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Product Range

- Centerless Grinder
- NC Centerless Grinder
- CNC Centerless Grinder
- High Speed Centerless Grinder
- Precision Universal Cylindrical Grinder
- NC Universal Cylindrical Grinder
- CNC Universal Cylindrical Grinder
- CNC Vertical Composite Grinder
- NC Internal Grinder
- CNC Internal Grinder
- Surface Grinder



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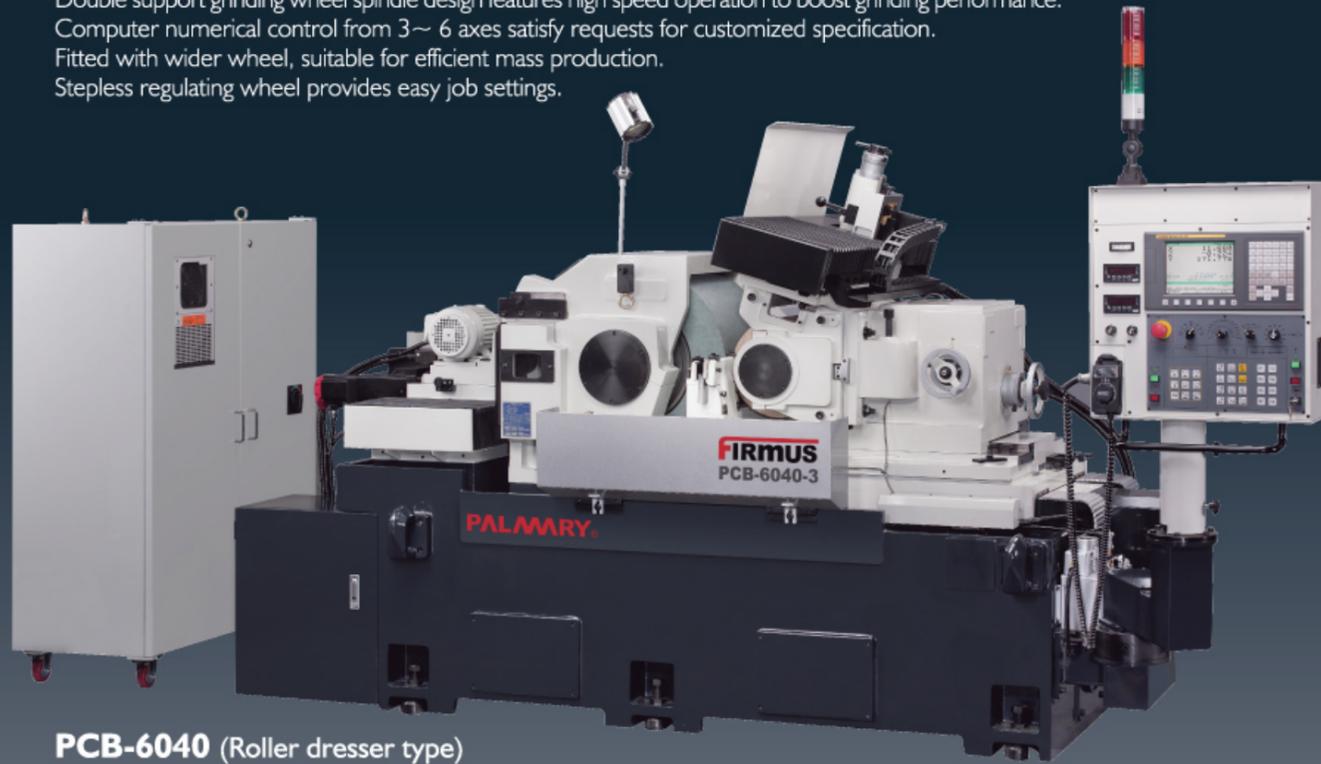
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**PALMARY MACHINERY CO., LTD.**

# Persistent in Rigidity

## Super rigid structure, stable without deformation

Double support grinding wheel spindle design features high speed operation to boost grinding performance. Computer numerical control from 3~ 6 axes satisfy requests for customized specification. Fitted with wider wheel, suitable for efficient mass production. Stepless regulating wheel provides easy job settings.



