

# PRECISION GRINDERS

Customized to your needs





## HIGH COMPETENCE

Personal commitment and preceptiveness



Jungner is a world leading manufacturer of high precision specialized Tool & Cutter Grinding machines. Established in 1910 and building grinding machines since 1946.

With very long experience from building high precision machines and in-depth knowledge of software development we deliver a unique product.



We are the machine builder that works closely with our customers and participate in every step of the process.

With software that we adapt to every client we can deliver when others cannot.

When you come to Jungner we deliver the right solution for you.

# PRODUCT RANGE

The right product for your need



## TG 560 CNC – PRECISION TOOL & CUTTER GRINDER

- Ultra Versatile – High Precision Tool, Cutter & Broach Grinding machine with 5 axis 5D interpolation and 6th software axis
- For resharpening and manufacturing
- Fanuc 30i MB CNC control
- Workhead with rotation speed up to 166rpm
- Up to 11.5 kW spindle motor
- Automatic loading/unloading with Fanuc robot



## MG 560 CNC – RIFLING MANDREL GRINDER

- Ultra Versatile – High Precision Rifling Mandrel Grinding machine with 5 axis 5D interpolation and 6<sup>th</sup> software axis
- Complete manufacturing of Cold swaging rifling mandrels
- Fanuc 30i MB CNC control
- Up to 11.5 kW spindle motor
- Workhead direct drive by torque motor for high speed rotation up to 600rpm
- Rigid tailstock for high precision grinding
- Both cylindrical and groove grinding in same machine
- Grinding between dead centers



## TG 600 CNC – TOOL & CUTTER GRINDING MACHINE

With its high flexibility, rigid design and high spindle power the TG 600 CNC is the perfect machine for heavy production and resharpening of cutting tools etc.

Due to the turret design with up to 6 grinding spindles that can carry up to 4 grinding wheels

on each it can grind complex tool geometries in one setup.

The TG 600 CNC can be equipped with an automated robot loading system for increased productivity.



## PG 700 CNC – HIGH PRECISION PROFILE CUTTER GRINDING MACHINE

The PG 700 CNC of the SRM Line has been specially designed for grinding of cutters for screw pump and compressor rotors.

Cutters up to Ø500 mm can be ground with extremely high accuracy, which can reduce and completely remove the need for finish grinding.

Thanks to the flexible swiveling grinding spindle, integrated probe measuring functions and the specially designed software.



## US 450 – PRECISION UNIVERSAL TOOL & CUTTER GRINDER

Manual tool & cutter grinder with ergonomic design. High precision and ultra versatile when high demands are required.

- Spiral grinding
- Cylindrical grinding
- 3 axis digital readout, 2 mm resolution
- Optical profile grinding
- Copying grinding
- Grinding wheel dressing
- Wet grinding

# CNC SOFTWARE SPEEDGRIND

Intuitive and user friendly

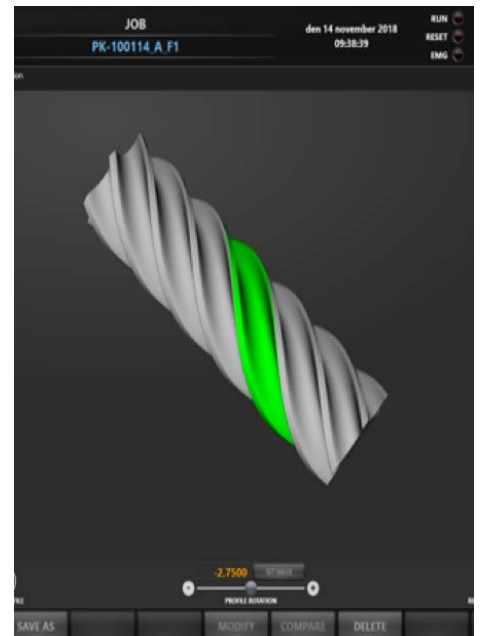
The screenshot displays the CNC software interface with the following sections:

- Alarms and messages:** A dropdown menu with a question mark icon.
- MODE:** EDIT
- JOB:** den 19 mars 2020 09:39:41
- Machine position:** X: -218.4321, Y: 0.0000, Z: -101.7178, B: 347.9466, C: 149.8630
- Absolut position:** X: 157.1619, Y: 221.9208, Z: 0.0000, B: 347.9466, C: 150.0000
- Distance to go:** X: 0.0000, Y: 0.0000, Z: 0.0000, B: 0.0000, C: 0.0000
- Spindle:** Spindle RPM (0), Temperature (24.0°), Spindle Load (0), Spindle override (0-100%)
- Feedrate:** Feedrate override (0-100%), Actual (0.00), Programmed (3000.00)
- Run requirements:** Grinding, Measuring, Dressing, Status, Row no., Insert no., Stock left, Feedrate, Dressing time, Dressing time, Feedrate, Probe triggered, Last X-position, Last Y-Position, Last Z-position
- Machine operator panel:** START, PAUSE, STOP buttons
- Run requirements (Status):** Front door, Rear service hatch, Side service hatch, Probe protection cap, Alarm messages / EMG Stop, Mode / Stop mode
- Time:** Operating time (1230h 18m), Cycle time (8m 51s), Estimated time
- Modal codes:** G01, G80, G15, M30, G17, G98, G40.1, G90, G50, G25, G22, G67, G160, G94, G97, G13.1, G21, G55, G50.1, G40, G64, G54.2, G49, G69, G80.5
- Program check:** O0001 ( MAINPROGRAM ); ( FILENAME : PA075051\_F22\_7 ); ( TOOLTYPE : FINGERCUTTER ); ( SCREWTYPE : FEMALE ); ( PROFILE : 41M.FUT ); ( POST : SRM 630 PG ); ( REVISION : 2017-12-27 ); ( VERSION : 1.00.822 ); ( APT GENERATED TIME )
- Bottom navigation bar:** HOME, MACHINE, GEOMETRY, MEASURE, DRESSING, SETTINGS, PROGRAM, MANUAL, CALIBRATION, STATUS, MESSAGES, SETUP, EXIT, MORE

