

www.clausing-industrial.com

Clausing MA/MAV Series Lathes

600 Group

*Celebrating Over 105 Years
in the Machine Tool Business*

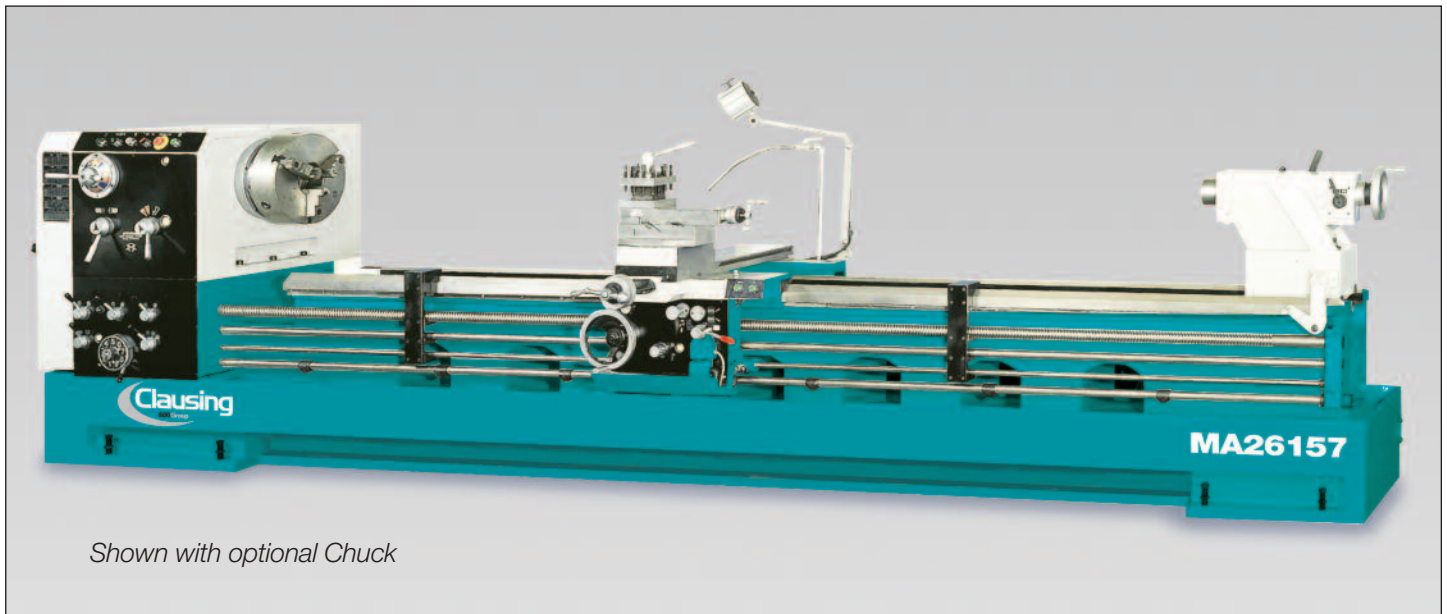
*A Line of Precision, High Performance
Geared Head and Variable Speed Lathes*



26" and 30" Swings and 78.7", 118", and 157",
Distance Between Centers

TURNING

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

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
- Traveling chip guard
- Full rear splash guard with chip pan
- Thread dial
- Manual tailstock w/ manual movement and anti slip lock
- Lockable main switch
- Halogen work light
- Leveling screws and pads
- Tools, tool box, operation manual

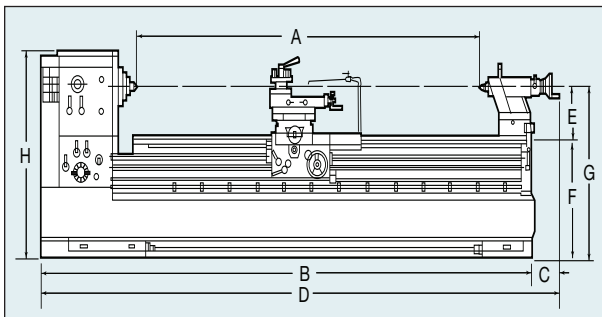
Specifications:

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)	0.05-0.7 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)

(Specifications subject to change without notification)

