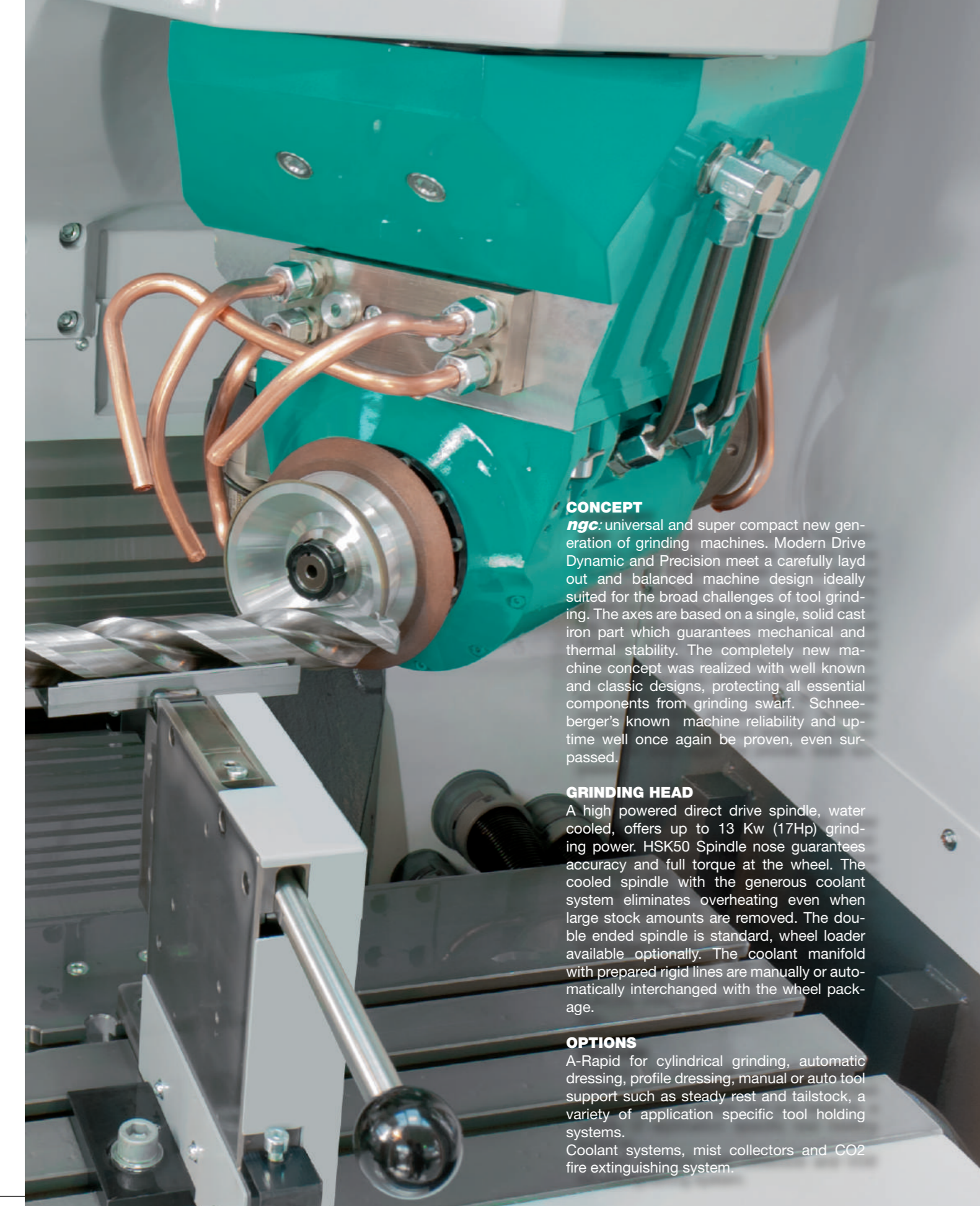


Dimension



CONCEPT

ngc: universal and super compact new generation of grinding machines. Modern Drive Dynamic and Precision meet a carefully laid out and balanced machine design ideally suited for the broad challenges of tool grinding. The axes are based on a single, solid cast iron part which guarantees mechanical and thermal stability. The completely new machine concept was realized with well known and classic designs, protecting all essential components from grinding swarf. Schneberger's known machine reliability and uptime will once again be proven, even surpassed.

