

# CENTERLESS GRINDERS

## M1020A

1" DIAMETER



### STANDARD EQUIPMENT

Wheel Extractor & Hoister  
Service Spare Parts Kit  
Wrench Set  
Loading and Delivery Chutes  
4 Work Blades  
6 Shims for Workrest  
Infeed Workrest / Work piece injector  
Through Feed Workrest  
Wheel Hub  
Operational & Maintenance Manual  
Work Light (low voltage)  
Flood Coolant System  
Leveling Wedges  
Complete U.S. Standard Electrics

### OPTIONAL ACCESSORIES

- 1). DIGITAL READ-OUT SYSTEM
- 2). VARIABLE SPEED DRIVE
- 3). AUTOMATIC WHEEL BALANCE UNIT
- 4). IN-PROCESS GAUGING SYSTEMS
- 5). AUTOMATIC LOADING SYSTEMS
- 6). HALOGEN WORK BULB REPLACEMENT
- 7). MANUAL PAPER FILTRATION SYSTEM
- 8). COOLANT FILTRATION SYSTEM
- 9). AUTOMATIC PAPER FILTRATION SYSTEM
- 10). WARRANTY EXTENSION

### CAPACITY

DIAMETER : 0.12 min / 0.8 max in. limited by workre  
LENGTH : 3.15 max in.  
CENTER HEIGHT : 6.70 in. from worktable  
MAXIMUM WORKLOAD : 10 lbs. (infeed)  
NET WEIGHT : 4,410 lbs.  
DIMENSIONS : 69.0 x 50.0 x 53.0 in. (LxWxH)  
DIAMETER : 0.02 min / 0.8 max in. limited by workre  
LENGTH : continuous

### (INFEED)

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### (THROUGH FEED)

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### GRINDING WHEEL

HORSE POWER : 5.4 hp  
WHEEL SIZE : 12 x 4 x 5 in. (DxWxB)  
WHEEL SPEED : 2,100 rpm  
SURFACE SPEED : 6,600 sfm  
DRESSER UNIT : variable hydro feed / template forming  
DRESS SWIVEL : 1 axis / + or - 3 deg.  
SPINDLE BEARING : cantilever type / 3 shoe hydrodynamic  
DRESS SWIVEL : 2 axis / 1st -2 to +5 / 2nd -3 to +3 deg

### REGULATING WHEEL

RAPID TRAVEL : 30 ipm  
HANDWHEEL/REV : 0.012 in.  
HANDWHEEL/DIV : 0.0001 in.  
MAXIMUM TRAVEL RP : 0.05 in. / 0.10 in.  
MAXIMUM TRAVEL HW : 3 in.  
SPINDLE TAPER : 1:5 taper  
OIL RESERVOIR : 2 gal - 60 ISO viscosity grade  
HORSE POWER : 1 hp. (DC)  
WHEEL SPEED : 20 - 210 rpm / variable  
VERTICAL SWIVEL : -2 deg / +4 deg  
HORIZONTAL SWIVEL : -1 deg / +3 deg.  
WHEEL SIZE : 8 x 4 x 3 in. (DxWxB)  
SPINDLE BEARING : bushing type bearing / angular contact b

### HYDRAULIC SYSTEM

FLOW RATE : 5.0 gpm  
PRESSURE : 114 to 128 psi Lub. pres. 14 psi  
RESERVOIR : 20 gal. 32 ISO viscosity grade  
HORSE POWER : .5 hp

### COOLANT SYSTEM

HORSE POWER : .12 hp.  
FLOW : 13 gpm  
PRESSURE : 25 psi  
RESERVOIR : 35 gal.

### ACCURACIES (PERMISSIBLE DEVIATION)

ROUNDNESS : .000078 in.  
CYLINDRICITY : .000078 in  
REPEATABILITY : .00005 in.

### POWER VOLTAGE

VOLTAGE : 220 volt 3 phase 60 hz.  
TOTAL KVA : 15 kva  
CURRENT AMPS : 25 amp