



**SCHNEEBERGER**

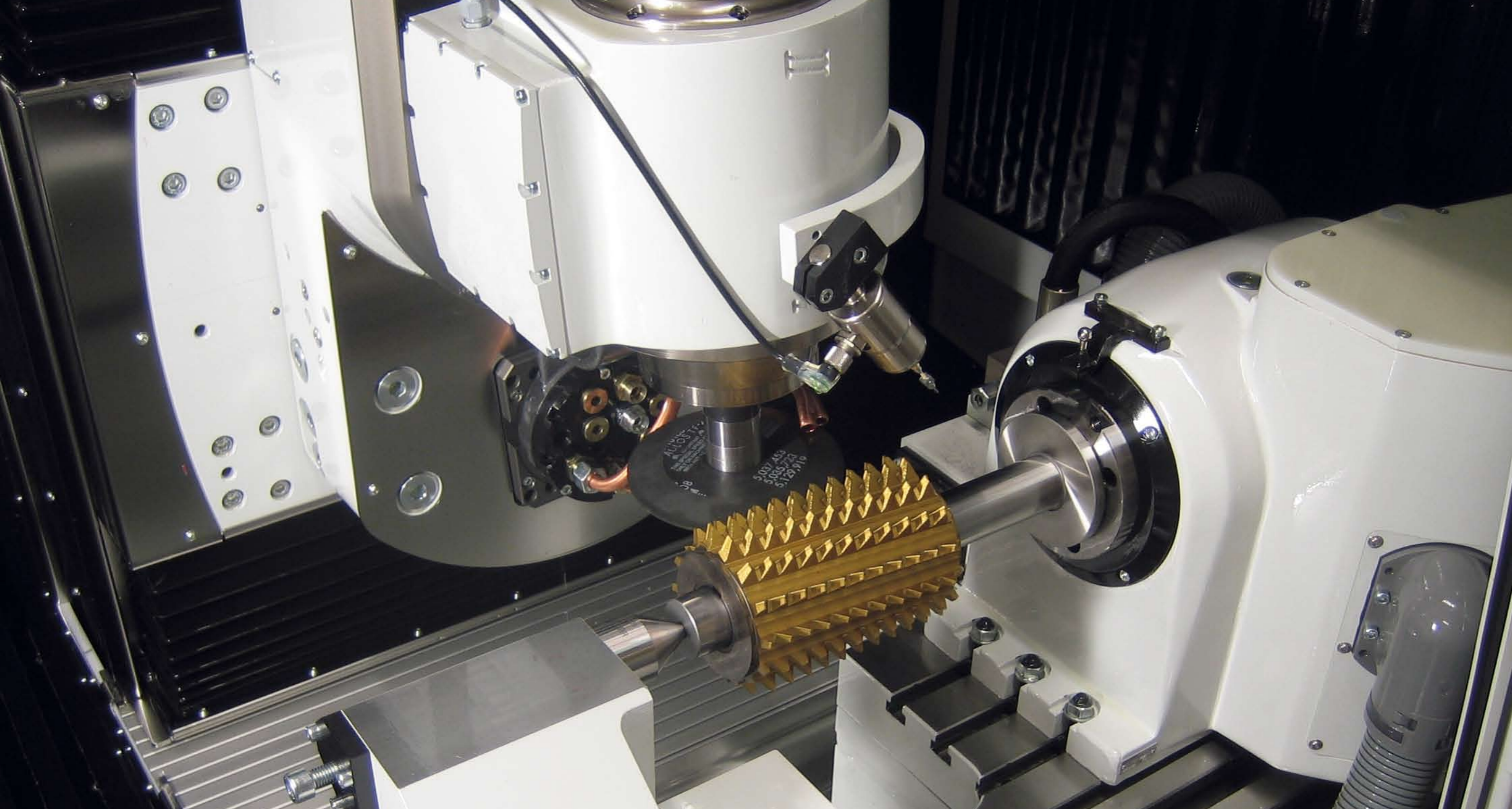


**CORVUS**

**TECHNOLOGY  
FOR TOOLING**



► **Heavyweight champion**



#### **MACHINE BED**

Machine bed made from advanced polymer concrete. Unbeatable stability and resistance against thermal expansion. Ideal for handling devices and axes with ultra-fast positioning.

