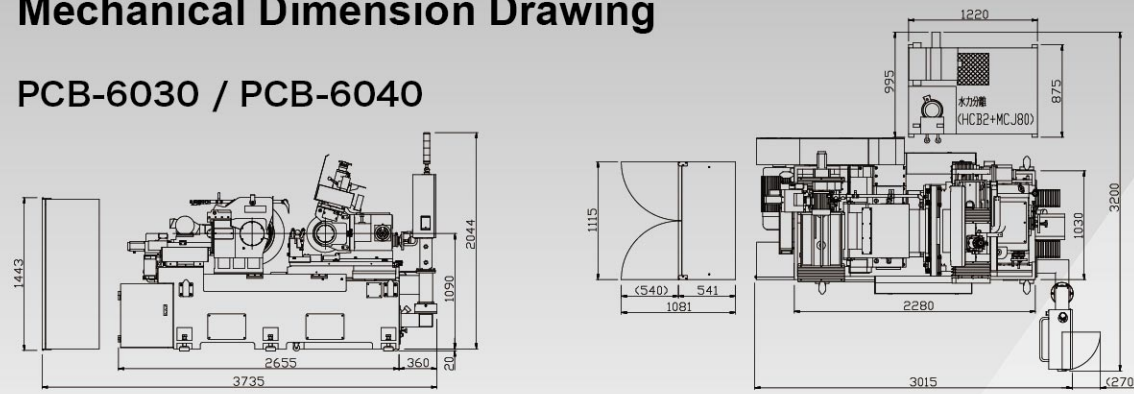
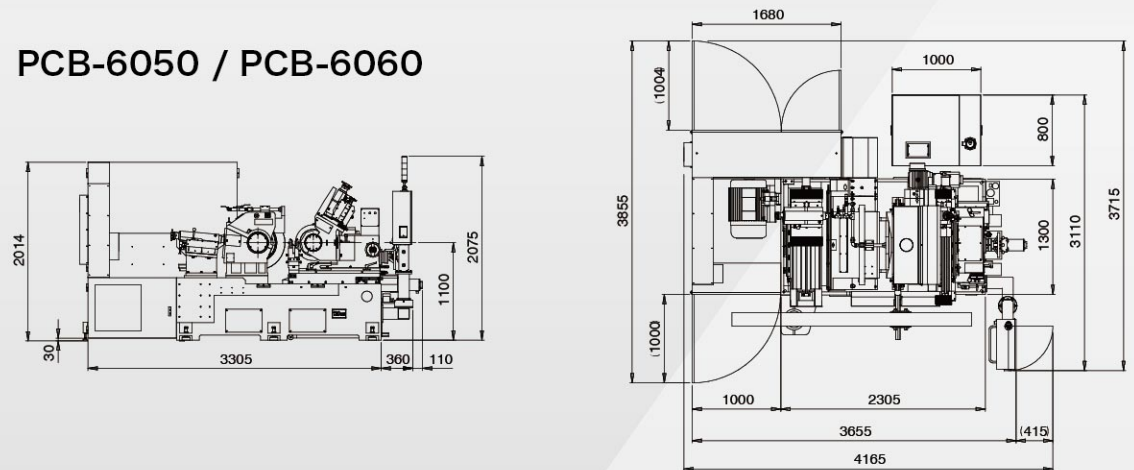


## Mechanical Dimension Drawing

### PCB-6030 / PCB-6040



### PCB-6050 / PCB-6060



#### STANDARD ACCESSORIES

- FANUC CNC controller x 1
- Grinding wheel x 1
- Regulating wheel x 1
- Grinding flange (one-piece formed with spindle) x 1
- Regulating flange (one-piece formed with spindle) x 1
- Infeed work rest with carbide blade x 1
- Thrufeed work rest with carbide blade x 1
- Coolant system x 1
- Lubrication system for spindle X1
- Diamond tools x 2
- Work lamp x 1
- Tools and tool box x 1

#### SPECIAL ACCESSORIES

- Diamond roller device
- Diamond roller
- Grinding wheel exchanger
- Jib crane for grinding wheel change
- Vibration meter for manual grinding wheel balancing
- Magnetic coolant separator
- Paper filter
- Hydrocyclone coolant separator
- Oil mist collector
- Water cooler

