CRERRATION OF THE STATES

Multi-Surface Grinding Center



CINCINNATI MACHINES Multi-Surface Grinding Center combines heavy-duty meehanite castings, hydrostatic table ways, powerful 7.5 HP spindle motor drive, and swivelling workhead and table, with the Mitsubishi PLC menu driven touch-screen control system to bring you the ultimate in ID/OD grinding capabilities. Now, this one machine will do all of your ID, OD, face, traverse, plunge, shoulder, taper and straight job lot and/or batch production grinding. The wheelhead infeed unit features a hardened and

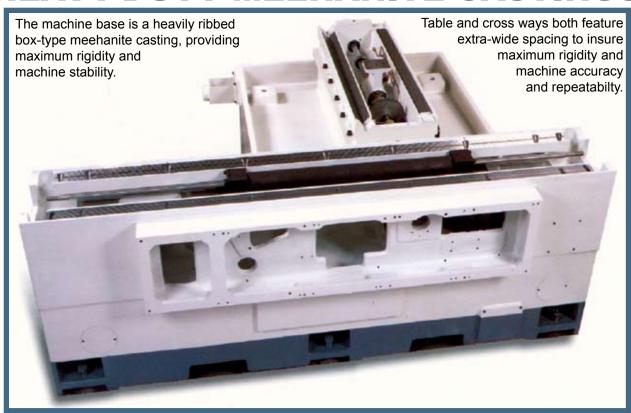
ground leadscrew with an anti-backlash nut driven by a micro-stepping motor to insure precision and repeatability

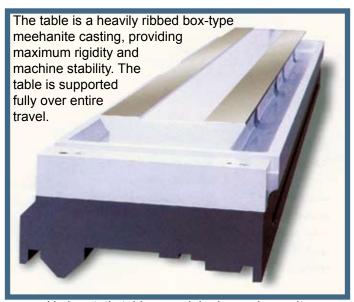
FEED SELECTION PARK SELECTION

LEFT RIGHT LEFT RIGHT

2010 Cincinnati Machines, Inc. of +/-0.000040"

HEAVY-DUTY MEEHANITE CASTINGS





Hydro-static table ways lube insure longevity



Infeed slide design insures +/-0.00004" repeatability



The heavy cartridge type spindle with (4) super-precision angular contact class 7 bearings feature permanent lube for maximum dependability and accuracy



The heavy-duty cast tailstock features a hardened sleeve to carry the #4MT center



The Heavy-duty live and dead workhead has precision bearings and variable electronic drive

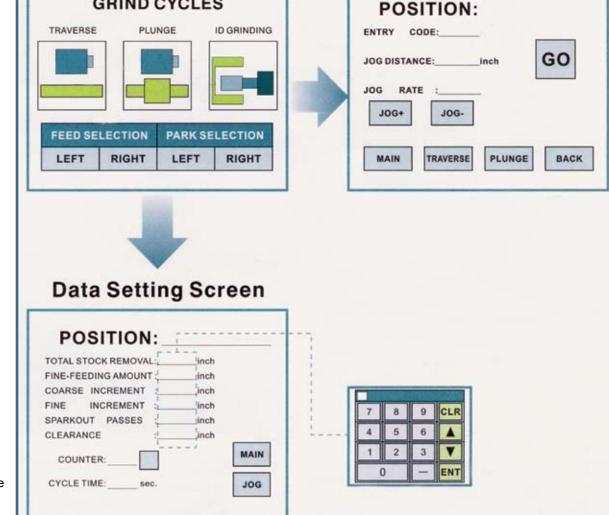
MENU-DRIVEN LCD TOUCH-SCREEN CONTROL TECHNOLOGY

GRIND CYCLES

STEP

Choose a function

- *Grinding Mode Selection
- *Infeed Selection
- *Table Parking Selection
- *Jog Setting or Next Screen

