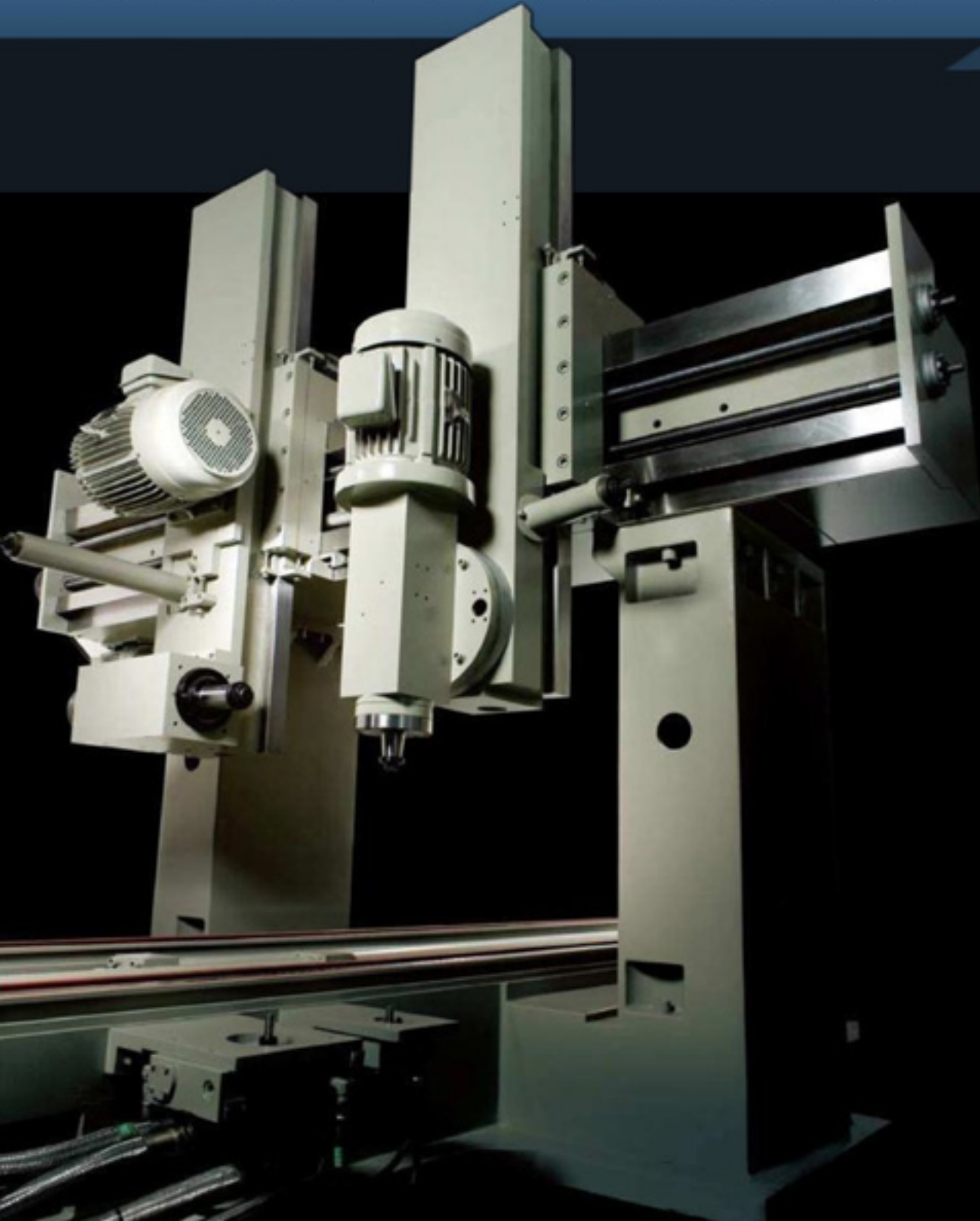


WORLD CLASS GRINDERS

**CINCINNATI
MACHINES**



**Very Large
Precision
Surface
and Way
Grinding
Centers**

CINCINNATI MACHINES

**Choose NC or CNC
Very Large Precision
Surface/Way
Grinding Center**



**Choose Surface Grinding
or Way Grinding Centers
(Single or Multiple)
Grinding Heads**

**Very Large Precision
Heavy-Duty
Surface Grinding Centers
with NC or CNC
up to 60 x 240**

CGC
Cincinnati
Grinding
Center
or FANUC
CNC Control



**State-of-theArt CAD Designed
Heavy-Duty Seasoned and
Annealed Meehanite Castings**



**Automatic CNC
Controlled
Grinding Head**



**Manual Tilting
Grinding Head**

60120



Way and angle grinding

State-of-the-Art Heavy-Duty Meehanite Castings



Naturally seasoned and later subjected to High-Tech annealing processes to insure maximum rock-solid rigidity to provide many years of precision consistent smooth grinding

Ways are Precision Hand-Scraped then Annealed



CAD Designed Double Annealed Castings

Massive Rock Solid Castings



Precision Laser Scanning

Quality Assurance Throughout the Process



Large Casting Inspection Equipment

Start with the CAD design system and years of grinding expertise, and then make sure that every step of the manufacturing process includes a mindset of quality and precision. From State-of-the-Art castings to the Ultra-Precision Spindle Bearing Cartridge system, precision hand-scraped ways, isolated hydraulics, to testing very component along the way, no stone is left unturned to insure the quality and precision of these Surface/Way Grinding Centers.



Large Surface Grinder Specifications

SPECIFICATIONS FOR DC-4060 THRU 40120

