

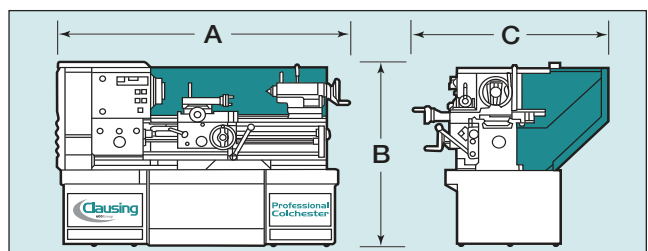


Clausing/Colchester 'PROFESSIONAL' Series 13" (320mm) & 15" (400mm) Variable Speed Lathes

Specifications:

Model	13" VS	15" VS
Capacity		
Height of Center	6.7" (170mm)	7.67" (195mm)
Swing Over Bed	13.75" (350mm)	15.75" (400mm)
Swing in Gap	21" (533mm)	23" (584mm)
Width in Front of Faceplate	6.5" (165mm)	6.5" (165mm)
Swing Over Cross Slide	7.75" (197mm)	9.75" (248mm)
Bedway Width	12.5" (318mm)	12.5" (318mm)
Headstock		
Spindle Bore	1.65" (42mm)	2.12" (54mm)
Spindle Nose (Camlock)	D1-4	D1-6
Spindle Nose Taper	3MT	4MT
Number of Spindle Speeds	3	3
Spindle Speed Range (rpm)	15-3250	14-2500
Low Range (rpm)	17-340	15-275
Mid Range (rpm)	45-1010	40-795
High Range (rpm)	150-3250	125-2500
Cross/Top Slide		
Travel of Cross Slide	9.8" (249mm)	9.8" (249mm)
Width of Cross Slide	7.09" (180mm)	7.09" (180mm)
Travel of Top Slide	5.5" (140mm)	5.5" (140mm)
Width of Top Side	3.54" (90mm)	3.93" (100mm)
Tailstock		
Quill Travel	5.5" (140mm)	5.5" (140mm)
Quill Diameter	2.48" (63mm)	2.87" (73mm)
Quill Taper	4MT	5MT
Feeds and Threading		
Longitudinal Feed Range (in) (mm)	0.014-0.048 in/rev 0.35-1.22mm/rev	0.0014-.048 in/rev 0.036-1.2mm/rev
Cross Feed Range (in) (mm)	0.0007-0.024 in/rev .018-0.61mm/rev	0.00035-0.024 in/rev .0089/-0.61mm/rev
Number of Inch Pitches	56	56
Range of Inch Pitches	2-56 tpi	2-56 tpi
Number of Metric Pitches	20	51
Range of Metric Pitches	0.2-14mm	0.2-14mm
Number of Diametral Pitches	20	20
Range of Diametral Pitches	8-56	8-56
Number of Module Pitches	51	20
Range of Module Pitches	0.2-3.5	0.2-3.5
Motor		
Spindle Motor	10 hp (7.5kw)	10 hp (7.5kw)

Specifications and design are subject to change without notice.



Standard Features...

- **AC Inverter Variable Speed Spindle Drive** state-of-the-art AC Spindle Drive featuring surface mount technology to give compact size and high reliability. . . . 4 years parts and labor warranty on drive
- **Interlocked End Guard Door** with easy access for maintenance and changing end train gears
- **Leadscrew Reversing Box** for faster thread cutting – reversal of the leadscrew with the spindle running at low speed (must retract tool from cut or thread damage can occur)
- **Easy to read Index Plate** makes it simple to select the proper feed rate or threads (must retract tool from cut or thread damage can occur)
- **Three Headstock Gear Ranges** for a wide spread of constant power – 33 to 1 – better than most CNC lathes
- **Infinitely Variable Spindle Speeds** you can get the right spindle speed very quickly with a response like a CNC lathe, displayed on headstock
- **Electromagnetic Spindle Brake**
- **Forced Lubrication System** the spindle bearings, gears and shafts are lubricated by a forced lubrication system
- **Precision Gamet Tapered Roller Spindle Bearings**
- **Chuck Guard** with limit switch
- **Anti-Friction Carriage Ways.** Low-friction "Moglice" PTFE material between the saddle and bed for minimal bedwear and longer machine life
- **Saddle Mounted Chip Guard and Full Rear Splash Guard**
- **Extra Wide Heavy-Duty Cast Iron Bed** with triangular webs for exceptional torsional stiffness and excellent chip clearance
- **Heavy-Duty Tailstock** for excellent rigidity – with extra heavy-duty quill
- **Covered Leadscrew** protects leadscrew from chips
- **Wheeled Chip Bin** has a large capacity for easy chip disposal
- **Hardened and Ground Bedways** - all bedways are induction hardened and precision ground
- **Cast Iron Base** provides the maximum support for the bed combined with sloping top surfaces to prevent the accumulation of coolant

Standard Equipment...

- Spindle Center Cushing • Two Morse Taper Dead Centers • Rear Splash Guard • Chuck Guard
- Leadscrew Cover • Electric Coolant Pump, Tank and Fitting • Coolant System • Inch Threading Dial
- Set of Wrenches and Keys • Instruction and Parts Manual • Accuracy Chart • Emergency Stop Button
- Lockable Isolator Switch • Forward/Reverse/Stop Switch • One Shot Saddle and Cross Slide Lubrication
- 230v or 460v 3ph, 208v and other voltages available with optional transformer

Models and Dimensions:

Model	Swing and Center Distance	A	B	C	Weight
8016VSJ	13" (320mm) x 25" (635mm)	75" (1900mm)	51" (1300mm)	44" (1120mm)	2,790 lbs. (1266kg)
8044VSJ	15" (400mm) x 50" (1270mm)	99" (2515mm)	51" (1300mm)	44" (1120mm)	3,300 lbs. (1497kg)

TURNING



Standard Features...

- **State-of-the-art AC Spindle Drive** features surface mount technology to give compact size and high reliability
- **Interlocked end guard door** for easy access for maintenance and changing end train gears
- **Faster Thread Cutting** - Reversal of the Leadscrew with the spindle running at low speed (must retract tool from cut or thread damage can occur)
- **An Easy-to-Read Index Plate** makes it simple to select the proper feed or threads (must retract tool from cut or thread damage can occur)
- **Three Headstock Gear Ranges** a wide spread of constant power - 33 to 1 - better than most CNC lathes
- **Infinitely Variable Spindle Speeds** displayed on headstock
- **Electromagnetic Spindle Brake**
- **Spindle Bearings, Gears and Shafts** are lubricated by a forced lubrication system
- **Precision Gamet Tapered Roller Spindle Bearings**
- **Chuck Guard with Limit Switch**
- **Carriage Ways Coated with "Moglice" PTFE** for minimal bedwear and longer machine life
- **Saddle Mounted Chip Guard and Full Rear Splash Guard**
- **Extra Wide Heavy-duty Cast Iron Bed** with triangular webs for torsional stiffness and excellent chip clearance
- **2 Axis Rapid Traverse** available from one lever mounted on saddle
- **Heavy-Duty Tailstock** with extra heavy-duty quill
- **Single Piece Leadscrew Cover** protects leadscrew from chips
- **Large Capacity Rollout Chip Bin** for easy chip disposal
- **All Bedways are Induction Hardened and Precision Ground**
- **Heavyweight Cast Iron Bases** provide the maximum support for the bed combined with sloping top surfaces to prevent the accumulation of coolant

Standard Equipment...

- Spindle Center Bushing • Two Morse Taper Dead Centers • Rear Splash Guard • Chuck Guard
- Leadscrew Cover • Electric Coolant Pump, Tank and Fitting • Coolant System
- Set of Wrenches and Keys • Instruction and Parts Manual • Accuracy Chart • Emergency Stop Button
- Lockable Isolator Switch • Inch Threading Dial • Forward/Reverse/Stop Switch
- Rapid Power Traverse to Cross Slide and Carriage • Saddle Mounted Controls and Power Meter
- 230v 3 ph, 208v or 460v 3 ph available with optional transformer

Models and Dimensions:

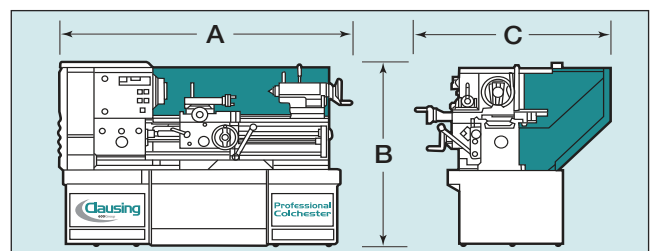
Model	Swing and Center Distance	A	B	C	Weight
8054VSJ	18" (460mm) x 60" (1500mm)	120" (3000mm)	51" (1300mm)	57" (1450mm)	5,765 lbs. (2615kg)
8055VSJ	18" (460mm) x 80" (2000mm)	140" (3556mm)	51" (1300mm)	57" (1450mm)	6,170 lbs. (2799kg)
8115VSJ	21" (460mm) x 60" (1500mm)	120" (3000mm)	51" (1300mm)	57" (1450mm)	5,886 lbs. (2670kg)
8116VSJ	21" (554mm) x 80" (2000mm)	140" (3556mm)	51" (1300mm)	57" (1450mm)	6,283 lbs. (2850kg)
8119VSJ	21" (554mm) x 120" (3000mm)	180" (4572mm)	51" (1300mm)	57" (1450mm)	7,960 lbs. (3611kg)

Clausing/Colchester 'PROFESSIONAL' Series 18" (460mm) & 21" (554mm) Variable Speed Lathes

Specifications:

Model	18" VS	21" VS
Capacity		
Height of Center	9" (229mm)	11.02" (280mm)
Swing Over Bed	18.1" (460mm)	21.81" (554mm)
Swing in Gap	28.74" (730mm)	32.68" (830mm)
Width in Front of Faceplate	8.5" (216mm)	8.5" (216mm)
Swing Over Cross Slide	10.62" (216mm)	14.57" (370mm)
Bedway Width	15.75" (400mm)	15.75" (400mm)
Headstock		
Spindle Bore	3" (76mm)	4.09" (104mm)
Spindle Nose (Camlock)	D1-8	D1-11
Spindle Nose Taper	5MT	5MT
Number of Spindle Speeds	3	3
Spindle Speed Range (rpm)	20-2000	18-1800
Low Range (rpm)	20-225	18-200
Mid Range (rpm)	60-675	55-605
High Range (rpm)	175-2000	160-1800
Cross/Top Slide		
Travel of Cross Slide	11.81" (249mm)	11.81" (249mm)
Width of Cross Slide	8" (203mm)	8" (203mm)
Travel of Top Slide	7.5" (190mm)	7.5" (190mm)
Width of Top Slide	4" (102mm)	4" (102mm)
Tailstock		
Quill Travel	5.7" (1458mm)	5.7" (145mm)
Quill Diameter	3.74" (95mm)	3.74" (95mm)
Quill Taper	6MT	6MT
Feeds and Threading		
Longitudinal Feed Range (in) (mm)	0.0016-0.11 in/rev .041-2.79mm/rev	0.0016-0.11 in/rev .041-2.79mm/rev
Cross Feed Range (in) (mm)	0.0008-0.055in/rev .02-1.4mm/rev	0.0008-0.055in/rev .02-1.4mm/rev
Number of Inch Pitches	73	73
Range of Inch Pitches	2-84 tpi	2-84 tpi
Number of Metric Pitches	51	27
Range of Metric Pitches	0.2-14mm	0.2-14mm
Number of Diametral Pitches	27	27
Range of Diametral Pitches	8-72	8-72
Number of Module Pitches	27*	51
Range of Module Pitches	0.2-3.5	0.2-3.5
Motor		
Spindle Motor	15 hp (10kw)	15 hp (10kw)

Specifications and design are subject to change without notice.





Clausing/Colchester 13" (320mm) Swing, Gap Bed, Geared Head Lathe Specifications:

Model	8026J/8027J
Capacity	
Swing Over Bed	13" (330mm)
Swing Over Cross Slide	8.26" (210mm)
Center Distance (8026J)	25" (625mm)
Center Distance (8027J)	40" (1000mm)
Swing in Gap	19" (480mm)
Width, Gap in Front of Faceplate	4.5" (117mm)
Headstock	
Spindle Nose	D1-4 Camlock
Through Hole	1.5" (38mm)
Spindle Nose Taper	3MT
Number of Speeds	12
Max. Spindle Speed	40 - 2500 rpm
Feeds and Threading	
Longitudinal Feeds (16)	0.001" - 0.039" (.03-1mm)
Leadscrew Diameter	1.13" - 4 tpi
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 - 14mm
Cross/Top Slide	
Cross Slide Travel	7.5" (190mm)
Cross Slide Width	5.5" (140mm)
Top Side Travel	3.63" (92mm)
Top Slide Travel	3.25" (82mm)
Tailstock	
Tailstock Spindle Diameter	1.63" (42mm)
Tailstock Travel	4.38" (110mm)
Center	3MT
Motor & Weight	
Motor	3 hp (2.2kw)
Weight (8026J)	1,680 lbs. (762kg)
Weight (8027J)	3,300 lbs. (1500kg)

Specifications are subject to change without notice.

Standard Equipment...

- Center Bush
- Two 3MT Centers
- Inch Threading Dial
- Accuracy Chart
- Splash Guard
- Coolant System
- Set of Wrenches and Keys
- Parts and Instruction Manuals

Standard 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 are 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.
- **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 halfnut and spline shaft engagement.



Clausing/Colchester 15" (400mm) Swing, Gap Bed, Geared Head Lathe

Specifications:

Model	8043
Capacity	
Height of Center	7.68 (195mm)
Swing Over Bed	15.75" (400mm)
Swing in Gap	23" (584mm)
Width in Front of Faceplate	6.5" (165mm)
Swing Over Cross Slide	9.75" (248mm)
Center Distance	50" (1270mm)
Bed Width	12.5" (318mm)
Headstock	
Spindle Bore	2.12" (54mm)
Spindle Nose (Camlock)	D1-6
Spindle Nose Taper	4MT
Number of Speeds	16
Spindle Speed (rpm)	25-2000
Cross/Top Slide	
Travel of Cross Slide	9.8" (249mm)
Width of Cross Slide	7.09" (180mm)
Travel of Top Slide	5.1" (130mm)
Width of Top Slide	2.8" (73mm)
Tailstock	
Tailstock Quill Diameter	2.8" (71mm)
Center	5MT
Quill Travel	5.5" (140mm)
Feed and Threading	
Longitudinal Feed Range (in/rev)	.0014"-.096" (.035-2.45mm)
Cross Feed Range (in/rev)	.0007"-.048" (.018-1.22mm)
Number of English Threads	56
Range of English Threads	2-56 tpi
Number of Metric Threads	51
Range of Metric Threads	.2-14mm
Number of Diametral Pitches	20
Range of Diametral Pitches	8-56 DP
Number of Module Pitches	20
Range of Module Pitches	8-56 DP
Leadscrew Diameter	1.25/4 tpi
Motor	
Drive Motor	7.5 hp (5kw)
Dimensions & Weight	
Length	99" (2515mm)
Height	51" (1295mm)
Width	49" (1245mm)
Weight	3,300 lbs. (1496kg)

Due to ongoing design improvements specifications are subject to change without notice.

Standard Features...

- Fully-geared headstock with 16 spindle speeds from 25 - 2000 rpm
- All headstock gears are hardened and ground
- Headstock shafts are splined and turn on anti-friction bearings
- Spindle bearings, gears and shafts are lubricated by a forced lubrication system
- A broad range of Feed and Thread selections are available by using three selector levers and an 8-position rotary dial
- Precision Gamet spindle bearings
- Cross slide runs along a dovetail guide
- Bed wipers and an apron mounted one-shot lubrication pump
- The cast iron apron is totally enclosed and splash bath lubricated
- Gap Bed with easy-to-remove bed blocks
- 50" center distances
- Equipped with chuck guard, full splash guard and leadscrew cover
- Clutch drive, reverse leadscrew with spindle turning for faster thread cutting
- Extra wide bed provides accuracy and minimal wear
- A one year warranty and backed by the Clausing Service Center dedicated to support our customers with parts and service

Standard Equipment...