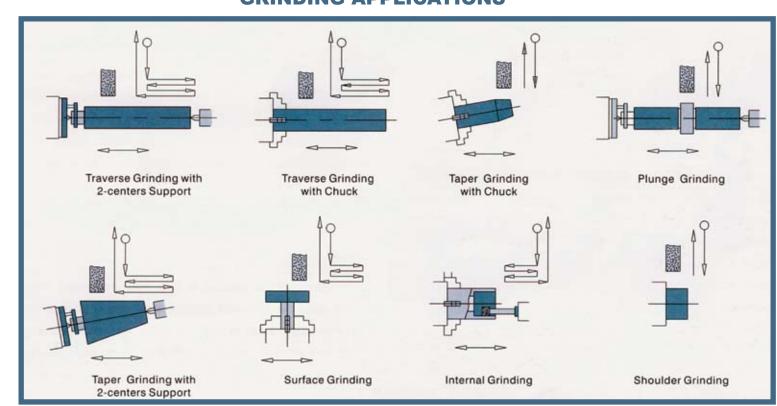


STEP 2

Fill in the blanks to set total

- *Total stock removal
- *Total fine feed amount
- *Rough increment
- *Fine increment *Spark-out passes
- **Reset height
- **Press "cycle start" to complete auto grind cycle

GRINDING APPLICATIONS



STANDARD EQUIPMENT

- *Grinding wheel mount
- *Balancing arbor
- *Coolant system
- *Carbide tip center
- *Table type wheel dresser
- *Wheel extractor
- *Auto lubrication system (except 6x18)
- *Tool box/tools
- *5C lever type collet attachment (6x18)

OPTIONAL ACCESSORIES

- *Variety of coolant filtration systems
- *Variety of chucks and collet attachments
- *Radius and angle dressing attachments
- *Internal grinding attachment
- *Variety of center rests & back rests
- *Digital readout systems
- *Extra wheel mounts
- *Complete line of CINMAX
 - *Conventional,
 - *CBN.
 - *Diamond and
 - *MAX grinding wheels
- *Dynamic wheel balancers
- *Hydraulic footstock





MACHINE SPECIFICATIONS (inches)

Model	6x18	8x20	12x24	12x40	12x60	12x80	15x24	15x40	15x60	15x80
Distance between centers	18"	20"	24"	40"	60"	80"	24"	40"	60"	80"
Swing over table	6"	8"	12.6"			15"				
Max grinding diameter	6" 8"		12" (with new wheel)				14" (with new wheel)			
Max load between centers	110lbs 176lbs		330lbs				330lbs			
Wheelhead swivel (R&L)			+/-30°				+/-30°			
Infeed travel	9.6"		9.6"				9.6"			
Hand feed travel	4.2"		6.3"				7.8"			
Top slide travel			7"				7"			
Auto infeed increment	0.0001" - 0.0004"		0.0001" - 0.0999"				0.0001" - 0.0999"			
Handwheel graduation	0.0002"		0.0002"				0.0002"			
Infeed travel - handwheel	0.05"/Rev		0.05"/Rev				0.05"/Rev			
Grinding wheel size (inch)	12x2x3 14"x2x5		16x2x5				16x2x5			
Grinding wheel speed	1960 rpm		1650 rpm				1650 rpm			
Table swivel (L-R)	+/-8°	+/-7°	+/-9°	+/-7°	+/-5°	+/-3°	+/-9°	+/-7°	+/-5°	+/3°
Table traverse speed	3 steps - 2.8/4.9/8.3ipm		1.2-275 ipm (infinitely variable)				1.2-275 ipm (infinitely variable)			
Table travel-handwheel	.375"		.375"				.375"			
Workhead swivel	90°		90°				90°			
Workhead center taper	#3MT		#4MT (MT5/5C option)				#4MT (MT5/5C option)			
Workhead speed	150/264/356/483 rpm		30-350 rpm (infinitely variable)				30-350 rpm (infinitely variable)			
Tailstock center taper	#2MT #3MT		#4MT (MT5 option)				#4MT (5MT option)			
Tailstock quill travel	1	"	1"				1"			
Internal grd. (opt) speed	14,000 or 2	25,000 rpm	12000, 18000, or 25000 rpm				12000, 18000, or 25000 rpm			
Internal grd. motor	2h	np	2HP				2HP			
Grinding wheel motor	7.5	HP	7.5HP				7.5HP			
Machine weight	3080lbs	4510lbs	9460lbs	11220lbs	12760lbs	14250lbs	9640lbs	1400lbs	12940lbs	14230lbs
Shipping dimensions	63x57x69	85x54x73	119x90x79	119x90x79	170x90x79	203x90x79	119x90x79	119x90x79	170x90x79	203x90x79

MACHINE DIMENSIONS

(All dimensions in inches)

M E G 12x24 6.4 12x40 6.4 12x60 6.4 12x80 6.4 15x24 7.6 15x40 7.6 15x60 7.6 102 145 7.6 102 | 193 15x80