GRINDING HEAD

A high powered direct drive spindle, water cooled, offers up to 13 Kw (17Hp) grinding power. HSK50 Spindle nose guarantees accuracy and full torque at the wheel. The cooled spindle with the generous coolant system eliminates overheating even when large stock amounts are removed. The double ended spindle is standard, wheel loader available optionally. The coolant manifold with prepared rigid lines are manually or automatically interchanged with the wheel package.

OPTIONS

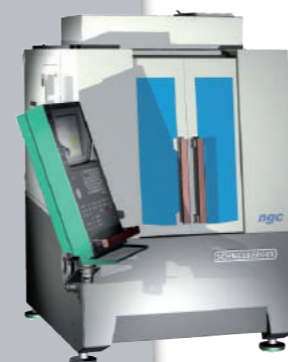
A-Rapid for cylindrical grinding, automatic dressing, profile dressing, manual or auto tool support such as steady rest and tailstock, a variety of application specific tool holding systems. Coolant systems, mist collectors and CO2 fire extinguishing system.

Technical Data

ngc

▶ Axes:	X-Axis: 470 mm (18") , Longitudinal, Linear ways, recirculating ball screws, resolution 0.05 µm Y-Axis: 390 mm (15.3") , Cross Slide, Linear ways, recirculating ball screws, resolution 0.05 µm Z-Axis: 325 mm (12.8") , Vertical Slide, Linear ways, recirculating ball screws, resolution 0.05 µm A-Axis: ISO50 Headstock, resolution 0.0001° C-Axis: 345° , Rotation of wheel head, resolution 0.000045°
▶ Control:	FANUC 31i B5, 5 Machine Axes and options 15" TFT-Color monitor with keyboard and touch screen, USB 2.0
▶ Grinding head:	Water cooled direct drive grinding motor 10 kW/13Hp (100%), 13 kW/17Hp (60%), 22 kW/30Hp (Peak) for grinding wheels ø 40mm/1.5" to ø 250mm/10", 1'000 to 12'000 RPM, HSK-50
▶ Loader options:	Integrated tool loader, pallet size 300mm x 300mm / 12"x12" Wheel loader with 7 positions, up to 21 grinding wheels
▶ Weight:	5'000Kg (11'000 lbs)

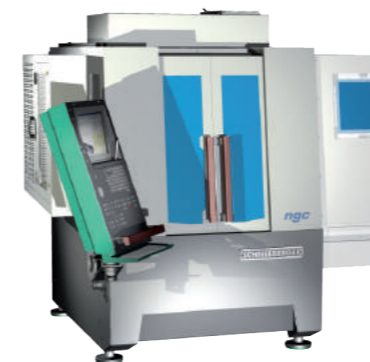
▲ Technical improvements subject to change