SPECIFICATION	MODEL	4060	4090	40120
Max. cross x longitudinal travels		1200x1650mm 47.2"x64.9"	1200x2350mm 47.2"x92.5"	1200x3150mm 47.2"x124"
Wheel bottom to table (Vertical head)		0-500 (120-670)mm / 0-19.6" (4.7"-26.3")		0-550(180-730)mm 0-21.6" (7-28.7")
Cross rail bottom to table-horizontal head		600 (850)mm / 23.6" (33.4")		
Grinding surface of table		1000x1500mm 39.3"x59"	1000x2200mm 39.3"x86.6"	1000x3000mm 39.3"x118.1"
Hydraulic table speed (60Hz)		2-25(0.5-25)m/min / 80-1000(20-1000)inch/min		
Hydraulic motor		5.6KW / 7.5HP	7.5KW / 10HP	5.6 KW / 7.5HPx1 3.7KW / 5HPx1
Clearance between the columns		1200mm / 47.2"		
Intermittent cross feed (Electro-Mechanical) approx.		0.1-35mm/feed / 0.1-1.4inch/feed		
Continuous cross feed (Electro-Mechanical) approx.		3mm/min / 120inch/min		
1 revolution on cross handwheel		10mm / 0.2"		
1 division on cross handwheel		0.05mm / 0.0001"		
Rapid vertical traverse (approx.) (50Hz)		240mm/min / 9.4inch/min		
1 revolution on vertical handwheel		0.25mm / 0.01"		
1 division on vertical handwheel		0.002mm / 0.0001"		
Wheel dimension (O.DxWxI.D)-Standard		500x100x203.2mm / 20"x4"x8"		
Max. height from table top to bottom of standard wheel		600mm / 23.6"		
Horizontal head spindle motor		11(15, 18.5) KW / 15(20, 25) HP		
Vertical head Spindle motor		7.5KW / 10HP		
Wheel speed 50 / 60Hz		1500/1800 r.p.m. (1000/1200 r.p.m.)		
Net weight of machine		13000kg/28600lbs	17000kg/37400lbs	32000kg/70400lbs
Gross weight of machine		16000kg/352000lbs	21000kg/42600lbs	36000kg/79200lbs
		5.4x2.9x3.4m	6.6x2.9x3.4m	8.4x2.9x3.5m
Machine dimension (LxWxH)		18x9.6x11.3ft	22x9.6x11.3ft	28x9.6x11.6ft