Grinding software for the PG 700 CNC machine for resharpener and production of cutters for screw pump and compressor rotors. Operator friendly and easy to use GUI with 10 point 24" touch screen.

Import rotor profiles directly from CAD or from text files. The software measures the rake surface of each insert/tooth on the cutter and generates the finish cutter profile based on that to obtain the best possible result.

Tailor made software for sharpening and manufacturing of cutters for screw pump and compressor pump rotors. Programming becomes easy as both 2D and 3D graphics are provided.



# PROBE

## Exceptional accuracy

With the built in extremely accurate Renishaw MP 250 probe, with proven silicon strain gauge technology and ultra-compact electronics, the PG 700 CNC

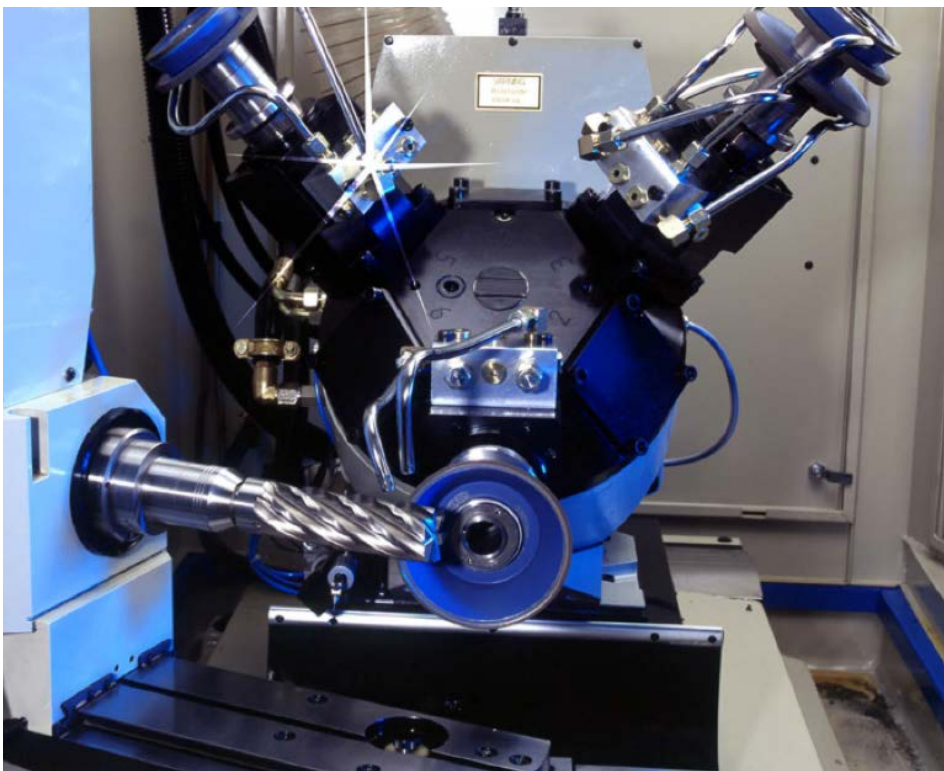
removes the need for an external measuring system. And by measuring the tool before finish grinding and automatically compensate for deviations the

accuracy of the finished tool will be within 5 microns even on large cutters up to 500 mm.



# MULTI SPINDLE WHEELHEAD

## Maximum flexibility



The multi spindle wheel head on the TG 600 CNC with 3 spindles (optional up to 6 spindles) makes grinding of complex tools, where several wheels are need, very easy. Since up to 6 wheel packages with 3-4 grinding wheels on each can be mounted at a time most type of tools can be ground without the need for wheel setup.

As the cooling pipes come with the spindle, cooling can be optimally maximized. Indexing time less then 5 seconds.



**ABB**



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**TRELLEBORG**

**JUNGNER AB**

**Postal address**  
Måttbandsvägen 1A  
SE-187 66 Täby  
Sweden

**Visiting address**  
Måttbandsvägen 1A  
SE-187 66 Täby  
Sweden

**Contact**  
Tel. +46 (0)10-55 00 500  
info@jungner.se  
www.jungner.se

**Service & spareparts**  
service@jungner.se  
**Sales**  
sales@jungner.se

