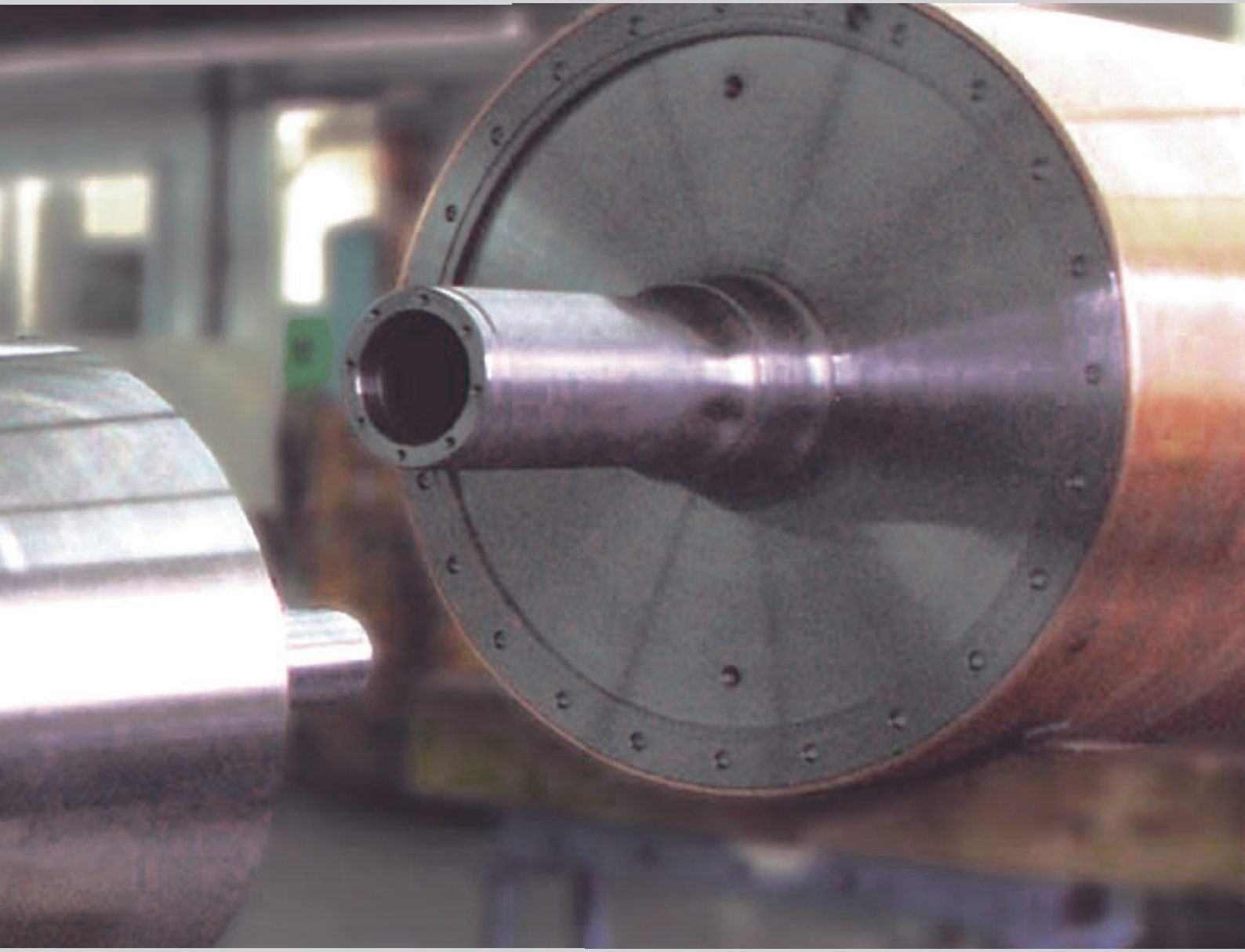
# ROLLER TECHNOLOGIES
# MACHINERY TECHNOLOGIES

50 JAHRE RING & VESTER GmbH
ENGRAVING TECHNOLOGY
seit 1976



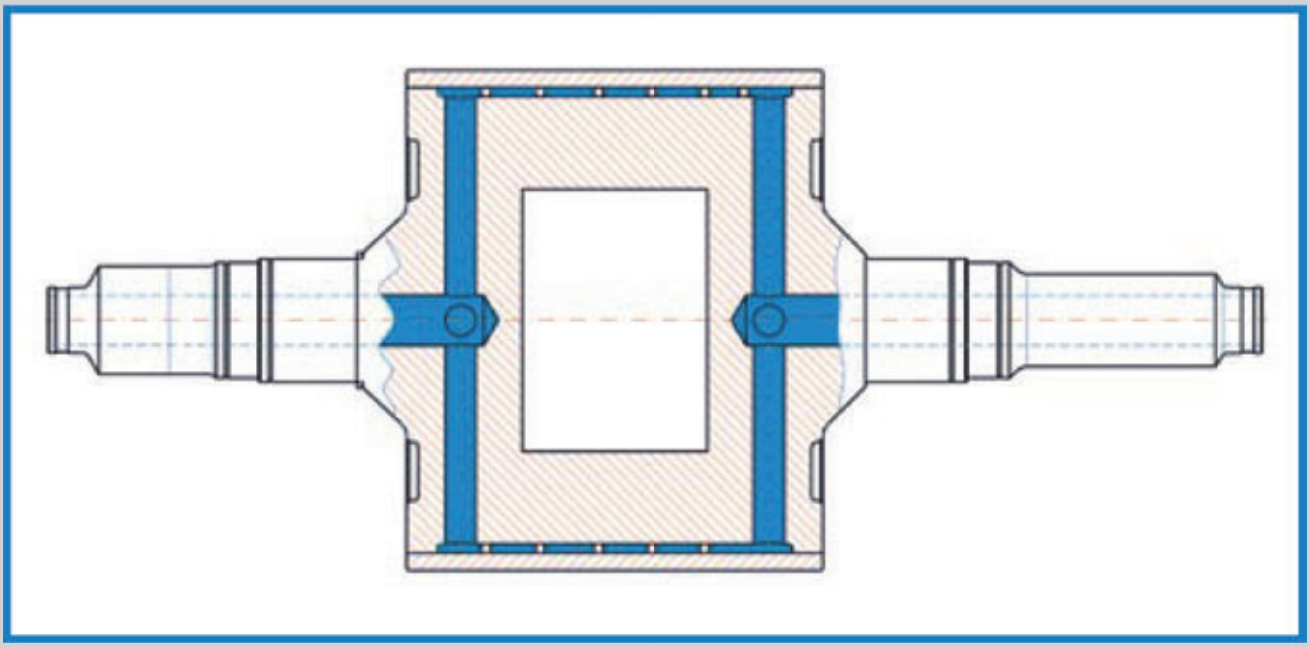
Ring & Vester GmbH | Engraving Technology | Otto-Hahn-Straße 3 | 53842 Troisdorf | Germany
Telefon +49 2241-39250 | Mobil +49 157 850 35 234 | E-Mail: m.boss@ring-group.eu | www.ring-group.com

