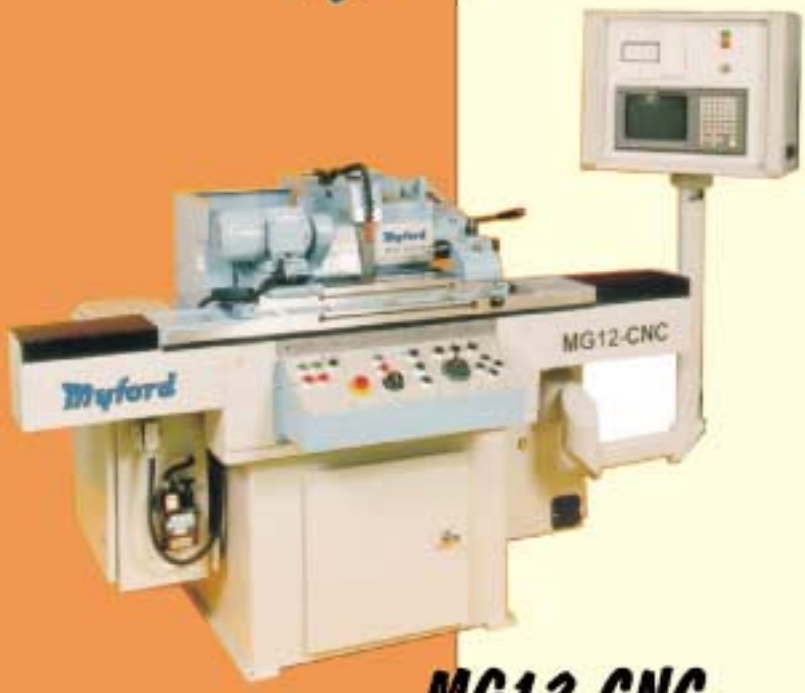
# Myford Precision Cylindrical Grinders




## MG12-CNC

The Long established exceptional performance of the Mg12 Series of Cylindrical Grinders has now been further enhanced by the Fanuc Control which provides a comprehensive range of grinding cycles

Operator Control Center

***User Friendly Features Include***

Menu Driven programming
Off-Line Programming
Automatic or Manual Dressing With Compensations
Change From Either Manual Grinding or
Full CNC in Seconds
Shoulder Location
In-Process Gauging

The Myford Cylindrical Grinder line has available a wide range of models varying in sophistication. Their capacity of 5" swing 12" between centers makes them an ideal machine for either a toolroom or a production environment. The seven different models range from the manually operated to a full CNC System with shoulder flagging, and intuitive data entry, and an optional angle wheelhead. All of the components from the seven different models are interchangeable with one another giving the grinders greater flexibility.

## Accuracy

Accuracy is identical throughout the entire Myford product line.

*Roundness down to:* .000015" ( 15 Millionths )
*Surface Finish down to:* 2 Microinch
*Parallelism down to:* 0.000050" over 10 inches

## Workhead

Infinitely variable speed control from 50 to 900 r.p.m. Equipped with flood lubricated bearings and capable of both dead and live spindle grinding

## Wheelhead

The nitrided steel wheel spindle has automatic recirculating lubrication. The Class 7 bearings are extremely rigid and accurate. A flat belt is used for a smooth drive.

## Options Include

Swing Down or Dedicated Internal Grinding Units
Over the Wheel, Swing Down Production,
Angular Wheel Dresser, Radius Dressers
Various Workholding Devices
Swivelling Workheads
Digital Readouts
Filtration Systems
Angle Wheel Heads
In-Process Gauging

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MG12-M and MG12-ME

MG12-HM and MG12-HMR

MG12-HPM

## Standard Components

Motor driven live spindle and dead center variable speeds from 50 to 900 r.p.m.
Motor driven wheelhead arranged for the mounting of the motor-driven swing down internal attachment including mounting bracket, contactor and switch.
Cartridge type wheel spindle unit with nitralloy spindle
Automatic lubrication for wheelhead and carriage slideways
Grinding wheel 12" x 1-1/2" x 5" bore (recessed 1/4" both sides)
Grinding wheel adapter w/balance weights
Extractor for grinding wheel adapter
Grinding wheel balancing arbor
Tailstock incorporating diamond holder (w/o diamond)
Table type wheel dresser (w/o diamond)
One pair work centers
Two guns - one oil/one grease
Electric pump & coolant service fittings
Counter weight, guards and belts
One set spanners and keys
Arranged for self-contained motor-drive to wheelhead, workhead and coolant pump, including motors, control-gear in external electrical cabinet mounted on right side of machine, and all internal wiring, arranged for 230/460 volts, 3 phase, 60 cycle.

## MG12-M

Completely manual machine
Toolroom work or production grinding
Accurate at low cost
Table swivels 7 degrees either way

## MG12-ME

Mostly the same as MG 12 M
Hydraulic table traverse with dwell control

## MG12-HM

Hydraulic table traverse with dwell control
Hydraulic rapid advance/retract of wheelhead to facilitate loading/unloading
Automatic mechanical wheelhead infeed on traverse grinding
Wheelhead advances on one side or the other only
Operator must retract wheelhead at end of grind
Operator must reset handwheel for stock removal
Manual plunge grinding capability
Table swivels 10 degrees either way

## MG12-HMR

Mostly the same as MG 12 HM
Sparkout timer and automatic wheelhead retraction on traverse grind for more consistent sizing
Operator must reset handwheel for stock removal
Manual plunge grinding capability
Table swivels 10 degrees either way

## MG12-HPM

Can be used as fully manual machine
Can be used as fully automatic machine
Automatic plunge grinding capability
Coarse/fine feed rates
Visual indication of feed
0.025 inch depth of plunge, with optional .100” and .200”
Wheelhead advances on either side or both sides on traverse grinds
Spark-out retraction on both plunge and traverse grinds, operator DOES NOT reset handwheel
Optional in-process gaging
In-Process gaging overrides coarse/fine changeover settings and dwell control. Also provides auto compensation for wheel wear.