

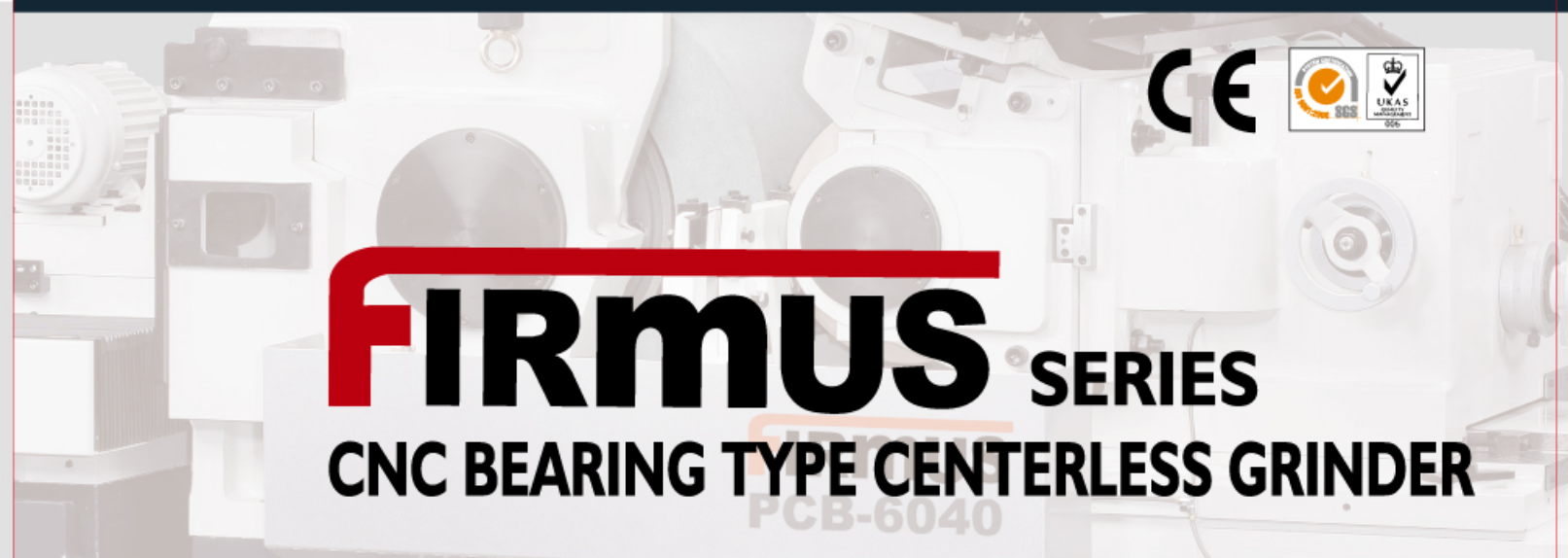
## Sales Network All Over the World



- |             |              |
|-------------|--------------|
| South Korea | USA          |
| Japan       | Mexico       |
| Taiwan      | Costa Rica   |
| China       | Brazil       |
| (Taiwan)    | Colombia     |
| (Hong Kong) | Argentina    |
| Egypt       |              |
| Thailand    | UK           |
| Malaysia    | Germany      |
| Singapore   | Italy        |
| Philippines | Switzerland  |
| Vietnam     | India        |
| Indonesia   | Russia       |
| Sri Lanka   | Poland       |
| Turkey      | Czech        |
| Pakistan    | France       |
| Belgium     | Bulgaria     |
| Slovenia    | Hungary      |
|             | Portugal     |
|             | South Africa |
|             | Australia    |
|             | New Zealand  |
|             | Isreal       |
|             | Jordan       |

### 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



# FIRMUS<sup>®</sup> SERIES

## CNC BEARING TYPE CENTERLESS GRINDER



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 Email: [daikingseiki@yahoo.com.cn](mailto:daikingseiki@yahoo.com.cn)  
<http://www.grinding.com.tw>