#### **3D PROBE**

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

#### **GRINDING HEAD**

High-performance direct drive spindle with internal cooling and up to 34 HP (26 kW) grinding capacity. The powerful cooling system ensures thermal stability of the spindle, even with high material removal rate.

#### **WORK HOLDING**

Application-specific tool holders, chucks, ISO50, HSK or special requirements complement the tool clamping systems, manual or automatic as required.

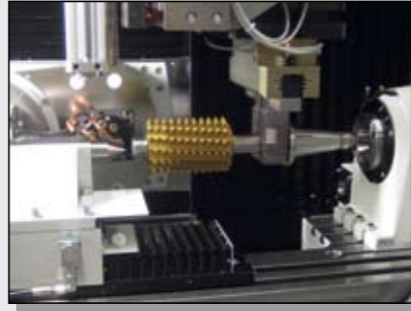
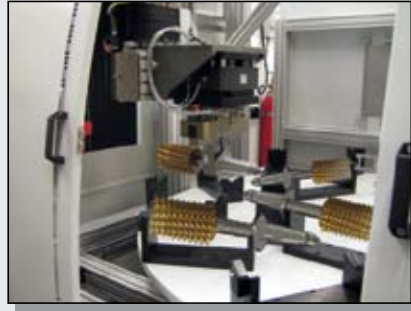
#### **TAILSTOCK, STEADY REST**

Manual or automatic tail stocks or steady rests, depending on requirements. Our product range includes tool supports for reamers, heavy cutter heads and disc-shaped special tools.

#### **DRESSING**

Automatic dressing and profile grinding based on the loader cycle. Standard grinding wheels or profiled wheels according to dxf drawings, optionally specific profile grinding cycles for gear hobs.

# Automation:



## GANTRY LOADER OR ROBOT

The highlights of SCHNEEBERGER machines are the pick-and-place loaders. Different solutions for a wide range applications and work piece dimensions are available. The focus is on maximum flexibility at all times. Our machines, coupled with a robot or gantry loader, pallet stack or tool holder carousel, are invaluable for your production requirements

