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TURNING PRODUCT CATALOG

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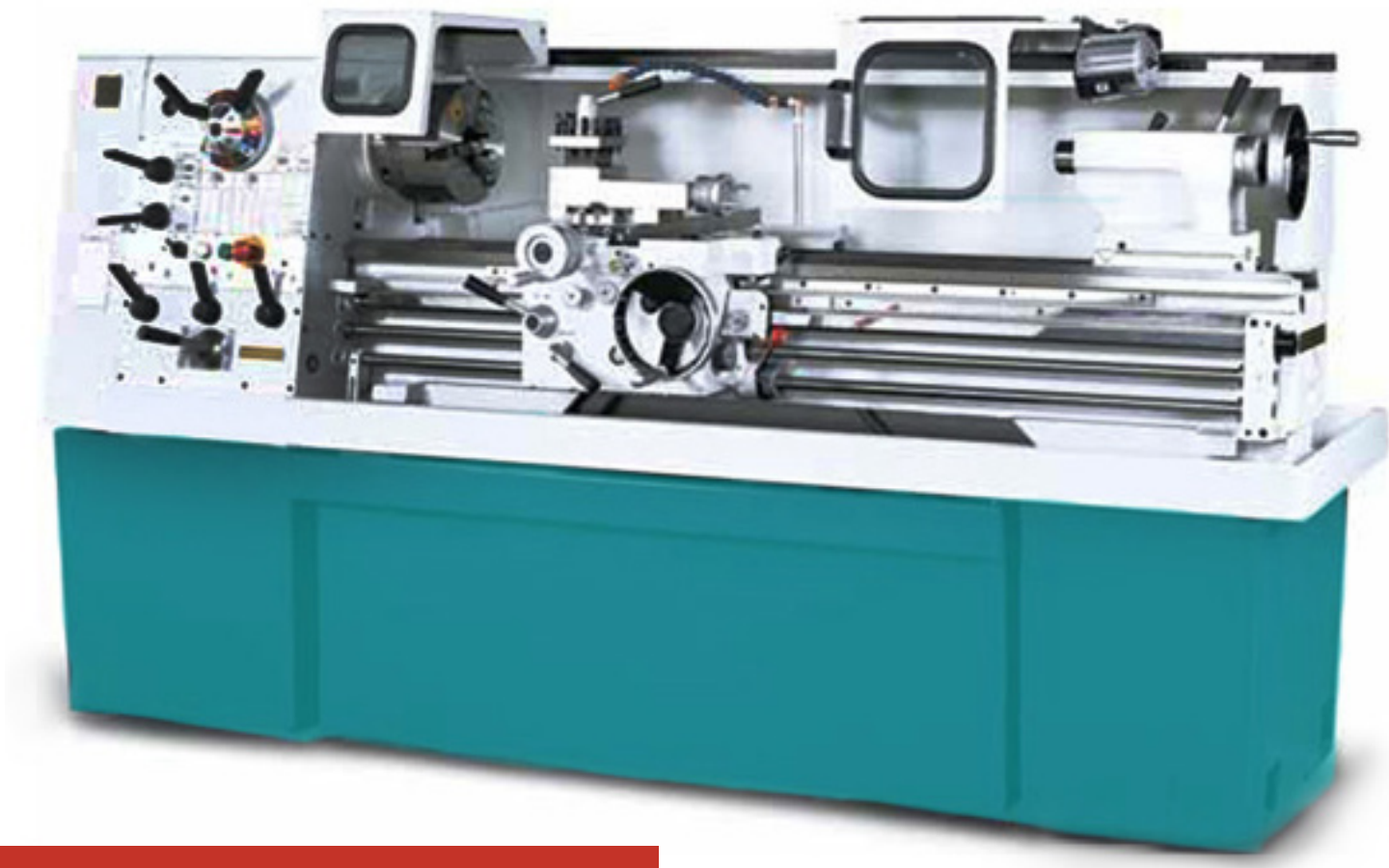


C SERIES LATHES

AFFORDABLE. DURABLE. VERSATILE.

A line of precision, high performance geared head and variable speed lathes.

