

# Clausing COLCHESTER

## 13" Geared Head Lathes



CLAUSING/Colchester geared head lathes are the industry standard...because the quality built into every machine translates into real long-term performance in your application. Rugged construction, consistent quality in design and production, and the "human engineering" which makes the operator more efficient, all make this lathe a cost-effective investment. You do get "big machine" performance in a 13" package with the CLAUSING/Colchester 13" geared head lathe. Take a look at these features:

- Fully-g geared headstock with 12 spindle speeds, from 40 to 2500 rpm
- 4" D1 Camlock Spindle Nose
- Precision Gamet spindle bearings
- Automatic lubrication
- Straight Bed and Gap Bed models available
- 40" center distances
- Backed by a full-time professional service facility

# Features

## Headstock

The rugged headstock is designed to provide maximum power for roughing cuts, and smooth, quiet power for fine finishing. The 12 all-gear speeds, from 40 to 2500 rpm, handle a wide variety of work at top efficiency. All headstock gears are hardened and ground, and headstock shafts are splined and turn on anti-friction bearings. Increased mass and rigidity of the headstock mean much less transmission noise, and less deflection than previous models. Spindle bearings, gears, shafts, and headstock clutches are lubricated by a pumped bath of oil.

## Universal Gear Box

A broad range of Feed and Thread selections is available by using three selector levers and an 8-position rotary dial. Feed selections automatically disengage the leadscrew drive and independent torque-limiting clutches give accidental overload protection on both the leadscrew and spline shaft. All gears are hardened, and shafts turn on anti-friction bearings.

## Bed and Base

The sturdy bed is manufactured from close-grained cast iron, which is induction hardened and ground. The combined vee and flat configuration gives optimum kinematic guiding of the slideways... allowing both precise, accurate machining, and vibration-free cutting. The control base is rigidly constructed, and incorporates a readily accessible coolant tank mounted at the rear of the machine.

Because of our ongoing commitment to product improvement, machine specifications may be subject to change without notice.

## Apron, Saddle, and Slides

For optimum precision, the cross slide runs along a dovetail guide, and both saddle and cross slide are provided with adjustable gib strips. For heavy cutting, either the saddle or cross slide can be locked, and anti-backlash adjustment is provided on the cross slide nut. Bed wipers and an apron mounted one-shot lubrication pump are provided as standard. The cast iron apron is totally enclosed and splash bath lubricated. A double halfnut assembly is provided for maximum life and screwcutting accuracy. The drop-out worm feed control is mechanically interlocked to prevent simultaneous half-nut and spline shaft engagement.

## Standard Equipment

Equipment furnished: Center bush, Two 3MT Centers, Inch Threading Dial, Accuracy Chart, Parts and Instruction Manuals, Splash Guard, Coolant System, Set of Wrenches and Keys, 230/460 v., 3-phase, 60 Hz motor. (Specify voltage.)

## Optional Accessories

A wide variety of productivity accessories is available; please refer to the CLAUSING/Colchester Accessory Catalog.

## Gap Bed Lathes

CLAUSING/Colchester Gap Bed Lathes...with easy-to-remove bed blocks...equip you to handle many large diameter jobs, as well as regular between-centers work, for a nominal investment. To provide maximum tool rigidity, the cross slide of the gap bed models is at the extreme left of the saddle. The handle is at the left side of the apron for greater efficiency.

## 13" Straight Bed & Gap Bed Lathes

Model #	Size	Type
8027	13"x40"	Gap Bed

## Specification

Swing over bed	13"
Swing over cross slide	8-1/4"
Center distance	25" & 40"
Swing in gap	19"
Width, gap in front of faceplate	4-1/2"
Spindle nose	D1-4 Camlock
Through hole	1-1/2"
Spindle Center	5MT
Spindle Bearings	Gamet Precision
Max. spindle speed	2500 rpm
Number of speeds	12
Number of English threads	35
Range of English threads	2 - 56 TPI
Number of Diametral threads	18
Range of Diametral threads	8 - 56
Number of Metric threads	39
Range of Metric threads	0.2 - 14 mm
Longitudinal Feeds (16)	0.001" - 0.40"
Leadscrew diameter	1-1/8" - 4 TPI
Cross slide travel	7 - 1/2"
Compound rest travel	3-5/8"
Tailstock spindle diameter	1-21/32"
Trailstock travel	4-3/8"
Center	3MT
Motor	3 Hp
Weight	1512 lbs.

Specifications are subject to change without notice.



Clausing Industrial Inc.  
1819 North Pitcher Street  
Kalamazoo, Michigan 49007-1886

Phone: 269-345-7155

Fax: 269-345-5945

Web Site: [www.clausing-industrial.com](http://www.clausing-industrial.com)

Information: [info@clausing-industrial.com](mailto:info@clausing-industrial.com)

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