

CINCINNATI MACHINES

Precision Surface Grinders



PRECISION MANUAL SURFACE GRINDERS

6x16 and 618e

SMALL PRECISION HAND FEED TOOLROOM SURFACE GRINDERS

CINCINNATI MACHINES
precision hand feed
surface grinders
feature ball track hard ways
and cable drive for
smooth hand operation,
along with heavy ribbed
meehanite casting
construction



6x16
*6x16 Table
*2 HP Motor
*7x1/2" Wheel
*Ball Ways
*Cable Drive
*0.0004" Downfeed



618e
*6x18 Table
*2 HP Motor
*7x1/2" Wheel
*Ball Ways
*Cable Drive

PRECISION AUTOMATIC SURFACE GRINDERS

12x24
*12x24 Table
*5 HP Motor
*V/flat table ways
(w/turcite)
*Hydraulic table feed
*Electronic crossfeed
*Incremental downfeed
*Automatic lube
*Rear splash guard
*12x24 Electr/Mag Chuck
*Paper Filter & Coolant
*Parallel Dresser

12x24



10x20
*10x20 Table
*3 HP Motor
*V/flat table ways
(w/turcite)
*Hydraulic table feed
*Electronic crossfeed
*Incremental downfeed
*Automatic lube
*Rear splash guard
*10x20 Permanent chuck
*Dust Suction & Coolant
*Parallel Dresser



8x18
*8x18 Table
*2 HP Motor
*V/flat table ways
(w/turcite)
*Hydraulic table feed
*Electronic crossfeed
*Increment. downfeed
*Automatic lube



LARGE PRECISION AUTOMATIC SURFACE GRINDERS

- 32x80, 32x100, 32x120
- *15 HP Motor
- *V/flat table ways (w/turcite)
- *Hydraulic table feed
- *Travelling column crossfeed
- *Hydraulic incremental crossfeed
- *Incremental downfeed
- *Automatic lube
- *Rear splash guard
- *Matching ElectroMagnetic Chuck
- *Paper Filter & Coolant
- *Parallel Dresser



32x80
32x100
32x120

20x40, 20x60
24x60
24x80



- 20x40, 20x60, 24x40, 24x60
- *10 HP Motor
- *V/flat table ways (w/turcite)
- *Hydraulic table feed
- *Travelling column crossfeed
- *Electronic crossfeed
- *Incremental downfeed
- *Automatic lube
- *Rear splash guard
- *Matching ElectroMagnetic Chuck
- *Paper Filter & Coolant

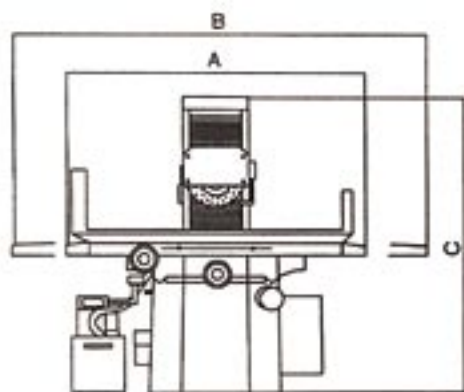
- 16x32
- *16x32 Table
- *7.5 HP Motor
- *V/flat table ways (w/turcite)
- *Hydraulic table feed
- *Electronic crossfeed
- *Incremental downfeed
- *Automatic lube
- *Rear splash guard
- *16x32 ElectroMagnetic Chuck
- *Paper Filter & Coolant