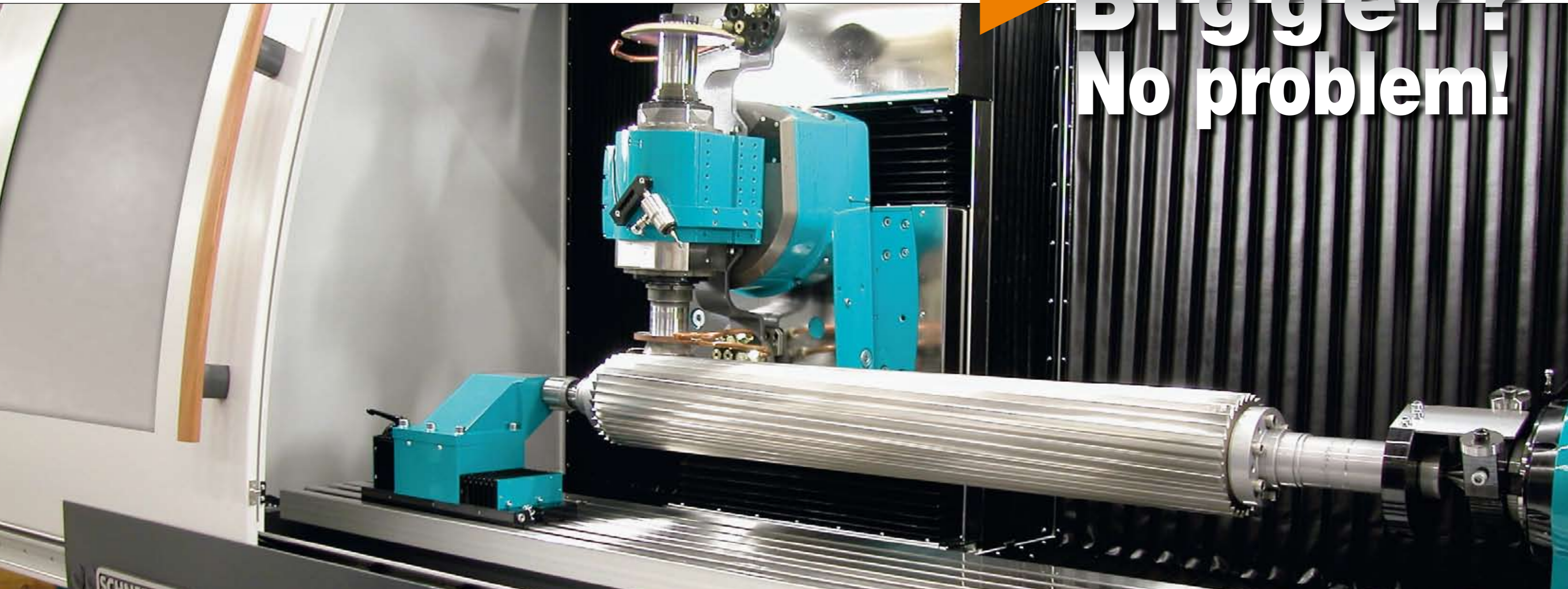
Example for production autonomy during grinding of gear hobs:  
loader with tool holder carousel for 20 large tools!  
10 ¼" long, 8 ½" dia., up to 88 lbs.  
260 mm long, 220 mm dia., 40 kg each

The gantry loader picks up ISO50 tool holders from a carousel with a diameter of 70" (1800 mm). Different workpieces can be processed based on a job list in the control system.

## BIGGER? LONGER?

Even challenging work piece dimensions or weights are no problem for CORVUS. We offer grinding areas of more than 98" (2500 mm). The machine features wide opening doors to facilitate loading by crane. High-powered work head **1200 Nm** for cylindrical grinding and exact positioning.