C13 SERIES

Features

- D1-4 Camlock spindle nose
- Geared Head 8-step spindle speed from 105-2000 rpm (J Models)
- Optional 2-speed motor driven for 16-step speed from 53-2000 rpm
- Variable-Speed drive from 40-2500 rpm in two variable ranges (VSJ Models)
- 3HP (2.25Kw) spindle motor
- Swing over bed 13”
- Distance between center 30”/40”
- Headstock gears are precision hardened and ground
- Universal gearbox provides comprehensive range of metric, imperial, M.P. and D.P. threading
- Induction hardened & precision ground bed

Note: shown with optional DRO

C14 SERIES

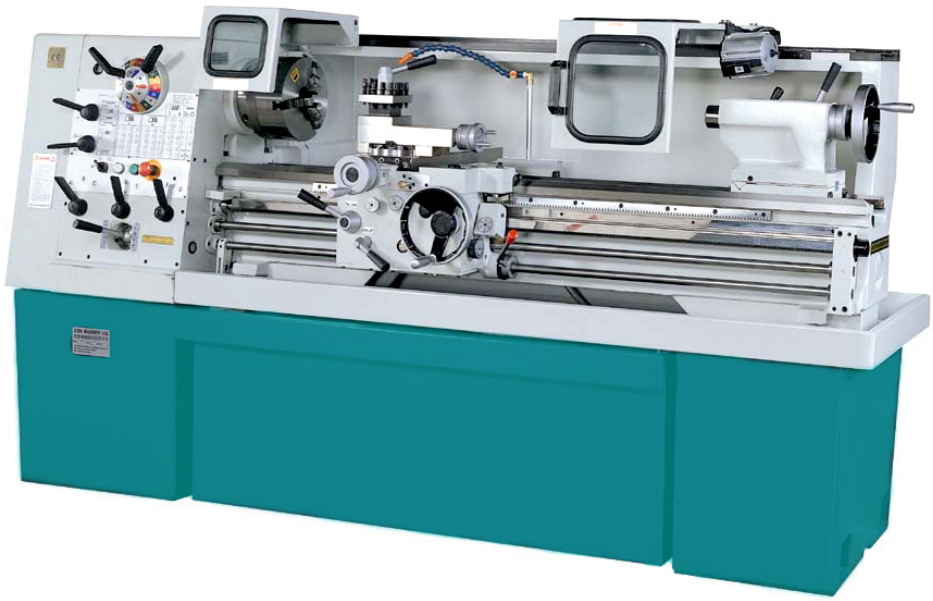
Features

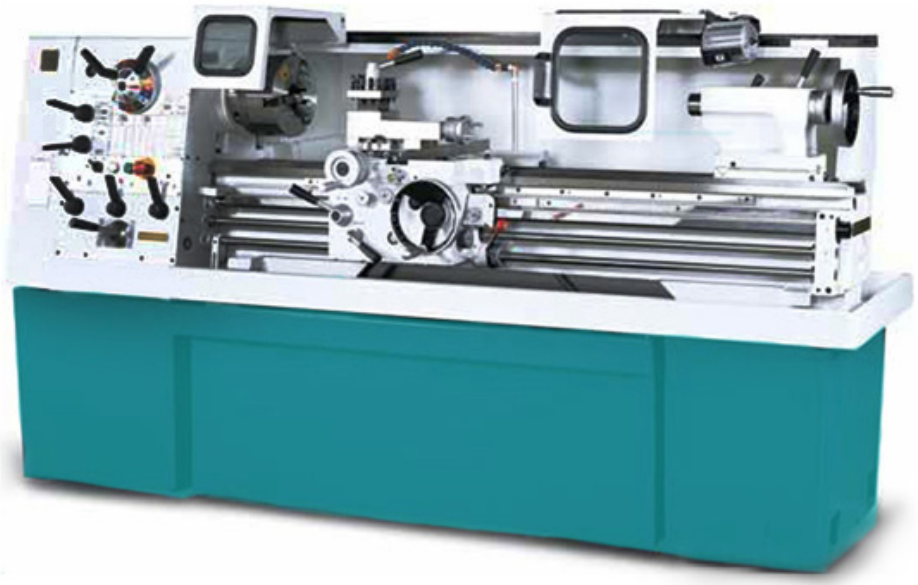
- D1-5 Camlock spindle nose
- Geared Head 8-step spindle speed from 70-2000 rpm (J Models)
- Optional 2-speed motor driven for 16-step speed from 35-2000 rpm
- Variable-Speed drive from 35-2500rpm in two variable ranges (VSJ Models)
- 5HP (3.75Kw) spindle motor
- Swing over bed 14”
- Distance between center 30”/40”
- Headstock gears are precision hardened and ground
- Universal gearbox provides comprehensive range of metric, imperial, M.P. and D.P. threading
- Induction hardened & precision ground bed