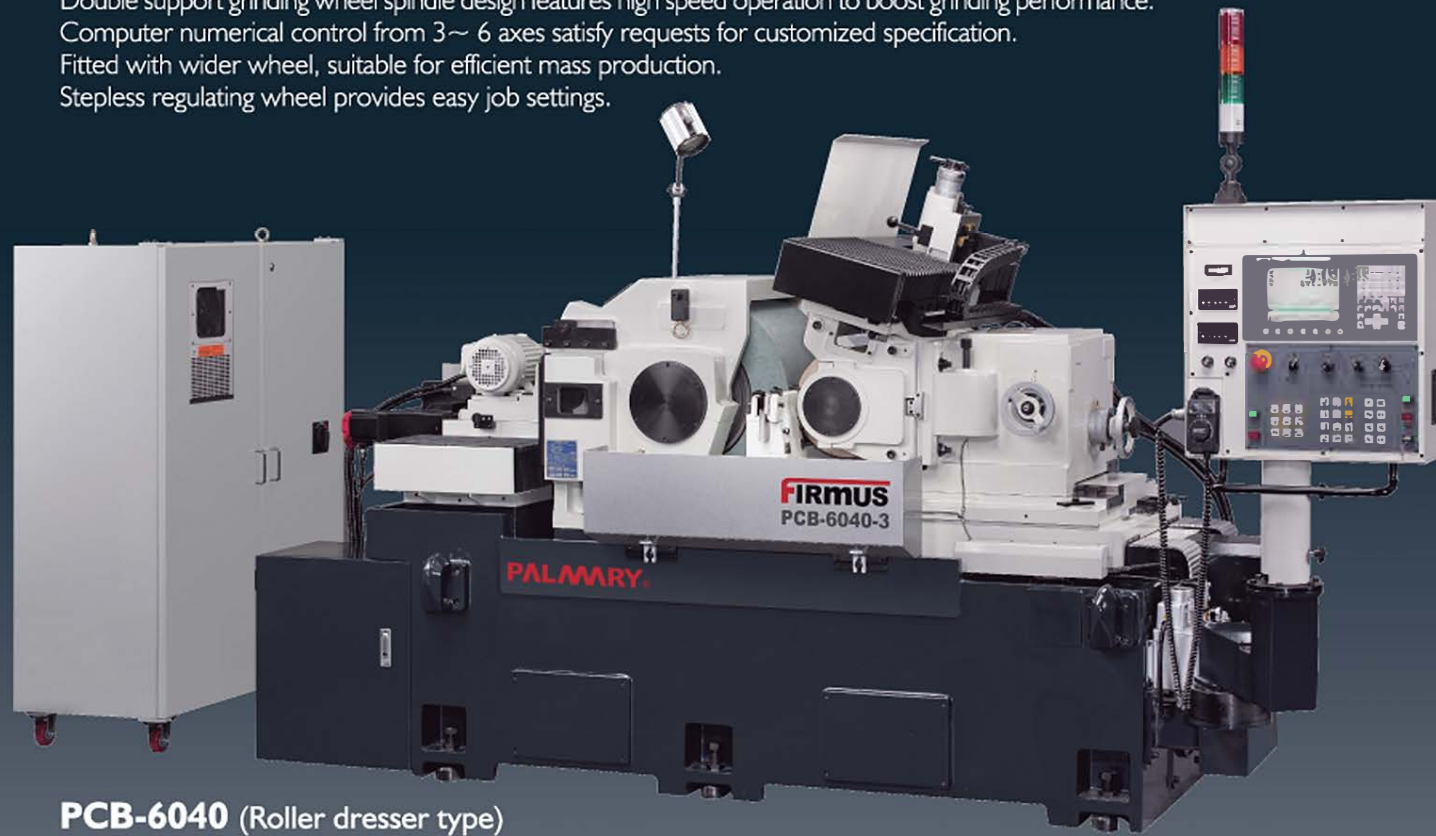
**PALMARY MACHINERY CO., LTD.**



# 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.

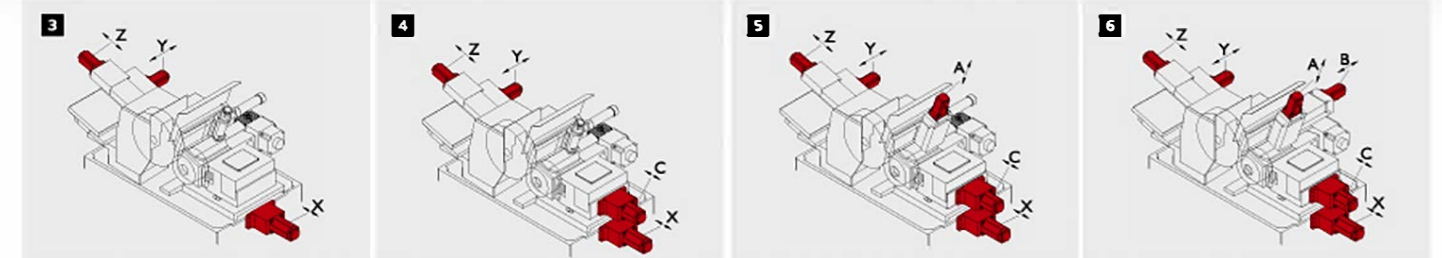


● The one "V" & one flat feeding slide design reinforces the feeding stability. The entire feeding slide is hand scrapped to reduce friction and to increase accuracy of jog movement.

### 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	MSS425-41 2W2E (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	
	Netweight	6300 kgs	6500 kgs

3 ~ 6 axes CNC control available upon request.