



3-LAYER POLISHING WHEEL

Elastic wheel for polishing rotation-symmetric shafts

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This 3-layer polishing wheel from TYROLIT has been specially developed for the longitudinal finishing of shafts of a single diameter. Two external, rigid layers support the soft polyurethane grinding layer at the centre. The grinding area is profiled in accordance with the diameter of the shaft being machined. Thanks to the 3-layer structure of the grinding wheel, operating speeds of up to 80 m/s can be achieved. Owing to the short machining cycles, this polishing application is particularly interesting for large batches.

Application
Brushing/finishing machine from
Wieland Anlagentechnik GmbH



+ **Consistent grinding results:** High quality standards and sophisticated production expertise result in consistent and reproducible grinding results. Because polishing is one of the final operations in the machining sequence, this is an essential criterion.

+ **Flexible solutions:** Depending on the customer requirements, polishing wheels are available in a variety of specifications and dimensions. Each polishing wheel is pre-profiled precisely according to customer specifications.



80 m/s

+ **Approved for 80 m/s:** This innovative production technology enables use of the polishing wheels up to 80 m/s. The machining time can therefore be significantly shortened and the grinding costs per unit reduced.

Specification range

Grain type	Grit size in mesh	Bond	Diameter	Width	Bore
Silicon carbide (C)	24 / 46 / 80 / 150 / 240 / 400	BE-14 (soft) / BE-15 (medium) / BE-16 (hard)	200 mm to 400 mm	20 mm to 80 mm	acc. customer requirement
Aluminium oxide (A)	On request	On request	200 mm to 400 mm	20 mm to 80 mm	acc. customer requirement

Example application

Polishing of steering rods
Surface requirement Ra < 1.2 µm, achieved value Ra < 0.87 µm
TYROLIT C80-BE16

Tool life increased by 38%



Structure of internal elastic grinding area