



SAACKE CNC HOB GRINDING MACHINE MODEL UW IH



WITH 4 CNC CONTROLLED AXES X, Y, Z & A (OPTIONAL 5TH AXIS-B) FOR FLUTE GRINDING
OF STRAIGHT FLUTED AND SPIRAL FLUTED HOBS (OPTIONAL)

SUITABLE FOR BOTH HSS AND CARBIDE

MODULE UPTO 8 (OPTIONAL 12) IN QUALITY CLASS UPTO AAA

- Straight & Helical hob up to 8 module (Optional 12 M).
- Helical hob up to 45 degree helix angle (left and right hand helix).
- Grinding quality up to AAA class.
- Gear driven work head to carry more load with positioning accuracy.



ACCURATE WHEEL FORMING VIA SOFTWARE

GRINDING WHEEL DRESSING UNIT

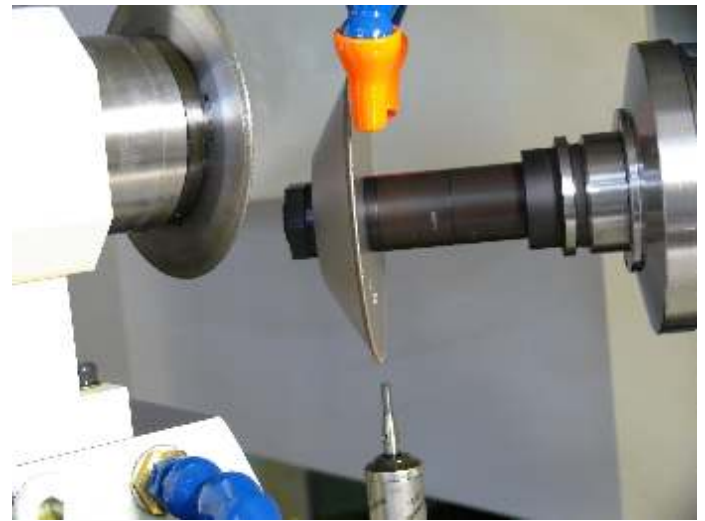
- Inbuilt dressing unit mounted on work head for profiling of SG wheels and ceramic bonded CBN and Diamond wheels by means of diamond wheel. (Optional)
- Calculation and generation of wheel form via software (Optional)
- Dressing during cycles to maintain the wheel form (Optional)



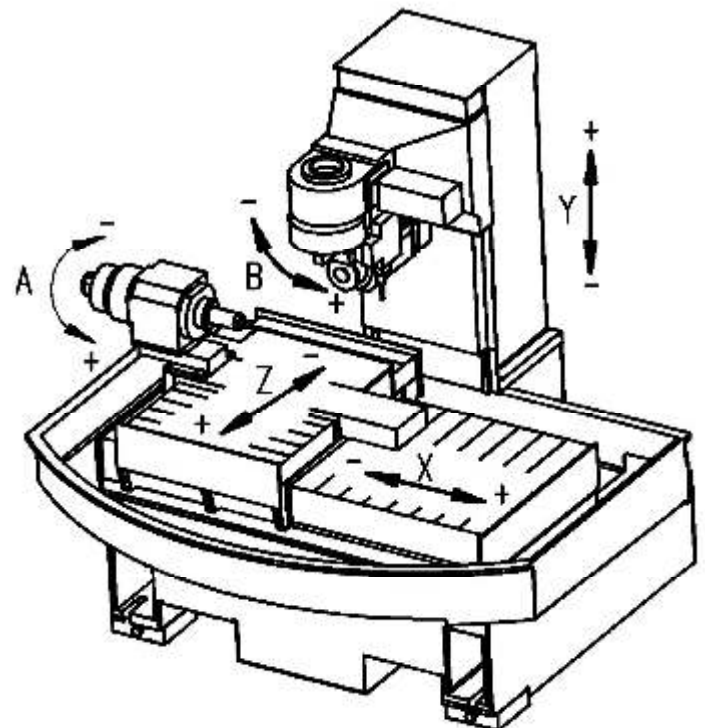
- Structure-borne sound sensor (SENSITRON 6) for wheel dressing. (Optional)



- Exact orientation of the tool via 3D - measuring probe.
- Automatic measurement of grinding wheel i.e. Diameter, Flange Length Grinding Wheel Angle and Wheel Width. (Optional)
- Digital drives assure the highest dynamic control in all axes



- Table-mounted Tailstock for firm support with MK 2 taper.

