

The image is a brochure cover for Schneeberger Aries. It features a grayscale photograph of a large industrial grinding wheel in motion, with sparks flying from the point of contact. The background is a solid orange color on the left side, which transitions into the grayscale image. The Schneeberger logo is in the top right, and the word 'ARIES' is in large white letters in the center. The tagline 'TECHNOLOGY FOR TOOLING' is in the bottom right.

SCHNEEBERGER

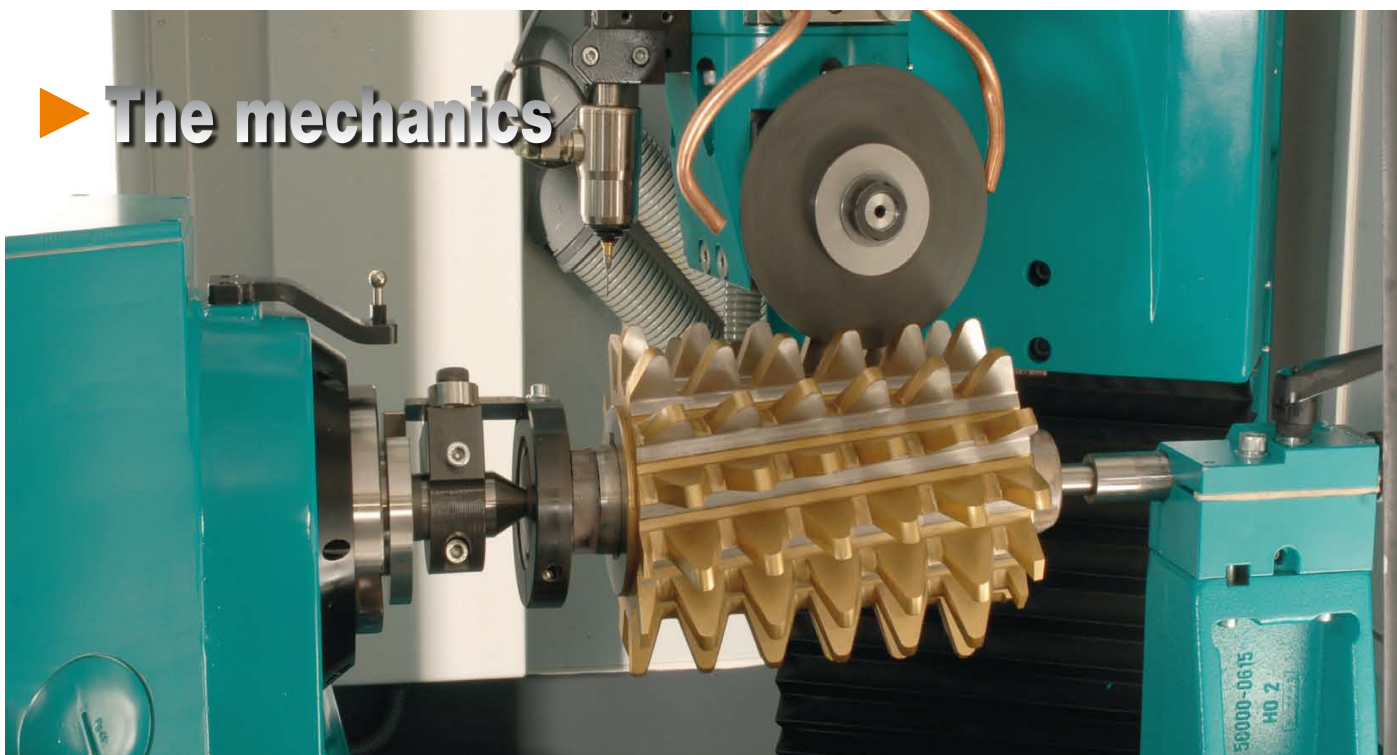
ARIES

**TECHNOLOGY
FOR TOOLING**



► **Automated precision**

► The mechanics



AXES

Flexibility with **2 or 4 controlled CNC axes**. One or three linear axes and a rotational axis with servo motor, resolution 0.5 micron or 0.001°. Manual C axis: Position display integrated in control, resolution 0.001°. The grinding head can be moved through $\pm 180^\circ$ in the C axis.

GRINDING HEAD

Dual grinding spindle for grinding wheels with dia. between 50 mm and 200 mm, with two-sided HSK50 holders for up to 4 grinding wheels.
2.2 kW grinding motor, spindle speed 2000-9000 rpm, infinitely variable and programmable via frequency converter.

Optional: Water-cooled grinding motor, 7.5 kW (100%), 10 kW (60%). Grinding motor output monitoring with current consumption display on the operator panel. Programmable and infinitely adjustable speed between 1000 and 9000 rpm with frequency converter.

3D PROBE

Electronic probe for optimum positioning, measurement and tool monitoring. Integrated specific measuring software for each tool type. Free determination of the measuring cycle.

