PALMARY PRODUCTS

- Centerless Grinder
- · Cylindrical Grinder
- Internal Grinder
- Vertical Grinder
- Surface Grinder
- Special Purpose Grinder





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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 $1\sim 6$ axes satisfy requests for customized specification. Fitted with wider wheel, suitable for efficient mass production.



PCB-6050 (Roller dresser type)



PCB-6040 (Roller dresser type)

Grinding Wheel Side



 The double support bearing type spindles offer even grinding force 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 only)



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



The oil mist lubrication is arranged for grinding wheel spindle lubrication, also help to clean and constant temperature control.

Regulating Wheel Side



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



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

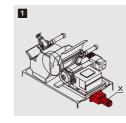


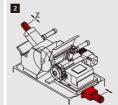
 The one "V" & one flat feeding slide design reinforces the feeding stability. The entire feeding slide is hand scrapped to reduce friction and to increase accuracy of jog movement.

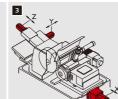


 Double flat slide construction and the feedback from linear scale accomplish high accuracy in-feed. Standard load is with high precision reducer. (PCB-6050/6060 only)

Axial Combination:

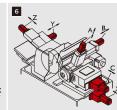












Specification	Model	PCB-6030	PCB-6040	PCB-6050	PCB-6060
Capacity	Max. workpiece O.D.	Ø150 mm			
Grinding Wheel	Wheel size (O.D. x W x I.D.)	Ø610x305xØ304.8mm	Ø610x405xØ304.8mm	Ø610x510xØ355.6mm	Ø610x610xØ355.6mm
	Wheel speed	3000 m/min			
	Drive motor	30HPx4P (22.kW)	40HPx4P (30kW)	50HPx4P (37.5kW)	50HPx4P (37.5kW)
	Dressing Device	Single point type dressing device / Roller type dressing device (Special Type, Opt.)			
Regulating Wheel	Wheel size (O.D. x W x I.D.)	Ø355x305xØ203.2mm	Ø355x405xØ203.2mm	Ø405x510xØ254mm	Ø405x610xØ254mm
	Wheel speed	10~300 r.p.m.			
	Drive motor	5 kw Servo Motor			
Feeding Device	R.W. lower slide infeed	CNC Axis Control (with optical scale's feedback)			
Drive Motor	Coolant pump	I HP x 2P (0.18kW)			
	R. W. Dressing	RK5913ACE			
Controller		FANUC			
Dimension	LxWxH	3015 x 2205 x 2045		3770 x 2720 x 2045	
	Net weight	6800 kg	7000 kg	12800 kg	13000 kg
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			

I \sim 6 axes CNC control available upon request.

^{*} The mentioned specifications & dimensions are subject to change without notice.