
FGRC242


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Machine Id	***:-***	***1465***	**Serial No**	**:-**	
Category	**:-**	**Cylindrical Grinder / Bore Grinders**	**Model**	**:-**	**SIP 400/500**
Country	**:-**	**Germany**	**Make**	**:-**	**WMW**
Type of Machine	**:-**	**Bore Grinder With Facing**	**Year**	**:-**	
Weight	**:-**	**0.0**	**Dimensions**	**:-**	
Power	**:-**		**Location**	**:-**	

Specification :-

The WMW SIP 400/500 (manufactured by WMW Glauchau, Germany) is a heavy-duty, automatic internal and face grinding machine. It is highly regarded in heavy industries for precision-grinding cylindrical bores and perpendicular faces on large workpieces like bearing races, bushings,gear components etc.

WMW SIP 400/500 Specifications

Specification	Value
Machine Type	Internal &Face Grinding Machine
Make	WMW (Germany)
Model	SIP / SI 400 ×500
Maximum Internal Grinding Diameter	**400 mm**
Maximum External Swing Diameter	**800 mm**
Maximum Grinding Length (Bore Depth)	**500 mm**

Minimum Internal Diameter	**20 mm**
Chuck Diameter	**600 mm**
Cross Travel	**650 mm**
Table Stroke	**650 mm**
Workhead Swivel	0°–30°
Workhead Speed	16–250 RPM
Grinding Wheel Speed	Up to approximately 1,200 RPM (depending on spindle)
Least Count	0.0025 mm (2.5 microns)
Main Motor	Approximately 9 kW
Machine Weight	Approximately 5.8–6.5 Tons

Facing Attachment Specifications

The face grinding attachment enables precision grinding of:

•Bearing shoulders
•Internal faces
•Counterbores
•Seal faces
•Gear side faces
•Spacer faces

Typical features include:

•Independent face grinding spindle
•Hydraulic plunge feed
•Fine infeed control
•Simultaneous bore and face grinding
•High perpendicularity between bore and face
•Adjustable grinding stroke
•Precision dressing arrangement
•Automatic spark-out cycle (on some machines)

Grinding Capacity

•Internal Cylindrical Grinding
•Face Grinding
•Taper Grinding
•External Grinding (optional setup)
•Blind Bore Grinding
•Stepped Bore Grinding

Typical Applications

•Gearboxes
•Bearing Housings

- Hydraulic Cylinders
- Pump Bodies
- Valve Bodies
- Crane Gear Components
- Heavy Engineering Parts
- Mining Equipment
- Windmill Components
- Defence Components

Accuracy

Typical achievable accuracy (depending on machine condition and setup):

Parameter	Typical Accuracy
Bore Size	±2–5 microns
Roundness	1–2 microns
Cylindricity	2–3 microns
Face Flatness	2–3 microns
Bore-to-Face Squareness	3 microns