PCB-6040 (Roller dresser type)

### Grinding Wheel Side



- The double support bearing type spindle offers even grinding force distribution on the contact surface. During grinding the stress is even on two ends to avoid taper shaped work pieces.



- Diamond roller dressing device can be attached to the double support wheel unit, features stable dressing, reducing dress worn out. (Special Type, Optional)



- Oil mist lubrication device aids wheel spindle lubrication, clean and constant temperature.

### Regulating Wheel Side



- Instead of using hydraulic driving system, the regulating wheel is driven by linear motor. This improves dressing speed and stable control.



- Adjustable worm shaft eliminates the gap, increases transmission efficiency and lifetime.

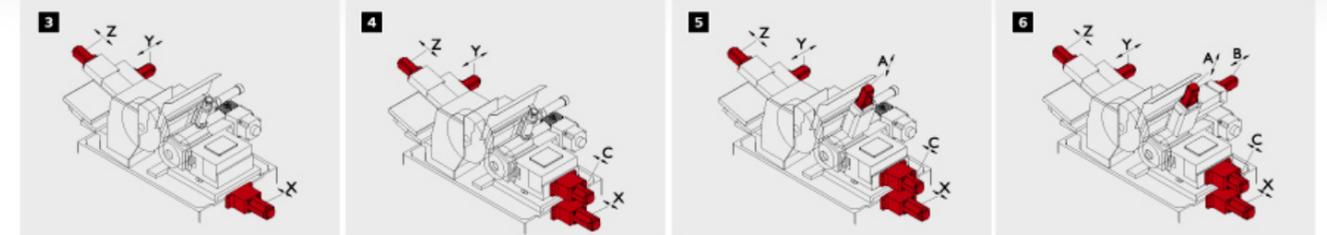


- The one "V" & one flat feeding slide design reinforces the feeding stability. The entire feeding slide is hand scrapped to reduce friction and to increase accuracy of job movement.