#### PALMARY PRODUCTS

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

# PALMARY

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# PALMARY

## CNC CENTERLESS GRINDER BEARING TYPE

PALMARY  
PCB-6040

# PALMARY MACHINERY CO., LTD.



### High Precision Great Rigidity Superb Performance

#### CNC Centerless Grinding Machine -Bearing Spindle Type

Adopting the spindle design of "ultra-precision composite roller bearing" to enhance the grinding rigidity and reduce the use of lubrication for is environmentally friendly

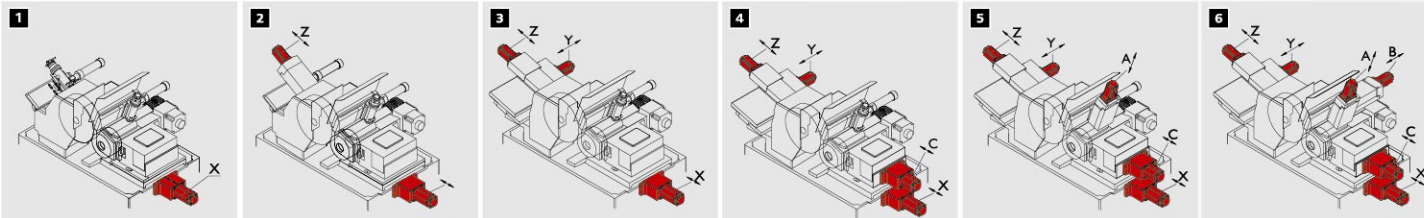


**PCB-6040**  
(Roller dresser type)



**PCB-6050**  
(Roller dresser type)

1 ~ 6 axes CNC control available upon request.



#### Machine features

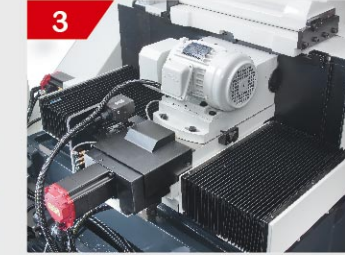
##### Grinding Wheel Side



The double support bearing type grinding 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 and wheel box design could improve the gap and increase 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)

#### Specification

Model	PCB-6030	PCB-6040	PCB-6050	PCB-6060
Capacity	Max. workpiece O.D. Ø1 mm ~ Ø150 mm		Ø1 mm ~ Ø150 mm	
	Size (O.D. x width x I.D.) Ø610x305xØ304.8 mm		Ø610x405xØ304.8 mm	Ø610x510xØ355.6 mm
	Ø610x610xØ355.6 mm		Ø610x610xØ355.6 mm	
Grinding	Linear velocity 45 m/s			
Wheel	Motor 30HP x 4P (22 kw)	40HP x 4 P (30 kw)	50HP x 4P (37 kw)	50HP x 4P (37 kw)
	Dressing device Single point type / Roller type (Opt.)			Single-point type
	Size (O.D. x width x I.D.) Ø355x305xØ203.2 mm		Ø355x405xØ203.2 mm	Ø405x510xØ254 mm
	Ø405x610xØ254 mm		Ø405x610xØ254 mm	
	Speed 10 ~ 200 R.P.M.		10 ~ 200 R.P.M.	
	Motor 5 kw Servo motor		5 kw Servo motor	
Regulating	Tilt angle +5° ~ -1°		± 5°	
Wheel	Swivel angle ± 2°		± 2°	
	Swivel angle of dressing device ± 5°		± 5°	
	OFFSET of dressing device 0-15 mm		0-20 mm	
	X=150 mm		X=150 mm	
	Z=70 mm		Z=80 mm	
Traverse	A=40 mm		A=50 mm	
	B=470 mm		B=660 mm	
	C=120 mm		C=120 mm	
	Y=430 mm		Y=660 mm	
Motor	Coolant pump 1HP x 2P ( 0.75 kw)		1HP x 2P ( 0.75 kw)	
Lubrication	Automatic oiling machine		Automatic oiling machine	
Machine weight	Net weight 6800 kg	7000 kg	12800 kg	13000 kg

\* The mentioned specifications & dimensions are subject to change without notice.