



PMC-2040

PMC-3260 / PMC-32100 / PMC-32150

PMC-4260 / PMC-42100 / PMC-42150

# CYLINDRICAL GRINDING MACHINES

## Features

- Meehanite cast iron machine structure. Slideways are high frequency hardened and precision ground to maximize stability and wear resistance
- Variable speed spindle head runs on precision bearings to assure spindle stability and providing outstanding accuracy for external and internal diameter grinding and face grinding
- Grinding wheel head is precision machined from high quality alloy steel SNCM-220. Normalized, tempered, carburized, sub-zero treated, precision ground, and mirror-effect treated. Hardness reaches over HRC 62°. No deformation to ensure greater wear resistance and accuracy
- Grinding wheel spindle runs by using a special hydrostatic bearing designed for precision grinding work. It features high speed, no friction between metals, no heat generation, deformation free, and high accuracy
- Table slideways and wheel head are lubricated by an advanced automatic hydrostatic lubrication system which maintains smooth movement and superior grinding and feed accuracy



PMC-3260S



PMC-3260NC

## FEATURES

### RIGID MACHINE STRUCTURE



The machine structure is manufactured from high quality Meehanite cast iron, heat treated and stress relieved before machining. Slideways are high frequency hardened and precision ground. Utmost material stability for deformation free and outstanding wear resistance.

### STABLE AND RIGID SPINDLE HEAD



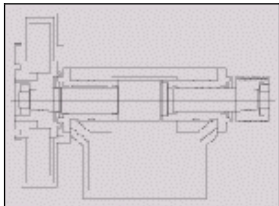
The variable speed spindle head runs on precision bearings, assuring greater spindle stability and providing outstanding accuracy for external and internal diameter grinding and face grinding. Variable speed is driven by servo motor except PMC-2040S which is driven by inverter.

### NC MODEL CONTROL PANEL



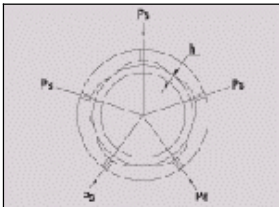
Wheelhead infeed is driven by servo motor for easy setup and grinding convenience. Easy to set sizes, feed amount, and feed rate to maximize productivity. It allows direct change to automatic feed once manual feed is accomplished without changing program

### PRECISION WHEELHEAD



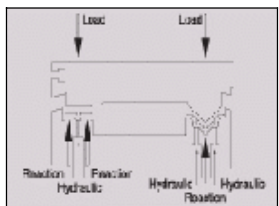
The grinding wheel head is precision machined from high quality alloy steel SNCM-220. Normalized, tempered, carburized, sub-zero treated, precision ground, and mirror-effect treated. Hardness reaches over HRC 62°. No deformation to ensure maximum wear resistance and accuracy.

### SPECIAL HYDROSTATIC BEARING



The wheel spindle runs by using a special hydrostatic bearing that is designed for precision grinding work. It features high speed, no friction between metals, no heat generation, deformation free, extra high accuracy and continual use.

### ADVANCED HYDROSTATIC LUBRICATION SYSTEM



The slideways of the table and the wheel head are lubricated by an advanced automatic hydrostatic lubrication system which provides smooth movement, feed accuracy, and superior grinding accuracy.

## STANDARD ACCESSORIES



Grinding Wheel & Flange



Diamond Tool Holder  
(Table Mounted Type)



Carbide Tipped Work Center



Wheel Balancing Stand & Arbor



Coolant System



Hydraulic Pump with Tank



Halogen Work Light



Tools

## OPTIONAL ACCESSORIES



Internal Grinding Attachment



Angular Truing Device



Radius Truing Device



Work Holders (2 Pcs/Set)



2-Point Steady Rest



3-Point Steady Rest



3-Jaw Scroll Chuck



4-Jaw Scroll or Independent Chuck



Magnetic Coolant Separator



Paper Filter w/ Magnetic Coolant  
Separator



Wheel Forming Device (Manual)



Wheel Forming Device (Auto)