### Example of Grinding Workpiece



### Axial Combination:



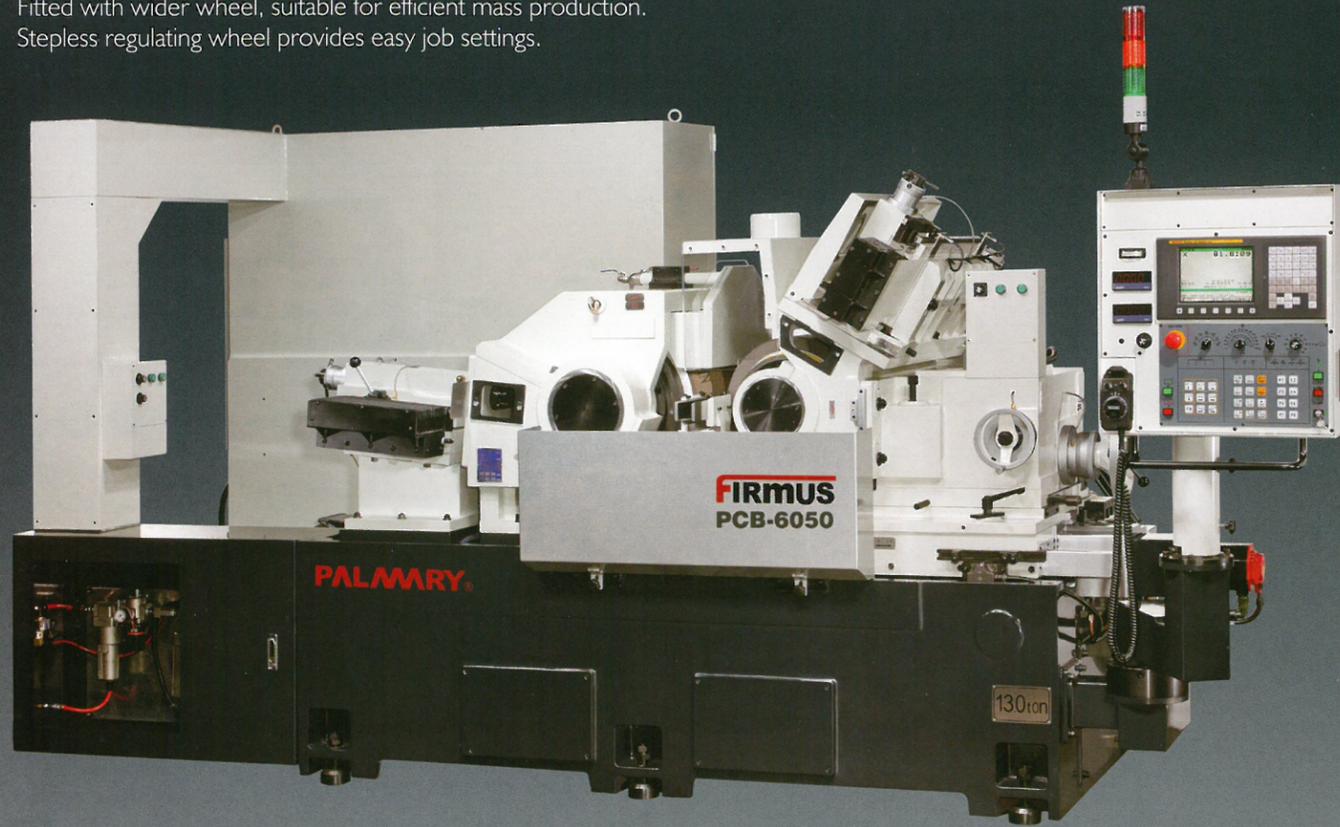
Specification	Model	PCB-6030	PCB-6040
Capacity	Max. workpiece O.D.	Ø150 mm	
Grinding Wheel	Wheel size (O.D. x W x I.D.)	Ø610 x 305 x 304.8 mm	Ø610 x 405 x 304.8 mm
	Wheel speed	3000 m/min	
	Drive motor	30HP x 4P (22.5 kw)	40HP x 4P (30 kw)
Regulating Wheel	Wheel size (O.D. x W x I.D.)	Ø355 x 305 x Ø203.2 mm	Ø355 x 405 x Ø203.2 mm
	Wheel speed	10~300 rpm (Stepless)	
	Drive motor	5.0kw Servo motor	
	Tilting angle	+5°~ -2°	
	Rotating angle	+2°~ -2°	
Dressing	Rotating angle of dressing device	+5°~ -5°	
	Dressing type	Single point type dressing device / Roller type dressing device (Special Type, Optional)	
Drive Motor	Hydraulic pump	1/4 HP x 4 P (0.18 kw)	
	Coolant pump	1 HP x 2 P (0.75 kw)	
	R. W. Dressing	MSS425-412W2E (25 w)	
Controller	Brand of control system	SIEMENS / FANUC / MITSUBISHI	
Stroke	Feeding	200 mm	
	Regulating wheel slide	120 mm	
Tank	Oil tank capacity	24L	
	Coolant tank capacity	140L	
Dimension	L x W x H	3015 x 2205 x 2045 mm	
	Net weight	6300 kgs	6500 kgs

3 ~ 6 axes CNC control available upon request.