- Chuck Guard • Accuracy Chart
- Covered Leadscrew • Lockable Isolator Switch
- Electric Coolant Pump, Tank and Fittings
- Emergency Stop Button • End Guard Limit Switch
- Forward/Reverse/Stop Switch
- Splash Guard • Tee Slotted Top Slide
- One Shot Saddle and Cross Slide Lubrication
- Pullout Chip Bin • Thread Indicator
- Tool Box with Wrenches and Dead Centers
- Instruction and Spare Parts Manual
- 110 Volts at Control



Clausing/Colchester 'MAGNUM' Series 26" (660mm) & 32" (813mm) Variable Speed Lathes

Specifications:

	Magnum 26"	Magnum 32"
Capacity		
Height of Center	46.65" (1185mm)	49.68" (1262mm)
Swing Over Bed	23.3" (670mm)	32.3" (820mm)
Swing in Gap	35.8" (910mm)	41.7" (1060mm)
Width in Front of Gap	9.44" (240mm)	9.44" (240mm)
Swing Over Cross Slide	16.9" (430mm)	22.8" (580mm)
Bedway Width	18.9" (480mm)	18.9" (480mm)
Cross/Top Slide		
Travel of Cross Slide	16" (406mm)	16" (406mm)
Width of Cross Slide	11" (280mm)	11" (280mm)
Travel of Top Slide	6.5" (165mm)	6.5" (165mm)
Width of Top Slide	7" (180mm)	7" (180mm)
Tailstock		
Quill Travel	12" (300mm)	12" (145mm)
Quill Diameter	4.125" (1055mm)	4.125" (1055mm)
Quill Taper	6MT	6MT
Feeds and Threading		
Longitudinal Feed Range (in)	0.002-0.16 in/rev	0.002-0.16 in/rev
(mm)	.05-3.2mm/rev	.05-3.2mm/rev
Cross Feed Range (in)	0.001-0.08in/rev	0.001-0.08in/rev
(mm)	.025-1.6mm/rev	.025-1.6mm/rev
Number of Inch Pitches	51	51
Range of Inch Pitches	2-84 tpi	2-84 tpi
Number of Metric Pitches	59	59
Range of Metric Pitches	0.2-14mm	0.2-14mm
Number of Diametral Pitches	27	27
Range of Diametral Pitches	8-72	8-72
Number of Module Pitches	20	20
Range of Module Pitches	0.2-3.5	0.2-3.5
Motor		
Spindle Motor	30 hp (20kw)	30 hp (20kw)

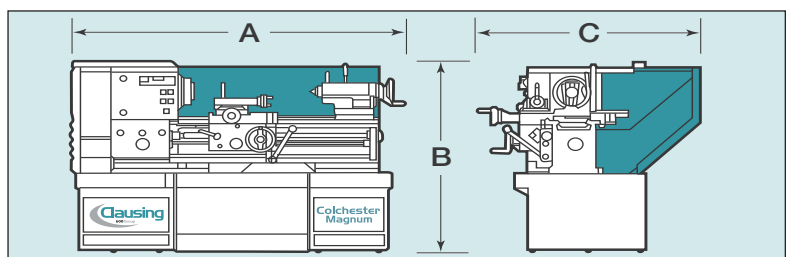
Standard Features...

- State-of-the-art AC Spindle Drive features surface mount technology for high reliability
- 30Hp Spindle Motor, 3 Speed Range Headstock with spindle speeds 18-1800 allows optimum cutting speeds for a wide range of machining applications
- Optional 6" and 9" Spindle Bores with Rear Chuck Adapters for long part machining applications
- One-piece cast iron bed on cast iron plinths provides a solid foundation ensuring maximum stability and rigidity under heavy machining applications
- Rollout Chip Pans for easy chip removal and cleaning maintenance, Optional Chip Conveyors available
- Carriage Ways coated with "Moglice" PTEE for minimal bedwear and longer machine life
- Clausing/Colchester Magnum Lathes are available with 60", 80", 120", and 160" Distance Between Centers
- Machines are built to CE safety standards
- Standard equipment includes: Coolant System, Tailstock, Full length Splash Guard, Interlock Chuck Guard, and Worklight

Models and Dimensions:

Model	Swing and Center Distance	A	B	C	Weight Approx
8215VSJ	26" x 60" (660mm) x (1500mm)	151.5" (3850mm)	70.8" (1800mm)	74.8" (1900mm)	8,820 lbs. (4000kg)
8216VSJ	26" x 80" (660mm) x (2032mm)	171.2" (4350mm)	70.8" (1800mm)	74.8" (1900mm)	9,480 lbs. (4300kg)
8219VSJ	26" x 120" (660mm) x (3048mm)	210" (5350mm)	70.8" (1800mm)	74.8" (1900mm)	11,245 lbs. (5100kg)
8220VSJ	26" x 160" (660mm) x (4064mm)	250" (6350mm)	70.8" (1800mm)	74.8" (1900mm)	12,786 lbs. (5800kg)
8315VSJ	32" x 60" (813mm) x (1500mm)	151.5" (3850mm)	70.8" (1800mm)	74.8" (1900mm)	10,362 lbs. (4700kg)
8316VSJ	26" x 80" (813mm) x (2032mm)	171.2" (4350mm)	70.8" (1800mm)	74.8" (1900mm)	11,464 lbs. (5200kg)
8319VSJ	26" x 120" (813mm) x (3048mm)	210" (5350mm)	70.8" (1800mm)	74.8" (1900mm)	14,109 lbs. (6400kg)
8320VSJ	26" x 160" (813mm) x (4064mm)	250" (6350mm)	70.8" (1800mm)	74.8" (1900mm)	16,535 lbs. (7500kg)

Headstock	26" Standard	26" Option #1	32" Standard	32" Option #1	32" Option #2
Spindle Bore	4.09" (104mm)	6" (155mm)	4.09" (104mm)	6" (155mm)	9" (230mm)
Spindle Nose (Camlock)	D1-11	A2-11	D1-11	A2-11	A2-15
Spindle Nose Taper	8MT	7MT	8MT	7MT	-
Number of Spindle Speeds	3	3	3	3	3
Spindle Speed Range (rpm)	18-1800	15-1800	18-1800	15-1800	8-600
Low Range (rpm)	18-200	15-102	18-200	15-102	8-63
Mid Range (rpm)	55-605	45-306	55-605	45-306	21-229
High Range (rpm)	160-1800	118-800	160-1800	118-800	56-600



Clausing/Colchester Lathe Accessories

Live Center

Revolving Center is concentric within .0002" T.I.R. 60° point rotates on roller bearings.



Part No.	Fits Lathe Models	Weight
12-510	13" Swing Geared Head Lathes	2 lbs.
15-710	13" Swing Variable Speed Lathes	3 lbs.
17-910	15" Swing Geared Head & Variable Speed Lathes	9 lbs.
18-910	18" thru 32" Swing Variable Speed Lathe	9 lbs.



Steady Rest

The Steady Rest provides support for long or slender work and allows heavy cuts without chatter. Capacities are sized for lathe models.

Part No.	Fits Lathe Models	Capacity Min-Max	Fingers	Weight
3-513	13" Swing Geared Head Lathes	3/8"-5-1/2"	Bronze	37 lbs.
13-472VS	13" Swing Variable Speed Lathes	3/8"-5-1/2"	Bronze Tip & Roller	37 lbs.
15-755N	15" Swing Geared Head & Variable Speed Lathes	3/8"-6-3/8"	Bronze Tip & Roller	45 lbs.
18-812	18" Swing Variable Speed Lathes	3/8"-9-3/8"	Bronze Tip & Roller	58 lbs.
21-860	21" Swing Variable Speed Lathes	6-1/8"-15"	Bronze Tip & Roller	115 lbs.
21-412VS	21" Swing Variable Speed Lathes	3/8"-9"	Bronze Tip & Roller	115 lbs.
26-412VS	26" Swing Variable Speed Lathes	1.9" - 8.26	Roller Tip	115 lbs.
26-860	26" Swing Variable Speed Lathes	7.8" - 14.9"	Roller Tip	125 lbs.
32-412VS	32" Swing Variable Speed Lathes	1.9" - 8.26	Roller Tip	115 lbs.
32-860	32" Swing Variable Speed Lathes	7.8" - 14.9"	Roller Tip	125 lbs.
32-861	32" Swing Variable Speed Lathes	1.78" - 19.69"	Roller Tip	145 lbs.



Follower Rest

The Follower Rest mounts on the carriage and moves with it, providing workpiece support close to the cutting tool... making it ideal for long slender parts which must be machined between centers.

Part No.	Fits Lathe Models	Capacity Min-Max	Fingers	Weight
3-514	13" Swing Geared Head Lathes	3/8"-3"	Bronze	16 lbs.
13-471VS	13" Swing Variable Speed Lathes	3/8"-3"	Bronze Tip & Roller	16 lbs.
15-754N	15" Swing Geared Head & Variable Speed Lathes	3/8"-6-3/8"	Bronze Tip & Roller	28 lbs.
18-811	18" Swing Variable Speed Lathes	3/8"-9-3/8"	Bronze Tip & Roller	37 lbs.
21-411VS	21" Swing Variable Speed Lathes	3/8"-4-1/4"	Bronze Tip & Roller	37 lbs.
26-411VS	26" Swing Variable Speed Lathe	.79" - 6.3"	Roller Tip	40 lbs.
32-411VS	32" Swing Variable Speed Lathe	.79" - 6.3"	Roller Tip	45 lbs.

Taper Attachment

The Taper Attachment is fitted to the rear of the carriage and permits taper turning without disengaging the cross feed screw. It is easy to set-up and does not interfere with normal operation. The slide is graduated in degrees of taper with a range of 10° on either side of center. Maximum taper is 4" per foot.



Part No.	Fits Lathe Models	Capacity Per Setting	Weight
3-521	13" Swing Geared Head Lathes	10"	39 lbs.
13-410VS	13" & 15" Swing Geared Head & Variable Speed Lathes	12"	39 lbs.
18-810	18" & 21" Variable Speed Lathes	15"	94 lbs.
26-810	26 Variable Speed Lathes	15"	105 lbs.
32-810	26 Variable Speed Lathes	15"	105 lbs.



Halogen Work Light

Part No. FV-9070G

Aloris Quick Change Tool Post

Precision engineered to assure accuracy. Advanced design provides built-in quick tool changing versatility with positive rigidity to meet the most exacting working tolerance.



Quickly and easily installed on any engine lathe, bench or CNC lathe, for a wide range of operations... from fine precision work to heavy-duty cutting.

The Aloris Quick Change Tool Post is shipped with four (4) Tool Holders: 2 Turning and Facing Holders; 1 Boring, Turning and Facing Holders; 1 Morse Taper Holder.

Part No.	Fits Lathe Models	Weight
3-503A	13" Swing Geared Head Lathes	29 lbs.
13-775A	13" Swing Variable Speed Lathes	32 lbs.
15-775A	15" Swing Geared Head & Variable Speed Lathes	35 lbs.
17-875A	18" Swing Variable Speed Lathes	69 lbs.
21-475A	21" Swing Variable Speed Lathes	69 lbs.
26-475A	26" Swing Variable Speed Lathes	69 lbs.
32-475A	32" Swing Variable Speed Lathes	69 lbs.

Five Position Carriage Stop

This stop is useful for turning multiple diameter work, and is mounted on the apron. Each of the five screw stops can be indexed to contact the stop pin mounted on the bed vee. Accurate indexing is provided by a steel ball under spring tension.



One Position Carriage Stop

This hardened stop clamps on the front bed way at any position determined by the operator, allowing repetitive cuts to the same position.

Part No.	Fits Lathe Models	Weight
3-516	13" Swing Geared Head Lathes	2 lbs.
13-435VS	13" & 15" Swing Geared Head & Variable Speed Lathes	3 lbs.
17-832	18" & 21" Swing Variable Speed Lathes	5 lbs.

Aloris Tool Post Extra Tool Holders



Part No.	Tool Holder Type
15-775A-1	Aloris Extra Straight Holder 1"
15-775A-2	Aloris Extra V-Holder 1", 13/16" Bore Bar
15-775A-4D	Aloris 1-1/4" Boring Bar Holder
15-775A-41D	Aloris 1-1/2" Boring Bar Holder
15-775A-5	Aloris Extra 3MT Holder
15-775A-71	Aloris Extra Cutoff Holder 2" height
15-77A-BSL-187	Aloris Cutoff Blade Self-Locking Throw Aaway 3/16"

Part No.	Fits Lathe Models	Weight
3-518	13" Swing Geared Head Lathes	4 lbs.
13-438VS	13" & 15" Swing Geared Head & Variable Speed Lathes	4 lbs.
18-831	18" & 21" Swing Variable Speed Lathes	6 lbs.
26-831	26" Swing Variable Speed Lathes	6 lbs.
32-831	32" Swing Variable Speed Lathes	6 lbs.

(Use with Carriage Stop or Micro Carriage Stop, sold separately)



Micro Position Carriage Stop

This hardened stop clamps on the front bed way at any position determined by the operator, allowing repetitive cuts to the same position.

Part No.	Fits Lathe Models	Weight
3-517	13" Swing Geared Head Lathes	2 lbs.
13-436VS	13" & 15" Swing Geared Head & Variable Speed Lathes	3 lbs.
17-833	18" & 21" Swing Variable Speed Lathes	5 lbs.
26-833	26" Swing Variable Speed Lathes	5 lbs.
32-833	32" Swing Variable Speed Lathes	5 lbs.

The Last Word in Toolroom Lathe Productivity...Pick from One of These Three World Leading Digital Readout Systems Available with Constant Surface Speed.



ACU-RITE® 300S LCD Digital Readout Available with Constant Surface Speed (CSS)... 200S LCD for Standard 2 Axis Systems

The 300S Color digital readout is the ultimate in efficiency. This Intuitive, user-friendly readout comes equipped with machine specific software and easy to read, full color, flat screen 5.7" LCD display.

The ultimate in efficiency and turning productivity, utilizing state-of-the-art features...

- Simplify cutting metric threads on lathes with inch leadscrews with the NEW Thread Assist function (optional 1000 line encoder required)
- 16 Tool Offsets for easy compensation of different tool sizes
- Lock Axis feature, used in conjunction with tool offsetting, lets the operator establish tool offsets with the tool under load, resulting in reduced deflection
- Instant radius/diameter conversion reduces math errors and allows operator to machine to print
- Posit-Trac™; a unique feature that lets you easily, quickly and accurately re-establish workpiece zero after power loss
- 2, 3 or 4-axes 5.7" flat-screen LCD display
- Preset and zero reset
- Near-zero warning
- Instant inch/mm conversion
- Linear and non-linear error compensation
- Taper calculator
- Die-cast metal construction
- RS-232-C/V.24 serial port data interface

- Multiple program names with numerous steps
- Multiple display views - DR01 & DR02
- Job clock
- Feed rate display
- Advanced skew compensation
- Multiple language supports
- Absolute/incremental
- Help function
- 4 function calculator

Precision Glass Scales

ACU-RITE precision glass scales withstand the elements found in the harshest machine shop environments. As a result, our precision glass scales resist changes in size, shape or density due to temperature and humidity variation.

- Exceptional accuracy $\pm .00006"$ (1.5 μ m)
- Available in lengths from 1"–773" (25.4–19634mm)
- Resolution from .00002"–.0005" (.05–10 μ m)

TURNING

NEWALL

DP700 DRO Outstanding Features with Leading Edge Technology



The DP700 is a powerful and intuitive DRO that is housed in a rugged, ergonomically designed casting. The DRO features all of the essential functions for turning.