SPECIFICATIONS FOR 40160 THRU 4890

SPECIFICATION	MODEL	40160	40200	40240	4890
Max. cross x longitudinal travels		1200x4150mm 47.2"x163.3"	1200x5150mm 47.2"x202.7"	1200x6150mm 47.2"x242.1"	1400x2350mm 55.1"x92.5"
Wheel bottom to table (Vertical head)		0-550(180-730)mm / 0-21.6" (7-28.7")			0-500(120-670)mm 0-19.6" (4.7-26.3")
Cross rail bottom to table-horizontal head		600 (850)mm / 23.6" (33.4")			
Grinding surface of table		1000x4000mm 39.3"x157.4"	1000x5000mm 39.3"x196.8"	1000x6000mm 39.3"x236.2"	1200x2200mm 47.2"x86.6"
Hydraulic table speed (60Hz)		2-25(0.5-25)m/min / 80-1000(20-1000)inch/min			
Hydraulic motor		5.6 KW / 7.5HPx1 3.7KW / 5HPx1	5.6KWx2 / 7.5HPx2		7.5KW / 10HP
Clearance between the columns		1200mm / 47.2"			1400mm / 55.1"
Intermittent cross feed (Electro-Mechanical) approx.		0.1-35mm/feed / 0.1-1.4inch/feed			
Continuous cross feed (Electro-Mechanical) approx.		3mm/min / 120inch/min			
1 revolution on cross handwheel		10mm / 0.2"			
1 division on cross handwheel		0.05mm / 0.0001"			
Rapid vertical traverse (approx.) (50Hz)		240mm/min / 9.4inch/min			
1 revolution on vertical handwheel		0.25mm / 0.01"			
1 division on vertical handwheel		0.002mm / 0.0001"			
Wheel dimension (O.DxWxI.D)-Standard		500x100x203.2mm / 20"x4"x8"			
Max. height from table top to bottom of standard wheel		600mm / 23.6"			
Horizontal head spindle motor		11(15, 18.5) KW / 15(20, 25) HP			
Vertical head Spindle motor		7.5KW / 10HP			
Wheel speed 50 / 60Hz		1500/1800 r.p.m. (1000/1200 r.p.m.)			
Net weight of machine		36500kg/80300lbs	44000kg/88000lbs	44500kg/97900lbs	18100kg/39820lbs
Gross weight of machine		41000kg/90200lbs	45000kg/99000lbs	49500kg/108900lbs	22000kg/48400lbs
Machine dimension (LxWxH)		11.2x2.9x3.5m 37.3x9.6x11.6ft	13.4x2.9x3.5m 44.6x9.6x11.6ft	15.6x2.9x3.5m 52x9.6x11.6ft	6.6x2.9x3.4m 22x9.6x11.3ft

SPECIFICATIONS FOR 48120 THRU 48240

SPECIFICATION	MODEL	48120	48160	48200	48240
Max. cross x longitudinal travels		1400X3150mm 55.1"x124"	1400x4150mm 55.1"x163.3"	1400x5150mm 55.1"x202.7"	1400x6150mm 55.1"x242.1"
Wheel bottom to table (Vertical head)		0-550 (180-730) mm / 0-21.6" (7"-28.7")			
Cross rail bottom to table-horizontal head		600 (850)mm / 23.6" (33.4")			
Grinding surface of table		1200x3000mm 47.2"x118.1"	1200x4000mm 47.2"x157.4"	1200x5000mm 47.2"x196.8"	1200x6000mm 47.2"x236.2"
Hydraulic table speed (60Hz)		2-25(0.5-25)m/min / 80-1000(20-1000)inch/min			
Hydraulic motor		5.6KW / 7.5HPx1 3.7KW / 5HPx1	5.6KWx2 / 7.5HPx2	5.6KWx3 / 7.5HPx3	
Clearance between the columns		1400mm / 55.1"			
Intermittent cross feed (Electro-Mechanical) approx.		0.1-35mm/feed / 0.1-.4inch/feed			
Continuous cross feed (Electro-Mechanical) approx.		3mm/min / 120inch/min			
1 revolution on cross handwheel		10mm / 0.2"			
1 division on cross handwheel		0.05mm / 0.001"			
Rapid vertical traverse (approx.) (50Hz)		240mm/min / 9.4inch/min			
1 revolution on vertical handwheel		0.25mm / 0.01"			
1 division on vertical handwheel		0.002mm / 0.0001"			
Wheel dimension (O.DxWxI.D)-Standard		500x100x203.2mm / 20"x4"x8"			
Max. height from table top to bottom of standard wheel		600mm / 23.6"			
Horizontal head spindle motor		11(15, 18.5)KW / 15(20, 25)HP			
Vertical head Spindle motor		7.5KW / 10HP			
Wheel speed 50 / 60Hz		1150 r.p.m.			
Net weight of machine		3300kg/72600lbs	37500kg/82500lbs	41000kg/90200lbs	45500kg/100100lbs
Gross weight of machine		37000kg/81400lbs	41000kg/90200lbs	46000kg/101200lbs	51500kg/113300lbs.
Machine dimension (LxWxH)		8.4x2.9x3.5m 28x9.7x11.6ft	11.2x2.9x3.5m 37.3x9.7x11.6ft	13.4x2.9x3.5m 44.7x9.7x11.6ft	15.6x2.9x3.5m 52x9.7x11.6ft

