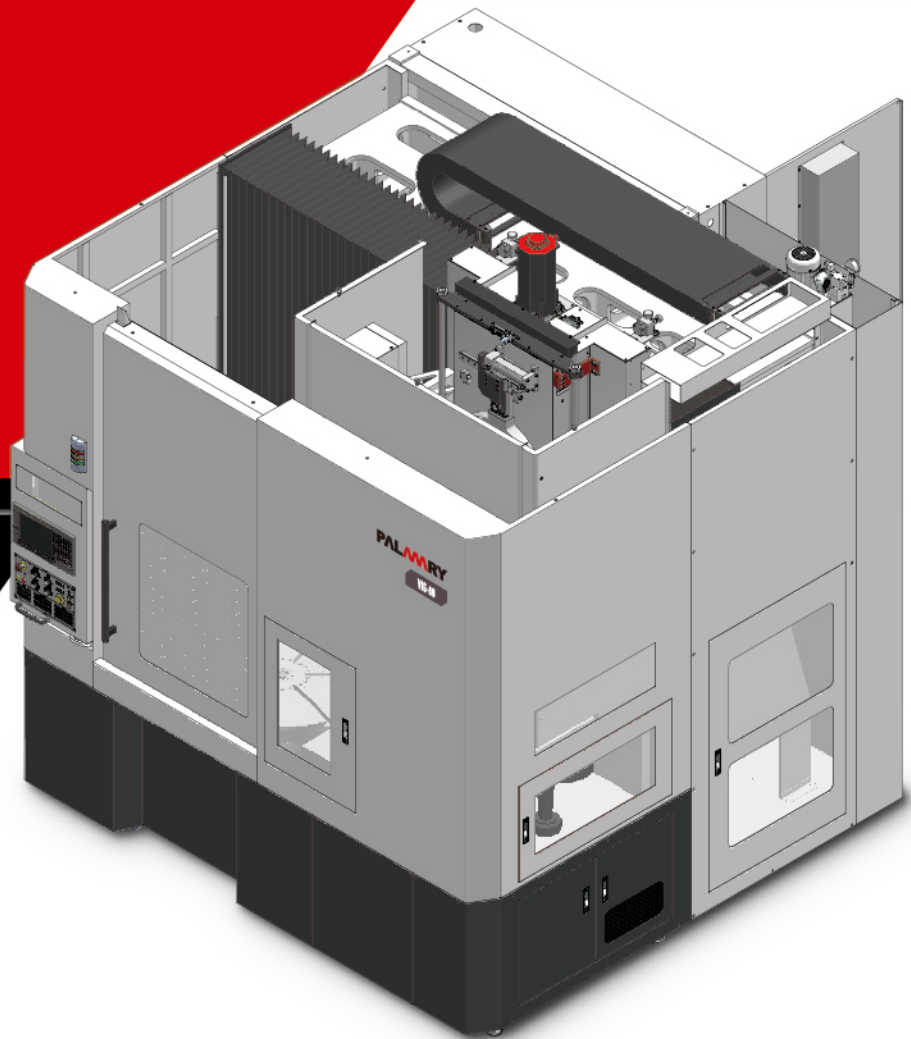


# VERTICAL GRINDER CNC Series

**VIG-80**



Based on PALMARY's tradition of "Pursuing Quality Perfection", combined with human engineering design and peak performance concepts, each machine fully reflects PALMARY's unmatched design and technique.

Honeycomb Tubular type machine structure assures the best possible rigidity and stability. The machine bed is manufactured from high-quality Meehanite cast iron, heat treated and stress relieved for outstanding stability and without deformation.

## FEATURES

- **High rigidity machine bed**  
The design of honeycomb Tubular tubul type machine bed and cross guideway structure for improving the higher rigidity and stability.
- **High grinding efficiency**  
For end face grinding application, the wheel spindle can swivel to 22.5 degrees for easy grinding.
- **Auto. tool change system (ATC)**  
Equipped with max. 6 no. grinding wheels for different diameter or accuracy requirement.
- **High precision**  
The coolant flow has an isolation design from the machine bed and can reduce the heat deformation and dirt contamination on the bed.

