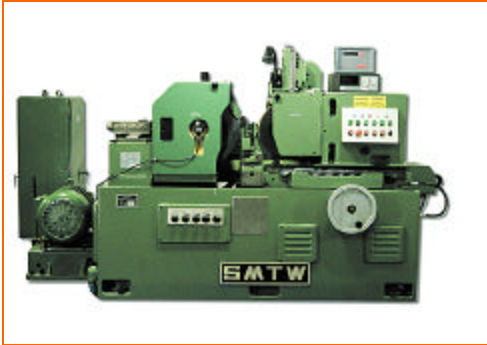


# CENTERLESS GRINDERS

## M10100

4" DIAMETER



### STANDARD EQUIPMENT

- Diamond Dresser
- Complete U.S. Standard Electrics
- Work Light (low voltage)
- Flood Coolant System
- Shims for Workrest
- Leveling Wedges
- Workpiece Ejector
- Workrest Plunge / through
- Grinding Wheel Hook Dismantling Unit
- Wrench Set
- Operational & Maintenance Manual
- Spare Bearings/ Reg. & Grinding Wheel
- Service & Spare Parts Kit

### 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

LENGTH : 7.67 max in.  
CENTER HEIGHT : 8.66 in. from worktable  
MAXIMUM WORKLOAD : 50 lbs. (infeed)  
NET WEIGHT : 15,500 lbs.  
DIMENSIONS : 154.0 x 129.0 x 85.0 in. (LxWxH)  
DIAMETER : 0.39 min / 4.0 max in. limited by workre  
LENGTH : continuous

### (INFEED)

:

### (THROUGH FEED)

:

### GRINDING WHEEL

HORSE POWER : 30 hp  
WHEEL SIZE : 20 x 8 x 12 in. (DxWxB)  
WHEEL SPEED : 1,100 rpm  
SURFACE SPEED : 6,801 sfm  
DRESSER UNIT : stepping motor infeed w / template formi  
DRESS SWIVEL : 1 axis + of - 3 deg.  
SPINDLE TAPER : 1:5 taper  
SPINDLE BEARING : cantilever type / 4 shoe hydrodynamic

### REGULATING WHEEL

RAPID TRAVEL : 30 ipm  
HANDWHEEL/REV : n/a  
HANDWHEEL/DIV : n/a  
MAXIMUM TRAVEL RP : .78 in.  
MAXIMUM TRAVEL HW : n/a  
OIL RESERVOIR : 5.3 gal - 60 ISO viscosity garde  
HORSE POWER : 4 hp. (DC)  
WHEEL SPEED : 10 - 300 rpm / variable  
VERTICAL SWIVEL : -2 deg / +5 deg  
HORIZONTAL SWIVEL : -1 deg / +3 deg  
WHEEL SIZE : 13.7 x 7.87 x 8 in.  
SPINDLE BEARING : cantilever type / 3 shoe hydrodynamic  
DRESSER UNIT : variable hydro feed / template forming  
DRESS SWIVEL : 2 axis / 1st -2 to +5 / 2nd -3 to +3 deg

### HYDRAULIC SYSTEM

FLOW RATE : 5.2 gpm  
PRESSURE : 241 to 284 psi (working) 14/21 psi  
RESERVOIR : 66 gal.  
HORSE POWER : 1.5 hp

### COOLANT SYSTEM

HORSE POWER : .33 hp  
FLOW : 26 gal  
PRESSURE : 45 psi  
RESERVOIR : 200 gal.

### ACCURACIES (PERMISSIBLE DEVIATION)

ROUNDNESS : 0.0005 in.  
CYLINDRICITY : 0.0001 in.  
REPEATABILITY : 0.00005 in.

### POWER VOLTAGE

VOLTAGE : 220 volt 3 phase 60 hz.  
TOTAL KVA : 30 kva  
CURRENT AMPS : 100 amps