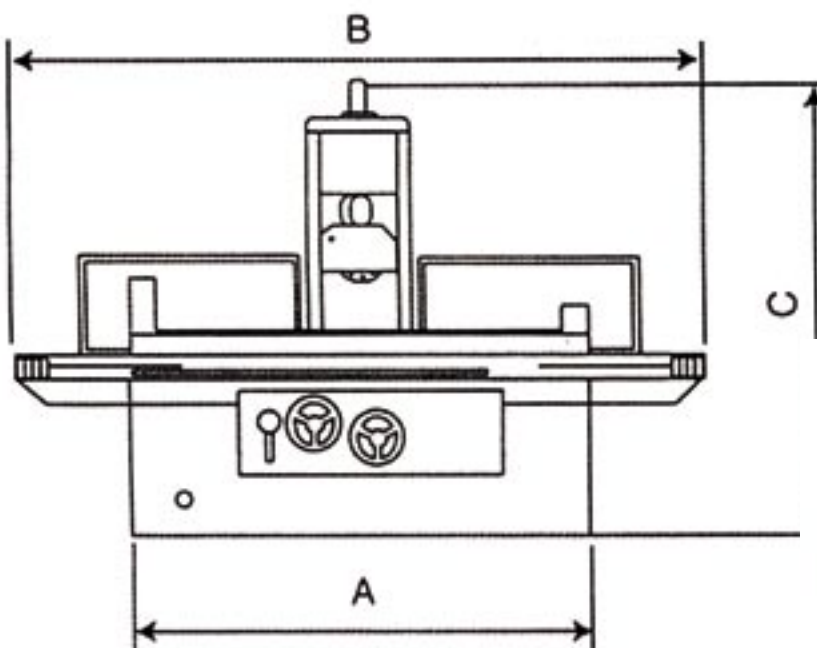
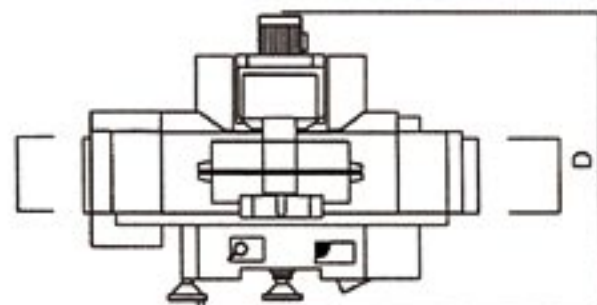
MACHINE SPECIFICATIONS

Model (inch dimensions)	6x16	618e	8x18	10x20	12x24	16x32	20x40	32x80
Table size	6x16	6x18	8x18	10x20	12x24	16x32	20x40	32x80
Table travel	17	18.75	21	21	27.937	36.625	45	88.5
Cross travel	8	6.3	10.25	10.875	13.375	17.625	22.5	34
Spindle c/l to table	18	15.75	19.375	19.25	20.5	23.625	23.625	35.5
Table speed (ft./min.)	manual	manual	17-82	17-82	17-82	17-82	23-82	32-92
Cross handwheel grad.	.001	.0005	.001	.001	.001	.001	.001	.0004
Cross handwheel rev.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.08
Auto crossfeed / stroke	manual	manual	.004 -.2	.004 -.2	.02 - .4	.02 - .4	.02 - .4	.08 - .8
Power crossfeed (ipm)	manual	manual	38	38	47	47	51	78.5
Grinding wheel size	7x.5x1.25	7x.5x1.25	7x.5x1.25	7x1x1.25	14x1.5x5	14x1.5x5	14x1.5x5	20x2x5
Grinding spd speed (rpm)	3480	3480	3480	3480	1740	1740	1740	1150
Vertical handwheel grad.	.0002	.0002	.0004	.0005	.0005	.0005	.0001	.0001
Vertical handwheel rev.	.1	.05	.01	.01	.025	.025	.02	.02
Auto downfeed increment	manual	manual	.0001 -.001	.0001 -.001	.00025-.00125	.00025-.00125	.0002 -.0016	.0002 -.0016
Power head elevation (ipm)	-	-	-	-	11	11	11	11
Spindle motor	2HP	2HP	2HP	3HP	5HP	7.5HP	10HP	15HP
Machine Height	68	66	68	75	75	75	90	100
Base space	77x50	63x50	82x56	83x59	103x75	133x88	157x94	238x128
Machine weight (lbs)	1380	1584	2860	3080	3850	6160	11000	27500
Shipping weight (lbs)	1650	1870	3410	3520	4290	6600	13200	31900

MACHINE DIMENSIONS



Model	A	B	C	D
6x16	46	63	67	50
618e	59	77	67	50
8x18	60	82	71	56
10x20	61	83	71	59
12x24	73	102	71	75
16x32	110	133	74	88



Model	A	B	C	D
20x40	83	157	83	94
20x60	101	174	91	104
24x60	101	174	91	108
24x80	174	247	91	112
32x80	174	238	96	128
32x100	229	342	96	128
32x120	274	388	96	128