**SPECIFICATIONS**

**VERTICAL GRINDER CNC Series**

**VIG-80**

MODEL	VIG-80	
<b>Capacity</b>	O.D. grinding range	Ø50~800 mm
	Max. I.D. grinding length	~Ø225 : 275 mm ; Ø225~ : 500 mm
	Max. O.D. grinding length	500 mm
	Spindle swivel dia.	Ø850 mm
	Max. workpiece length	500 mm
<b>Wheel Spindle</b>	Max. workpiece load	1000 Kg
	Distance between spindle upper side to G.W.	670 mm
	Spindle speed	1800~10000 r.p.m.
	G.W. diameter	Ø65~305 mm
	Max. linear speed	2700 M/min
<b>Work Spindle</b>	Tool holder type	HSK-E100
	Work table size (face plate)	Ø850 mm
	Work spindle speed	15~150 r.p.m.
	X axis traverse	1330 mm
	X axis speed	0~20 M/min
<b>Traverse</b>	X axis MPG each graduation movement	Ø0.0001, Ø0.001, Ø0.05mm
	X axis min. setting unit	Ø0.0001 mm
	Z axis traverse	700 mm
	Z axis speed	0~20 M/min
	Z axis MPG each graduation movement	0.0001, 0.001, 0.05 mm
<b>Motor</b>	Z axis min. setting unit	0.0001 mm
	Work spindle	5.5 kW
	Grinding wheel spindle	18.5 Kw
	X axis	4 kW
	Z axis	4 kW
<b>Power</b>	B axis (ATC)	0.75 kW
	High pressure coolant pump (cleanse bed & wheel spindle, withdraw from coolant tank)	0.375; 2.1 kW; 1.12 kW
	Hydraulic pump	0.375 kW
	Electricity	30 KVA
	Air (work pressure & useful discharge)	0.7 Mpa & 2400 NL/min
<b>Tank Capacity</b>	Coolant tank	1200 L
	Oil tank (hydraulic system)	30 L
	Oil tank (spindle change)	12 L
	Oil tank (spindle cooler)	45 L
	Slider lubrication	0.7 L
<b>Controller</b>	GW spindle lubrication	1.8 L
		FANUC
<b>Machine Dimensions</b>	L x W x H	3070 x 4527 x 3545 mm
<b>Machine Weight</b>	Net weightCapacity	13000 Kg

**STANDARD ACCESSORIES**

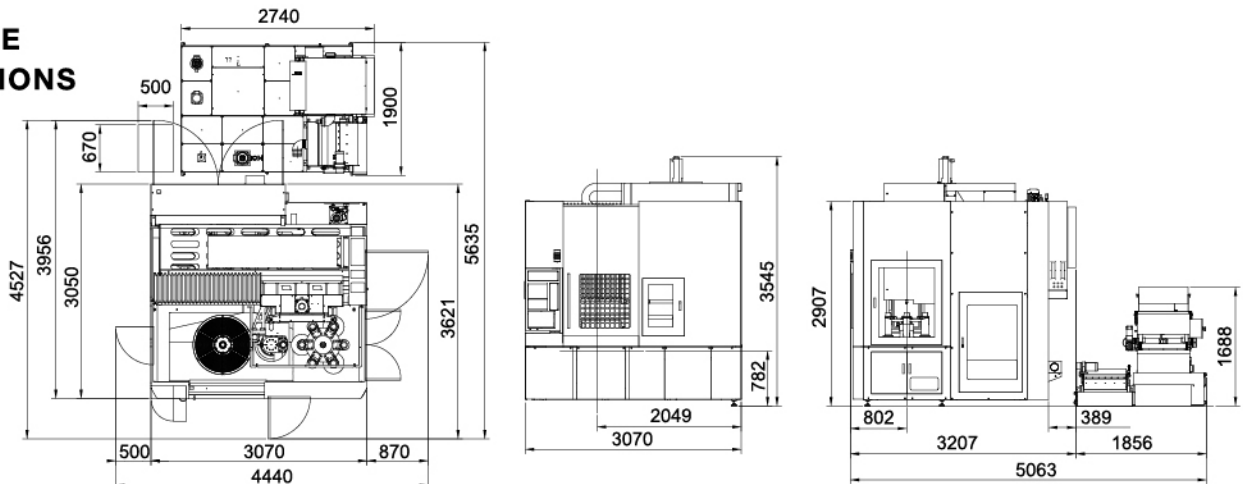
- FANUC CNC controller (included current gap control function) x 1
- Fully enclosed splash guard x 1
- Grinding wheel x 4
- Single point diamond dresser x 1
- Hydraulic system x 1
- Coolant system x 1
- Electric system x 1
- Full-close loop digital scale (for X & Z axes) x 2
- Build-in type Wheel spindle x 1
- Wheel spindle oil cooler system x 1
- ATC system (auto. tool change system, max. 6 no. wheels) x 1
- Standard HSK-E100 tool x 4
- Ø850 mm face plate x 1
- Wheel balancing stand x 1
- Tools and tool box x 1

**OPTIONAL ACCESSORIES**

- Ø800 mm magnetic chuck with demagnetizer
- Special chuck (individual design)
- Roller dressing device
- Magnetic coolant separator
- Paper filter
- Hydrocyclone coolant separator
- Chiller for coolant tank

**MACHINE DIMENSIONS**

(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 www.palmary.com