- Solid cast construction
- Long life membrane keypad
- Clean, crisp LEDs
- Intuitive message window
- Wide viewing angle
- Safe, low voltage external power supply
- Five year warranty
- Customized canned cycles
- ABS/Inch
- Digifind
- Metric/Inch
- Zero approach
- Tool offsets
- Taper
- Summing
- Bolt hole circle
- Arc contouring
- Polar co-ordinates
- Line hole
- Programmable memory
- Feed-rate display
- Linear and segmented error Compensation
- RS232 output
- Undo function



FAGOR  **Innova 40i DRO, with color TFT screen**

The Innova 40i for lathe applications offers the operator graphic assistance that no other DRO can offer such as taper calculation, the combination of the Z1 and Z2 axes or the 16 datum points for as many tool offsets that you can store.

The FAGOR DRO offers the user features that make the operators job easier

- TFT color LCD display
- High clarity view from any angle
- NEW Threading software (TPI and metric threads)
- Solid graphics & 3D Simulation
- Conversational graphic help screen
- Friendly and intuitive operations
- Easy set-up and diagnosis
- “Distance to Go” bar for easy positioning
- Up to 16 tool offsets with hold feature
- Built-in calculator with auto recall
- Feedback alarms
- Taper calculation
- Combining the Z1 and Z2 axes
- Software travel limits for safety
- Re-Set, Pre-Set, direct mm/inch conversion
- FAGOR Warranty: 3 years and lifetime on the glass



Pratt Burnerd Self-Centering Universal 3-Jaw SETRITE™ Chucks

Pratt Burnerd Universal Setrite 3-Jaw Chucks are precision manufactured with a .0005 TIR repeatability on duplicate parts. The steel body allows high metal removal rates. 3-Jaw Setrite Chucks are supplied with two-piece

American standard tongue and groove reversible jaws. Chucks have nitride hardened scroll and hardened pinion. All chucks have a two year warranty.



Pratt Burnerd Self-Centering Universal 6-Jaw SETRITE™ Chucks

Pratt Burnerd Universal Setrite 6-Jaw Chucks are precision manufactured with a .0005 TIR repeatability on duplicate parts. The steel body allows high metal removal rates. 6-Jaw Setrite Chucks are supplied with two-piece American standard

tongue and groove reversible jaws. Chucks have nitride hardened scroll and hardened pinion. All chucks have a two year warranty.

Part No.	Dia.	Lathe Type & Size	Spindle Size	Max. rpm	Weight
0625321	6"	13" Swing Geared Head & Variable Speed Lathes	D1-4	4900	26 lbs.
0825321	8"	13" Swing Geared Head & Variable Speed Lathes	D1-4	4200	49 lbs.
0825323	8"	15" Swing Geared Head & Variable Speed Lathes	D1-6	4200	49 lbs.
1025323	10"	15" Swing Geared Head & Variable Speed Lathes	D1-6	3300	71 lbs.
1025324	10"	18" Swing Variable Speed Lathes	D1-8	3300	71 lbs.
1225324	12"	18" Swing Variable Speed Lathes	D1-8	2300	112 lbs.
1225325	12"	21" Swing Variable Speed Lathes	D1-11	2300	112 lbs.
1525325	15"	21" Swing Variable Speed Lathes	D1-11	2000	146 lbs.

Part No.	Dia.	Lathe Type & Size	Spindle Size	Max. rpm	Weight
0626321	6"	13" Swing Geared Head & Variable Speed Lathes	D1-4	4900	27 lbs.
0826321	8"	13" Swing Geared Head & Variable Speed Lathes	D1-4	4200	49 lbs.
0826323	8"	15" Swing Geared Head & Variable Speed Lathes	D1-6	4200	49 lbs.
1026323	10"	15" Swing Geared Head & Variable Speed Lathes	D1-6	3300	76 lbs.
1026324	10"	18" Swing Variable Speed Lathes	D1-8	3300	76 lbs.
1226324	12"	18" Swing Variable Speed Lathes	D1-8	2300	116 lbs.
1226325	12"	21" Swing Variable Speed Lathes	D1-11	2300	116 lbs.
1526325	15"	21" Swing Variable Speed Lathes	D1-11	2000	205 lbs.

TURNING



Pratt Burnerd 4-Jaw Medium Duty Independent Chucks

Pratt Burnerd
Independent Chucks

are precision manufactured and supplied with Ductile iron bodies, hardened operating screws and solid reversible hard jaws. Special jaw and jaw way design adds extra bearing surfaces, increasing chuck life and rigidity. Pratt Burnerd Independent Chucks come with a two year warranty.



Slotted Face Plates

Part No.	Dia.	Lathe Type & Size	Spindle	Weight
13-403	12"	13" Swing Variable Speed Lathes	D1-4	45 lbs.
13-500	12"	13" Swing Geared Head Lathes	D1-4	45 lbs.
13-404	18"	13" Swing Variable Speed Lathes	D1-4	60 lbs.
13-502	18"	13" Swing Geared Head Lathes	D1-4	60 lbs.
15-703	14"	15" Swing Geared Head & Variable Speed Lathes	D1-6	50 lbs.
15-704	21"	15" Swing Geared Head & Variable Speed Lathes	D1-6	108 lbs.
17-803	17"	18" Swing Variable Speed Lathes	D1-8	120 lbs.
17-804	28"	18" Swing Variable Speed Lathes	D1-8	229 lbs.
21-403	20"	21" Swing Variable Speed Lathes	D1-11	130 lbs.
21-404	27"	21" Swing Variable Speed Lathes	D1-11	205 lbs.

Part No.	Dia.	Lathe Type & Size	Spindle Size	Weight
0814421	8"	13" Swing Geared Head & Variable Speed Lathes	D1-4	31 lbs.
1014421	10"	13" Swing Geared Head & Variable Speed Lathes	D1-4	43 lbs.
1014423	10"	15" Swing Geared Head & Variable Speed Lathes	D1-6	43 lbs.
1214423	12"	15" Swing Geared Head & Variable Speed Lathes	D1-6	72 lbs.
1214424	12"	18" Swing Variable Speed Lathes	D1-8	72 lbs.
1414524	14"	18" Swing Variable Speed Lathes	D1-8	126 lbs.
1614525	16"	21" Swing Variable Speed Lathes	D1-11	180 lbs.

5C Front Mounted Hand Wheel Speed Collet Chuck

Fast and easy, front hand wheel operation reduces operator fatigue with accurate maximum cone TIR .0005". Easy installation, no drawtubes or linkages required. One year warranty.



Part No.	Lathe Type & Size	Spindle	Weight
PB23-D4	13" Swing Variable Speed Lathes	D1-4	15 lbs.
PB23-D6	15" Swing Geared Head & Variable Speed Lathes	D1-6	17 lbs.
PB23-D8	18" Swing Variable Speed Lathes	D1-8	23 lbs.
PB33-D11	21" Swing Variable Speed Lathes	D1-11	27 lbs.

Drive Plates



Part No.	Lathe Type & Size	Weight
13-600VS	13" Geared Head & Variable Speed Lathes	40 lbs.
15-600N	15" Geared Head & Variable Speed Lathes	50 lbs.
18-600N	18" Variable Speed Lathes	50 lbs.

Air Powered Front Mounted 5C Dead Length Collet

Easily convert any lathe into a production machine. No hydraulic system required. No draw tube or air feed tubes restricting spindle bore. No rear cylinders and cylinder adapters. Repeats on duplicate parts \pm .00015.



Part No.	Lathe Type & Size	Spindle	Weight
ATL206-5CD4	13" Swing Variable Speed Lathes	D1-4	22 lbs.
ATL206-5CD6	15" Swing Geared Head & Variable Speed Lathes	D1-6	22 lbs.
ATL206-5CD8	18" Swing Variable Speed Lathes	D1-8	22 lbs.

Air Powered Front Mounted 16C Dead Length Collet

No hydraulic system required. No draw tube or air feed tubes restricting spindle bore. No rear cylinders and cylinder adapters. Easily convert any lathe into a production machine. Repeats on duplicate parts \pm .00015.



Part No.	Lathe Type & Size	Spindle	Weight
ATL207-16CD4	13" Swing Variable Speed Lathes	D1-4	30 lbs.
ATL207-16CD6	15" Swing Geared Head & Variable Speed Lathes	D1-6	30 lbs.
ATL207-16CD8	18" Swing Variable Speed Lathes	D1-8	30 lbs.

Air Powered Front Mounted B42 Dead Length Collet

Repeats on duplicate parts \pm .00015. No hydraulic system required. No draw tube or air feed tubes restricting spindle bore. No rear cylinders and cylinder adapters. Easily convert any lathe into a production machine.



Part No.	Lathe Type & Size	Spindle	Weight
ATL207-B42D4	13" Swing Variable Speed Lathes	D1-4	35 lbs.
ATL206-B42D6	15" Swing Geared Head & Variable Speed Lathes	D1-6	35 lbs.
ATL206-B42D8	18" Swing Variable Speed Lathes	D1-8	35 lbs.

Air Powered Front Mounted B60 Dead Length Collet

No hydraulic system required. Repeats on duplicate parts \pm .00015. No draw tube or air feed tubes restricting spindle bore. No rear cylinders and cylinder adapters. Easily convert any lathe into a production machine.



Part No.	Lathe Type & Size	Spindle	Weight
ATL207-B60D4	13" Swing Variable Speed Lathes	D1-4	46.6 lbs.
ATL206-B60D6	15" Swing Geared Head & Variable Speed Lathes	D1-6	46.6 lbs.
ATL206-B60D8	18" Swing Variable Speed Lathes	D1-8	46.6 lbs.

TURNING

Pratt Burnerd Key-Operated Collet Chucks



This extremely accurate, .001" repeatability, economical chuck is completely sensitive for any gripping pressure. Its compact, efficient design is equipped with ball bearings and hardened

and ground components for lasting precision. Capacities from 1/6" through 2-1/2"

Part No.	Description	Lathe Type & Size	Bar Stock Capacity	Collet Capacity	Collet Type	Weight
6012-31300	KC15 D4	13" Swing Geared Head Lathes	1/16"-1-1/2"	1-1/2"	EC	18 lbs.
6012-52100	KC25 D6	15" Swing Geared Head Lathes	1/2"-2-1/2"	2-1/2"	EE	60 lbs.
6012-52100	KC25 D6	15" Swing Variable Speed Lathes	1/2"-2-1/2"	2-1/2"	EE	60 lbs.
6012-62100	KC25 D8	18" Swing Variable Speed Lathes	1/2"-2-1/2"	2-1/2"	EE	65 lbs.
6012-72100	KC25 D11	21" Swing Variable Speed Lathes	1/2"-2-1/2"	2-1/2"	EE	65 lbs.

Pratt Burnerd Multi-Size Collets

for Key-Operated Chuck

The Pratt Burnerd multi-size collets provide an accurate, efficient and economical means of holding work, while eliminating the need for decimal, metric or special size collets. Each multi-size collet has a stepless gripping range of .125" with an extended range of $\pm .010$ " of size... accommodating both undersize and oversize work.

Most multi-size collets handle hex as well as round stock. Pratt Burnerd multi-size collets are very accurate, with no distortion. Gripping pressure is adjustable and the full-grip blades permit machining up to collet face. Accuracy is .0005" maximum eccentricity at the nose.



EC Collets		EE Collets	
1/16-3/16	3150-30200	1/2-5/8	3150-50600
1/8-1/4	3150-30300	5/8-3/4	3150-50700
1/4-3/8	3150-30400	3/4-7/8	3150-50800
3/8-1/2	3150-30500	7/8-1	3150-50900
1/2-5/8	3150-30600	1-1 1/8	3150-51000
5/8-3/4	3150-30700	1 1/8-1 1/4	3150-51100
3/4-7/8	3150-30800	1 1/4-1 3/8	3150-51200
7/8-1	3150-30900	1 3/8-1 1/2	3150-51300
1-1 1/8	3150-31000	1 1/2-1 5/8	3150-51400
1 1/8-1 1/4	3150-31100*	1 5/8-1 3/4	3150-51500
1 1/4-1 3/8	3150-31200	1 3/4-1 7/8	3150-51600
1 3/8-1 1/2	3150-31300	1 7/8-2	3150-51700
SET	3160-31300	2-2 1/8	3150-51800
		2 1/8-2 1/4	3150-51900
		2 1/4-2 3/8	3150-52000*
		2 3/8-2 1/2	3150-52100*
		SET	3160-52100

*For round stock only

Crawford 5C Round Collets



Part No.	Sizes
0123-R (<i>R=Size</i>)	1/8" thru 1-1/8 by 64ths
5C Round Collet Sets	
0123-SET-4	1/16" thru 1-1/16" by 64ths
0123-SET-5	1/16" thru 1-1/16" by 32nds
0123-SET-6	1/16" thru 1-1/16" by 16ths
0123-SET-7	1/8" thru 1" by 8ths
7659	Collet Rack for 13" and 15" lathes

Crawford 16C Round Collets



Part No.	Sizes
G119-R (<i>R=Size</i>)	1/16" thru 1-5/8 by 16ths

Crawford B-42 Round Collets



Part No.	Sizes
4728-R (<i>R=Size</i>)	1/16" thru 1-5/8 by 16ths

Crawford B-60 Round Collets



Part No.	Sizes
4291-R (<i>R=Size</i>)	1/16" thru 2-5/16 by 16ths

Clausing MA Series Geared Head Heavy-Duty Large Swing Lathes



The Clausing MA 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.

Machine Standard 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.
- 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.

Standard Equipment:

- Hardened and Ground Bed Ways
- Hardened and Ground Gears
- Chuck Guard with Limit Switch
- 20 hp Motor with Inverter Drive
- 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
- 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

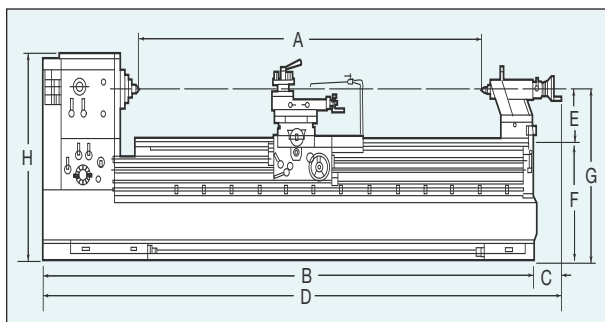
Specifications:

Model	MA26	MA30
Capacity		
Swing Over Bed	26.7" (680mm)	30.7" (780mm)
Swing Over Cross Slide	17.32" (440mm)	21.25" (540mm)
Swing in Gap	38.12" (970mm)	42.12" (1070mm)
Gap (in Front of Faceplate)	19" (482mm)	19" (482mm)
Headstock		
Spindle Nose	A2-11	A2-11
Spindle Bore	4.13" (105mm)	4.13" (105mm)
Spindle Taper		
Headstock	Geared Head	Geared Head
No. Spindle Speeds	12	12
Spindle Speed (rpm)	12-1000*	12-1000*
Min. Spindle Speed for Full Power	45 rpm	45 rpm
Construction		
Bed Type	One Piece	One Piece
Bed Width	18" (458mm)	18" (458mm)
Bed Height Over Bed	13.38" (340mm)	15.35" (390mm)
Cross Slide Travel	15.35" (390mm)	15.38" (390mm)
Compound Slide Travel	9.5" (240mm)	9.5" (240mm)
Leadscrew Diameter	1.77" (45mm)	1.77" (45mm)
Thread and Feed Box		
No. of Longitudinal Feeds	28	28
Range (in)	0.0019-0.027 in/rev	0.0019-0.027 in/rev
(mm)	0.05-0.7mm/rev	0.05-0.7mm/rev
No. of Cross Feeds	28	28
Range (in)	0.00019-0.1.38 in/rev	0.00019-0.1.38 in/rev
(mm)	0.025-0.35mm/rev	0.025-0.35mm/rev
No. of Inch Threads	36	36
Range	2-28 tpi	2-28 tpi
No. of Metric Threads	65	65
Range	0.8-14mm	0.8-14mm
No. of Modular Thread	22	22
Range	0.5-7 Mod	0.5-7 Mod
No. of Diametral Pitch Threads	36	36
Range	4-56 DP	4-56 DP
Tailstock		
Quill Diameter	8.26" (210mm)	8.26" (210mm)
Quill Travel	4.13" (105mm)	4.13" (105mm)
Center Taper	6MT	6MT
Motors		
Spindle Motor	20 hp (11kw)	15 hp (11kw)
Rapid Feed Motor	1/4 hp (.19kw)	1/4 hp (.19kw)
Pump Motor	1/8 hp (.09kw)	1/8 hp (.09kw)