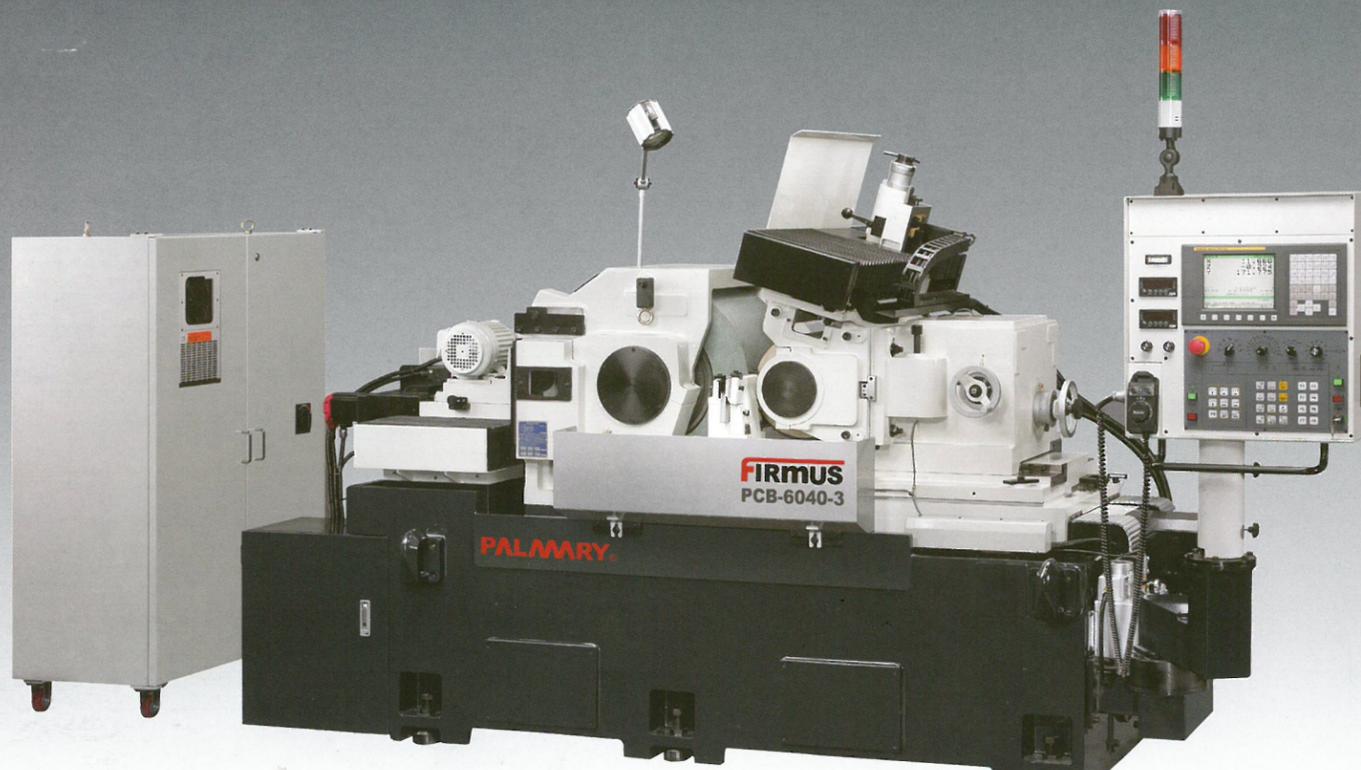
# Persistent in Rigidity

## Super rigid structure, stable without deformation

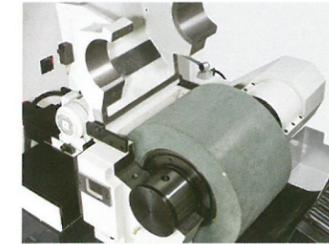
Double support grinding wheel spindle design features high speed operation to boost grinding performance. Computer numerical control from 1 ~ 6 axes satisfy requests for customized specification. Fitted with wider wheel, suitable for efficient mass production. Stepless regulating wheel provides easy job settings.



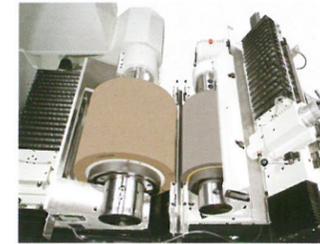
PCB-6050 (Roller dresser type)



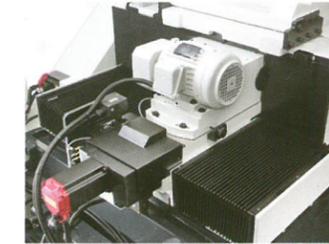
### Grinding Wheel Side



- The double support bearing type spindle offers even grinding force distribution on the contact surface. During grinding the stress is even on two ends to avoid taper shaped work pieces.



- Double support bearing type grinding wheel spindle and regulating wheel spindle can support big and wide grinding wheel. The grinding wheel cover is lifted type. (PCB-6050/6060)

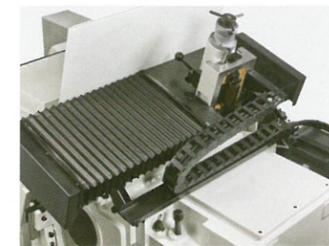


- Diamond roller dressing device can be attached to the double support wheel unit, features stable dressing, reducing dress worn out. (Special Type, Optional)

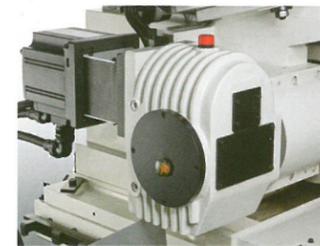


- Oil mist lubrication device aids wheel spindle lubrication, clean and constant temperature.