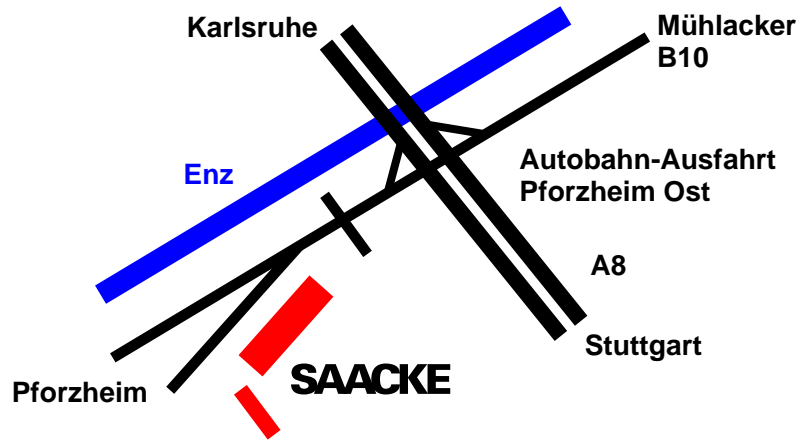


KINEMATICS

OPTIMUM KINEMATICS BY THE POSITION OF THE GRINDING WHEEL AT THE PIVOT POINT OF THE GRINDING HEAD (B AXIS)



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TECHNICAL DATA

Tool Data

Max. Diameter	250 mm
Max. Diameter for complete	250 mm
Max. Tool length	330 mm
Range between centres	480 mm

Grinding table X axis

Longitudinal traverse distance X axis	625 mm
Feed rate	0-15 m/min

Cross Slide Z-axis

Longitudinal traverse	305 mm
Feed rate	0-15 m/min

Vertical travel Y-axis

Vertical travel	305 mm
Feed rate	0-15 m/min

Grinding head B axis

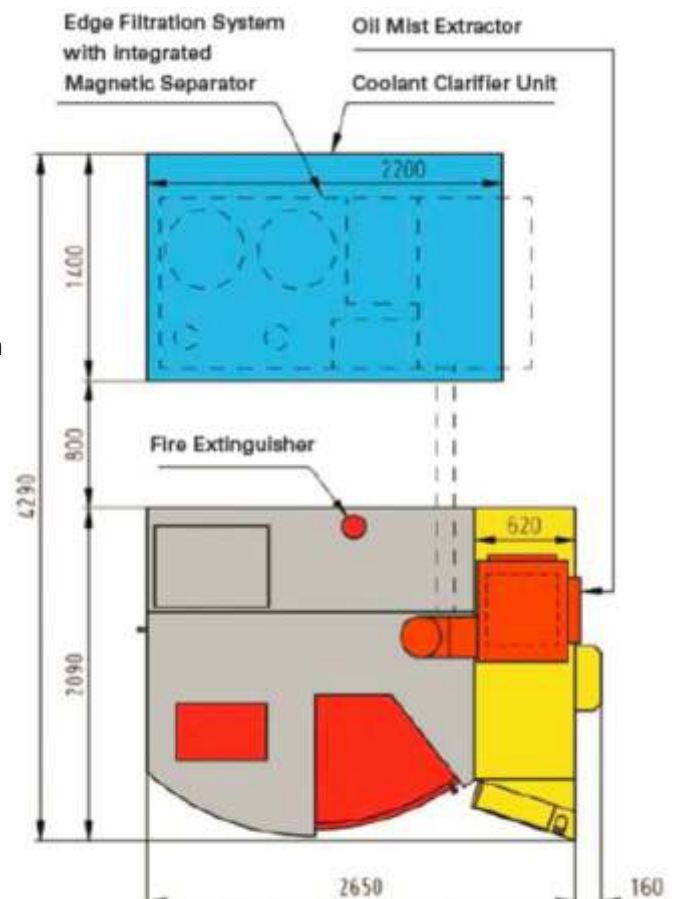
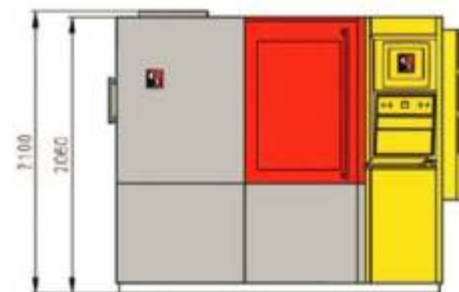
Swivel in horizontal plane (Manual)	+/-25°
Swivel in horizontal plane (CNC movement optional)	240°
Motor grinding Spindle	Dia. 170 mm
Grinding wheel arbor with rapid clamping	HSK-E50
Grinding spindle speed infinitely variable	2000-10000 rpm
Max. grinding wheel diameter	150 mm

Workhead A-axis

Work spindle taper	Worm driven
Max. Rpm of work spindle	ISO 50
	40 rpm

Drive output rating

Grinding motor, peak capacity (S6-60%)	16 KW
Optional	26 KW
Drive motor X-axis	3 KW
Drive motor X-axis	3 KW
Drive motor Z-axis	3 KW
Drive motor A-axis	3 KW
Drive motor B-axis	3 KW
Total Power Rating	28 KW
Weight approx.	5200 Kg.



Machine configuration may differ due to optional features/
 customization.