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

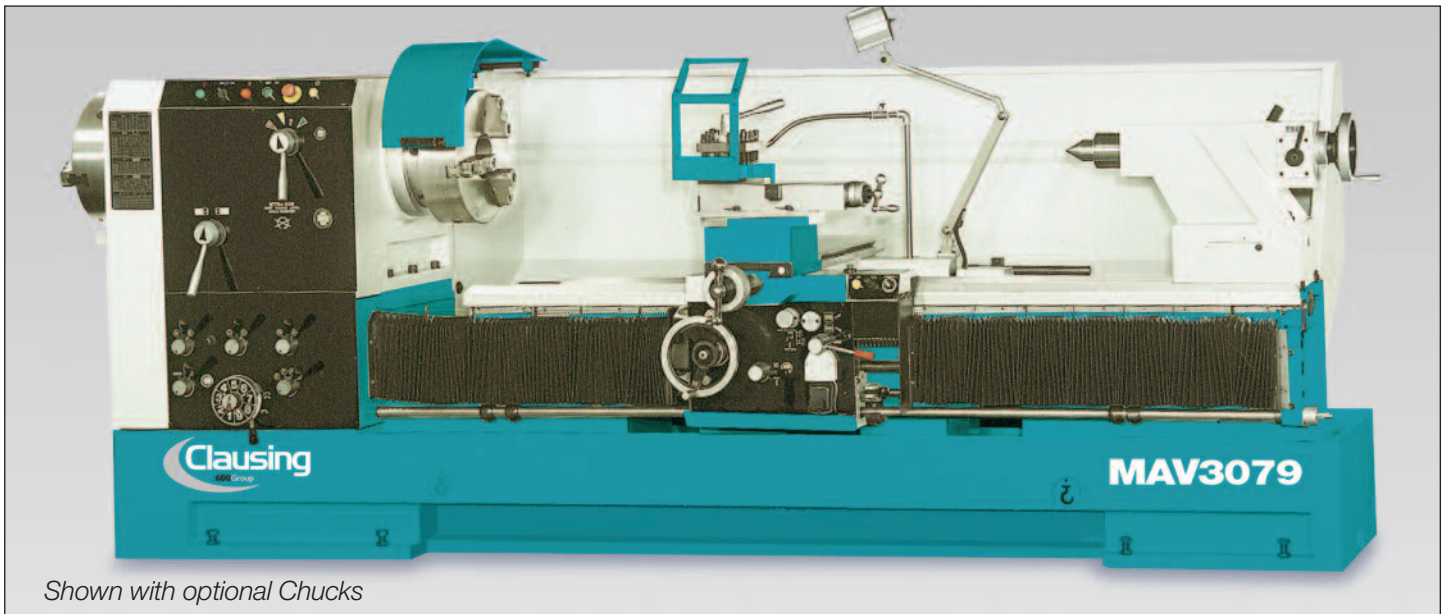
Dimensions, Center Distance and Weight:



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.

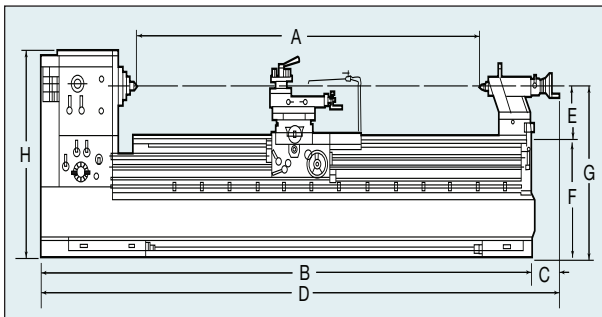
Machine Standard Features:

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

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
- Traveling chip guard
- Full rear splash guard with chip pan
- 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

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)

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)

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)

(Specifications subject to change without notification)

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

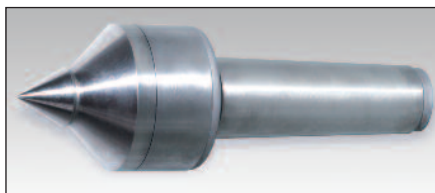
Atlas 4-Jaw Universal Chucks have a maximum .003 TIR using nominating pinion, .001 repeatability using nominating pinion, two-piece American Standard tongue and groove jaws, nitride hardened and ground scroll, hardened pinions.

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	24"	MA/MAV 30 series lathes	A-11

Live Center

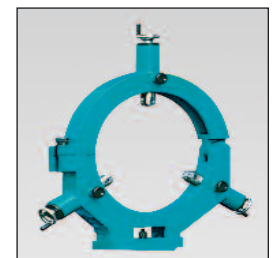
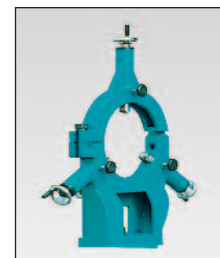
Revolving center is concentric within .0002" T.I.R. 60° point rotates on roller bearings.



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



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"

Increase Productivity...Pick from One of These Three World Leading DRO's



ACU-RITE® 200S or 300S LCD Digital Readout **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.

- 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
- Taper calculator
- Linear and non-linear error compensation
- Die-cast metal construction
- RS-232-C/V.24 serial port data interface

- Job clock
- Feed rate display
- Multiple program names with numerous steps
- Advanced skew compensation
- Multiple display views - DR01 & DR02
- Multiple language supports
- 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)



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.

- 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

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



Your Single Source for Machine Tools

Clausing Precision Drills

- Clausing Belt-drive Drills
- Clausing Geared-head Drills
- Clausing Radial Drills

Clausing Precision Mills

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

Clausing Precision Lathes

- Clausing/Colchester Geared Head Lathes
- Clausing/Colchester Professional V.S. Lathes
- Clausing/Colchester MAGNUM V.S. Lathes
- Clausing MA/MAV Series Lathes
- Clausing Large Swing Standard vLathes
- Clausing Large Swing CNC Lathes
- Clausing Precision Toolroom Lathes

Clausing Precision Grinders

- Clausing Manual Grinders
- Clausing 2 Axes Hydraulic Grinders
- Clausing 3 Axes Hydraulic Grinders
- Clausing ASDIII Automatic Grinders

Clausing Precision Cutting Machines

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

For detailed catalogs of the full line of Clausing Machine Tools visit our Web Site:

www.clausing-industrial.com

Fax: 269-345-5945 or e-mail us and request an electronic (pdf) catalog at:

info@clausing-industrial.com

Your Authorized Clausing Precision Machine Tools Distributor



Call 800-323-0972 for the Clausing Dealer Nearest You
or visit www.clausing-industrial.com

Celebrating Over A Century in the Machine Tool Business