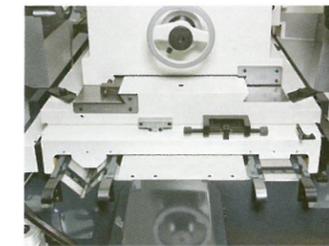
### Regulating Wheel Side



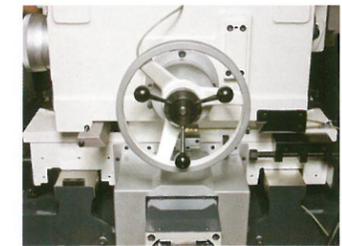
- Instead of using hydraulic driving system, the regulating wheel is driven by linear motor. This improves dressing speed and stable control.



- Adjustable worm shaft eliminates the gap, increases transmission efficiency and lifetime.

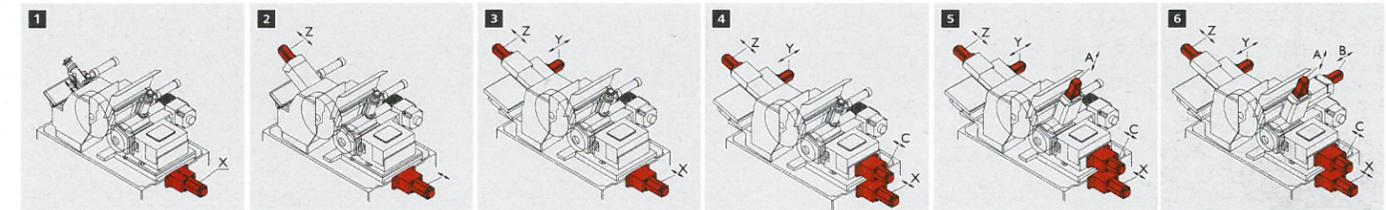


- The one "V" & one flat feeding slide design reinforces the feeding stability. The entire feeding slide is hand scrapped to reduce friction and to increase accuracy of jog movement.



- Double flat slide construction and the feedback from linear scale accomplish high accuracy in-feed. Standard load is with high precision reducer. (PCB-6050/6060)

### Axial Combination:



Specification	Model	PCB-6030	PCB-6040	PCB-6050	PCB-6060
Capacity	Max. workpiece O.D.	Ø150 mm			
Grinding Wheel	Wheel size (O.D. x W x I.D.)	Ø610x305xØ304.8	Ø610x405xØ304.8	Ø610x510xØ355.6	Ø610x610xØ355.6
	Wheel speed	3000 m/min			
	Drive motor	30HPx4P (22.5kw)	40HPx4P (30kw)	50HPx4P (37.5kw)	50HPx4P (37.5kw)
	Dressing Device	Single point type dressing device / Roller type dressing device (Special Type, Optional)			
Regulating Wheel	Wheel size (O.D. x W x I.D.)	Ø355x305xØ203.2	Ø355x405xØ203.2	Ø405x510xØ254	Ø405x610xØ254
	Wheel speed	10~300 R.P.M			
Feeding Device	Drive motor	5 kw Servo Motor			
	Lower Slide of Adjusting Wheel	CNC I Axis Control (with optical scale's feedback)			
	Hydraulic pump	1/4 HP x 4P (0.18kw)			
Drive Motor	Coolant pump	1 HP x 2P (0.18kw)			
	R. W. Dressing	MSS425-412W2E (25w)		PK5913AE (1.4A)	
	Brand of control system	FANUC Oi-TD			
Dimension	L x W x H	3015 x 2205 x 2045		3770 x 2720 x 2045	
	Net weight	6800 kgs	7000 kgs	12800 kgs	13000 kgs
Special Features	CNC I - 6 Axes control • Various Automation Devices • Various Automatic Loading / Unloading Devices Various Cooling Devices • Work Rest for Large Dia. or Extra Long Workpieces				