(Specifications subject to change without notification)

*Spindles Speeds (rpm): 12, 20, 29, 40, 55, 85, 120, 175, 300, 445, 650, 1000

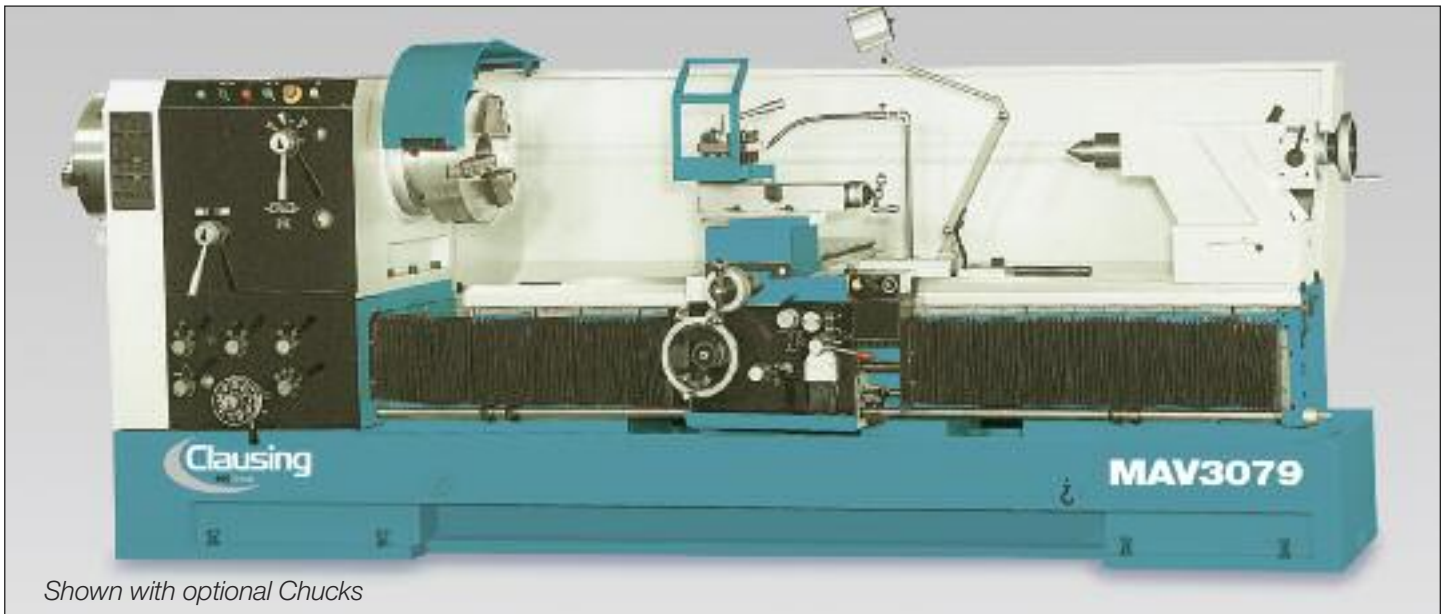
Dimensions, Center Distance and Weight:



Model	E	F	G	H
MA26	13.38" (340mm)	29.9" (760mm)	43.30" (1100mm)	55.1" (1400mm)
MA30	15.35" (390mm)	29.9" (760mm)	45.27" (1150mm)	57.1" (1450mm)

Model	Width	Center A	B	C	D	Net Weight	Gross Weight
MA26/3079	48.8" (1240mm)	79" (2000mm)	148" (3750mm)	5.9" (150mm)	154" (3900mm)	8,598 lbs. (3900kgs)	9,149 lbs. (4150kgs)
MA26/30118	48.8" (1240mm)	118" (3000mm)	187" (4750mm)	5.9" (150mm)	193" (4900mm)	9,921 lbs. (4500kgs)	10,692 lbs. (4850kgs)
MA26/30157	48.8" (1240mm)	157" (4000mm)	226" (5750mm)	5.9" (150mm)	232" (5900mm)	11,243 lbs (5100kgs)	12,345 lbs. (5600kgs)

Clausing MAV Series Variable Speed Heavy-Duty Large Swing Lathes



The Clausing MAV 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.

Machine Standard 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.
- 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.

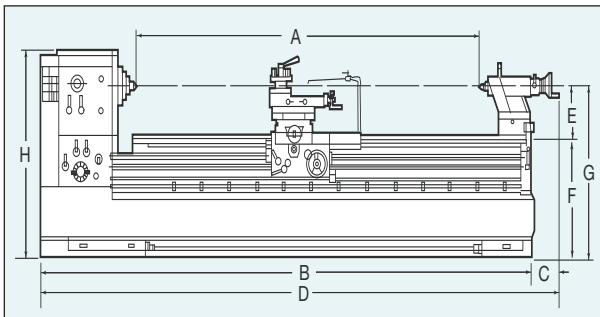
Standard Equipment:

- 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
- 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
- Thread Dial
- Manual Tailstock with Manual Movement and Anti Slip Lock
- Lockable Main Switch
- Halogen Work Light
- Leveling Screws and Pads
- Tools, Tool Box, Operation Manual

Specifications:

Model	MAV26	MAV30
Capacity		
Swing Over Bed	26.7" (680mm)	30.7" (780mm)
Swing Over Cross Slide	17.32" (440mm)	21.25" (540mm)
Swing in Gap	38.12" (970mm)	42.12" (1070mm)
Gap (in Front of Faceplate)	19" (482mm)	19" (482mm)
Headstock		
Spindle Nose	A2-11	A2-11
Spindle Bore	4.13" (105mm)	4.13" (105mm)
Spindle Taper		
Headstock	Variable Speed	Variable Speed
Speed Range 1	14-45 rpm	14-45 rpm
Speed Range 2	60-180 rpm	60-180 rpm
Speed Range 3	306-1000 rpm	306-1000 rpm
Min. Spindle Speed for Full Power	45 rpm	45 rpm
Construction		
Bed Type	One Piece	One Piece
Bed Width	18" (458mm)	18" (458mm)
Bed Height Over Bed	13.38" (340mm)	15.35" (390mm)
Cross Slide Travel	15.35" (390mm)	15.38" (390mm)
Compound Slide Travel	9.5" (240mm)	9.5" (240mm)
Leadscrew Diameter	1.77" (45mm)	1.77" (45mm)
Thread and Feed Box		
No. of Longitudinal Feeds	28	28
Range (in)	0.0019-0.027 in/rev	0.0019-0.027 in/rev
(mm)	0.05-0.7 mm/rev	0.05-0.7 mm/rev
No. of Cross Feeds	28	28
Range (in)	0.00019-0.1.38 in/rev	0.00019-0.1.38 in/rev
(mm)	0.025-0.35 mm/rev	0.025-0.35 mm/rev
No. of Inch Threads	36	36
Range	2-28 TPI	2-28 TPI
No. of Metric Threads	65	65
Range	0.8-14 mm	0.8-14 mm
No. of Modular Thread	22	22
Range	0.5-7 Mod	0.5-7 Mod
No. of Diametral Pitch Threads	36	36
Range	4-56 DP	4-56 DP
Tailstock		
Quill Diameter	8.26" (210mm)	8.26" (210mm)
Quill Travel	4.13" (105mm)	4.13" (105mm)
Center Taper	6MT	6MT
Motors		
Spindle Motor	20 hp (11kw)	20 hp (11kw)
Rapid feed Motor	1/4 hp (.19kw)	1/4 hp (.19kw)
Pump Motor	1/8 hp (.09kw)	1/8 hp (.09kw)

Dimensions, Center Distance and Weight:



Model	E	F	G	H
MAV26	13.38" (340mm)	29.9" (760mm)	43.30" (1100mm)	55.1" (1400mm)
MAV30	15.35" (390mm)	29.9" (760mm)	45.27" (1150mm)	57.1" (1450mm)

(Specifications subject to change without notification)

Model	Width	Center A	B	C	D	Net Weight	Gross Weight
MAV26/3079	48.8" (1240mm)	79" (2000mm)	148" (3750mm)	5.9" (150mm)	154" (3900mm)	8,598 lbs. (3900kgs)	9,149 lbs. (4150kgs)
MAV26/30118	48.8" (1240mm)	118" (3000mm)	187" (4750mm)	5.9" (150mm)	193" (4900mm)	9,921 lbs. (4500kgs)	10,692 lbs. (4850kgs)
MAV26/30157	48.8" (1240mm)	157" (4000mm)	226" (5750mm)	5.9" (150mm)	232" (5900mm)	11,243 lbs (5100kgs)	12,345 lbs. (5600kgs)
MAV26/30197	48.8" (1240mm)	196" (5000mm)	266" (6750mm)	5.9" (150mm)	272" (6900mm)	13,889 lbs. (6300kgs)	15,432 lbs. (7000kgs)
MAV26/30236	48.8" (1240mm)	236" (6000mm)	305" (7750mm)	5.9" (150mm)	311" (7900mm)	15,432 lbs. (7000kgs)	16,975 lbs. (7700kgs)
MAV26/30275	48.8" (1240mm)	275" (7000mm)	345" (8750mm)	5.9" (150mm)	350" (8900mm)	16,975 lbs. (7700kgs)	18,519 lbs. (8400kgs)
MAV26/30315	48.8" (1240mm)	315" (8000mm)	384" (9750mm)	5.9" (150mm)	390" (9900mm)	18,519 lbs. (8400kgs)	20,282 lbs. (9200kgs)

TURNING

Clausing MA & MAV Heavy-Duty Large Swing Lathes Accessories



Pratt Burnerd Self-Centering Universal 3-Jaw SETRITE™ Chucks

Pratt Burnerd Universal Setrite 3-Jaw Chucks are precision manufactured with a .0005 TIR repeatability on duplicate parts. The steel body allows high metal removal rates. 3-Jaw Setrite Chucks are supplied with

two-piece American standard tongue and groove reversible jaws. Chucks have nitride hardened scroll and hardened pinion. All chucks have a two year warranty.

Part No.	Dia.	Lathe Type & Size	Spindle Size	Max. rpm	Weight
1525313	15"	MA/MAV 26 Series Lathes	A-11	2000	146 lbs.
1825313	18"	MA/MAV 26/30 Series Lathes	A-11	1300	270 lbs.
2425313	24"	MA/MAV 30 Series Lathes	A-11	850	550 lbs.



Pratt Burnerd Self-Centering Universal 6-Jaw SETRITE™ Chucks

Pratt Burnerd Universal Setrite 6-Jaw Chucks are precision manufactured with a .0005 TIR repeatability on duplicate parts. The steel body allows high metal removal rates. 6-Jaw Setrite Chucks are supplied with

two-piece American standard tongue and groove reversible jaws. Chucks have nitride hardened scroll and hardened pinion. All chucks have a two year warranty.

Part No.	Dia.	Lathe Type & Size	Spindle Size	Max. rpm	Weight
1526313	15"	MA/MAV 26 series lathes	A-11	1300	205 lbs.
1826313	18"	MA/MAV 26/30 series lathes	A-11	1100	290 lbs.
2425313	24"	MA/MAV 30 series lathes	A-11	700	570 lbs.



Atlas 4-Jaw Independent Series 432 Heavy-Duty Steel Body Chucks

Atlas 4-Jaw Independent Chucks are precision manufactured and supplied with steel bodies, hardened and ground operating screws and two-piece reversible American Standard tongue and groove jaws. Atlas 4-Jaw

Independent Chucks come with a one year warranty.

Part No.	Dia.	Lathe Type & Size	Spindle Size
1843-2A11	18"	MA/MAV 26/30 Series Lathes	A-11
2043-2A11	20"	MA/MAV 26/30 Series Lathes	A-11



Atlas 4-Jaw Universal Series 743 Steel Body Chucks

Atlas 4-Jaw Universal Chucks have a maximum .003 TIR using nominating pinon, .001 repeatability using nominating pinon, two-piece American Standard tongue and groove jaws, nitride hardened and ground scroll, hardened pinions.

Atlas 4-Jaw Universal Chucks come with a one year warranty.

Part No.	Dia.	Lathe Type & Size	Spindle Size
1673-2A11	16"	MA/MAV 26 Series Lathes	A-11
2073-2A11	20"	MA/MAV 26/30 Series Lathes	A-11
2473-2A11	20"	MA/MAV 30 Series Lathes	A-11

Live Center

Revolving center is concentric within .0002" T.I.R. 60° point rotates on roller bearings.



Part No.	Fits Lathe Models	Weight
18-910	MA/MAV26 & MA/MAV30 Series Lathes	9 lbs.

Taper Attachment

Part No.	Fits Lathe Models
MA26-T800	Taper Turning Attachment for MA/MAV 26
MA30-T800	Taper Turning Attachment for MA/MAV 30

Traveling Splash Guard

Part No.	Fits Lathe Models
MA26-G1000	Traveling Splash Guard for MA/MAV 26
MA30-G1000	Traveling Splash Guard for MA/MAV 30

TURNING

NEWALL *Digital Readouts offer unmatched performance with revolutionary features that will increase productivity*



Linear Encoders... Consistent accuracy and reliability even under the harshest shop condition...

Based on the principle of electromagnetics, Newall's Spherosyn® and Microsyn® encoders are truly innovative design in which all of the electronic and measuring components are sealed and protected.



DP700 DRO Outstanding Features with Leading Edge Technology

- Solid cast construction
- Long life membrane keypad
- Clean, crisp LEDs
- Intuitive message window
- Wide viewing angle
- Safe, low voltage external power supply
- Five year warranty
- Customized canned cycles
- ABS/Inch
- Digifind
- Metric/Inch
- Zero approach
- Tool offsets
- Taper
- Summing
- Bolt hole circle
- Arc contouring
- Polar co-ordinates
- Line hole
- Programmable memory
- Feed-rate display
- Linear and segmented error compensation
- RS232 output
- Undo function

The DP700 is a powerful and intuitive DRO that is housed in a rugged, ergonomically designed casting. The DRO features all of the essential functions for turning.



Steady Rest

The Steady Rest provides support for long or slender work and allows heavy cuts without chatter. Capacities are sized for lathe models.

Part No.	Fits Lathe Models	Capacity
MA10-S26A	Closed Steady Rest for MA/MAV 26	16.5"
MA10-S26B	Closed Steady Rest for MA/MAV 26	21.6"
MA10-S30A	Closed Steady Rest for MA/MAV 30	16.5"
MA10-S30B	Closed Steady Rest for MA/MAV 30	21.6"

Due to on going design improvements or customer requirements, design and specifications are subject to change without notice.

TURNING



Clausing High Speed Precision Variable Speed Toolroom Lathe

Specifications:

Model	CT618VS
Spindle Capacity	
With Chuck	6"
With Expanding Collets	3"
With Round 5C Collets	1-16"
With Hexagon 5C Collets	7/8"
With Square 5C Collets	3/4"
With Step Chuck	1-1/16"
Capacity	
Swing Over Bed	11" (280mm)
Swing Over Carriage	9" (229mm)
Swing Over Crossslide	5.9" (150mm)
Center Distance	18" (457mm)
Headstock	
Spindle Nose Diameter	2.185" (55.5mm)
Spindle Nose I.D./O.D.	5C (10°) / 4° Taper
Spindle Speeds (Variable)	50-4000 RPM
Inverter Spindle Motor	3 Hp
Hole Through Spindle	1/1/4" (31.8mm)
Bar Stock Diameter (5C Collet)	1/1/16" (27mm)
Carriage	
Cross slide trave	5.9" (150mm)
Carriage Power Feed Range	.196 - 4 in/min
Cross Slide Power Feed Range (Variable)	.314 - 7 in/min
Quick Action Compound Slide Travel	0.098 (2.5mm)
Compound slide travel	2.99" (76mm)
Tailstock	
Spindle Travel	3.7" (94mm)
Threading	
Range of Threads English	11 to 108 TPI
Range of Threads Metric	.275 to 2.7mm
Coolant	
Coolant Pump	1/8 Hp
Speeds & Feeds	
Feed Inverter	1/2 Hp
Dimensions	
Weight (Approx.)	2,200 lbs. (998kg)
Shipping Weight (Approx.)	2,310 lbs. (1048kg)
Length x Height x Width	73" x 30" x 67" (1854 x 762 x 1702mm)

Standard Features...

