

**PALMARY**

PALMARY MACHINERY CO., LTD.

# CNC CYLINDRICAL GRINDER

## Special Purpose Grinder for Spindle

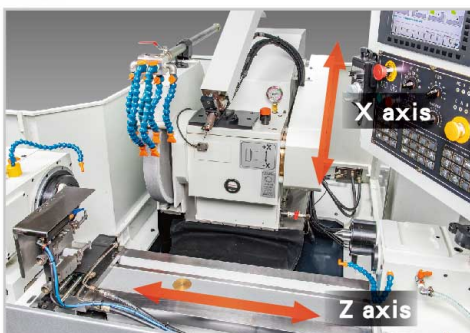
CNC cylindrical grinder special designed for spindle grinding. The advanced machine structure with a special grinding wheel spindle design, enhances the whole rigidity of the machine, and makes the grinding workpiece of spindle faster, more accurate and more stable.

Equipped with an advanced CNC control and conversational programming, it features operator-friendly operation with maximum control convenience.

**OCD-32100E**

### FEATURES

- **HIGH PRECISION AND HIGH RIGIDITY MACHINE STRUCTURE DESIGN**  
Advance the machine design structure. The lower center of gravity of the bed reinforces the machine rigidity.
- **FULLY ENHANCE THE CUTTING FORCE AND GRINDING EFFICIENCY**
  - The rigidity of the grinding wheel spindle is comprehensively improved.
  - The grinding wheel spindle with hydro-static bearing. No friction between metals, maximum wear resistance and enhance the lifetime.
  - Enlarge the spindle pitch and grinding wheel motor, enhance the grinding efficiency and shorten cycle time.
- **FULLY-CLOSED HYDROSTATIC SLIDE ADVANCES THE LOADING CAPACITY**
  - The slide is widened and thickened designed with fully-closed hydrostatic.
  - The maximum loading weight of the workpiece is 500KGS.
- **THE STROKE OF EACH AXIS IS INCREASED**
  - The X & Z axis strokes are increased to improve the grinding efficiency of the wheel, and to meet the requirement of large-angle grinding.
  - The swiveling angle of the worktable is enlarged, providing the operator with their diversified processing demands.



# CNC CYLINDRICAL GRINDER

## OCD-32100E

### ITEM

<b>Capacity</b>	Swing over table	Ø320 mm
	Max. grinding diameter	Ø280 mm
	Distance between centers	1,000 mm
	Max. load held between centers	500 kg
<b>Grinding Wheel</b>	O.D. x width x I.D.	Ø510 x 50 x Ø203.2 mm
	Linear velocity	45 m/s
<b>Wheelhead (X axis)</b>	Swiveling angle	0° (The upper sliding table is separated from the spindle housing.)
	Rapid speed	6 m/min
	Traverse	400 mm
	Min. Input Increment	0.0001 mm
<b>Table (Z axis)</b>	Swiveling angle	-2° ~ 13°
	Rapid speed	6 m/min
	Traverse	1,400 mm
<b>Workhead</b>	Min. setting unit	0.0001 mm
	Center taper	MT4
	Speed	10 ~ 300 r.p.m.
	Swiveling angle	0° (Fixed type)
<b>Tailstock</b>	Max. load of spindle (tool holder included)	500 kg
	Center taper	MT4
<b>Motor</b>	Tailstock stroke	60 mm
	Wheel spindle	7.5kw (10HPx4P)
	Work spindle	0.75kw (1HPx4P)
	Wheelhead feed	1.8kw (β12-3000is )
	Table feed	1.8kw (β12-3000is )
	Hydraulic pump	0.37kw (1/2HPx2P)
	Wheel spindle lubrication	0.18kw (1/4HPx2P)
	Coolant pump	0.75kw (1HP)
<b>Tank</b>	Coolant tank	250 L
	Hydraulic tank	60L
	Wheel spindle lubrication tank	15 L
<b>Machine weight</b>	Net weight	4,500 kg

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

### STANDARD ACCESSORIES

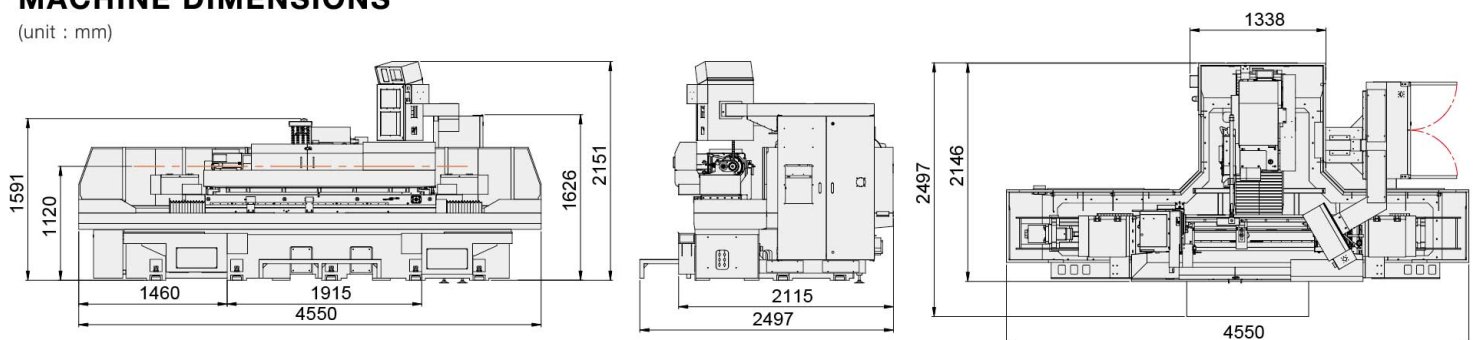
- FANUC CNC controller x 1
- Grinding wheel and grinding wheel flange x 1
- Carbide tipped work centers x 2
- Linear scale (for X axis) x 1
- Diamond tool holder (tailstock mounted type) x 1
- Tailstock with micro correction x 1
- Coolant system x 1
- Hydraulic system x 1
- Work lamp x 1
- Tools and tool box x 1

### OPTIONAL ACCESSORIES

- Fully enclosed splash guard
- Internal grinding attachment
- Cam locked driving dogs (6 pcs/set)
- Work holder (2 pcs/set)
- 2-point steady rest
- Adjustable 3-point steady rest
- Adjustable 3-jaw scroll chuck
- Adjustable 4-jaw chuck
- Hydraulic tailstock
- Wheel balancing stand and arbor
- Spare grinding wheel and grinding wheel flange
- Auto. grinding wheel balancer
- Touch probe gauge
- Auto. in-process gauge
- Magnetic coolant separator
- Paper filter
- Oil mist collector

### MACHINE DIMENSIONS

(unit : mm)



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