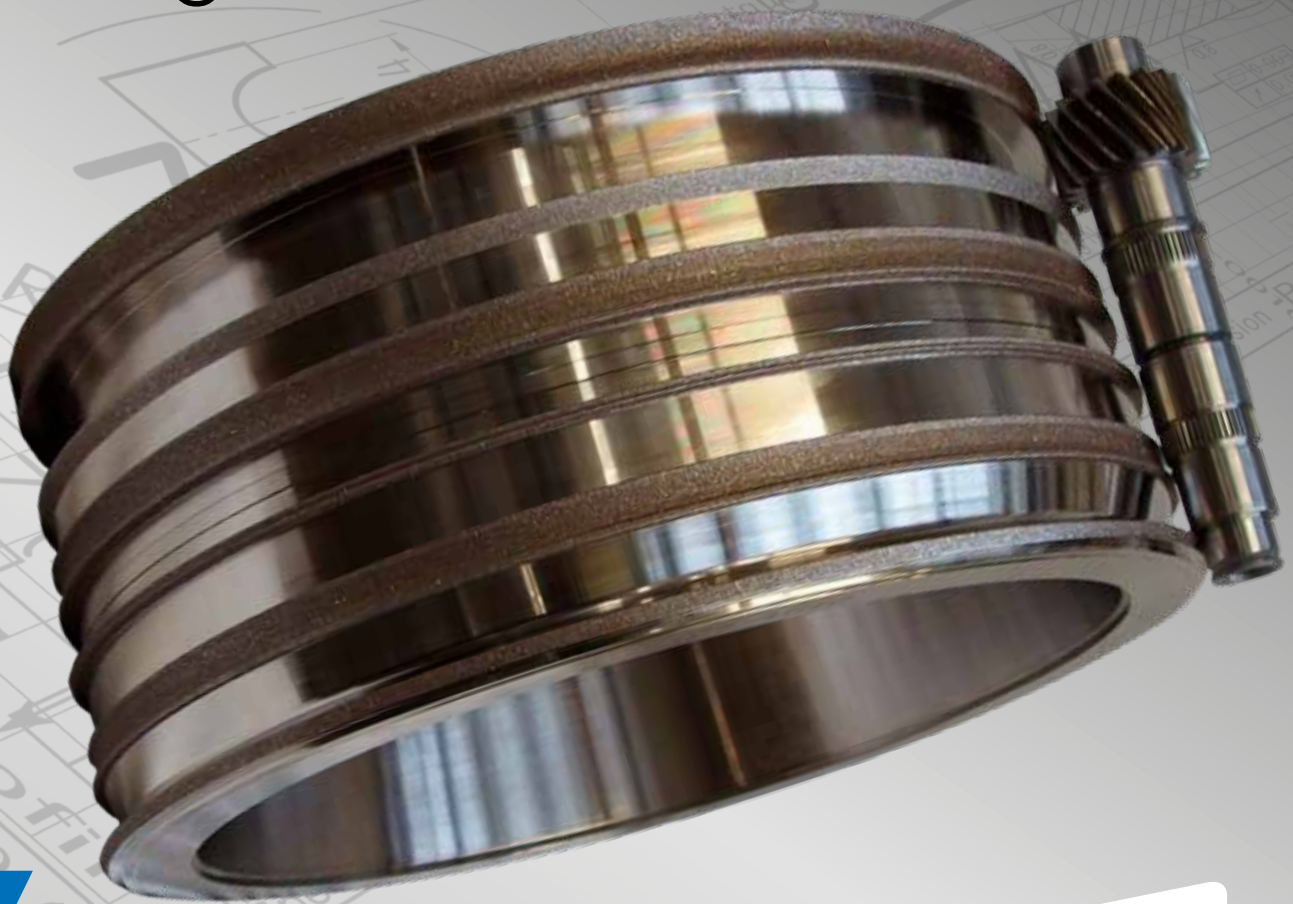


AEON

High precision electroplated
grinding wheels





Norton Winter AEON the latest innovation in electroplated grinding wheels for high precision applications in the automotive market.

