screws have Acme threads, large micrometer graduated dials.

> Safety clutch in apron and shear pin in lead screw protect against overload. Safety-interlock prevents engaging half nuts and longitudinal feed at same time.

ELLIPTICALLY BRACED PORTED BED

The Clausing lathe bed is the largest and heaviest in its class. And, all four ways, two V's and two flats, are *flame hardened* and precision ground a standard feature that adds years to accuracy life. Clausing's exclusive bed design — with solid box end sections, angular way supports, elliptical bracing, and 70° ways — puts maximum strength where turning forces are greatest.



FLAME HARDENED BED WAYS

Cog belt, cog pulleys drive spindle – greater efficiency – more power – smoother operation

Tooth grip, not friction, transmits power from countershaft to spindle — teeth in belt mesh with teeth in pulleys — belt load on spindles and bearings is at a minimum.

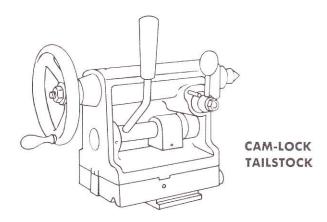
Countershaft and spindle drive pulley turn on heavyduty lubricated-for-life ball bearings. All pulleys are accurately machined, and entire drive is dynamically balanced after motor is installed.

This modern drive permits you to take full advantage of Clausing's superior construction and capacity — power for heavy cuts, smoothness for close tolerances, speeds for top efficiency with today's metals and tools.

UNIT ENGINEERED-ANOTHER CLAUSING EXCLUSIVE

The headstock, bed and pedestal are designed to form an integral unit—basic to Clausing's greater rigidity, capacity, accuracy and superior performance.

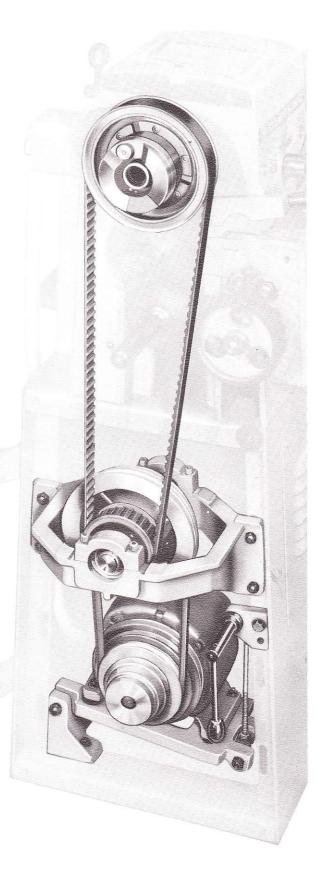
Pedestals are $\frac{1}{4}$ " steel plate with welded reinforcements. Tailstock pedestal has storage shelves.



A 28-pound work support, hand fitted to the bed ways.

Quick to position, quick to lock — one movement of the lever anchors tailstock to bed or releases it — no wrenches.

Has $\frac{3}{4}''$ set-over for taper work. Ram is graduated 0 to $\frac{21}{2}''$ by 16ths.



SPECIFICATIONS

Make any comparison—specification for specification, feature for feature—the Clausing 10 offers more PLUS VALUE than any lathe in its class.

CAPACITIES

Swing over bed and saddle wings 101/8"	10
Swing over cross slide	61/4
Hole through spindle 1 ¹ / ₁₆ "	
Hole through spindle $1^{1}/_{16}$ " Collet capacity — spindle nose type $1^{1}/_{16}$ "	21/32
Collet capacity — draw-bar type	5/8
Distance between centers 24", 36"	22 - 34

SPINDLE SPEEDS

Number	12
Direct drive	m
Back gear drive 52, 62, 75, 125, 174, 237 rp	m

THREADS AND FEEDS

Number, threads and feeds
Longitudinal feed range
Cross feed range
Thread range, Standard right or left 4 to 224
Screw threads per inch 4, 4 ¹ / ₂ , 5, 5 ¹ / ₂ , 5 ³ / ₄ , 6, 6 ¹ / ₂ , 6 ³ / ₄ , 7, 8, 9, 10, 11, 11 ¹ / ₂ , 12, 13, 13 ¹ / ₂ , 14, 16, 18, 20, 22, 23, 24, 26, 27, 28, 32, 36, 40, 44, 46, 48, 52, 54, 56, 64, 72, 80, 88, 92, 96, 104, 108, 112, 128, 144, 160, 176, 184, 192, 208, 216, 224
Lead screw

HEADSTOCK

Hole through spindle $1^{1}/_{16}''$ Spindle nose hardened, ground threads, $1^{3}/_{4}''$ -8	27/32	A
Spindle nose internal taper 4 M.T.		
Spindle center		
Spindle bearings two Timken tapered roller		(Co

BED

Flame-hardened	ways	5	two 70°	V-ways,	two flat	ways
Depth						57/8"
Width						73/8"
Length					44"	, 56"

CARRIAGE

Length on bed
Width of bridge
Cross slide travel
Compound rest graduated 0-90° left and right
Compound rest travel 21/2"
Tool post takes $\frac{3}{8}''$ tool bits or holder for $\frac{1}{4}''$ bit

TAILSTOCK

Spindle	center	- 10								÷			 ; ;		•		•					•		2	2	M.T.
Spindle	diamete	r		•		•	.,	•	, ,		à			 		•										11/8"
Spindle	travel .		. ,	ł.				•	•			•					•	•								23/4"
Spindle	graduat	ed			æ	•									•			0.	-2	1	1/2	"	ł)y	7	16ths
Set-over																										

DRIVE

Drive to countershaft 5-step pulleys, V-belt
Drive to spindle positive-grip timing belt
Motor, 1725 rpm furnished
Reversing switch furnished across-the-line drum

(Note: Motor and switch are installed and factory tested.)

