

# KUNARK HITECH MACHINING & SALES PVT.LTD.



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

## 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 x500
Maximum Internal Grinding Diameter	<b>400 mm</b>
Maximum External Swing Diameter	<b>800 mm</b>
Maximum Grinding Length (Bore Depth)	<b>500 mm</b>
Minimum Internal Diameter	<b>20 mm</b>
Chuck Diameter	<b>600 mm</b>
Cross Travel	<b>650 mm</b>
Table Stroke	<b>650 mm</b>
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