C15 SERIES

Features

- D1-6 Camlock spindle nose
- Geared Head 16-step spindle speed from 25-2000 rpm (J models)
- Variable-Speed drive from 20-2500 rpm in
- 3 variable ranges (VSJ Models)
- 7.5HP (5.5Kw) spindle motor
- Swing over bed 15”
- Distance between center 30”/40”/50”
- Headstock gears with precision hardened and ground
- Universal gearbox provides comprehensive range of metric, imperial, M.P. and D.P. threading
- Induction hardened & precision ground bed
- Magnetic Brake system with chip trolley





C18-22 SERIES

Features

- D1-8 Camlock spindle nose
- Geared Head 16-step spindle speed from 20-1600 rpm (J Models)
- Variable-Speed drive from 16-2000 rpm in 3 variable ranges (VSJ Models)
- 10HP (7.5Kw) spindle motor
- Swing over bed 18”/20”/22”
- Distance between center 40”/60”/80”/120”
- Headstock gears are precision hardened and ground
- Magnetic Brake system with chip trolley
- Universal gearbox provides comprehensive range of metric, imperial, M.P. and D.P. threading
- Induction hardened & precision ground bed
- Geared Head machines have soft start spindle feature

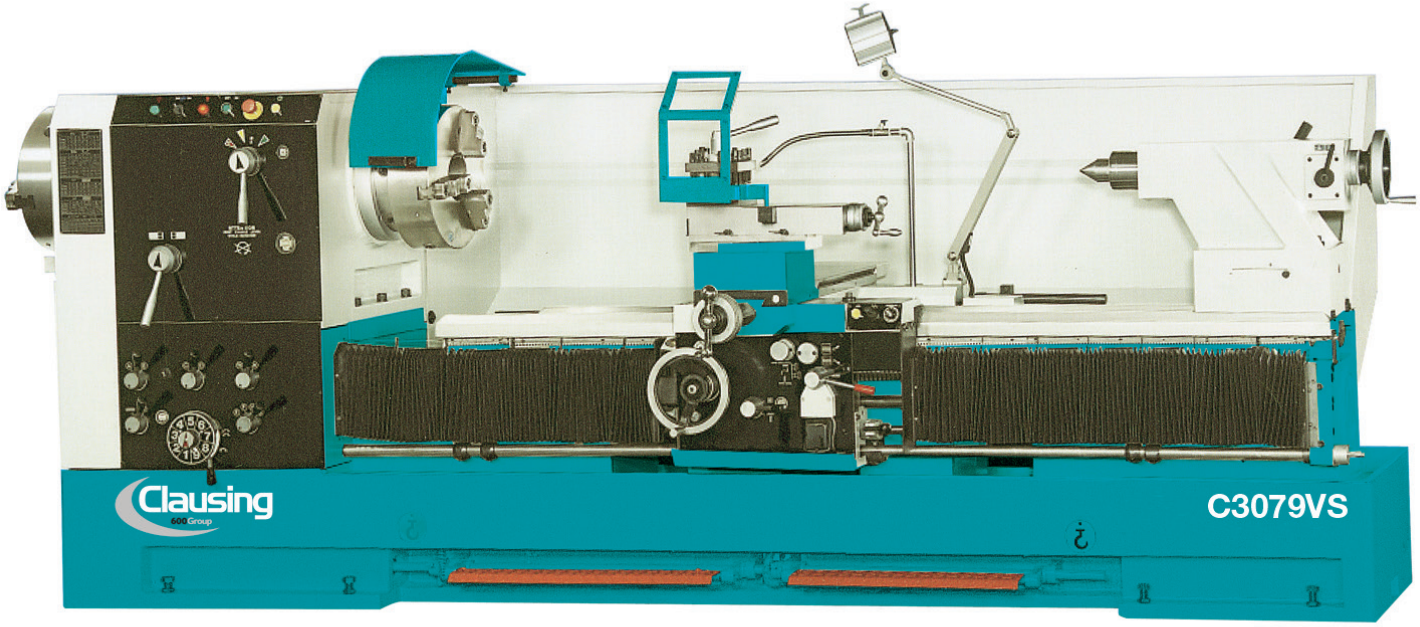
C26 SERIES

The C26 and C30 series large swing Geared Head engine lathes are engineered to allow the accurate and efficient machining of large components. A wide range of optional accessories make these machines suitable for most industrial applications, including job shops, oil field, power utilities and ship building.