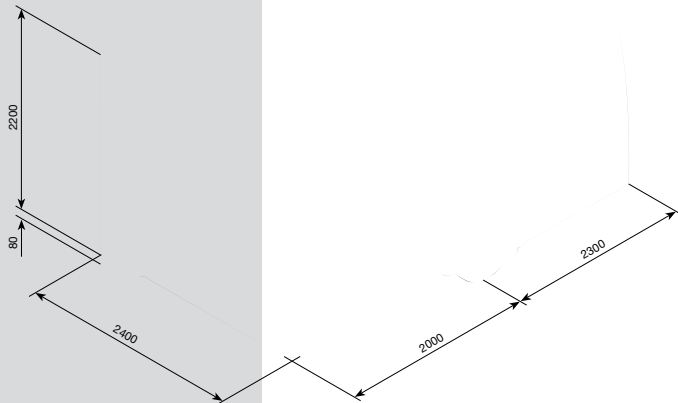
**Bigger?  
No problem!**



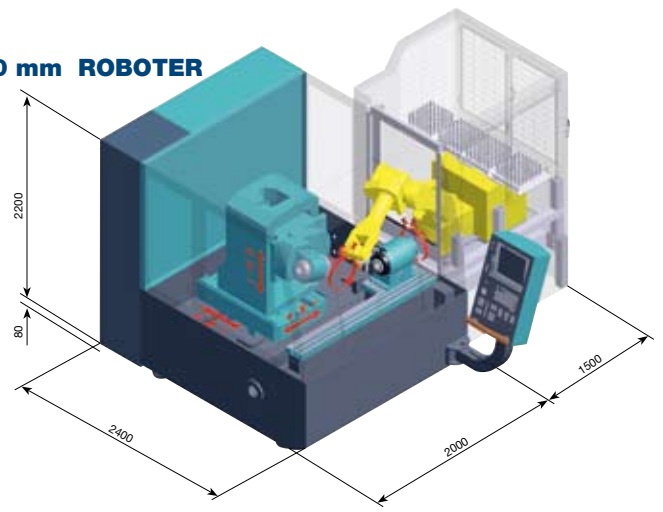
▶ <b>Axes:</b>	<p><b>X axis:</b> 25.5", 66.5" or 114" 650, 1100, 1700 or 2900mm, longitudinal slide, resolution 0.1 micron</p> <p><b>Y axis:</b> 11.8" 300mm, vertical column, resolution 0.1 micron</p> <p><b>Z axis:</b> 11.8" 300mm, cross slide, resolution 0.1 micron</p> <p><b>A axis:</b> work head, free rotary motion, ISO50, resolution 0.0001°</p> <p><b>C axis:</b> 240°, grinding spindle rotation, resolution 0.0001°</p>
▶ <b>Control:</b>	<p>FANUC 160iB, 5 controlled axes, 15" TFT colour monitor with keyboard and touch screen, USB 2.0, RS232</p>
▶ <b>Loader:</b>	<p>Maximum speed and flexibility thanks to 6-axis Fanuc robot, 4 pallets Option: gantry loader, table with 20 positions</p>
▶ <b>Grinding head:</b>	<p>Double ended spindle with forced ventilation, for grinding wheels with 50 - 250 mm dia., motor spindle water-cooled, ceramic steel, hybrid bearing, 13, 20, or 34 HP 9 (12), 15 (18) or 26 (32) kW 100% (60%), 1000 - 10.000 rpm HSK50 or 80</p>
▶ <b>Weight:</b>	<p>CORVUS 650: 24,200 lbs. 11,000 kg, CORVUS 1100: 27,500 lbs. 12,500 kg CORVUS 1700: 31,900 lbs. 14.500 Kg CORVUS 2900: 31,900 lbs 19.000 Kg</p>

▲ SUBJECT TO TECHNICAL MODIFICATIONS

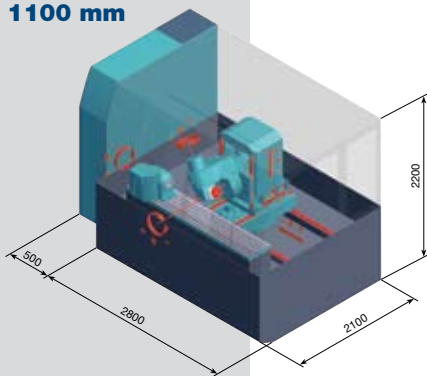
**X 650 mm PORTAL**



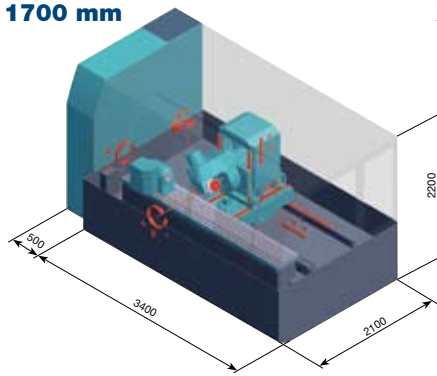
**X 650 mm ROBOTER**



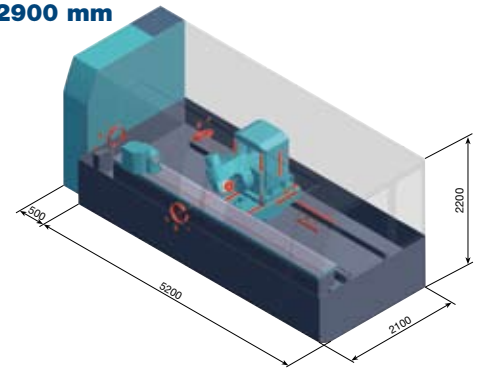
**X 1100 mm**



**X 1700 mm**



**X 2900 mm**



**www.schneeberger.ch**

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