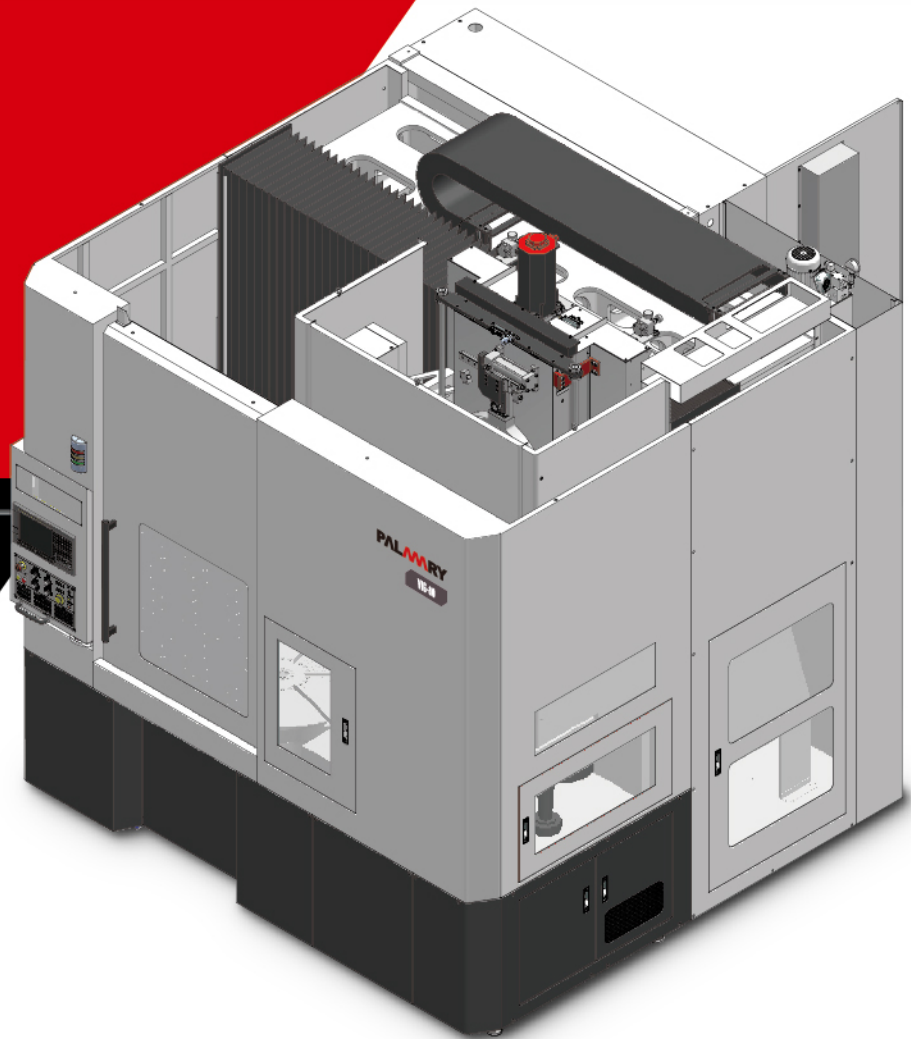


VERTICAL GRINDER CNC Series

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 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
Capacity	O.D. grinding range $\varnothing 50 \sim 800$ mm
	Max. I.D. grinding length $\sim \varnothing 225 : 275$ mm ; $\varnothing 225 \sim : 500$ mm
	Max. O.D. grinding length 500 mm
	Spindle swivel dia. $\varnothing 850$ mm
	Max. workpiece length 500 mm
Wheel Spindle	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 $\varnothing 65 \sim 305$ mm
	Max. linear speed 2700 M/min
Work Spindle	Tool holder type HSK-E100
	Work table size (face plate) $\varnothing 850$ mm
	Work spindle speed 15~150 r.p.m.
	X axis traverse 1330 mm
	X axis speed 0~20 M/min
Traverse	X axis MPG each graduation movement $\varnothing 0.0001, \varnothing 0.001, \varnothing 0.05$ mm
	X axis min. setting unit $\varnothing 0.0001$ 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
Motor	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
Power	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
Tank Capacity	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
Controller	GW spindle lubrication 1.8 L
	FANUC
Machine Dimensions	L x W x H 3070 x 4527 x 3545 mm
Machine Weight	Net weightCapacity 13000 Kg

STANDARD ACCESSORIES

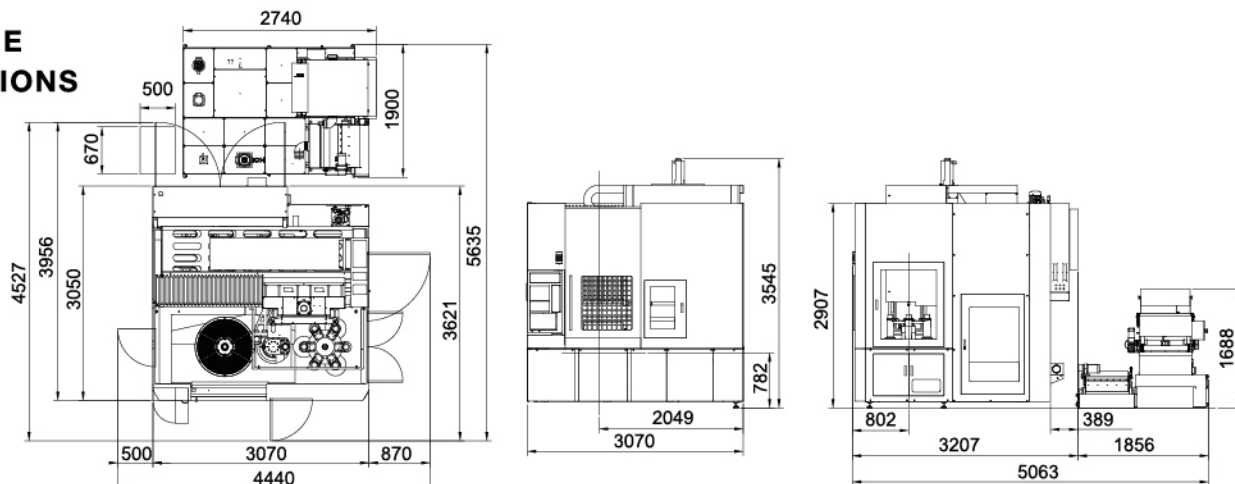
- FANUC CNC controller (included current gap control function) x 1
- Fully enclosed splash guard x 1
- Grinding wheel x 4
- Single point diamond dresser x 1
- Hydraulic system x 1
- Coolant system x 1
- Electric system x 1
- Full-close loop digital scale (for X & Z axes) x 2
- Build-in type Wheel spindle 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
- $\varnothing 850$ mm face plate x 1
- Wheel balancing stand x 1
- Tools and tool box x 1

OPTIONAL ACCESSORIES

- $\varnothing 800$ 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)



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