Features

- 12 Geared Head Spindle Speeds allow optimum cutting speed for a wide range of machining applications. Speed range 12 to 1000 rpm
- 20 Hp Spindle Motor for exceptional machining power standard
- All gears are made from chromium molybdenum steel treated with cementation and precision ground for long-life and dependability
- One-piece cast iron bed from the ways to floor provides a solid foundation to ensure maximum stability and rigidity under heavy machining operations
- 18" Bed Width, Hardened and Ground, support the saddle and carriage assembly allowing superior positioning and repeatability accuracy
- Turcite 'B' is fitted between saddle and bed to greatly reduce friction and stick-slip for smooth operation and superior surface finishes. The low friction Turcite 'B' also minimizes bed wear and extends the life of the machine
- Immersing Style Lead Screw reduces abrasion
- 4-way Rapid Traverse for positioning and set up
- 4-way Power Feed for longitudinal, cross and compound feeds
- Tailstock with 4.18" manual positioning for ease of setup and operation
- 4.1" Spindle Bore supported with taper spindle bearings provides outstanding spindle performance and load carrying capabilities, optional spindle bores available
- Coolant system for tool life and part cooling
- Automatic lubrication system to all guideways
- Guarding powder coated for durability
- Full rear splash guard with chip pan

C30 SERIES



The C26 and C30 series large swing Variable Speed engine lathes are engineered to allow the accurate and efficient machining of large components. A wide range of optional accessories make these machines suitable for most industrial applications, including job shops, oil field, power utilities and ship building.

Features

- Variable Spindle Speeds allow optimum cutting speed for a wide range of machining applications. Speed range from 14 to 1000 rpm
- 20 Hp Spindle Motor for exceptional machining power standard
- All gears are made from chromium molybdenum steel treated with cementation and precision ground for long-life and dependability
- One-piece cast iron bed from the ways to floor provides a solid foundation to ensure maximum stability and rigidity under heavy machining operations
- 18" Bed Width, Hardened and Ground, support the saddle and carriage assembly allowing superior positioning and repeatability accuracy
- Turcite 'B' is fitted between saddle and bed to greatly reduce friction and stick-slip for smooth operation and superior surface finishes. The low friction Turcite 'B' also minimizes bed wear and extends the life of the machine
- Immersing Style Lead Screw reduces abrasion
- 4-way Rapid Traverse for positioning and set up
- 4-way Power Feed for longitudinal, cross and compound feeds
- Tailstock with 4.18" manual positioning for ease of setup and operation
- 4.1" Spindle Bore supported with taper spindle bearings provides outstanding spindle performance and load carrying capabilities, optional spindle bores available
- Coolant system for tool life and part cooling
- Automatic lubrication system to all guideways
- Guarding powder coated for durability
- Full rear splash guard with chip pan