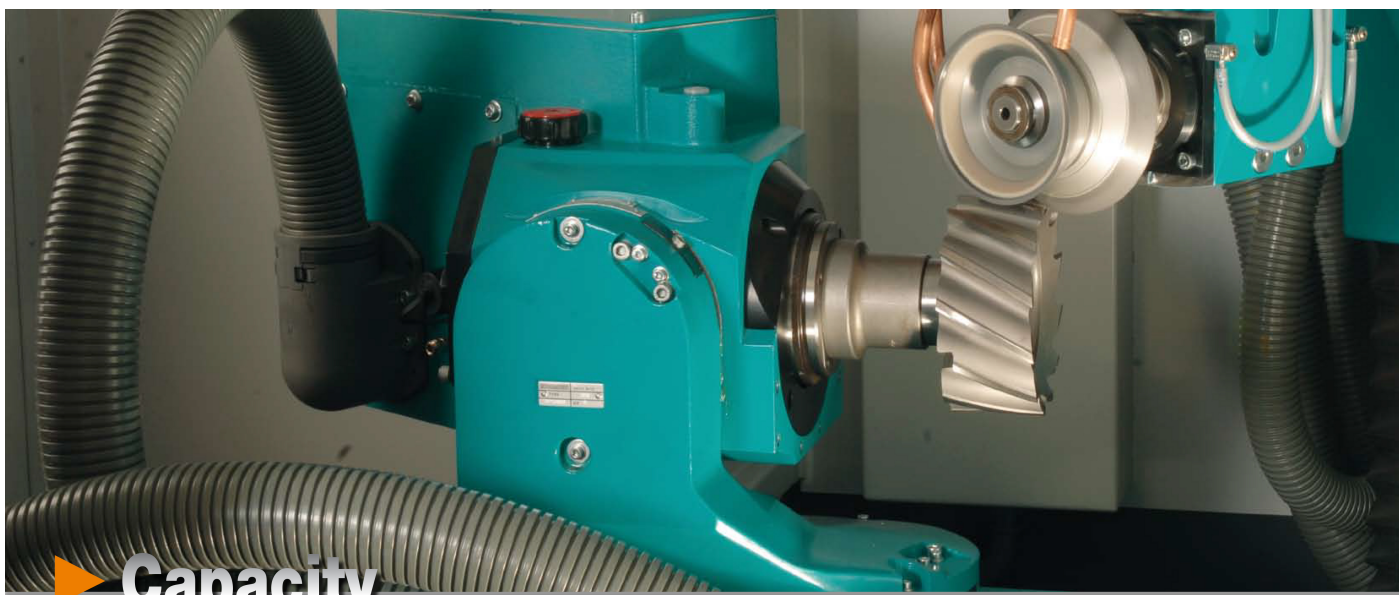
CLAMPING DEVICES

Application-specific mandrels, ISO50 chucks, HSK adapters or hydroclamping complement the tool clamping systems, manual or automatic as required.

TAILSTOCK, STEADY REST

Manual and automatic tail centres, steady rests or prismatic fixtures.



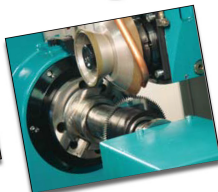


Capacity



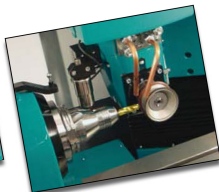
MILLING CUTTERS

Production and regrinding of spiral tools: Groove and perimeter, face, chip clearing, corner chamfering and radii. Ergonomic menu for entering geometry and process data. Measurement of helical pitch and angle with 3D probe. Grinding of right- and left-handed cutting tools both with positive and negative spiral, with identical or different pitch.



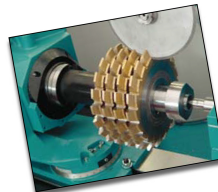
SIDE MILLING CUTTERS

Production and regrinding of side milling cutters: Groove and perimeter, face, chip clearing, chamfer and small toroidal radius. Specific menu. Measurement of axis angle, helical pitch and helix angle with 3D probe. Grinding of all right- and left-handed teeth with positive and negative spiral, with constant pitch or according to table.



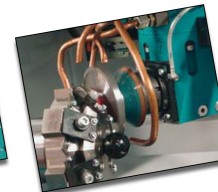
DRILLS

Production and regrinding of drills: Groove, perimeter, face cutting in single clamping on ARIES with 4 axes. Positioning during regrinding via probe.



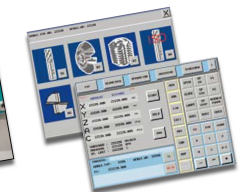
GEAR HOBS

Sharpening of straight and spiral gear hobs with standard grinding wheel without profile. Sensing and positioning cycles are automated. Also regrinding of hobbing cutters with shaft.



SPECIAL TOOLS

Production and grinding of special tools and a wide range of parts for cutting tools and other applications. Program creation with standard software, simple programming and integration of specific sensing and grinding cycles. Programs can be written in the technical office and transferred to the machine via memory card.



