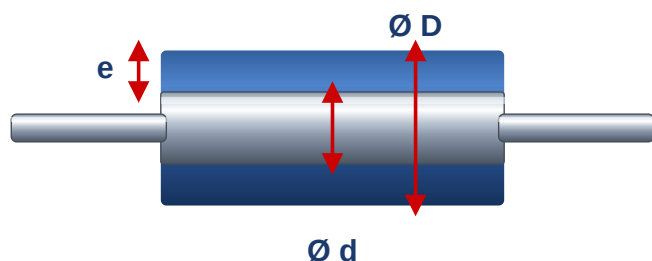


Soremag produces a wide range of roller finishes. This document presents the main versions available. Our team will help you determine the finish best suited to your application.

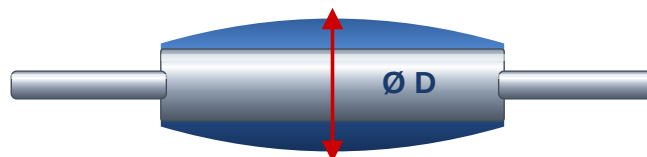
GEOMETRIC FINISHES

1 Cylindrical finish



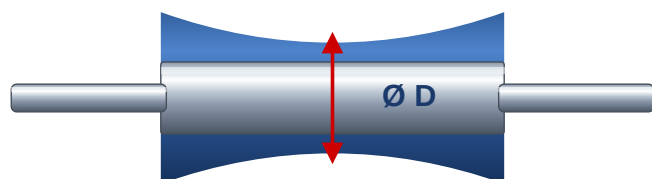
- › The core (iron) diameter is usually called $\varnothing d$
- › The covered diameter is usually called $\varnothing D$
- › The covering thickness is called e
- › $\varnothing D = \varnothing d + (2 \times e)$

2 Parabolic crown (or convex crown)



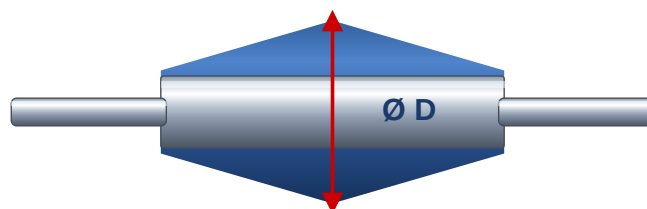
- › The crown is given relative to $\varnothing D$

3 Hyperbolic crown (or concave crown)



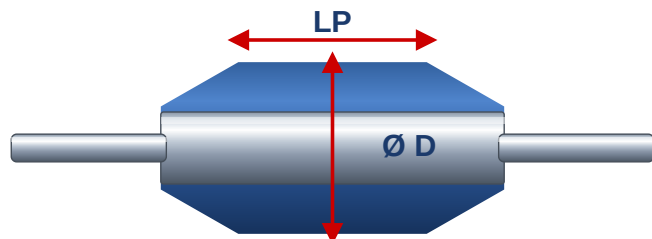
- › The crown is given relative to $\varnothing D$

4 Biconical finish



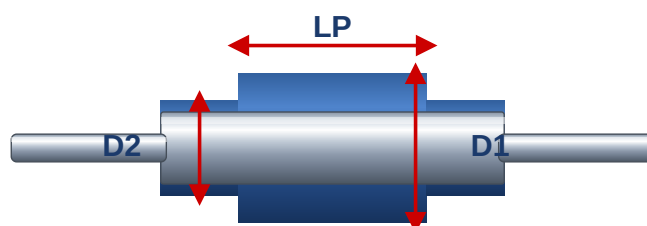
- › The taper is given relative to $\varnothing D$
- › Example: 2 mm/D taper

5 Cylindro-biconical finish (or flat + crown)

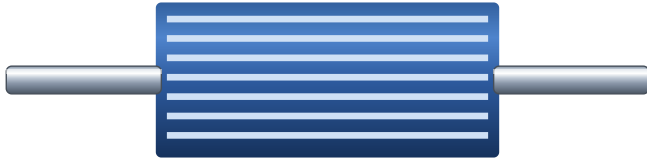


- › The length LP defines the flat
- › The tapers are defined relative to $\varnothing D$

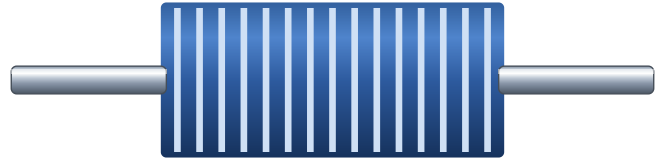
6 Undercut (relief)



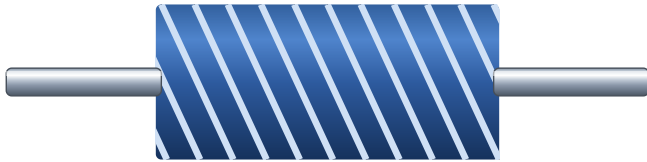
- › $\varnothing D1$ defines the covering diameter
- › $\varnothing D2$ defines the undercut diameter
- › The length LP defines the flat

1 Longitudinal grooving

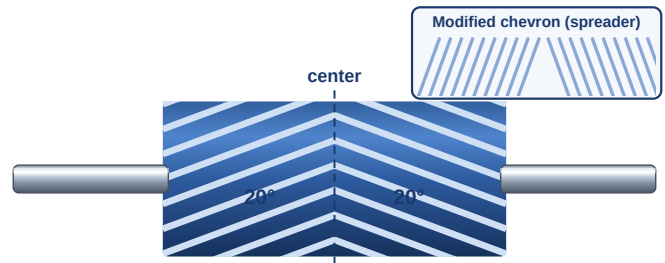
- › To specify: number of starts
- › To specify: groove profile

2 Transverse grooving (or circumferential)

- › To specify: number of starts (pitch)
- › To specify: groove profile

3 Helical grooving (or spiral)

- › To specify: number of starts (pitch)
- › To specify: pitch
- › To specify: direction
- › To specify: groove profile

4 Spreader (chevron)

- › Spreader roll: chevron grooves running from the center to each edge, to spread and de-wrinkle the web
- › Angle = $20^\circ \cdot 1/4" \times 1/4"$ profile (indicative)
- › Indicative spacing: $2" (\varnothing \geq 8") \cdot 1" (\varnothing < 8")$ — direction of rotation to specify
- › Variant: modified chevron — spreader (see inset)

5 Diamond grooving

- › Diamond pattern (double chevron) — sheds water and debris, anti-slip
- › $1/4" \times 1/4"$ profile (indicative)
- › To specify: pitch and groove profile

6 Chamfers

chamfer = h × w or angle × w

- › To specify: either height × width (e.g. 2 × 2 chamfer)
- › To specify: or angle × width (e.g. 5 at 45° chamfer)

STANDARD SOREMAG FINISH — OTHER VERSIONS AVAILABLE ON REQUEST

The finishes shown are indicative. Profiles, pitch, direction and tolerances are tailored to each application. Non-contractual document — indicative values. Contact Soremag for a personalized recommendation.