SPECIFICATIONS		PMC-2040S/NC	PMC-3260S/NC PMC-4260S/NC	PMC-32100S/NC PMC-42100S/NC	PMC-32150S/NC PMC-42150S/NC
CAPACITY	Distance between centers	15.75" (400 mm)	23.62" (600 mm)	39.37" (1,000 mm)	59" (1,500 mm)
	Swivel over table	7.87" (200 mm)	12.60" (320 mm) 16.50" (420 mm)	12.60" (320 mm) 16.50" (420 mm)	12.60" (320 mm) 16.50" (420 mm)
	Max grinding diameter	6.30" (160 mm)	11" (280 mm) 14.96" (380 mm)	11" (280 mm) 14.96" (380 mm)	11" (280 mm) 14.96" (380 mm)
	Max load between centers	132 lb. (60 kg)	330 lb. (150 kg)	330 lb. (150 kg)	330 lb. (150 kg)
TABLE	Traverse speed	1.97" ~ 157.50"/min (50 ~ 4,000 mm/min)			
	Handwheel feed per rotation	0.79"/rev (20 mm/rev)			
	Swivel angle	12.5°	12°	10°	8°
	Auto reciprocate minimum travel	0.12" (3 mm)			
WORKHEAD & TAILSTOCK	Workhead center taper	M.T. #3	M.T. #4		
	Workhead swivel angle	120° (+90°, -30°)			
	Workhead spindle speed	16 ~ 450 rpm (variable speed)			
	Tailstock work center taper	M.T. #3	M.T. #4		
	Tailstock quill travel	0.79" (20 mm)	0.98" (25 mm)		
	Max load of spindle (tool holder included)	33 lb. (15kg) (max length: 3.94")	77 lb. (35kg) (max length: 5.91")		
WHEELHEAD	Grinding wheel speeds (rpm)	2,085 / 2,495 rpm		1,783 / 1,940 rpm	
	Grinding wheel size (O.D. x Width x I.D.)	Ø 12" x 1.5" x 5" (305 x 38 x 127 mm)		Ø 14" x 2" x 5" (355 x 50 x 127 mm)	
	Wheelhead swivel angle	±30°			
	Manual hand feed travel	5.30" (135 mm)	6.30" (160 mm)		
	Auto rapid traverse	0.98" (25 mm)	1.57" (40 mm)		
	Sliding seat supplementary disp.	3.74" (95 mm) / total 10" (255 mm)			
	Minimum setting unit	S model: 0.0001" (0.0025mm) / NC model: 0.00004" (0.001 mm)			
	Handwheel feed per graduation	0.0002" (0.005 mm)		0.0001" (0.0025 mm)	
	Handwheel feed per revolution	0.079"/rev (2 mm/rev)		0.04"/rev (1 mm/rev)	
	Handwheel straight infeed (S)	0 ~ 0.014" (0 ~ 0.35 mm)			
NC feed range (NC model)	0 ~ 3.90" (0 ~ 99 mm)				
POWER	Wheel spindle motor	3 HP (2.1 KW) (4P)	5 HP (3.75 KW) (4P)		
	Workhead motor	1 HP (0.75 KW) (4P) (inverter)	1.1 HP (0.8 KW) (servo motor)	1.75 HP (1.3 KW) (servo motor)	
	Hydraulic pump motor	1 HP (0.75 KW) (6P)			
	Wheel spindle lubrication motor	1/4 HP (0.18 KW) (2P)			
	Coolant pump motor	1/4 HP (0.18 KW) (2P)			
	Internal grinding spindle motor	1/4 HP (0.18 KW)	1 HP (0.75 KW)		
TANK CAPACITY	Wheel spindle lubricating tank	12 L			
	Hydraulic tank	65 L			
	Coolant tank	100 L			
MACHINE	Packaging dimension (L x W x H)				
	Gross weight	4,850 lb. (2,000 kg)	6,615 lb. (3,000 kg) 7,275 lb. (3,300 kg)	7,940 lb. (3,600 kg) 8,160 lb. (3,700 kg)	9,480 lb. (4,300 kg) 10,145 lb. (4,600 kg)

• Specifications are subject to change without notice for further design improvements.

**MODEL SELECTION:**

S Semi-auto feed, hydraulic traverse.

NC NC computer controlled with conversational operation control for easy setup and grinding convenience, servo motor auto infeed, and hydraulic traverse

**STANDARD MACHINE ACCESSORIES**

➤ Grinding wheel & flange	➤ Wheel balancing stand & arbor
➤ Semi-closed splash guard	➤ Coolant system
➤ Diamond tool holder	➤ Hydraulic pump with tank
➤ Carbide tipped work centers	➤ Halogen work light

**OPTIONAL MACHINE ACCESSORIES**

➤ Internal grinding attachment	➤ Radius truing device
➤ 2 or 3-point steady rest	➤ Magnetic coolant separator
➤ 3 or 4-jaw chuck	➤ Paper filter w/ coolant separator
➤ Angular truing device	➤ Wheel forming device



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