

Vertical single disc grinder

305 / 355 / 455 / 585



Vertical single disc grinder with an ID/OD clamping system, developed for the processing of sun gears

- Monoblock machine basement in cast iron with low footprint
- Automatic robot loading / unloading system
- In-process measuring system
- Customized clamping

Superior machine rigidity with exceptional parallelism & flatness

The machine can be equipped with multi workpiece clamping feature to reduce the cycle time and enhance productivity. Every vertical single disc grinder is specifically designed to comply with customers' requirements while offering ultimate precision and reliability.

WORKING METHOD

- A specifically designed working fixture allows the parts rotation between the vertical grinding wheels
- After have been clamped on ID or OD the part/s enter below the wheel where the vertical grinding wheel remove stock progressively until the required thickness is achieved by a plunge movement

FEATURES

- High resistance cast iron machine bed
- Main spindle forged as one piece
- Machine guarding completely sealed
- High safety and low noise level
- Numerical control for all machine main functions (Siemens, Fanuc.)
- Grinding wheels and dresser positioning servo-controlled
- CBN grinding wheels

OPTIONS

- Automatic robot loading / unloading system
- In-process measuring system
- Customized clamping system



Model	VSD305	VSD355	VSD455	VSD585
Machining capacity				
Max. workpiece diameter	Joint face fixture only	225 mm (8.9")	250 mm (9.8")	Upon requirements
Max. workpiece thickness		125 mm (4.9")	125 mm (4.9")	
Wheelhead				
Wheel diameter	305 mm (12")	355 mm (14")	455 mm (17.9")	585 mm (23")
Max. power	7.5 kW	7.5 kW	11 kW	22 kW
Linear axes				
Positioning resolution	1 µm	1 µm	1 µm	1 µm
Coolant				
Delivery	200 l/min 2.5 bar	250 l/min 2.5 bar	250 l/min 2.5 bar	250 l/min 2.5 bar
Dimensions				
Dimensions (W x D x H)	1,400 x 1,500 x 2,540 mm (4.6' x 4.9' x 8.3')	2,000 x 2,000 x 2,600 mm (6.6' x 6.6' x 8.5')	1,900 x 2,640 x 2,610 mm (6.2' x 8.7' x 8.6')	3,080 x 2,640 x 2,610 mm (10.1' x 8.7' x 8.6')
Machine weight	5,500 kg (12,125 lb)	5,500 kg (12,125 lb)	5,500 kg (12,125 lb)	12,000 kg (26,455.5 lb)

Gardner, Giustina or Daisho grinding machines will be proposed according to the standards in the specific geographical areas.

The information provided on this document is for information purposes only and does not constitute a legal obligation or a warranty, express or implied, of any kind.

CONTACT US

grinding-ultraprecision@fivesgroup.com

Bryant | Cincinnati | Cranfield Precision | Daisho | Gardner | Giustina | Landis

www.fivesgroup.com



fives

Industry can do it