

CNC CENTERLESS GRINDER

BEARING SPINDLE TYPE

PALMARY
PALMARY MACHINERY CO., LTD.

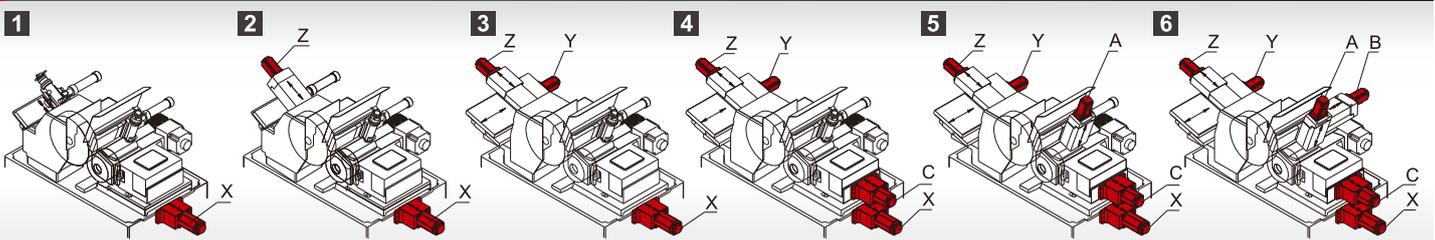
With a highly experienced design and manufacturing background in centerless grinders, PALMARY present the new bearing type CNC centerless grinder.

It is designed and engineered to offer the operational performance & higher accuracy you've come to expect.

PCB-3010-6



AXIS APPLICATIONS FOR DIFFERENT REQUIREMENTS



FEATURES

- High precision and rigidity structure design**
 Slide is constructed by square slide with needle roller bearing to elevate resisting force while grinding and featured in micro infeed.
- Spindle included high precision duplex roller bearing**
 High rigidity single supporting design to accomplish high precision and stability of grinding job.
- CNC 6 axes operation**
 6-axes included Z/Y axes grinding wheel auto dressing & compensation, A/B axes for the regulating wheel auto infeed & auto micro infeed, Y axis included lower slide auto. infeed, C axis regulating wheel upper slide auto. infeed, for the small precision workpiece grinding requirement.
- CNC 4-axes control of gantry loader**
 Graphic interface for easy and quick setting. Save adjusting time for changeover. Increase productivity.

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SPECIFICATIONS

PCB-3010-6

MODEL	PCB-3010-6	
Capacity	Grinding range	Ø0.3 ~ Ø25 mm
	Grinding wheel size (O.D. x width x I.D.)	Ø305 x 100 x Ø177.8 mm
Grinding wheel	Grinding wheel linear velocity	45 m/s
	Dressing device	Single-point dressing device
Regulating wheel	Regulating wheel size (O.D. x width x I.D.)	Ø205 x 100 x Ø90 mm
	Regulating wheel speed	10 ~ 200 r.p.m. (variable)
	Regulating wheel motor	2.0 kW servo motor
	Regulating wheel tilt angle	±5
	Regulating wheel swivel angle	±0.5°
	Dressing device swivel angle	± 5°
	Dressing device OFFSET	0 ~ 5 mm
Max. traverse	X axis	100 mm
	C axis	60 mm
	Z axis	45 mm
	Y axis	120 mm
	A axis	35 mm
Motor	B axis	120 mm
	Grinding wheel	3.7 kW
	Regulating grinding wheel	0.75 kW
	Slide lubrication	0.03 kW
	Coolant pump	0.093 kW (wheel/dressing cooling)
Capacity	Coolant tank	100 L
	Grinding wheel spindle lubrication system	1.0 L
	Table slide lubrication system	4.0 L
Machine weight	Net weight	2,100 kg

STANDARD ACCESSORIES

- FANUC CNC controller x 1
- Grinding wheel with a flange x 1
- Regulating wheel with a flange x 1
- Infeed work rest with a carbide blade x 1
- Thrufeed work rest with a carbide blade x 1
- Diamond tools x 2
- Coolant tank with pump x 1
- Lubrication system for spindles x 1
- Work lamp x 1
- Tool box and kits x 1

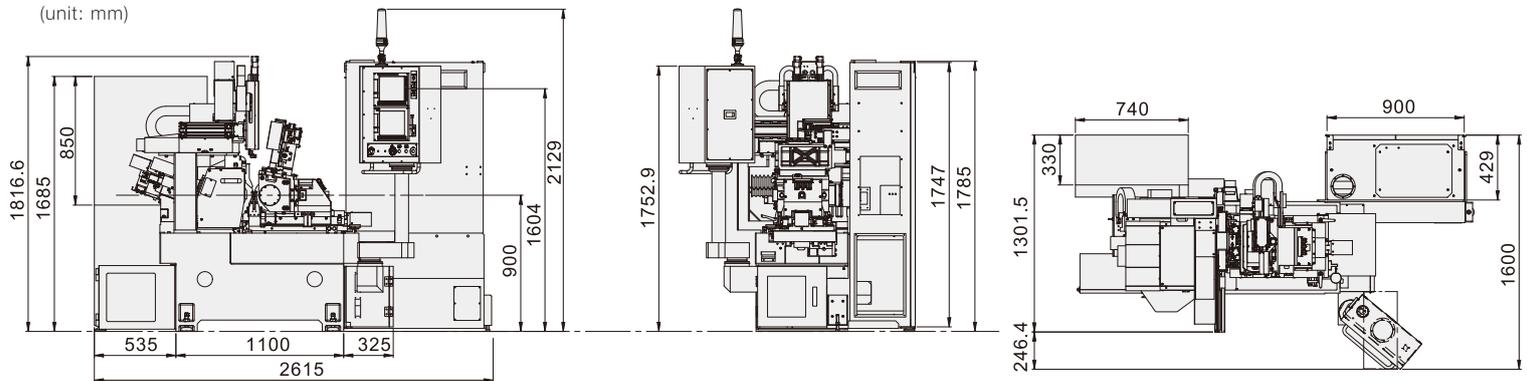
OPTIONAL ACCESSORIES

- Fully enclosed splash guard
- Wheel balance stand and arbar
- Linear scale
- Automatic loading and unloading system
- Magnetic coolant separator
- Paper filter
- Chiller for coolant tank
- Hydrocyclone coolant separator
- Oil mist collector
- Auto. in-process gauge

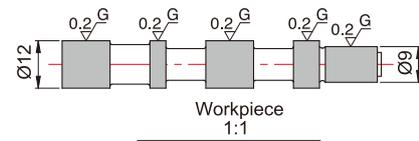
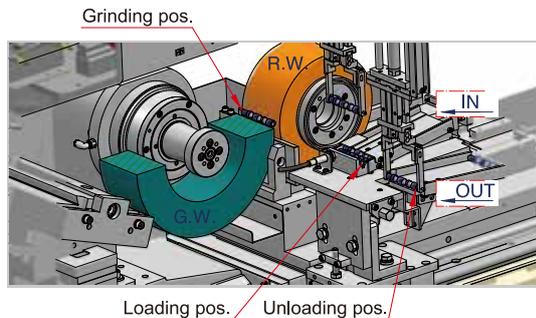
• The mentioned specifications & dimensions are subject to change without notice.

MACHINE DIMENSIONS

(unit: mm)



GRINDING EXAMPLE



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