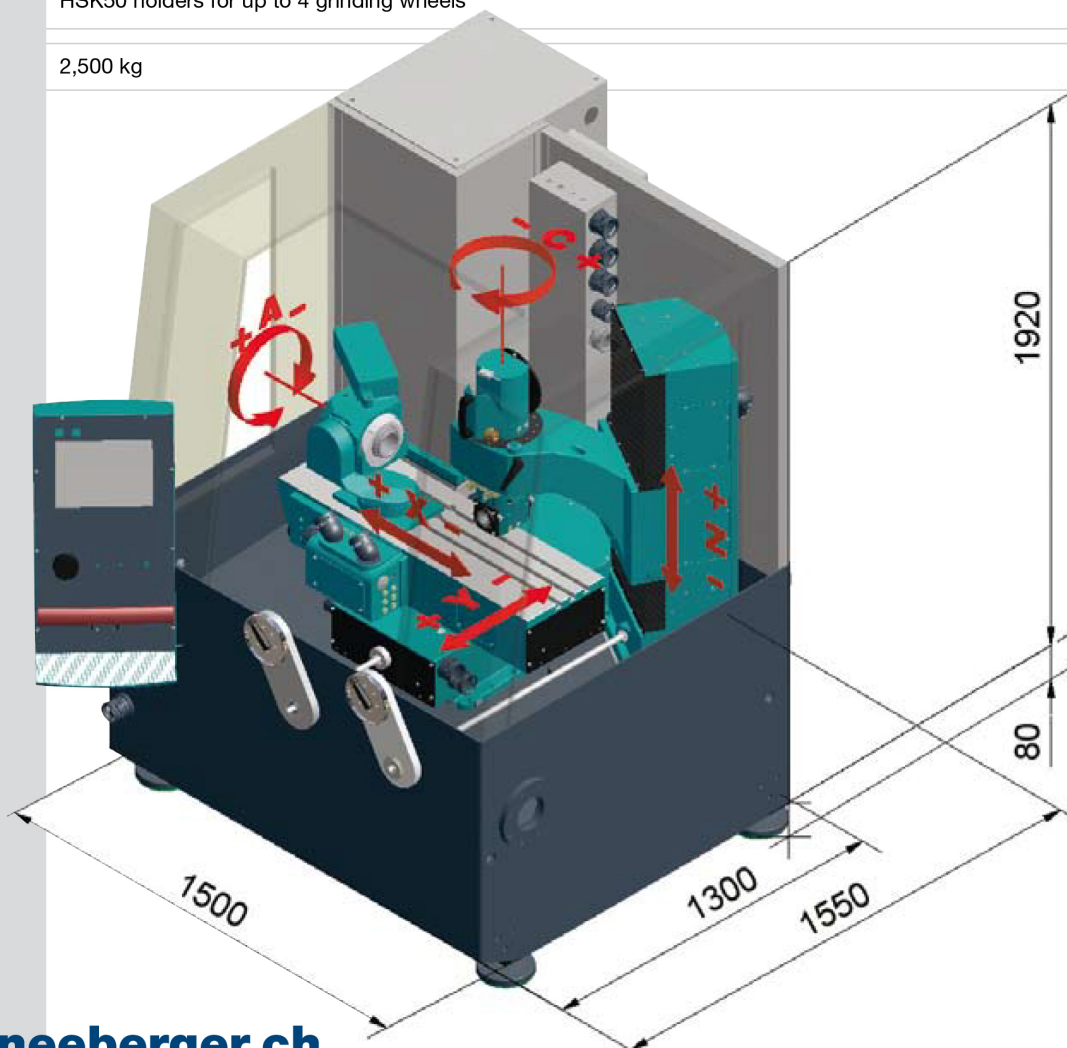
SOFTWARE

SCHNEEBERGER's long-standing experience with tool grinding and our accumulated engineering know-how resulted in the latest software for 2- and 4-axis grinding. Background calculations and straightforward menu control make operation intuitive and highly productive.

Technical data

ARIES

► Axes:		ARIES 2	ARIES 4	
	X-Achse	CNC	CNC	400 mm, longitudinal slide
	Y-Achse	Manuale	CNC	260 mm, cross slide, resolution 0.001 mm
	Z-Achse	Manuale	CNC	300 mm, vertical column, resolution 0.001 mm
	A-Achse	CNC	CNC	Dividing head, free rotary motion, ISO50 , center-height 210 mm
	C-Achse	Manuale	Manuale	Manual axis with position indicator integrated in controls and software, resolution 0.001°, grinding head swivels ± 180°
► Control:	FANUC Powermate, 2 or 4 CNC-controlled axes, simultaneously interpolatable 10.4" LCD colour touchscreen, RS232			
► Grinding head:	Dual grinding spindle for grinding wheels with dia. between 50 mm and 200 mm, grinding motor 2.2 kW (100 %), 3.5 kW (60 %), spindle speed 2000-9000 rpm., optional water-cooled grinding motor, 7.5 kW (100%), 10 kW (60%), speed 1000-9000 rpm HSK50 holders for up to 4 grinding wheels			
► Weight:	2,500 kg			



▲ SUBJECT TO TECHNICAL MODIFICATIONS

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