AEON wheels have been designed with one usable abrasive layer, with the Diamond or CBN grit particles mechanically fixed onto the core surface by an electrochemical process of nickel deposition which provides high grit retention levels for a very long wheel life.

Once the wheels are worn, the core of the wheel can be re-plated with new CBN or Diamond grain in a continuous re-plating cycle, enabling the wheel core to be re-used several times, a cost saving benefit in the production cycle.

AEON comprises all innovative manufacturing technologies and specifications to offer the highest level of performance in both the automotive and gear box manufacturing industries.

ADVANTAGES:

- AEON has been designed to deliver the best possible option in every step of design and manufacturing.
- Every AEON grinding wheel is highly customized in close communication with the customer providing the best in class performance, with a 50% increase in efficiency, lifetime and re-plating's.
- Through its unique layer design AEON technology improves the superior wear resistance.
- Thanks to the newest methodologies and technologies AEON achieves its outstanding tool life, highest accuracy and perfect profile stability throughout the entire wheel life time. The precision level meets $\pm 5 \mu\text{m}$ profile tolerance at maximum wheel size and maximum weight 250 kg.

CASE STUDY: EP-CBN WHEEL GEAR SHAFT GROOVE GRINDING

Applications

- Gear shaft groove grinding in pre-machined grooves.
- Shaft material: steel

Machine

- Buderus

SGA Tool / Specification

- WINTER – AEON electroplated
- Example SH700-400-41

Competitor / Specification

- WINTER old spec. 25.000 parts
- Competitor 30.000 parts

Cooling

- Oil

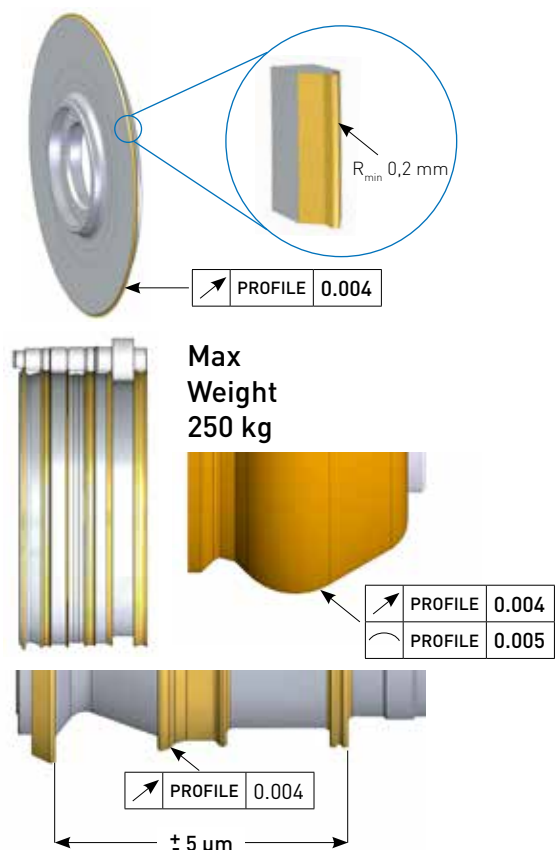
Process Conditions

- Workpiece revolution: 850 U/min
- $a_e = 0,1 \text{ mm}$ stock in the groove (equidistant)
- Wheel speed - v_c : 120 m/s
- Infeed rate: 20 mm/min

BENEFIT

NEW AEON wheel spec. 56.000 parts

DESIGN RANGE & FEATURES



www.nortonabrasives.com

www.youtube.com/NortonAbrasivesEMEA

Saint-Gobain Diamantwerkzeuge

GmbH & Co. KG, Schützenwall 13-17, D-22844 Norderstedt, Germany

Tel: +49 (0) 40 5258-0 Fax: +49 (0) 40 5258-383

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