SPECIFICATIONS

	C1330J	C1340J	C1430J	C1440J	C1530J	C1540J	C1550J
CAPACITY							
Height of Center	6.5" (165 mm)		7" (178 mm)		7.5" (190 mm)		
Swing Over Bed	13" (330 mm)		14.25" (360 mm)		15.25" (390 mm)		
Distance Between Centers	30" (750 mm)	40" (1000 mm)	30" (750 mm)	40" (1000 mm)	30" (750 mm)	40" (1000 mm)	50" (1250 mm)
Swing in Gap	19.5" (495 mm)		22" (560 mm)		24" (610 mm)		
Width in Front of Faceplate	6" (150 mm)		6" (150 mm)		6" (150 mm)		
Swing Over Cross Slide	7.5" (190 mm)		8.265" (215 mm)		9.5" (240 mm)		
Bedway Width	7.3" (185 mm)		10" (250 mm)		11" (270 mm)		
Bed Length	54.25" (1380 mm)	65" (1650 mm)	61.25"m (1560 mm)	71.5" (1820 mm)	66.5" (1710 mm)	76.5" (1950 mm)	86.5" (2200 mm)
HEADSTOCK							
Spindle Bore	1.375" (35 mm)		1.625" (42 mm)		2.125" (54 mm)		
Spindle Nose (camlock)	D1-4		D1-5		D1-6		
Spindle Nose Bushing Taper	MT4		MT5		MT6		
Spindle Center	MT3		MT3		MT4		
Number of Spindle Speeds G/H	8	16 Optional	8	16 Optional	16		
Spindle Speed Range (rpm)	105 – 2000	53 – 2000	70 – 2000	35 – 2000	25 – 2000		
Number of Spindle Speeds VS	2		2		3		
Spindle Speed Range (rpm)	40 – 2500		35 – 2500		20 – 2500		
CROSS/TOP SLIDE							
Cross Slide Travel	7.5" (190 mm)		7.6" (195 mm)		9" (230 mm)		
Width of Cross Slide	4.72" (120 mm)		5.9" (150 mm)		6.47" (164.5 mm)		
Top Slide Travel	3.5" (90 mm)		4" (100 mm)		4.75 (120 mm)		
Width of Top Slide	2.99" (76 mm)		4.01" (102 mm)		4.01" (102 mm)		
TAILSTOCK							
Quill Travel	4.375" (110 mm)		4.75" (120 mm)		6.125" (155 mm)		
Quill Diameter	1.56" (40 mm)		2" (50 mm)		2.312" (58.5 mm)		
Quill Taper	MT3		MT3		MT4		
FEEDS AND THREADING							
Longitudinal Feed Range (in/rev)	0.0008 – 0.0410		0.0012 – 0.016		0.0015 – 0.04		
(mm/rev)	0.02 – 1.04		0.03 – 0.40		0.04 – 1.00		
Cross Feed Range (in)	approx. 1/3 logitudinal-feed		0.0004 – 0.0053		0.0008 – 0.02		
(mm)	approx. 1/3 logitudinal-feed		0.01 – 0.13		0.02 – 0.50		
Number of Inch Pitches	47		36		45		
Range of Inch Pitches	4 – 144 TPI		4 – 72 TPI		2 – 72 TPI		
Number of Metric Pitches	44		27		39		
Range of Metric Pitches	0.2 – 14 mm		0.4 – 7 mm		0.2 – 14 mm		
Number of Diametrial Pitches	30		21		21		
Range of Diamentrial Pitches	4 – 44 DP		8 – 44 DP		8 – 44 DP		
Number of Module Pitches	24		18		18		
Range of Module Pitches	0.3 – 3.5 mm		0.3 – 3.5 mm		0.3 – 3.5 mm		
MOTOR HP							
G/H Spindle Motor	3 Hp		5 Hp		7.5 Hp		
G/H Spindle Motor Two Speed Opt.	3/1.5 Hp		5/3 Hp		—		
Variable Speed Motor	3 Hp		5 Hp		7.5 Hp		
Rapid Feed Motor	—		—		—		
Coolant Motor	1/8 Hp		1/8 Hp		1/8 Hp		
DIMENSIONS							
Shipping L x W x H	68"x36"x65"	76"x36"x65"	72"x36"x66"	84"x36"x66"	77"x40"x69"	87"x40"x69"	99"x40"x69"
Shipping Gross Weight Lbs	800	870	1000	1100	1200	1350	1500
Machine L x W x H	65"x42"x62"	76"x42"x62"	63"x35"x50"	74"x35"x50"	77"x40"x50"	87"x40"x50"	97"x40"x50"
Machine Net Weight Lbs	670	720	850	900	1000	1150	1300