- Spindle run out within 50 millionths of an inch
- Hardened and precision ground spindle mounted on high-precision preloaded angular contact ball bearings maximizes rigidity and sustained precision.
- Infinitely variable spindle speed provides desired speed on demand.
- EVS model has 3 Hp motor with current vector inverter drive for increased low-end torque.
- Fast lever collet closer allows chucking with one single movement.
- Independent electric variable feeds for carriage and cross slide provide freedom of operation.
- Hardened and precision ground alloy steel bed ways resist wear.
- Turcite-B slideway bearing surface between carriage and bed.
- Inch / Metric quick change gearbox
- Inch / Metric dual dial and quick action compound slide for threading.
- Automatic thread length control



Clausing High Speed Precision Variable Speed Toolroom Lathe with Digital Threading Control

Specifications:

Model	CT618DT
Spindle Capacity	
With Chuck	6"
With Expanding Collets	3"
With Round 5C Collets	1-16"
With Hexagon 5C Collets	7/8"
With Square 5C Collets	3/4"
With Step Chuck	1-1/16 "
Capacity	
Swing Over Bed	11" (280mm)
Swing Over Carriage	9" (229mm)
Swing Over Crossslide	5.9" (150mm)
Center Distance	18" (457mm)
Headstock	
Spindle Nose Diameter	2.185" (55.5mm)
Spindle Nose I.D./O.D.	5C (10°) / 4° Taper
Spindle Speeds (Variable)	50-4000 RPM
Inverter Spindle Motor	3 Hp
Hole Through Spindle	1/1/4" (31.8mm)
Bar Stock Diameter (5C Collet)	1/1/16" (27mm)
Carriage	
Cross slide trave	5.9" (150mm)
Carriage Power Feed Range	.196 - 4 in/min
Cross Slide Power Feed Range (Variable)	.314 - 7 in/min
Quick Action Compound Slide Travel	0.098 (2.5mm)
Compound slide travel	2.99" (76mm)
Tailstock	
Spindle Travel	3.7" (94mm)
Threading	
Range of Threads English	11 to 108 TPI
Range of Threads Metric	.275 to 2.7mm
Coolant	
Coolant Pump	1/8 Hp
Speeds & Feeds	
Feed Inverter	1/2 Hp
Dimensions	
Weight (Approx.)	2,200 lbs. (998kg)
Shipping Weight (Approx.)	2,310 lbs. (1048kg)
Length x Height x Width	73" x 30" x 67" (1854 x 762 x 1702mm)

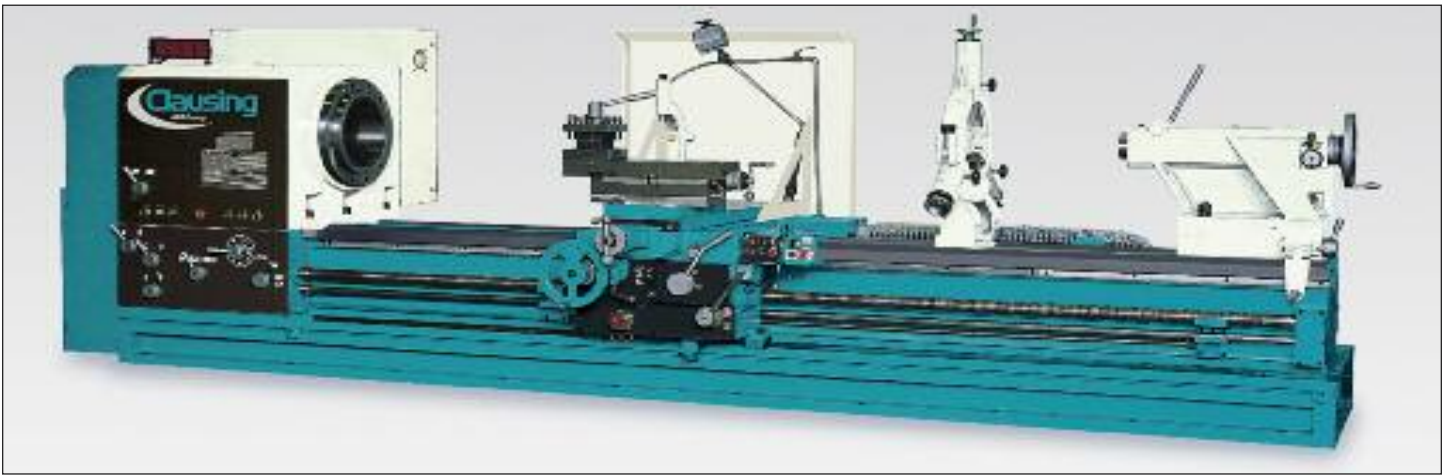
Standard Features...

- Digital Threading Control replaces traditional threading gearboxes with microprocessor-controlled, servo-driven leadscrew, in the past when a machinist was faced with a workpiece that called for thread pitch not supported on a conventional lathe, he had to locate and order a custom gear set and take the time to swap out the gears in the gearbox. This is not economically justifiable unless the volume is large enough.
- Designed to eliminates this time-consuming workaround. With the new digital threading system, the user's threading wishes can be easily and immediately realized. Type in the desired thread pitch on the numeric keypad on the touch screen LCD control panel and then start the threading cycle as on other conventional lathes.
- CT618DT's system controls and synchronizes main spindle rotation and Z-axis feed rate to produce a precise threading cycle for the given TPI or mm thread pitch. Besides being able to cut thread pitches not previously available on manual lathes, noise and vibration are significantly reduced because there are actually no more gears in the gearbox.
- CT618DT already has a custom IC and an LCD panel to enable threading control, the next logical step is to integrate DRO functions for an all-in-one versatile machine. This has been done. DRO capabilities are built-in and come standard at no extra charge. This features linear scales on the X and Z axes from Mitutoyo.
- is ideal for super high precision lathe work on small parts (usually those that fit in 5C collets).

With Integrated DRO Functions:

- Flat panel LCD display shows spindle RPM and tool feed rate to let operator easily select best turning conditions.
- LCD displays electric current value to easily check for turning overload.
- Rapid retract function shortens threading cycle.
- Guaranteed Circular Accuracy to 50 millionths of an inch.
- Infinitely variable spindle speed from 50-4000 RPM.
- Full bearing carriage with Turcite-B coated slideway bearing material between carriage and bed.
- Fast lever collet chucking with one single movement.
- The spindle is mounted on high precision preloaded angular contact ball bearing eliminating radial and end play.
- Solid hardened and ground alloy tool steel bed.
- Powerful 3 Hp motor with current vector inverter drive increases low end torque.

Clausing MA Series and MB Series Large Swing Lathes



MA Series

Machining Range...

Capacity

- Swing over bed: 34.6" (880mm) 39.7" (1000mm) 44.6" (1135mm) 50" (1275mm)
- Swing over cross slide: 24" (610mm) 29" (740mm) 34.3" (870mm) 39.7" (1010mm)
- Swing in gap: 53" (1340mm) 57.9" (1470mm) 63" (1600mm) 68.5" (1740mm)
- Gap width from headstock: 23.6" (600mm)
- Center height over bed: 17.3" (400mm) 19.85" (505mm) 22.3" (568mm) 25" (638mm)
- Center height from floor: 44.1" (1120mm) 46.7" (1185mm) 49.1" (1248mm) 51.8" (1315mm)
- Center distance: 63" (1600mm) to 476" (12100mm) (see dimension & center distance chart)
- Maximum weight between centers: 8,800 lbs. (4000kg)
- Maximum weight with steady rest: 11,000 lbs. (5000kg)
- Maximum unsupported weight in chuck: 5,500 lbs. (2500kg)
- Small closed steady rest (optional): 1.2" (30mm) to 15.7" (400mm)
- Large closed steady rest (optional): 13.8" (350mm) to 27.6" (700mm)
- Follower rest (optional): 1.5" (40mm) to 7" (178mm)

Bed

- Bed width: 22" (560mm) with standard auxiliary guides: 25.5" (650mm)
- Bed height from floor: 26.77" (680mm)
- 1.97" (50mm) leadscrew, leadscrew/feed rod support on 122" (3100mm) and longer models

Headstock

- Spindle bore on 34.6" (880mm) swing: 6" (153mm) standard, up to 14.17" (360mm) optional
- Spindle bore on 39.7" (1010mm), 44.6" (1135mm) and 50" (1275mm) swings: 6" (153mm) standard, up to 16.14" (410mm) optional
- Spindle nose: A2-11 to A2-28
- Spindle speed range: 18 step manual gear change on 6" (153mm) - 10.03" (255mm) spindle bore models, 4 range auto change variable speed with CSS on 12.5" (318mm) and larger spindle bore models (optional on 6" (153mm) - 10.03" (255mm) spindle bore models)
- Spindle speeds: 8-800 rpm 18 step manual gear box, 4-1000 rpm auto variable speed (see spindle and speed range chart)
- Spindle drive motor: 30 hp standard

Carriage

- Cross-slide travel: 26.4" (670mm) • Compound rest travel: 17.7" (450mm)
- 4 way, 8 position tool post with T-slots

Tailstock

- Quill diameter: 4.5" (115mm) • Quill travel: 7.87" (200mm)
- Quill taper: 6MT • Bearing surface on bed ways: 19.75" (500mm)
- Manual tailstock with saddle pin body movement

MB Series

Machining Range...

Capacity

- Swing over bed: 44.6" (1135mm) 50" (1275mm) 60" (1527mm) 70" (1790mm)
- Swing over cross slide: 31.9" (810mm) 37" (950mm) 47" (1200mm) 57" (1460mm)
- Swing in gap: 65" (1650mm) 70" (1780mm) 80" (2040mm) 90" (2300mm)
- Gap width from headstock: 23.6" (600mm)
- Center height over bed: 22.3" (568mm) 25" (638mm) 30" (764mm) 35" (895mm)
- Center height from floor: 49.1" (1246mm) 51.8" (1315mm) 56.8" (1442mm) 61.8" (2330mm)
- Center distance: 69" (1750mm) to 482" (12250mm) (see dimension & center distance chart)
- Maximum weight between centers: 11,000 lbs. (5000kg)
- Maximum weight with steady rest: 13,200 lbs. (6000kg)
- Maximum unsupported weight in chuck: 6,600 lbs. (3000kg)
- Small closed steady rest (optional): 1.2" (30mm) to 15.75" (400mm)
- Large closed steady rest (optional): 13.8" (350mm) to 27.6" (700mm)
- Follower rest (optional): 1.5" (40mm) to 7" (178mm)

Bed

- Bed width: 28" (712mm) with standard auxiliary guides: 32" (812mm)
- Bed height from floor: 26.77" (680mm)
- 1.97" (50mm) leadscrew, leadscrew/feed rod support on 128" (3250mm) and longer models

Headstock

- Spindle bore: 6" (153mm) standard, up to 24.02" (610mm) optional
- Spindle nose: A2-11 to A2-28
- Spindle speed range: 18 step manual gear change on 6" (153mm) and 9" (230mm) spindle bore models, 4 range auto change variable speed with CSS on 10.03" (255mm) and larger spindle bore models (optional on 6" (153mm) and 9" (230mm) spindle bore models)
- Spindle speeds: 8-800 rpm 18 step manual gear box, 4-1000 rpm auto variable speed (see spindle and speed range chart)
- Spindle drive motor: 40 hp standard

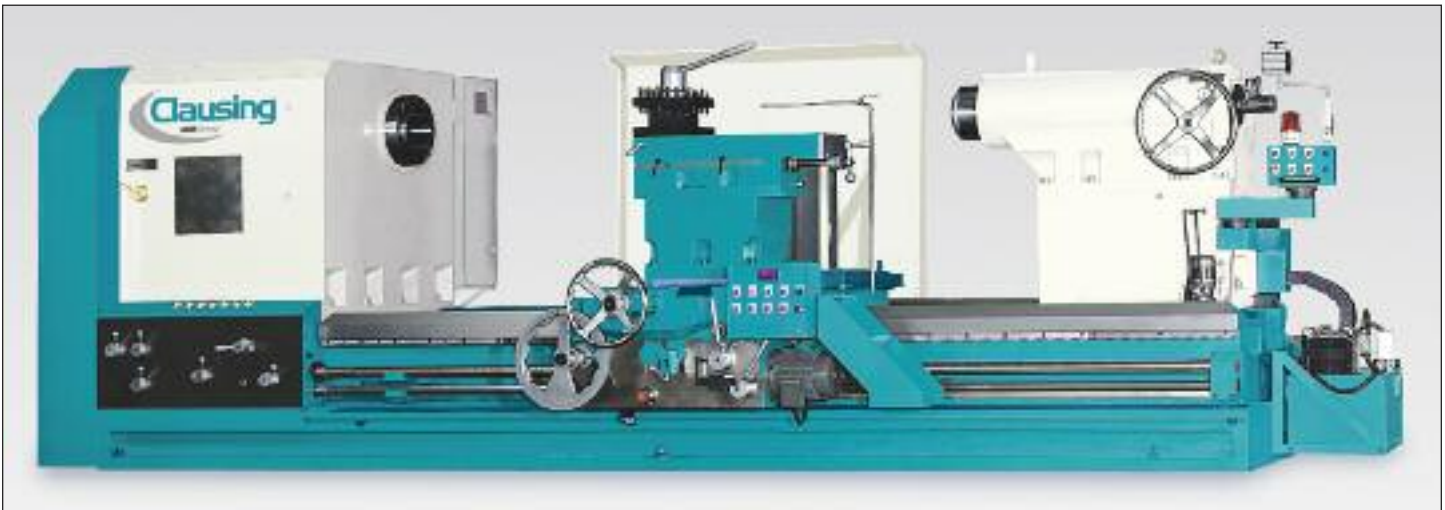
Carriage

- Cross-slide travel: 31.5" (800mm)
- Compound rest travel: 17.7" (450mm)
- 4 way, 8 position tool post with T-slots

Tailstock

- Quill diameter: 5.7" (145mm)
- Quill travel: 7.87" (200mm) • Quill taper: 6MT
- Bearing surface on bed ways: 23.5" (600mm)
- Manual tailstock with saddle pin body movement

Clausing MH Series and MK Series Large Swing Lathes



MH Series

Machining Range...

