

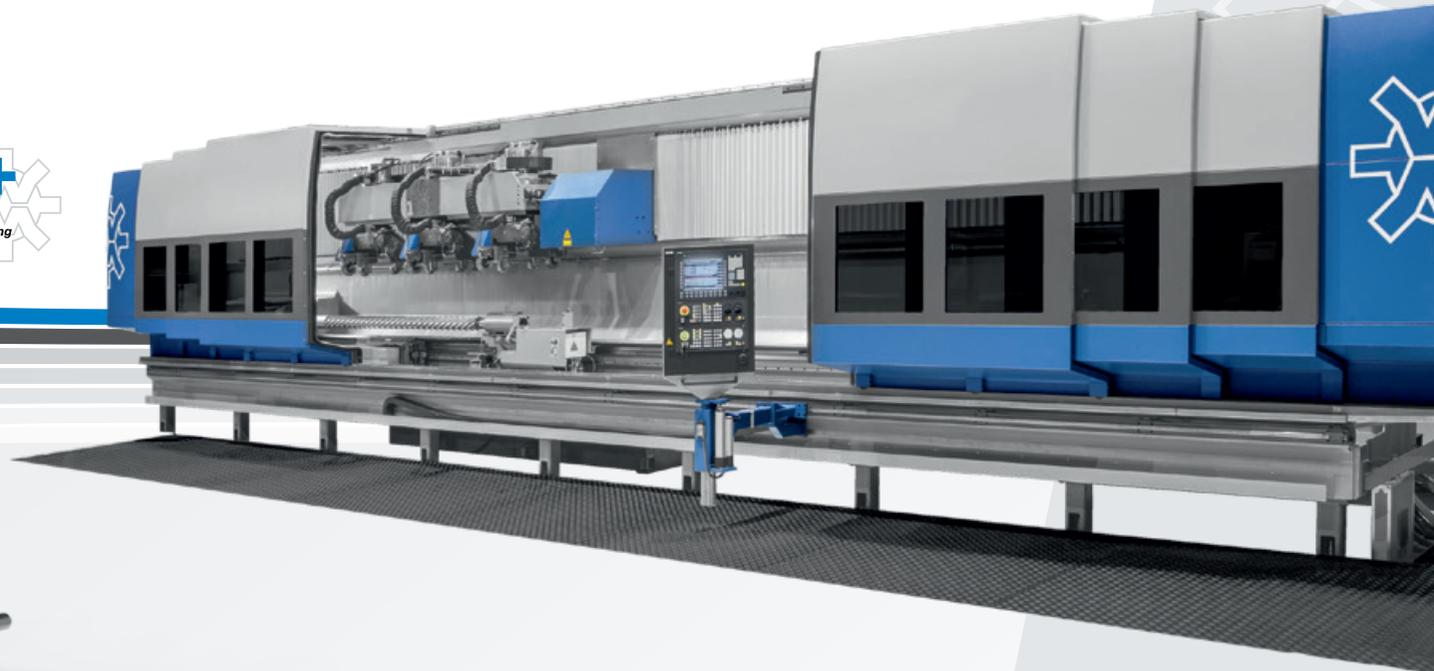


WEINGÄRTNER
MASCHINENBAU

Advanced Grinding, Polishing, and Measurement Machine.

EN 103:2026

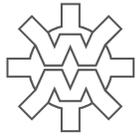
finish+
grinding & polishing



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complete
SOLUTION



TECHNICAL DATA

Advanced Grinding, Polishing, and Measurement Machine.

WORKPIECE DIMENSIONS

DIAMETER

25 - 340 mm

MAX WEIGHT between centers

2,000 kg

TOTAL WEIGHT with workpiece support

3,500 kg

CONTROL

Siemens SINUMERIK ONE with external remote stations. 1 µm resolution of linear axis, 0,001° resolution of rotary axis.

GRINDING / POLISHING UNITS

Single band grinding and polishing unit. Type PBSE-G-300/100, incl. AC-main spindle motor with pneumatically controlled band tensioning system pressure.

MAIN DATA

TRANSMISSIBLE POWER AT 3.000 RPM

10,7 kW

GRINDING SPEED

40 m/s

SWIVELLING RANGE (A)

+90° / -70°

GRINDING BELT

MAX WIDTH

10 - 100 mm

MAX BELT LENGTH incl. 5% belt lengthening

3,000 mm

CONTACT WHEEL

MAX TOOL DIAMETER

300 mm

CONTACT WHEEL WIDTH

70 mm

FLAPPING WHEEL WIDTH

70 mm

TRIPLE BELT GRINDING & POLISHING UNIT

Type PSE-G-220/20, for left-hand rotors, incl. AC-main spindle motor with manual band tensioning system.

MAIN DATA

TRANSMISSIBLE POWER AT 3.000 RPM

8,5 kW

GRINDING SPEED

40 m/s

SWIVELLING RANGE (A)

min. +61°

POSITION (Z2)

max. +89°

GRINDING BELT

MAX WIDTH

10 mm

MAX BELT LENGTH incl. 5% belt lengthening

2,350 mm

ADDITIONAL AXES Z1/Z3

AC-servo motor driven

MIN TO MAX TRAVEL DISTANCE

550 - 1,050 mm

POWER

0,5 kW

RPM

3,000 rpm

MAX SPEED

1,500 mm / min

ADDITIONAL AXES X2/1 X2/2 X2/3

hydraulically operated

LIFT

200 mm

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The Weingärtner **finish** range is engineered to deliver exceptional surface quality at the final stage of machining. Designed for precision, stability, and repeatability, these systems combine controlled grinding with adaptable belt polishing to achieve consistent results across a wide variety of workpiece sizes and materials. Whether preparing surfaces for coating, meeting tight tolerances, or fulfilling strict visual and functional requirements, the **finish** series provides dependable performance for demanding industrial applications.

A robust machine structure minimizes vibration and ensures uniform tool-to-workpiece contact. The interplay between grinding disc technology and flexible polishing belts allows the process to be tailored, from targeted material removal to fine finishing. Automated adjustments, intelligent process control, and smooth integration into existing workflows further improve efficiency and reduce manual handling.

Built for real-world production needs, the **finish** range offers long-term stability and the versatility to handle both straightforward and complex geometries. With its blend of precision engineering and advanced finishing processes, it delivers reliable surface integrity and repeatable quality at every step.



PRECISION GRINDING DISC FINISHING FOR HIGH SURFACE ACCURACY

UNIFORM BELT POLISHING FOR FINAL SURFACE PERFECTION

finish+
grinding & polishing