

Centerless Grinding Machine (PSG-100)

Main Application :

The grinder is mainly used for through-feed grinding of cylindrical surface and ring-type parts, as well as for plunge-cut grinding of various stepped, cones that the conicity less than 1:20 and cylindrical surfaces semi-automatically or automatically.

Salient Features :

1. Grinding Wheel and Regulating wheel :

- The grinding wheel designed in cantilever type, and its spindle adopted multi-plate long bearing bushed static-hydrodynamical oil film bearing.
- Cantilevered regulating wheel, spindle support solid bearing sliding with 1:30 taper.
- Use lubricating oil alone on the spindle.
- The regulating wheel feed slide is supported On Flat-V hydraulic unloaded guideway.

2. Electric Control

- AC Frequency converter is used for Regulating wheel speed Control.
- Hydraulic transmission & Stepless speed Regulation are adopted on regulating Wheel & Grinding Wheel dresser.

3. Machine Design And Body

- Equipped Automatic Plunge Device in the grinder
- Iron Casting with high rigidity, natural aging.



Note :
Due to keeping innovation, the specification and Machine pictures or color are subject to alteration without notice!

Specification		Unit	PSG-100
Thru-feed	Grinding Diameter	mm	10-100
	Grinding Length	mm	210
Plunge Feed	Grinding Diameter	mm	10-100
	Grinding Length	mm	195
Grinding Wheel Size		mm	P500*200*305
Regulating Wheel Size		mm	PSA350*200*127
Grinding Wheel Speed		r/min	1250
Regulating Wheel Speed(Stepless)		r/min	10-200
Swiveling Angle of Regulating Wheel	In Vertical Plane		-2° ~ 5°
	In Horizontal Plane		0° ~ 3°
Feed Amount per division or the feed handwheel		mm	0.002
Feed Amount Per Division Of The Dresser		mm	0.01
Height From Centerline of gri. Wheel & Reg. Wheel To Workrest		mm	255
Total Power Of machine		kw	21.66
1) Grinding Wheel Motor		kw	18.5
2) Regulating Wheel Motor		kw	2.2
Overall Dimensions		mm	2675x1505x1615
Machine Weight		kg	4500
Machining Accuracy	Roundness	mm	0.002
	Cylindricity	mm	0.003
	Surface Roughness	um	Ra0.32