SPECIFICATIONS FOR 6090 THRU 60240

SPECIFICATION	MODEL	6090	60120	60160	60200	60240
Max. cross x longitudinal travels		1900x2350mm 74.8"x92.5"	1900x3150mm 74.8"x92.5"	1900x4150mm 74.8"x163.3"	1900x5150mm 74.8"x202.7"	1900x6150mm 74.8"x242.1"
Wheel bottom to table (Vertical head)	250-800(450-1000)mm / 9.8"-31.4"(17.7-39.3")					
Cross rail bottom to table-horizontal head	850(1100)mm / 33.4"(43.3")					
Grinding surface of table		1500x2200mm 59"x86.6	1500x3000mm 59"x118.1"	1500x4000mm 59"x157.4"	1500x5000mm 59"x196.8"	1500x6000mm 59"x236.2"
Hydraulic table speed (60Hz)	2-25(0.5-25)m/min / 80-1000(20-1000)(inch/min					
Hydraulic motor		5.6kW / 7.5HPx1 3.7kW / 5HPx1	5.6kWx2 /7.7HPx2	5.6kWx3 / 7.5HPx3	7.5KW / 10HPx1 5.6KW / 7.5HPx2	
Clearance between the columns	1900 mm / 74.8"					
Intermittent cross feed (Electro-Mechanical) approx.	0.1-35mm/feed / 0.1-1.4inch/feed					
Continuous cross feed (Electro-Mechanical) approx.	3mm/min / 120inch/min					
1 revolution on cross handwheel	10mm / 0.2"					
1 division on cross handwheel	0.05mm / 0.001"					
Rapid vertical traverse (approx.) (50Hz)	240mm/min / 9.4inch/min					
1 revolution on vertical handwheel	0.25mm / 0.01"					
1 division on vertical handwheel	0.002mm / 0.0001"					
Wheel dimension (O.DxWxI.D)-Standard	500x100x203.2mm / 20"x4"x8"					
Max. height from table top to bottom of standard wheel	850mm / 33.4"					
Horizontal head spindle motor	11(15, 18.5)KW / 15(20, 25)HP					
Vertical head Spindle motor	7.5KW / 10HP					
Wheel speed 50 / 60Hz	1150 r.p.m.					
Net weight of machine		3400kg/74800lbs	39000kg/85800lbs	45000kg/99000lbs	50000kg/110000lbs	56000kg/123200lbs
Gross weight of machine		37000kg/81400lbs	43000kg/94600lbs	49500kg/108900lbs	55000kg/121000lbs	62000kg/136400lbs
Machine dimension (LxWxH)		6.6x3.5x3.8m 22x11.7x12.7ft	8.4x3.5x3.8m 28x11.7x12.7ft	11.2x3.5x3.8m 37.3x11.7x12.7ft	13.4x3.5x3.8m 44.7x11.7x12.7ft	15.6x3.5x3.8m 52.11.7x12.7ft