C1840J / C1860J C1880J / C18120J	C2040J / C2060J C2080J / C20120J	C2240J / C2260J C2280J / C22120	C2679 / C26118 / C26157	C3079 / C30118 / C30157
9” (228 mm)	10” (254 mm)	11” (330 mm)	13” (330 mm)	15” (380 mm)
18” (460 mm)	20” (510 mm)	22” (560 mm)	26.7” (680 mm)	30.7” (780 mm)
40” (950 mm), 60” (1450 mm), 80” (1950 mm), 120” (2950 mm)			79” (2000 mm), 118” (3000 mm), 157” (4000 mm)	
28” (710 mm)	30” (760 mm)	32” (810 mm)	38.18” (970 mm)	42.12” (1070 mm)
8.7” (220 mm)			19” (482 mm)	
11.5” (290 mm)	13.5” (340 mm)	15.5” (810 mm)	17.32” (440 mm)	21.25” (540 mm)
13” (345 mm)			18” (458mm)	
(40”) 83”(2110 mm), (60”) 105” (2670 mm), (80”) 125” (3175 mm), (120”) 165” (4190 mm)			(79”) 148” (3750 mm), (118”) 187” (4750 mm), (157”) 226” (5750 mm)	
3.125” (80 mm)			4.125” (105 mm)	6” (155 mm) – OPT.
D1-8			A2 – 11 (4” and 6”)	
MT7			—	
MT5			—	
16			12	
20 – 1600			12 – 1000	
3			3	
16 – 2000			14 – 1000	
10.5” (265 mm)			15.35" (390 mm)	
7.8”(198 mm)			—	
5.1” (130 mm)			9.5" (240 mm)	
5.31” (135 mm)			—	
7” (180 mm)			4.13” (105 mm)	
3” (75 mm)			8.26” (210 mm)	
MT5			MT6	
0.0015 – 0.04			0.0019 – 0.027	
0.04 – 1.00			0.05 – 0.7	
0.0008 – 0.02			0.00019 – 0.0135	
0.02 – 0.50			0.025 – 0.35	
45			36	
2 – 72 TPI			2 – 28 TPI	
39			65	
0.2 – 14 mm			0.8 – 14 mm	
21			36	
8 – 44 DP			4 – 56 DP	
18			22	
0.3 – 3.5 mm			0.5 – 7 Mod	
12.5 Hp			20 Hp	
—			—	
12.5 Hp			20 Hp	
—			1/4 Hp	
1/8 Hp			1/8 Hp	
97”x44”x75” 116”x44”x75” 136”x44”x75” 176”x44”x75”	97”x44”x76” 116”x44”x76” 136”x44”x76” 176”x44”x76”	97”x44”x78” 116”x44”x78” 136”x44”x78” 176”x44”x78”	79: 166” x 60” x 63” 118: 205” x 60” x 63” 157: 244” x 60” x 63”	79: 166” x 60” x 65” 118: 205” x 60” x 65” 157: 244” x 60” x 65”
2050/2300/2650/3800	2250/2500/2850/4000	2500/2700/3050/4200	9,149/10,692/12,345	9,149/10,692/12,345
88”x43”x52” 108”x43”x52” 128”x43”x52” 168”x43”x52”	88”x43”x53” 108”x43”x53” 128”x43”x53” 168”x43”x53”	88”x43”x54” 108”x43”x54” 128”x43”x54” 168”x43”x54”	79: 154” x 48.8” x 55.1” 118: 193” x 48.8” x 55.1” 157: 232” x 48.8” x 55.1”	79: 154” x 48.8” x 57.1” 118: 193” x 48.8” x 57.1” 157: 232” x 48.8” x 57.1”
1800/2000/2300/3300	2000/2200/2500/3500	2200/2400/2700/3700	8,598/9,921/11,243	8,598/9,921/11,243

C13, C14, C15, C18-22

Standard Equipment

- Low voltage controls
- Coolant system
- Motor and electrics controls system
- One backplate for 3-jaw chuck
- 4-way quick change toolpost
- Thread dial
- Feed rod overload clutch
- Dead Centers & center sleeve
- Leveling blocks
- Service tools and toolbox
- Work light for work area
- Instruction & parts manual

C26, C30

Standard Equipment

- Hardened and ground bed ways
- Hardened and ground gears
- Chuck guard with limit switch
- 20 Hp motor with inverter drive
- Variable spindle speeds, 14-1000 rpm, auto 3 range manual speed change
- Geared Head spindle speeds, 12-1000 rpm
- 11” Capacity Steady Rest
- Follower Rest
- 4-way Rapid Traverse
- 4-way Power Feed
- 4-way, 8-position Tool Post
- 1.75” Lead screw
- Lead screw cover
- Coolant system
- Automatic lubrication system
- Traveling chip guard
- Full rear splash guard with chip pan
- Thread dial
- Manual tailstock w/ manual movement and anti slip lock
- Lockable main switch
- Halogen work light
- Leveling screws and pads
- Tools, tool box, operation manual

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- Clausing Knee Mills
- Clausing EVS Knee Mills
- Clausing CNC Knee Mills
- Clausing Universal Mills

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- Clausing/Colchester Professional V.S. Lathes
- Clausing/Colchester MAGNUM V.S. Lathes
- Clausing C Series Lathes
- Clausing Large Swing Standard vLathes
- Clausing Large Swing CNC Lathes
- Clausing Precision Toolroom Lathes

Clausing Precision Grinders

- Clausing Manual Grinders
- Clausing 2 Axes Hydraulic Grinders
- Clausing 3 Axes Hydraulic Grinders
- Clausing ASDIII Automatic Grinders
- Clausing OD/ID Grinders

Clausing Precision Cutting Machines

- Clausing/Kalamazoo Horizontal Bandsaws
- Clausing/Kalamazoo Vertical Bandsaws
- Clausing/Kalamazoo Tilt Frame Miter Bandsaws
- Clausing/Kalamazoo Cold Saws

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