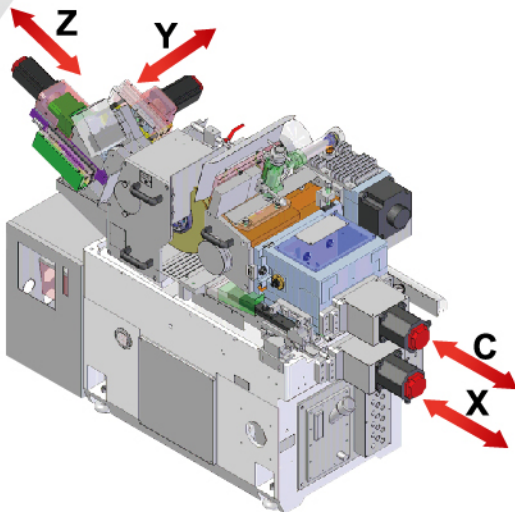


# CNC BEARING TYPE CENTERLESS GRINDER

**PALMARY**  
PALMARY MACHINERY CO., LTD.

With a highly experienced design and manufacturing background in centerless grinders, PALMARY present the new bearing type CNC centerless grinder. It is designed and engineered to offer the operational performance & higher accuracy you've come to expect.

**PCB-14-4**



## PCB-14-4 4-AXIS FUNCTIONS

- Z axis** Automatic wheel dressing (Vertical axis)  
β4-4000 (0.75 kW)
- Y axis** Automatic wheel dressing (Horizontal axis)  
β4-4000 (0.75 kW)
- C axis** Upper slide automatic feed for regulating wheel  
β8-3000 (1.2 kW)
- X axis** Lower slide automatic feed for regulating wheel  
β8-3000 (1.2 kW)

## FEATURES

### DIAMOND ROLLER DRESSING DEVICE (opt.)

- Designed with a jointing type dressing roller to upgrade wheel dressing efficiency and shorten dressing time.
- Maximum running speed of the diamond roller is 3,000 r.p.m. with reversible running for efficient wheel dressing.
- The diamond roller shaft is lubricated and cooled by a 3-point oil mist lubricator.

### 3-POINT OIL MIST LUBRICATOR

- The lubricator helps to provide stable lubrication and cooling to the grinding wheel, regulating wheel and bearings.

### LINEAR SCALE (opt.)

- With the absolute (ABS) function, no home point setting is required every time when turning power on for upgrading working efficiency.
- Employs absolute type electromagnetically induced detection.

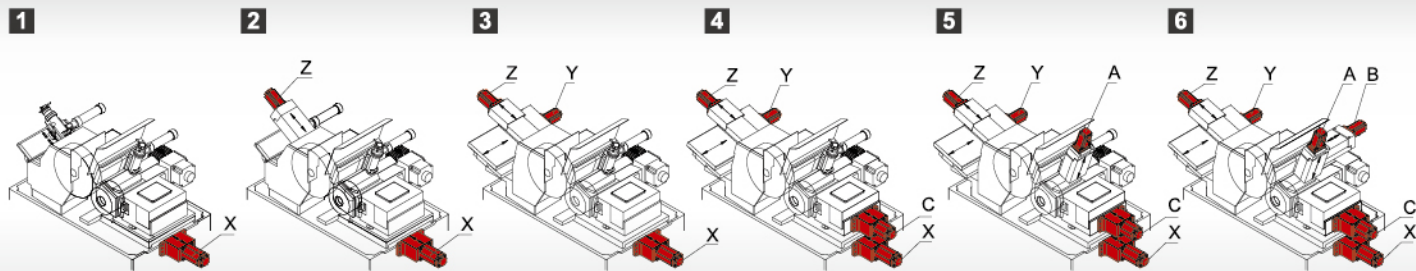
### CLIP TYPE AUTO LOADING EQUIPMENT (opt.)

- The clip type mechanism design increases parts feeding efficiency and saves time by manual parts loading.
- The servo motor that drives the upper screw for automatic feed enables fast tool retraction and parts unloading motions.

### ALUMINUM EXTRUSION ENCLOSED SPLASH GUARD (opt.)

- The simple design enclosed splash guard helps to separate dust fog, easy for maintenance & load/unload workpiece.

## AXIS APPLICATIONS FOR DIFFERENT REQUIREMENTS

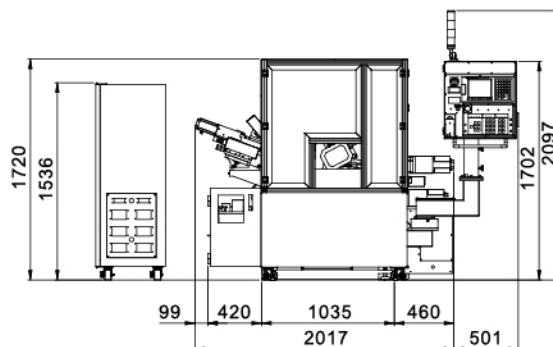
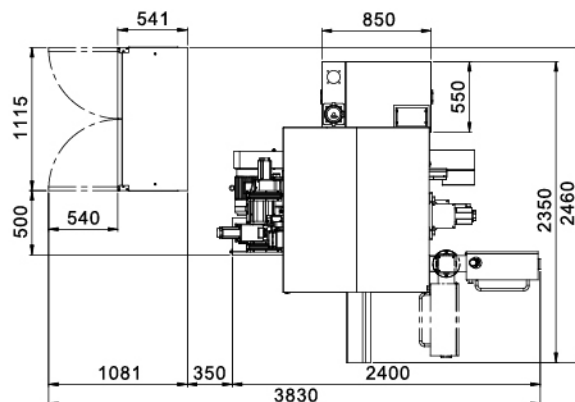


### SPECIFICATIONS

### PCB-14-4

Capacity	
Grinding range (dia.)	Ø1~40 mm
Grinding Wheel	
Grinding wheel size (O.D. x Width x I.D.)	Ø355 × 125 × Ø127 mm
Linear velocity	2700 M/min
Grinding wheel motor	7.5 HP × 4P
Regulating Wheel	
Regulating wheel size (O.D. x Width x I.D.)	Ø255 × 125 × Ø127 mm
Regulating wheel speed	10~300 r.p.m. (variable)
Regulating wheel motor	2.0 kW servo motor
Regulating wheel tilt angle	-3°~+5°
Regulating wheel swivel angle	±5°
Dressing Device	
Dressing way of grinding wheel	Single-point dressing device / diamond roller dressing device (opt.)
Hand Wheel	
Trimming device graduation	2 mm/rev.; 0.01 mm/graduation
Drive Motors	
Upper slide feed motor (C axis)	1.2 kW servo motor
Lower slide feed motor (X axis)	1.2 kW servo motor
Micro feed motor (Y axis traverse)	0.75 kW servo motor
Micro feed motor (Z axis infeed)	0.75 kW servo motor
Hydraulic pump motor	1 HP x 4P
Coolant pump motor (standard coolant tank)	1/8 HP x 2P
Gross weight	2570 kg

(unit: mm)



### PALMARY MACHINERY CO., LTD.

No. 77, Gongye Rd., Dali Dist., Taichung City 41280, Taiwan.

Tel: +886-4-2492-9799 Fax: +886-4-2492-9499

E-mail: palmary@grinding.com.tw

http://www.grinding.com.tw