STANDARD EQUIPMENT, all models: flame-hardened bed ways, chip and coolant pan, motor, reversing switch, 6" face plate, two centers, center sleeve, tool post, threading dial, wrenches and instruction book. (Design and specifications are subject to change without notice.)

		O" LATHES				
Model Number	Between Centers	Motor Furnished (specify voltage)	Ship Wt.			
4901)	24"	3/4 hp, single phase	845			
4902	24"	$\frac{3}{4}$ hp, three phase	845			
4903	24''	1 hp, single phase	860			
4904	24''	1 hp, three phase	860			
4911	36''	3/4 hp, single phase	900			
4912	36″	3/4 hp, three phase	900			
4913	36"	1 hp, single phase	915			
4914	36''	1 hp, three phase	915			

Single-phase motors are capacitor start, 115/230V, 60C. Three-phase motors — 208/220/440V, 60C*. All motors ball bearing equipped. *Operate on 50 Cycle at 1425 rpm.

OPTIONAL ELECTRICAL EQUIPMENT

For Factory Installation Only

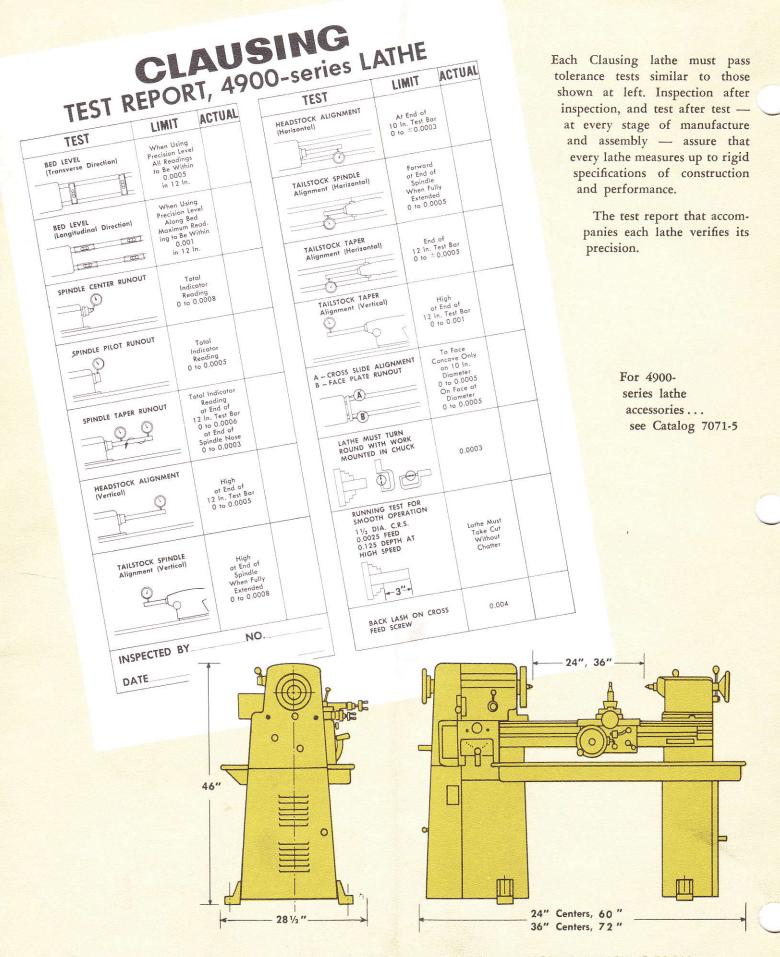
(Controls for field installation - price on application.)

No. 7030 MAGNETIC STARTER, for 3 phase*, with Drum Reversing Control. Protects motor against overload, low and no voltage. Motor will not automatically restart when power is restored — drum control[†] has momentary contactors.

No. 7032 MAGNETIC REVERSING STARTER, for 3 phase*, WITH 110 VOLT AT DRUM CONTROL. Protects motor against overload, low and no voltage. Motor will not automatically restart when power is restored — drum control[†] has momentary contactors.

No. 7033 THERMAL OVERLOAD UNIT, for 1 or 3 phase. Automatically cuts out to prevent damage to motor from overheating. Has manual reset button. Installed between drum switch and motor.

*Magnetic starter for single phase — price on application. †Operated by standard lever on headstock.



SINCE 1911, MANUFACTURERS OF PRECISION MACHINE TOOLS 1915-2023 N. PITCHER ST., KALAMAZOO, MICH., U. S. A. PRINTED IN U.S.A. Ph. Area Code: 616 345-7155 11661B30

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