

# news LETTER

november 2017

World debut **CORVUS NGB**

*The heavy-weight among grinding machines!*



Optionally available as C or B type with 5 or 6 axes, up to 24 kW (S1) grinding performance

For the first time at an exhibition, the new **corvus** NGB in Hanover was the main attraction at our booth.

The machine for producing and regrinding broaching tools, granulating cutters, racks and much more excited the technical visitors with extended travel paths, more power, faster feed speeds and modern design.



The displayed model featured over 2,100 mm axis travel path in the X direction and 400 mm in Y and Z. The stability and turning torque were also increased.

Accessories like a hydraulic tailstock, dressing unit, and diverse magnetic clamping plates are also available.

# *sirius* NGS

*Dynamic and ultra-precise grinding for inserts and other production parts!*



The kinematic concept of these 6-axis grinding machines is ideal for processing smaller workpieces. Driven by linear and torque motors enable the machine to grind extremely quickly and precisely.

Processes for unmanned production, grinding wheels up to a diameter of 300mm, in-process measurement, and dressing lend this grinding station extreme flexibility and enormous autonomy. This can be increased even more with options like a 7-fold wheel changer or **STACK** with 10 palettes. Thanks to diverse clamping systems like TTC, cartridge, ANVIL, RPC, or other customer-specific solutions, we can clamp any piece.

The integrated **FANUC** 6-axis robot masters complex tasks like multi-side grinding for parts, laser engraving, ultrasonic washes.

*High-end tool grinding machine!*

# *gemini* NGM

The grinding center for demanding tasks. High-performance flute grinding, profiling for hob cutters with high-frequency relief grinding, non-circular grinding, and a **high degree of automation** make this machine a diverse and productive processing centre.

## Properties:

- Double grinding spindle HSK 50 or HSK 80
- Direct drives
- Workpieces up to 450 mm long
- Grinding wheel diameter up to 300 mm

## Options:

- Loader with 2 or 4 palettes, alternative STACK loader with 10 palettes
- Grinding spindle HSK 50 with automatic clamping
- AWL loader for up to 72 grinding wheels
- Direct drive grinding spindle with 24 kW (S1)





## industry 4.0

### The boss is watching!

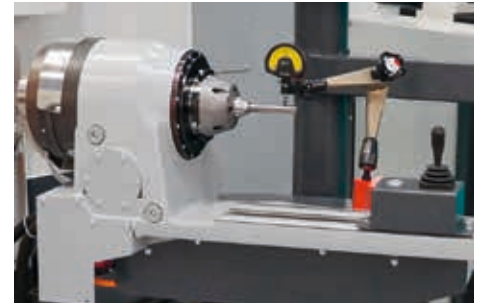
A connection between production machines via the company LAN is no longer new. Program transfer from the construction process and machine data backup or remote maintenance are integrated processes.

For grinding machines from SCHNEEBERGER, now there is a **control station** for monitoring the machines. Grinding, auxiliary process time, and downtimes are evaluated in real time, and machine downtime is detected immediately.

## collet chuck W25

### Ultra-precise collet chuck

This collet chuck enables from  $\varnothing 0.5$  mm to 20 mm to be clamped. **Concentricity and wobbling can be adjusted separately.** The design features small size and protects optimally against splash water.



# Qg1

## The CAD CAM grinding software

Live demonstrations of the new grinding software were displayed to our visitors at the exhibition at our multifunctional tables and presentation screens. Some technical specialists were even able to test out the program themselves to experience the benefits of the new software.

Numerous properties of this state-of-the-art grinding software were presented with concrete examples by application technicians and excited the public. For example, the machine simulation was presented together with a visualisation of the complete grinding process, including collision detection with visual highlights of all collision points. Total and remaining grinding time are also displayed.

For example, the module for grinding inserts with drill tips and ball nose was perfected, as was processing standard and form reamers with spiral and axle angles. The programming of the band saw milling cutter and grinding for cylindrical and non-circular shapes was also re-defined. Profile step drills with a spiral or axis angle and centring or deep hole drilling and countersinking are additional tools that can be operated with CAD CAM grinding software.

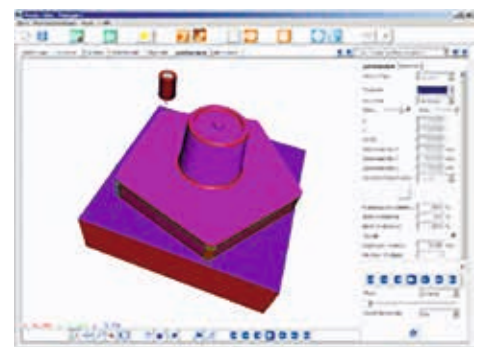
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## New feature: **STEP grinding**

The CAD design world's famous file format .step for 3D models is now able to be used Qg1 to create a grinding program.

1. Import 3D CAD model STEP into the grinding software
2. Define the surfaces to be processed
3. Select the corresponding grinding strategy
4. GRIND!



# norma NGC

*The space miracle!*

**SCHNEEBERGER**

## Properties:

- Tools up to 300 mm cutting length and 350 mm diameter
- Diameter 0.05 micrometre axis resolution
- Grinding spindle 10 kW (S1), HSK 50

The compact 5-axis **universal grinding machine** for producing and re-grinding tools. High thermal stability thanks to spheroidal graphite iron monoblock construction.

## Options:

- MIL palette loader
- Palette 300 x 300 mm
- AWL wheel loader with 7 positions for 21 grinding wheels
- optionally featuring 750 mm X-stroke



# aries NGP

*truly sharp!*



Only **99 cm wide**, but definitely not a light-weight! **Height: 1 m, 76 cm.**

The machine grinds tools until **250 mm length** and **250 mm diameter**. The autonomy of the grinding machine can be expanded with an integrated loader.

## Trade fair calendar 2018

Grindtech	14.03. – 17.03.2018	Augsburg	Germany
Industrie Paris	27.03. – 30.03.2018	Paris	France
Mach	09.04. – 13.04.2018	Birmingham	England
Metalloobrabotka	14.05. – 18.05.2018	Moscow	Russia
Intertool	15.05. – 18.05.2018	Vienna	Austria
BIEMH	28.05. – 01.06.2018	Bilbao	Spain
IWF	22.08. – 25.08.2018	Atlanta	USA
IMTS	10.09. – 15.09.2018	Chicago	USA
AMB	18.09. – 22.09.2018	Stuttgart	Germany
BIMU	09.10. – 13.10.2018	Milan	Italy

*We hope you liked it!*



**See you at the next exhibition!**

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[www.schneeberger.swiss](http://www.schneeberger.swiss)