Capacity

- Swing over bed: 50" (1275mm) 60" (1527mm) 70" (1790mm) 80" (2040mm)
- Swing over cross slide: 35" (885mm) 44.7" (1137mm) 55" (1400mm) 65" (1650mm)
- Center height over bed: 25" (638mm) 30" (764mm) 35" (895mm) 40" (1020mm)
- Center height from floor: 54" (1372mm) 59" (1500mm) 64" (1625mm) 69" (1752mm)
- Center distance: 93" (2370mm) to 487" (12370mm)
(see dimension & center distance chart)
- Maximum weight between centers: 17,600 lbs. (8000kg)
- Maximum weight with steady rest: 22,200 lbs. (10000kg)
- Maximum unsupported weight in chuck: 9,900 lbs. (4500kg)
- Small closed steady rest (optional): 1.2" (30mm) to 15.75" (400mm)
- Small open steady rest (optional): 1.2" (30mm) to 15.75" (400mm)
- Large closed steady rest (optional): 13.8" (350mm) to 27.56" (700mm)
- Large open steady rest (optional): 13.8" (350mm) to 27.56" (700mm)

Bed

- Bed width: 40" (1020mm), with standard auxiliary guides: 45.7" (1160mm)
- Bed height from floor: 29" (740mm)
- 1.97" (50mm) leadscrew, leadscrew/feed rod support on 132" (3352mm) and longer models

Headstock

- Spindle bore: 6" (153mm) standard, up to 24.02" (610mm) optional
- Spindle nose: A2-11 to A2-28
- Spindle speed range: 4 auto change variable speed ranges with CSS
- 4-1000 rpm auto variable speed (see spindle and speed range chart)
- Spindle drive motor: 50 hp standard

Carriage

- Cross-slide travel: 43.3" (1100mm)
- Compound rest travel: 17.7" (450mm)
- 4 way, 8 position tool post with T-slots

Tailstock

- Quill diameter: 9.25" (235mm)
- Quill travel: 7.87" (200mm)
- Quill taper: 6MT
- Bearing surface on bed ways: 26" (660mm)
- Hydraulic tailstock with rotating quill and hydraulic body movement

MK Series

Machining Range...

Capacity

- Swing over bed: 70" (1790mm) 80" (2040mm) 90" (2290mm) 100" (2540mm)
- Swing over cross slide: 53" (1350mm) 63" (1590mm) 73" (1840mm) 82" (2090mm)
- Center height over bed: 35" (895mm) 40" (1020mm) 45" (1145mm) 50" (1270mm)
- Center height from floor: 49" (1245mm) 52" (1320mm) 58" (1475mm) 62" (1575mm)
- Center distance: 81" (2060mm) to 474" (12060mm)
(see dimension & center distance chart)
- Maximum weight between centers: 33,000 lbs. (15000kg)
- Maximum weight with steady rest: 37,400 lbs. (17000kg)
- Maximum unsupported weight in chuck: 19,800 lbs. (900kg)
- Small closed steady rest (optional): 1.2" (30mm) to 15.75" (400mm)
- Small open steady rest (optional): 1.2" (30mm) to 15.75" (400mm)
- Large closed steady rest (optional): 13.8" (350mm) to 27.56" (700mm)
- Large open steady rest (optional): 13.8" (350mm) to 27.56" (700mm)
- Extra large closed steady rest (optional): 26.6" (675mm) to 39.4" (1000mm)
- Extra large closed steady rest (optional): 26.6" (675mm) to 39.4" (1000mm)

Bed

- Bed width: 47.5" (1210mm), with standard auxiliary guides: 54" (1370mm)
- Bed height from floor: 30" (760mm)
- 2.36" (60mm) leadscrew, leadscrew/feed rod support on 120" (3048mm) and longer models

Headstock

- Spindle bore: 9" (230mm) standard, up to 24.02" (610mm) optional
- Spindle nose: A2-15 to A2-28
- Spindle speed range: 4 auto change variable speed ranges with CSS
- 4-700 rpm auto variable speed (see spindle and speed range chart)
- Spindle drive motor: 75 hp standard

Carriage

- Cross-slide travel: 51" (1300mm)
- Compound rest travel: 19.7" (500mm)
- 4 way, 12 position tool post with T-slots

Tailstock

- Quill diameter: 11" (280mm)
- Quill travel: 10" (250mm)
- Quill taper: 6MT
- Bearing surface on bed ways: 44" (1120mm)
- Hydraulic tailstock with rotating quill and hydraulic body movement

Clausing Manual Large Swing Lathes Standard Equipment

MA Series

- Chuck guard with limit switch
- 30 hp spindle drive motor
- Auto power off with 2 adjustable position stops
- Mechanical safety device • Lockable main switch
- Electrical cabinet ventilation fans • Electromagnetic spindle brake
- 6 way rapid traverse • 6 way power feed
- 4 way 8 position tool post with T-slots • 2 dead centers
- Steel leadscrew cover • Coolant system • Auto lube
- Thread dial • QIK Threading system and A.P.I. threads
- Manual tailstock with saddle pin body movement and anti slip lock
- Gears and bed ways hardened and ground
- Traveling splash guard • Built-in air power supply tube
- Halogen work light
- Leveling screws and pads
- Tools, tool box and operation manual

MB Series

- Chuck guard with limit switch
- 40 hp spindle drive motor
- Auto power off with 2 adjustable position stops
- Mechanical safety device • Lockable main switch
- Electrical cabinet ventilation fans • Electromagnetic spindle brake
- 6 way rapid traverse • 6 way power feed
- 4 way 8 position tool post with T-slots • 2 dead centers
- Steel leadscrew cover • Coolant system • Auto lube
- Thread dial • QIK Threading system and A.P.I. threads
- Manual tailstock with saddle pin body movement and anti slip lock
- Gears and bed ways hardened and ground
- Traveling splash guard • Built-in air power supply tube
- Halogen work light
- Leveling screws and pads
- Tools, tool box and operation manual

MH Series

- Chuck guard with limit switch
- 50 hp motor with inverter variable speed motor
- 4 range auto change variable speed with CSS
- Auto power off with 2 adjustable position stops
- Mechanical safety device • Lockable main switch
- Electrical cabinet ventilation fans • Electromagnetic spindle brake
- 6 way rapid traverse
- 6 way power feed
- 4 way 8 position tool post with T-slots • 2 dead centers
- Steel leadscrew cover • Coolant system • Auto lube
- Thread dial • QIK threading system and A.P.I. threads
- Hydraulic tailstock with with rotating quill, hydraulic movement and anti-slip lock
- Gears and bed ways hardened and ground
- Traveling splash guard
- Built-in air power supply tube
- Halogen work light
- Leveling screws and pads
- Tools, tool box and operation manual

MK Series

- Chuck guard with limit switch
- 75 hp motor with inverter variable speed motor
- 4 range auto change variable speed with CSS
- Auto power off with 2 adjustable position stops
- Mechanical safety device • Lockable main switch
- Electrical cabinet ventilation fans • Electromagnetic spindle brake
- 6 way rapid traverse
- 6 way power feed
- 4 way 12 position tool post with T-slots • 2 dead centers
- Steel leadscrew cover • Coolant system • Auto lube
- Thread dial • QIK Threading system and A.P.I. threads
- Hydraulic tailstock with rotating quill, hydraulic movement and anti-slip lock
- Gears and bed ways hardened and ground
- Traveling splash guard
- Built-in air power supply tube
- Halogen work light
- Leveling screws and pads
- Tools, tool box and operation manual

Feed and Thread Range Spindle Bore and Speed Range

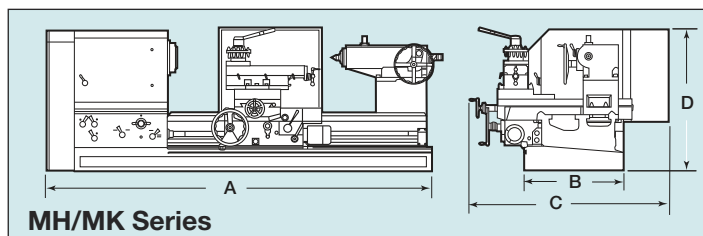
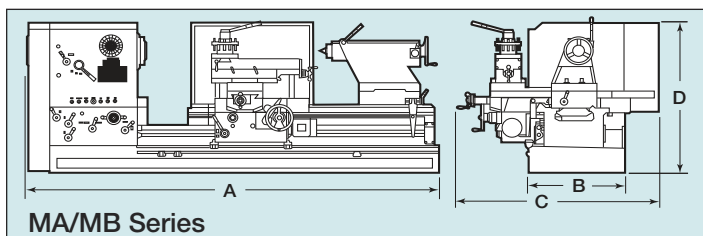
Longitudinal Feeds	0.0018-0.1in/rev (0.045-2.55mm/rev)
Cross Feeds	0.0009-0.05(in/rev) (0.023-1.28mm/rev)
Longitudinal Rapid Feeds	80in/min (2000mm/min)
Cross Rapid Feeds	40in/min (2000mm/min)
No. of Metric Threads Range (mm)	60 1-56
No. of Inch Threads Range (tpi)	60 1/2-28
No. of Module Threads Range (mod)	60 0.25-14
No. of Diametral Pitch Threads Range (mm)	60 2-112
Leadscrew Pitch (tpi)	2

Spindle Bore Size	6.02" (153mm)	9.05" (230mm)	10.03" (255mm)	12.18" (309mm)	14.17" (360mm)	16.14" (410mm)	21.06" (535mm)	24.02" (610mm)
Spindle Nose	A2-11	A2-15	A2-15	A2-20	A2-20	A2-28	A2-28	A2-32
Front Spindle Bearing	7.87" (200mm)	12" (305mm)	14" (355mm)	15" (381mm)	16.12" (409mm)	19.25" (489mm)	23.5" (596mm)	27.5" (698mm)
Speed Range #1 (rpm)	18-130	16-120	13-95	12-85	10-75	8-50	6-40	4-25
Speed Range #2 (rpm)	35-260	30-200	25-185	23-170	20-150	15-100	12-80	8-50
Speed Range #3 (rpm)	85-550	70-420	60-400	55-300	50-250	35-200	30-180	20-140
Speed Range #4 (rpm)	165-1000	150-700	120-600	110-400	95-350	65-300	50-250	40-220
18 Step Gear Box								
Spindle Speeds (rpm)	8-11-15-19-25-35-50-68-87-100-120-145-215-320-410-480-620-800							
*Optional 1000 (rpm)	10-15-19-25-31-43-65-85-105-130-150-180-270-400-500-590-780-1000							
*Optional 1200 (rpm)	12-17-23-30-38-52-78-105-130-155-180-215-325-480-610-700-930-1200							

*Optional 1000 and 1200 rpm 18 step gear box require refrigerated electrical cabinet.

Due to on going design improvements or customer requirements, design and specifications are subject to change without notice.

Clausing Manual Large Swing Lathes Center Dimensions and Weight



MA Series

Center Distance	63" (1600mm)	82" (2100mm)	122" (3100mm)	160" (4100mm)	200" (5100mm)	240" (6100mm)	279" (7100mm)	318" (8100mm)	358" (9100mm)	397" (10100mm)	437" (11100mm)	476" (12100mm)
Length A	145" (3690mm)	165" (4190mm)	204" (5190mm)	244" (6190mm)	283" (7180mm)	322" (8190mm)	362" (9190mm)	401" (10901mm)	440" (11190mm)	480" (12190mm)	519" (13190mm)	559" (14190mm)
Base Width B	34.6" (880mm)											
Overall Width C	71" (1800mm)											
Height D	35" (880mm) swing - 54" (1370mm)			40" (1010mm) swing - 56" (1422mm)			45" swing (1135mm) - 59" (1500mm)			50" swing (1275mm) - 62" (1575mm)		
Weight lbs.(kg)												
35" Swing	20,900 (9480)	22,000 (9980)	24,200 (10980)	26,400 (11975)	28,600 (12975)	30,800 (13970)	33,000 (14970)	35,200 (15970)	37,400 (16965)	39,600 (17965)	41,800 (18960)	44,000 (19960)
40" Swing	21,670 (9830)	22,770 (10330)	24,970 (11330)	27,170 (12325)	29,370 (13325)	31,570 (14320)	33,770 (15320)	35,970 (16315)	38,170 (17315)	40,370 (18305)	42,570 (19310)	44,770 (20310)
45" Swing	22,440 (10180)	23,540 (10675)	25,740 (11675)	27,940 (12675)	30,140 (13675)	32,340 (14670)	34,540 (15670)	36,740 (16665)	38,940 (17665)	41,140 (18665)	43,340 (19660)	45,540 (20660)
50" Swing	23,440 (10635)	24,310 (11027)	26,510 (12025)	28,710 (13025)	30,910 (14020)	33,110 (15020)	35,310 (16065)	37,510 (17015)	39,710 (18015)	41,910 (19010)	44,110 (20010)	46,310 (21010)

MB Series

Center Distance	69" (1750mm)	88" (2550mm)	128" (3250mm)	167" (4250mm)	206" (5250mm)	246" (6250mm)	285" (7250mm)	324" (8250mm)	364" (9250mm)	403" (10250mm)	443" (11250mm)	482" (12250mm)
Length A	158" (4010mm)	178" (4510mm)	217" (5510mm)	256" (6510mm)	296" (7510mm)	335" (8510mm)	374" (9510mm)	414" (10510mm)	453" (11510mm)	493" (12510mm)	532" (13510mm)	571" (14510mm)
Base Width B	37.4" (950mm)											
Overall Width C	78" (1990mm)											
Height D	45" (1135mm) swing - 62" (1550mm)			50" (1275mm) swing - 64" (1625mm)			60" (1527mm) swing - 69" (1757mm)			70" (1790mm) swing - 74" (1880mm)		
Weight lbs.(kg)												
45" Swing	27,280 (12375)	29,040 (13175)	32,560 (14770)	36,080 (16365)	39,600 (17965)	43,120 (19560)	46,640 (21155)	50,160 (22750)	53,680 (24350)	57,200 (25945)	60,720 (27545)	64,240 (29140)
50" Swing	28,160 (12775)	29,920 (13575)	33,440 (15170)	36,960 (16765)	40,480 (18365)	44,000 (19960)	47,520 (21555)	51,040 (23150)	54,560 (24750)	58,080 (26345)	61,600 (27945)	65,120 (29540)
60" Swing	30,100 (13655)	31,680 (14370)	35,200 (15970)	38,720 (17365)	42,240 (19160)	45,760 (20760)	49,280 (22355)	52,800 (23950)	56,320 (25560)	59,840 (27145)	63,360 (28740)	66,880 (30340)
70" Swing	31,680 (14370)	33,440 (15170)	36,960 (16765)	40,480 (18365)	44,000 (19960)	47,520 (21555)	51,040 (23150)	54,560 (24750)	58,080 (26345)	61,600 (27945)	65,120 (29540)	68,640 (31135)

MH Series

Center Distance	93" (2370mm)	132" (3370mm)	172" (4370mm)	210" (5370mm)	250" (6370mm)	290" (7370mm)	329" (8370mm)	368" (9370mm)	408" (10370mm)	447" (11370mm)	487" (12370mm)
Length A	215" (5450mm)	254" (6450mm)	293" (7450mm)	333" (8450mm)	372" (9450mm)	411" (10450mm)	451" (11450mm)	490" (12450mm)	529" (13450mm)	569" (14450mm)	608" (15450mm)
Base Width B	49.6" (1290mm)										
Overall Width C	105" (2660mm)										
Height D	50" swing (1275mm) - 72" (1830mm)		60" (1527mm) swing - 77" (1955mm)			70" (1790mm) swing - 83" (2110mm)		80" (2040mm) swing - 88" (2235mm)			
Weight lbs.(kg)											
50" Swing	36,740 (16665)	42,240 (19160)	47,740 (21655)	53,240 (24150)	58,740 (26645)	64,240 (29140)	69,740 (31635)	75,240 (34130)	80,740 (36625)	86,240 (39120)	91,740 (41620)
60" Swing	38,940 (17665)	44,440 (20160)	49,940 (22655)	55,440 (25150)	60,940 (27645)	66,440 (30137)	71,940 (32635)	77,440 (35130)	82,940 (37625)	88,440 (40120)	93,940 (42615)
70" Swing	41,140 (18665)	46,640 (21155)	52,140 (23650)	57,640 (26145)	63,140 (28640)	68,640 (31135)	74,140 (33630)	79,640 (36125)	85,140 (38620)	90,640 (41115)	96,140 (43610)
80" Swing	43,340 (19660)	48,840 (22155)	54,340 (24650)	59,840 (27145)	65,340 (29640)	70,840 (32135)	76,340 (34630)	81,840 (37125)	87,340 (39620)	92,840 (42115)	98,340 (44610)

MK Series

Center Distance	81" (2060mm)	120" (3060mm)	160" (4060mm)	199" (5060mm)	238" (6060mm)	278" (7060mm)	317" (8060mm)	356" (9060mm)	396" (10060mm)	435" (12060mm)	474" (13060mm)
Length A	215" (5450mm)	254" (6450mm)	293" (7450mm)	333" (8450mm)	372" (9450mm)	411" (10450mm)	451" (11450mm)	490" (12450mm)	529" (13450mm)	569" (14450mm)	608" (15450mm)
Base Width B	57.9" (1470mm)										
Overall Width C	101" (2815mm)										
Height D	70" (1790mm) swing - 78" (1980mm)		80" (2040mm) swing - 83" (2110mm)			90" swing (2290mm) - 88" (2235mm)		100" (2540mm) swing - 94" (2390mm)			
Weight lbs.(kg)											
70" Swing	49,940 (22655)	58,740 (26645)	67,540 (30640)	76,340 (34630)	85,140 (38620)	93,940 (42615)	102,740 (46605)	111,540 (50595)	120,340 (54590)	129,140 (58575)	137,940 (62210)
80" Swing	53,240 (24150)	62,040 (28145)	70,840 (32135)	79,640 (36125)	88,440 (40120)	97,240 (44110)	106,040 (48100)	114,840 (52095)	123,640 (56085)	132,440 (60075)	141,240 (64070)
90" Swing	56,540 (25650)	65,340 (29640)	74,140 (33630)	82,940 (37625)	91,740 (41615)	100,540 (45605)	109,340 (49595)	118,140 (53590)	126,940 (57580)	135,740 (61575)	144,540 (65565)
100" Swing	59,840 (27145)	68,640 (31135)	77,440 (35130)	86,240 (39120)	95,040 (43110)	103,840 (47105)	112,670 (51185)	121,440 (55190)	130,240 (59080)	139,040 (63070)	147,840 (67060)

Due to on going design improvements or customer requirements, design and specifications are subject to change without notice.