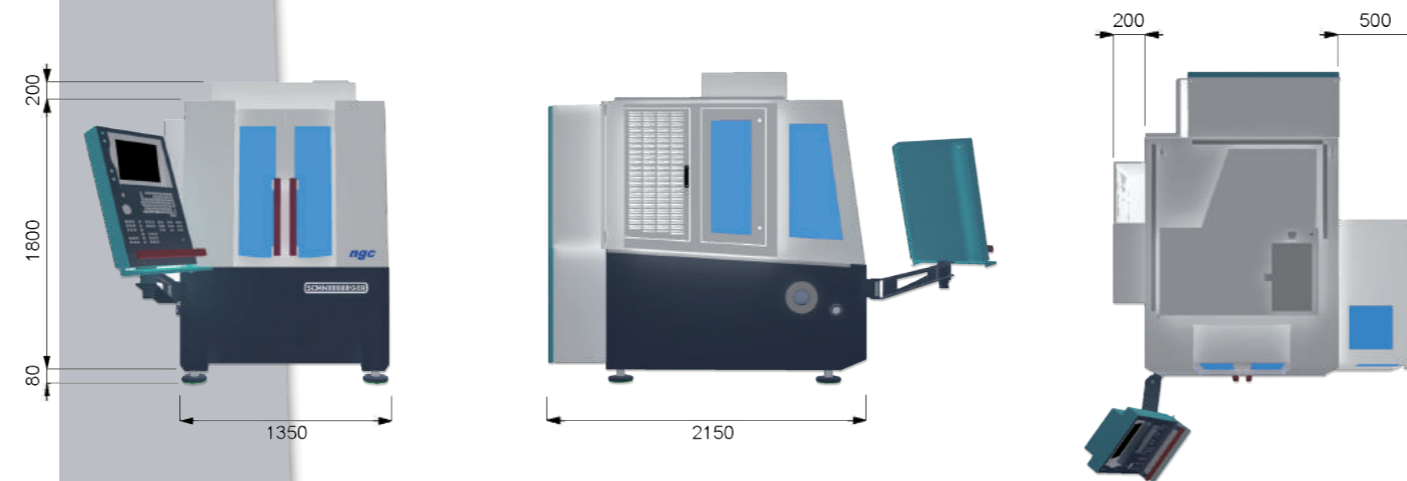
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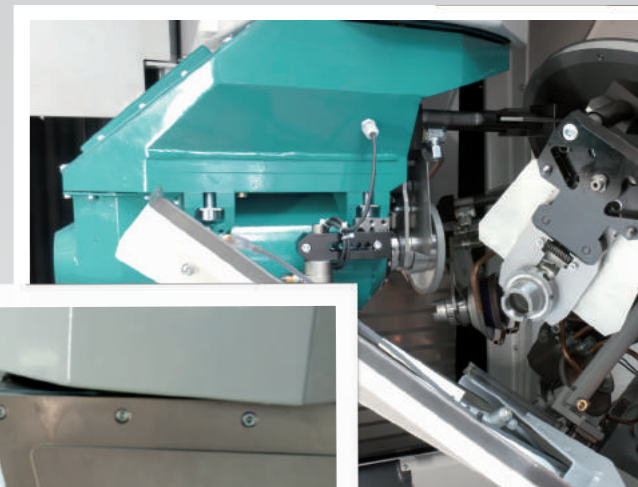
ngc

TECHNOLOGY
FOR TOOLING

The New Dimension

▶ AWL7 WHEEL LOADER

Wheel loader with 7 position for wheel arbors HSK50 including corresponding coolant manifolds. Up to 21 wheels can be mounted. Data management for grinding wheels, data interface and wheels linked to grinding operations including use of twin wheels, all integrated in Quinto.



▶ INTEGRATED TOOL LOADER

Tool pallets sized 300mm x 300mm (12"x12") for round tools or inserts.

Software: Storage for an almost unlimited amount of tool loading programs and pallets, program management for flexible manufacturing of different tool types per pallet. Programming for sharpening is achieved by a spreadsheet.



▶ APPLICATIONS

SCHNEEBERGER-*ngc*, super flexible 5 axis tool grinder suited for sharpening and production. Complete, including end grinding, up to 300mm (12") cutting length, 300mm (12") diameter, maximum length overall 500mm (20"). The high torque water cooled direct spindle offers stability, designed to flute grind from solid. Thanks to perfect TIR, high surface finishes, highest precision for intricate geometries can be expected.

Standard tools such as end mills, ball nose end mills, high performance drills, reamers, profile tooling, profile insertable tools from carbide to Cermet.

For the sharpening of hobs, shaper cutters, stick blades specifically designed clamping systems as well as programs and processes are available. Production grinding of knives for the paper, food or plastic industry is all possible. Slitting discs can be automatically loaded and clamped.

The powerful Quinto software combined with Fanuc CNC Technology allows to efficiently take advantage of the vast database of default tools and expand to new programs, CAD profile geometries or completely customized Quinto-ISO programs.