Clausing CL Series and CB Series CNC Large Swing Lathes



CL Series

Machining Range...

Capacity

- Swing over bed: 35" (880mm) 40" (1010mm) 45" (1135mm) 50" (1275mm)
- Swing over cross slide: 20" (510mm) 25" (640mm) 30" (765mm) 35" (880mm)
- Center height over bed: 17.5" (440mm) 20" (505mm) 22.5" (568mm) 25" (638mm)
- Center height from floor: 44" (1125mm) 47" (1190mm) 49" (1250mm) 52" (1315mm)
- Center distance: 62" (1575mm) to 476" (12100mm)
- Max. weight between centers: 11,000 lbs. (5000kg)
- Max. weight between centers with steady rest: 13,200 lbs. (6000kg)
- Max. unsupported weight in chuck: 5,500 lbs. (5500kg)
- Small closed steady rest capacity (optional): 1.18" (30mm) to 15.75" (400mm)
- Large closed steady rest capacity (optional): 13.8" (350mm) to 27.56" (700mm)

Bed

- Bed width: 22" (360mm) with 2 bed ways
- Bed height from floor: 26.8" (680mm)

Headstock

- Spindle bore 35" (880mm) swing:
6" (30mm) standard, up to 14.17" (380mm) optional
- Spindle bore 40" (1010mm), 45" (1135mm) & 50" (1275mm) swings:
6" (30mm) standard up to 16.14" (410mm) optional
- Spindle nose: A2-11 to A2-28
- Spindle speed ranges: 4 auto change variable speed
- Spindle speeds: 8-1000 rpm (see spindle and speed range chart)
- Spindle drive motor: 40/50 hp (30/37kW) standard, 50/60 Hp (37.5/45kW) optional

Turret

- Turret: 4-way HP350 auto H4
- Number of tool stations: 4 automatic
- Tool shank cross section: 1.25" (32x32mm)
- Tool shank diameter: 2.5" (60mm)

Travel

- Cutting feed rate: X axis 0.00004-9.84 in/rev (0.001-250 mm/rev),
Z axis 0.00004-15.75 in/rev (0.001-400 mm/rev)
- Rapid travel: X axis 236.16" in/min (6 m/min), Z axis 314.88" in/min (8 m/min)
- Ballscrew diameter: X axis 1.57" (40mm), Z axis 2.48" (63mm)

Tailstock

- Quill: built-in type, rotating tailstock quill with 6MT taper
- Quill diameter: 9.25" (235mm)
- Quill travel: 7.87" (200mm)

CB Series

Machining Range...

Capacity

- Swing over bed: 45" (1135mm) 50" (1275mm) 60" (1527mm) 70" (1790mm)
- Swing over cross slide: 28" (710mm) 33" (850mm) 43" (1102mm) 53" (1135mm)
- Center height over bed: 22.3" (568mm) 25" (638mm) 30" (764mm) 35" (895mm)
- Center height from floor: 49.1" (1248mm) 51.8" (1315mm) 56.8" (1440mm) 61.1" (1550mm)
- Center distance: 70" (1780mm) to 488" (12400mm)
- Max. weight between centers: 14,300 lbs. (6500kg)
- Max. weight between centers with steady rest: 16,500 lbs. (7500kg)
- Max. unsupported weight in chuck: 6,600 lbs. (3000kg)
- Small closed steady rest capacity (optional): 1.18" (30mm) to 15.75" (400mm)
- Large closed steady rest capacity (optional): 13.8" (350mm) to 27.56" (700mm)

Bed

- Bed width: 28" (712mm) with 2 bed ways
- Bed height from floor: 26.8" (680mm)

Headstock

- Spindle bore: 6" (30mm) standard, up to 24.02" (610mm) optional
- Spindle nose: A2-11 to A2-35
- Spindle speed ranges: 4 auto change variable speed
- Spindle speeds: 4-1000 rpm (see spindle bore and speed range chart)
- Spindle drive motor: 50/60 hp (37.5/40kW)

Turret

- Turret: 4-way HP350 auto H4
- Number of tool stations: 4 automatic
- Tool shank cross section: 1.25" (32x32mm)
- Tool shank diameter: 2.5" (60mm)

Travel

- Cutting feed rate: X axis 0.00004-9.84 in/rev (0.001-250 mm/rev),
Z axis 0.00004-15.75 in/rev (0.001-400 mm/rev)
- Rapid travel: X axis 236.16" in/min (6 m/min), Z axis 314.88" in/min (8 m/min)
- Ball screw diameter: X axis 1.77" (45mm), Z axis 3.15" (80mm)

Tailstock

- Quill: built-in type, rotating tailstock quill with 6MT taper
- Quill diameter: 9.25" (235mm)
- Quill travel: 7.87" (200mm)

Clausing CC Series and CK Series Large Swing Lathes



CC Series

Machining Range...

Capacity

- Swing over bed: 35" (880mm) 40" (1010mm) 45" (1135mm) 50" (1275mm)
- Swing over cross slide: 26" (660mm) 27" (686mm) 32" (810mm) 37" (940mm)
- Center height over bed 17.5" (440mm) 20" (510mm) 22.5" (575mm) 25" (638mm)
- Center height from floor 46" (1180mm) 49" (1250mm) 52" (1315mm) 54" (1378mm)
- Center distance: 94" (2400mm) to 488" (12400mm)
- Max. weight between centers: 22,000 lbs. (10000kg)
- Max. weight between centers with steady rest: 26,400 lbs. (12000kg)
- Max. unsupported weight in chuck: 9,900 lbs. (4500kg)
- Small closed steady rest capacity (optional): 1.18" (30mm) to 15.75" (400mm)
- Small open steady rest capacity (optional): 1.18" (30mm) to 15.75" (400mm)
- Large closed steady rest capacity (optional): 13.8" (350mm) to 27.56" (700mm)
- Large open steady rest capacity (optional): 13.8" (350mm) to 27.56" (700mm)

Bed

- Bed width: 40" (1020mm) with 4 bed ways
- Bed height from floor: 29" (740mm)

Headstock

- Spindle bore 35" (880mm) swing: 6" (153mm) standard, up to 14.17" (360mm) optional
- Spindle bore 40" (1010mm) swing: 6" (153mm) standard up to 21.06" (535mm) optional
- Spindle bore 45" (1135mm) and 50" (1275mm) swings: 6" (153mm) standard up to 24.02" (610mm) optional
- Spindle nose: A2-11 to A2-32
- Spindle speed ranges: 4 auto change variable speed
- Spindle speeds: 4-1000 rpm • Spindle drive motor: 50/60 hp (37.5/45kw)

Turret

- Turret: 4-way HP450 auto H4 • Number of tool stations: 4 automatic
- Tool shank cross section: 1.25" (32 x 32mm)
- Tool shank diameter: 2.5" (60mm)

Travel

- Cutting feed rate: X axis 0.00004-9.84 in/rev (0.001-250 mm/rev), Z axis 0.00004-15.75 in/rev (0.001-400 mm/rev)
- Rapid travel: X axis 236.16" in/min (6 m/min), Z axis 314.88" in/min (8 m/min)
- Ball screw diameter: X axis 1.97" (50mm), Z axis 3.15" (80mm)

Tailstock

- Quill: built-in type, rotating tailstock quill with 6MT taper
- Quill diameter: 9.25" (235mm) • Quill travel: 7.87" (200mm)

CK Series

Machining Range...

Capacity

- Swing over bed: 50" (1275mm) 60" (1530mm) 70" (1800mm) 80" (2040mm)
- Swing over cross slide: 29" (745mm) 39" (1000mm) 50" (1270mm) 60" (1515mm)
- Center height over bed 25" (638mm) 30" (765mm) 35" (900mm) 40" (1020mm)
- Center height from floor 55" (1398mm) 60" (1525mm) 65" (1660mm) 70" (1780mm)
- Center distance: 82" (2100mm) to 476" (12100mm)
- Max. weight between centers: 33,000 lbs. (15000 kg)
- Max. weight between centers with steady rest: 37,400 lbs. (17000kg)
- Max. unsupported weight in chuck: 19,800 lbs. (9000kg)
- Small closed steady rest capacity (optional): 1.18" (30mm) to 15.75" (400mm)
- Small open steady rest capacity (optional): 1.18" (30mm) to 15.75" (400mm)
- Large closed steady rest capacity (optional) : 13.8" (350mm) to 27.56" (700mm)
- Large open steady rest capacity (optional): 13.8" (350mm) to 27.56" (700mm)

Bed

- Bed width: 47.5" (1210mm) with 4 bed ways
- Bed height from floor: 30" (760mm)

Headstock

- Spindle bore: 9.05" (230mm) standard, up to 24.02" (610mm) optional
- Spindle nose: A2-15 to A2-32
- Spindle speed ranges: 4 auto change variable speed
- Spindle speeds: 4-1000 rpm (see spindle bore and speed range chart)
- Spindle drive motor: 80/100 hp (60/70kw)

Turret

- Turret: 4-way HP450 auto H4
- Number of tool stations: 4 automatic
- Tool shank cross section: 1.25" (32 x 32mm)
- Tool shank diameter: 2.5" (60mm)

Travel

- Cutting feed rate: X axis 0.00004-9.84 in/rev (0.001-250 mm/rev), Z axis 0.00004-15.75 in/rev (0.001-400 mm/rev)
- Rapid travel: X axis 236.16" in/min (6 m/min), Z axis 314.88" in/min (8 m/min)
- Ball screw diameter: X axis 2.36" (60mm), Z axis 3.93" (100mm)

Tailstock

- Quill: built-in type, rotating tailstock quill with 6MT taper
- Quill diameter: 11" (280mm)
- Quill travel: 10" (250mm)

Clausing CNC Large Swing Lathes Standard Equipment

CL Series

- Fanuc 18 T Control or Fanuc 21i T Teach-in Control with 10.4" (264mm) screen
- 40/50 hp (30/37kW) Fanuc AC spindle drive motor
- Electrical cabinet refrigerator • Spindle oil cooling refrigerator
- 4 speed range, auto change, variable speed spindle drive
- HP350 auto H4, 4 way tool turret
- Front and rear belt type chip conveyor with cart
- Programmable hydraulic tailstock with rotating quill and hydraulic body movement
- Steel ballscrew cover up to 160" (4100mm) and telescopic ballscrew cover on 200" (5100mm) and longer
- 5 hp X and Z axis servo motor
- Full guarding with interlock, 2 doors on 62" (1575mm) to 160" (4100mm) centers, 3 doors on 200" (5100mm) centers and longer
- Halogen work light • Coolant system
- 3 hp (2.2kW) hydraulic pump motor
- Auto lube • 2 centers
- Hardened and ground bed ways • Hardened and ground gears
- Leveling screws and pads • Tools, tool box and operation manual

CB Series

- Fanuc 18 T Control or Fanuc 21i T Teach-in Control with 10.4" (264mm) screen
- 50/60 hp (37/45 kW) Fanuc AC spindle drive motor
- Electrical cabinet refrigerator • Spindle oil cooling refrigerator
- 4 speed range, auto change, variable speed spindle drive
- HP350 auto H4, 4 way tool turret
- Front and rear belt type chip conveyor with cart
- Programmable hydraulic tailstock with rotating quill and hydraulic body movement
- Steel ballscrew cover up to 160" (4100mm) and telescopic ballscrew cover on 200" (5100mm) and longer
- 6 hp (4.5 kW) X and Z axis servo motor
- Full guarding with interlock, 2 doors on 70" (1780mm) to 173" (4400mm) centers, 3 doors on 212" (5400mm) centers and longer
- Halogen work light • Coolant system
- 3 hp (2.2 kW) hydraulic pump motor
- Auto lube • 2 centers
- Hardened and ground bed ways • Hardened and ground gears
- Leveling screws and pads • Tools, tool box and operation manual

CC Series

- Fanuc 18 T Control or Fanuc 21i T Teach-in Control with 10.4" (264mm) screen
- 50/60 hp (37/45kW) Fanuc AC spindle drive motor
- Electrical cabinet refrigerator • Spindle oil cooling refrigerator
- 4 speed range, auto change, variable speed spindle drive
- HP450 auto H4, 4 way tool turret
- Front and rear belt type chip conveyor with cart
- Programmable hydraulic tailstock with rotating quill and hydraulic body movement
- Steel ballscrew cover up to 133" (3400mm) and telescopic ballscrew cover on 173" (4400mm) and longer
- 6 Hp (4.5 kW) X and Z axis servo motor
- Full guarding with interlock, 2 doors on 94" (2400mm) to 173" (4400mm) centers, 3 doors on 212" (5400mm) centers and longer
- Halogen work light • Coolant system
- 3 hp (2.2kW) hydraulic pump motor
- Auto lube • 2 centers
- 4 hardened and ground bed ways • Hardened and ground gears
- Leveling screws and pads
- Tools, tool box and operation manual

CK Series

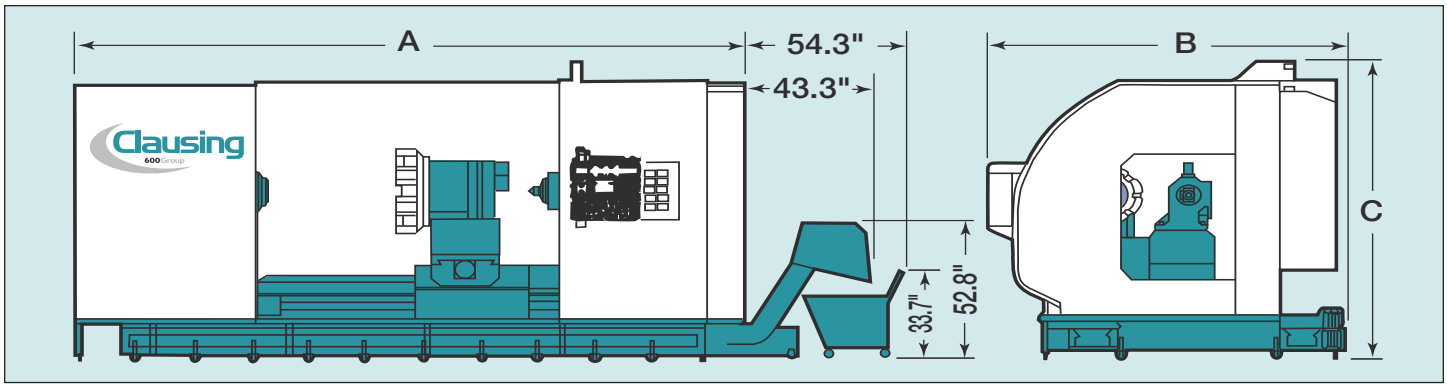
- Fanuc 18 T Control or Fanuc 21i T Teach-in Control with 10.4" (264mm) screen
- 80/100 hp (60/75 kW) Fanuc AC spindle drive motor
- Electrical cabinet refrigerator • Spindle oil cooling refrigerator
- 4 speed range, auto change, variable speed spindle drive
- HP450 auto H4, 4 way tool turret
- Front and rear belt type chip conveyor with cart
- Programmable hydraulic tailstock with rotating quill and hydraulic body movement
- Steel ballscrew cover up to 82" (2100mm) and telescopic ballscrew cover on 122" (3100mm) and longer
- 8 hp (6 kW) X axis servo motor
- 11 hp (7.7 kW) Z axis servo motor
- Full guarding with interlock, 2 doors on 82" (2100mm) to 160" (4100mm) centers, 3 doors on 200" (5100mm) centers and longer
- Halogen work light • Coolant system
- 5 hp (3.5 kW) hydraulic pump motor
- Auto lube • 2 centers
- 4 hardened and ground bed ways • Hardened and ground gears
- Leveling screws and pads
- Tools, tool box and operation manual

Spindle Bore & Speed Range

Spindle Bore Size	6.02" (153mm)	9.05" (230mm)	10.03" (255mm)	12.5" (318mm)	14.17" (360mm)	16.14" (410mm)	21.06" (535mm)	24.02" (610mm)
Spindle Nose	A2-11	A2-15	A2-15	A2-20	A2-20	A2-28	A2-28	A2-32
Front Spindle Bearing	7.9" (200mm)	12" (305mm)	14" (355mm)	15" (381mm)	16.1" (409mm)	19.2" (488mm)	23.5" (596mm)	27.5" (698mm)
Speed Range #1 (rpm)	18-130	16-120	13-95	12-85	10-75	8-50	6-40	4-25
Speed Range #2 (rpm)	35-260	30-200	25-185	23-170	20-150	15-100	12-80	8-50
Speed Range #3 (rpm)	85-550	70-420	60-400	55-300	50-250	35-200	30-180	20-140
Speed Range #4 (rpm)	165-1000	150-700	120-600	110-400	95-350	65-300	50-250	40-220

Due to on going design improvements or customer requirements, design and specifications are subject to change without notice.

Clausing CNC Large Swing Lathes Center Dimensions and Weight



CL Series

Center Distance	62" (1575mm)	82" (2100mm)	122" (3100mm)	160" (4100mm)	200" (5100mm)	240" (6100mm)	279" (7100mm)	318" (8100mm)	358" (9100mm)	397" (10100mm)	437" (11100mm)	476" (12100mm)
Length A	187" (4750mm)	207" (5260mm)	246" (6250mm)	286" (7115mm)	325" (8255mm)	365" (9270mm)	404" (10260mm)	443" (11250mm)	483" (12270mm)	522" (13260mm)	562" (14275mm)	601" (15265mm)
Overall Width B	106" (2690mm)	106" (2690mm)	106" (2690mm)	106" (2690mm)	106" (2690mm)	106" (2690mm)	106" (2690mm)	106" (2690mm)	106" (2690mm)	106" (2690mm)	106" (2690mm)	106" (2690mm)
Height C	99" (2500mm)	99" (2500mm)	99" (2500mm)	99" (2500mm)	99" (2500mm)	99" (2500mm)	99" (2500mm)	99" (2500mm)	99" (2500mm)	99" (2500mm)	99" (2500mm)	99" (2500mm)
Weight in lbs. (kg)												
35" Swing	27,500 (12474kg)	28,600 (12973kg)	30,800 (13970kg)	33,000 (14968kg)	35,200 (15966kg)	37,400 (16965kg)	39,600 (17962kg)	41,800 (18960kg)	44,000 (19958kg)	46,200 (20956kg)	48,400 (21954kg)	50,600 (22952kg)
40" Swing	28,270 (12823kg)	29,370 (13322kg)	31,570 (14320kg)	33,770 (15318kg)	35,970 (16225kg)	38,170 (17313kg)	40,370 (18311kg)	42,570 (19309kg)	44,770 (20307kg)	46,970 (21305kg)	49,170 (22303kg)	51,370 (23301kg)
45" Swing	29,040 (13172kg)	30,140 (13671kg)	32,340 (14669kg)	34,540 (15667kg)	36,740 (16665kg)	38,940 (17663kg)	41,140 (18661kg)	43,340 (19659kg)	45,540 (20656kg)	47,740 (21654kg)	49,940 (22652kg)	52,140 (23650kg)
50" Swing	29,810 (13522kg)	30,910 (14020kg)	33,110 (15018kg)	35,310 (16016kg)	37,510 (16923kg)	39,710 (18021kg)	41,910 (19101kg)	44,110 (20008kg)	46,310 (21006kg)	48,510 (22004kg)	50,710 (23002kg)	52,910 (24000kg)

CB Series

Center Distance	70" (1780mm)	94" (2400mm)	133" (3400mm)	173" (4400mm)	212" (5400mm)	252" (6400mm)	291" (7400mm)	330" (8400mm)	370" (9400mm)	409" (10400mm)	448" (11400mm)	488" (12400mm)
Length A	195" (4955mm)	219" (5565mm)	258" (6555mm)	298" (7570mm)	337" (8560mm)	376" (9550mm)	416" (10565mm)	455" (11555mm)	495" (12575mm)	534" (13565mm)	573" (14555mm)	612" (15545mm)
Overall Width B	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)
Height C	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)
Weight in lbs. (kg)												
45" Swing	33,880 (15368kg)	35,640 (16166kg)	39,160 (17765kg)	42,680 (19360kg)	46,200 (20956kg)	49,720 (22553kg)	53,240 (24150kg)	56,760 (25746kg)	60,280 (27342kg)	63,800 (28940kg)	67,320 (30536kg)	70,840 (32133kg)
50" Swing	34,760 (15767kg)	36,520 (16565kg)	40,040 (18162kg)	43,560 (19759kg)	47,080 (21355kg)	50,600 (22952kg)	54,120 (24549kg)	57,640 (26145kg)	61,160 (27742kg)	64,680 (29338kg)	68,200 (30935kg)	71,720 (32532kg)
60" Swing	36,520 (16565kg)	38,280 (17363kg)	41,800 (18960kg)	45,320 (20557kg)	48,840 (22154kg)	52,360 (23750kg)	55,880 (25346kg)	59,400 (26942kg)	62,920 (28538kg)	66,440 (30137kg)	69,960 (31734kg)	73,480 (33330kg)
70" Swing	38,280 (17363kg)	40,040 (18162kg)	43,360 (19668kg)	47,080 (21355kg)	50,600 (22952kg)	54,120 (24548kg)	57,640 (26145kg)	61,160 (27742kg)	64,680 (29339kg)	68,200 (30935kg)	71,720 (32532kg)	75,240 (34129kg)

CC Series

Center Distance	94" (2400mm)	133" (3400mm)	173" (4400mm)	212" (5400mm)	252" (6400mm)	291" (7400mm)	330" (8400mm)	370" (9400mm)	409" (10400mm)	448" (11400mm)	488" (12400mm)
Length A	215" (5460mm)	255" (6475mm)	294" (7465mm)	334" (8485mm)	372" (9450mm)	412" (10465mm)	452" (11480mm)	491" (12470mm)	530" (13460mm)	570" (14480mm)	609" (15470mm)
Overall Width B	108" (2750mm)	108" (2750mm)	108" (2750mm)	108" (2750mm)	108" (2750mm)	108" (2750mm)	108" (2750mm)	108" (2750mm)	108" (2750mm)	108" (2750mm)	108" (2750mm)
Height C	102" (2600mm)	102" (2600mm)	102" (2600mm)	102" (2600mm)	102" (2600mm)	102" (2600mm)	102" (2600mm)	102" (2600mm)	102" (2600mm)	102" (2600mm)	102" (2600mm)
Weight in lbs. (kg)											
35" Swing	45,540 (20657kg)	51,040 (23151kg)	56,540 (25646kg)	62,040 (28141kg)	67,540 (30636kg)	73,040 (33131kg)	78,540 (35626kg)	84,040 (38120kg)	89,540 (40615kg)	95,040 (43110kg)	100,540 (45605kg)
40" Swing	47,740 (21655kg)	53,240 (24150kg)	58,740 (26644kg)	64,240 (29139kg)	69,740 (31634kg)	75,240 (34129kg)	80,740 (36624kg)	86,240 (39118kg)	91,740 (41613kg)	97,240 (44108kg)	102,740 (46603kg)
45" Swing	49,940 (22652kg)	55,440 (25147kg)	60,940 (27642kg)	66,440 (30137kg)	71,940 (32631kg)	77,440 (35126kg)	82,940 (37622kg)	88,440 (40116kg)	93,940 (42611kg)	99,440 (45105kg)	104,940 (47601kg)
50" Swing	52,140 (23651kg)	57,640 (26145kg)	63,140 (28640kg)	68,640 (31135kg)	74,140 (33629kg)	79,640 (36125kg)	85,140 (38619kg)	90,640 (41114kg)	96,140 (43609kg)	101,640 (46104kg)	107,140 (48599kg)

CK Series

Center Distance	82" (2100mm)	122" (3100mm)	160" (4100mm)	200" (5100mm)	240" (6100mm)	279" (7100mm)	318" (8100mm)	358" (9100mm)	397" (10100mm)	437" (11100mm)	476" (12100mm)
Length A	231" (5870mm)	270" (6860mm)	309" (7770mm)	349" (8865mm)	388" (9855mm)	428" (10870mm)	467" (11860mm)	506" (12850mm)	546" (13870mm)	585" (14860mm)	625" (15875mm)
Overall Width B	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)	121" (3070mm)
Height C	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)	120" (3030mm)
Weight in lbs. (kg)											
50" Swing	58,740 (26644kg)	67,540 (30636kg)	76,340 (34627kg)	85,140 (38619kg)	93,940 (42611kg)	102,740 (46603kg)	111,540 (50594kg)	120,340 (54586kg)	129,140 (58580kg)	137,940 (62570kg)	146,740 (66561kg)
60" Swing	62,040 (28141kg)	70,840 (32133kg)	79,640 (36124kg)	88,440 (40116kg)	97,240 (44108kg)	106,040 (48100kg)	114,840 (52091kg)	123,640 (56083kg)	132,440 (60074kg)	141,240 (64066kg)	150,040 (68058kg)
70" Swing	65,340 (29638kg)	74,140 (33630kg)	82,940 (37622kg)	91,740 (41613kg)	100,540 (45605kg)	109,340 (49597kg)	118,140 (53588kg)	126,940 (57580kg)	135,740 (61572kg)	144,540 (65563kg)	153,340 (69555kg)
80" Swing	68,640 (31135kg)	77,440 (35127kg)	86,240 (39118kg)	95,040 (43110kg)	103,840 (47109kg)	112,640 (51094kg)	121,440 (55085kg)	130,240 (59077kg)	139,040 (63068kg)	147,840 (67060kg)	156,640 (71052kg)

Due to on going design improvements or customer requirements, design and specifications are subject to change without notice.

TURNING

Manual Lathe Optional Equipment

- 'CE' Telemechanique Electrics
- 40 hp Spindle Drive Motor (MA Series)
- 50 hp Spindle Drive Motor (MB Series)
- 75 hp Spindle Drive Motor (MH Series)
- 100 hp Spindle Drive Motor (MK Series)
- Spindle Bore up to 14.17" (360mm) on 34.6" (880mm) swing and 16.14" (410mm) on 39.7" (1010mm) Swing and Larger (MA Series)
- Spindle Bore up to 24.02" (610mm) (MB, MH & MK Series)
- 4 Range Auto Change Variable Speed with CSS for 6" (153mm) / 9" (230mm) & 10" (255mm) Bore Models (MA & MB Series)
- Dual Chuck Adapter
- Closed Steady Rest 1.2" (30mm) to 15.75" (400mm)
- Closed Steady Rest 13.8" (350mm) to 27.56" (700mm)
- Open Steady Rest 1.2" (30mm) to 15.75" (400mm) (MH & MK Series)
- Open Steady Rest 13.8" (350mm) to 27.56" (700mm) (MH & MK Series)
- Follower Rest 1.5" (40mm) to 7" (178mm) (MA & MB Series)
- Full Length Rear Splash Guard
- Full Guarding
- Belt Chip Conveyor with Cart
- 30" (762mm) 4-Jaw American Type, Ground, Thick Body Chuck (MA & MB Series)
- 36" (915mm) 4-Jaw American Type, Ground, Thick Body Chuck (MA & MB Series)
- 40" (1016mm) 4-Jaw English Type Chuck
- 45" (1143mm) 4-Jaw English Type Chuck
- 50" (1270mm) 4-Jaw English Type Chuck
- 40" (1016mm) 4-Jaw Ground, Thick Steel Body Chuck (MH & MK Series)
- 46" (1168mm) 4-Jaw Ground, Thick Steel Body Chuck (MH & MK Series)
- 50" (1270mm) 4-Jaw Ground, Thick Steel Body Chuck (MH & MK Series)
- 60" (1524mm) 4-Jaw Ground, Thick Steel Body Chuck (MH & MK Series)
- 70" (1778mm) 4-Jaw Ground, Thick Steel Body Chuck (MH & MK Series)
- 80" (2032mm) 4-Jaw Ground, Thick Steel Body Chuck (MH & MK Series)
- 50" (1270mm) 4-Jaw English Type Chuck (MH & MK Series)
- 55" (1397mm) 4-Jaw English Type Chuck (MK Series)
- 60" (1524mm) 4-Jaw English Type Chuck (MK Series)
- 70" (1778mm) 4-Jaw English Type Chuck (MK Series)
- 80" (2032mm) 4-Jaw English Type Chuck (MK Series)
- 90" (2286mm) 4-Jaw English Type Chuck (MK Series)
- 100" (2540mm) 4-Jaw English Type Chuck (MK Series)
- Special Long Jaws
- Taper Attachment
- Full Length Hydraulic Profile Cutting System Including Semi-Auto Threading
- Full Length Tracer
- Semi-Auto Threading
- Micro Stop

CNC Lathe Optional Equipment

- 50/60 hp Spindle Drive Motor (CL Series)
- Spindle Bore up to 14.17" (360mm) on 35" (880mm) swing, 16.14" (410mm) on 40" (1010mm) swing and larger (CL Series)
- Spindle Bore up to 24.02" (610mm) (CB, CC & CK Series)
- Dual Chuck Adapter
- Closed Steady Rest 1.2" (30mm) to 15.75" (400mm)
- Closed Steady Rest 13.8" (350mm) to 27.56" (700mm)
- Open Steady Rest 1.2" (30mm) to 15.75" (400mm) (CC & CK Series)
- Open Steady Rest 13.8" (350mm) to 27.56" (700mm) (CC & CK Series)
- Follower Rest
- Hydraulic Steady Rest
- Linear Scale
- Drill Attachment for Tailstock
- Heavy-duty Baruffaldi TB 320 8 Station Turret
- Heavy-duty Baruffaldi TB 320 8 Station Turret with VDI Tooling
- Baruffaldi TBMA 320 C-Axes Live Tooling (10/15 Hp Motor)
- Special Order Diplomatic V8 8 Station Turret
- Special Order Diplomatic V8 8 Station Turret with VDI Tooling

TURNING

"Clousing Large Swing Standard or CNC Lathe Machine Profile Survey"

forms are available on our web site for download:

www.clousing-industrial.com