# REINFORCED SMOOTHING ROLLER



## Manufacturing specifications:

| | |
|---|---|
| Diameter: | von 100 bis 1.100 mm |
| Bale length: | bis 5.000 mm |
| Total length: | bis 7.000 mm |
| Total weight: | bis 5.000 kg |
| Material: | Steel sheath (P355NH, 42CrMo4) or copper sheath |
| Tolerance for concentricity and cylindrical shape: | bis 3 µm |
| Surfaces: | Unhardened, hardened, chrome-plated, matted or super-fine polished to Rmax <0.025 µm, nickel-plated, embossed, ceramic-coated, Teflon-coated, rubberized, etc. |
| Temperature accuracy | < 1°C |



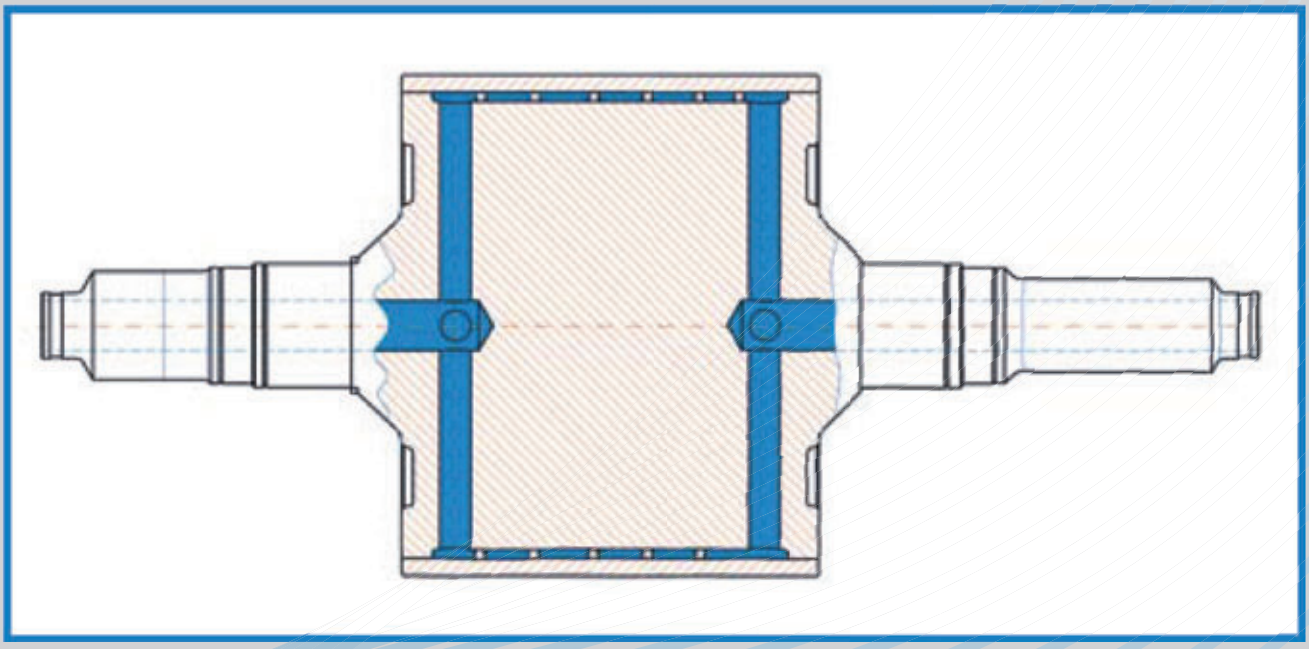
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# RIGID SOLID SMOOTHING ROLLER

## Manufacturing specifications:

| | |
|---|---|
| Diameter: | von 100 bis 1.100 mm |
| Bale length: | bis 5.000 mm |
| Total length: | bis 7.000 mm |
| Total weight: | bis 5.000 kg |
| Material: | Steel sheath (P355NH, 42CrMo4) or copper sheath |
| Tolerance for concentricity and cylindrical shape: | bis 3 µm |
| Surfaces: | Unhardened, hardened, chrome-plated, matted or super-fine polished to Rmax <0.025 µm, nickel-plated, embossed, ceramic-coated, Teflon-coated, rubberized, etc. |
| Temperature accuracy | < 1°C |





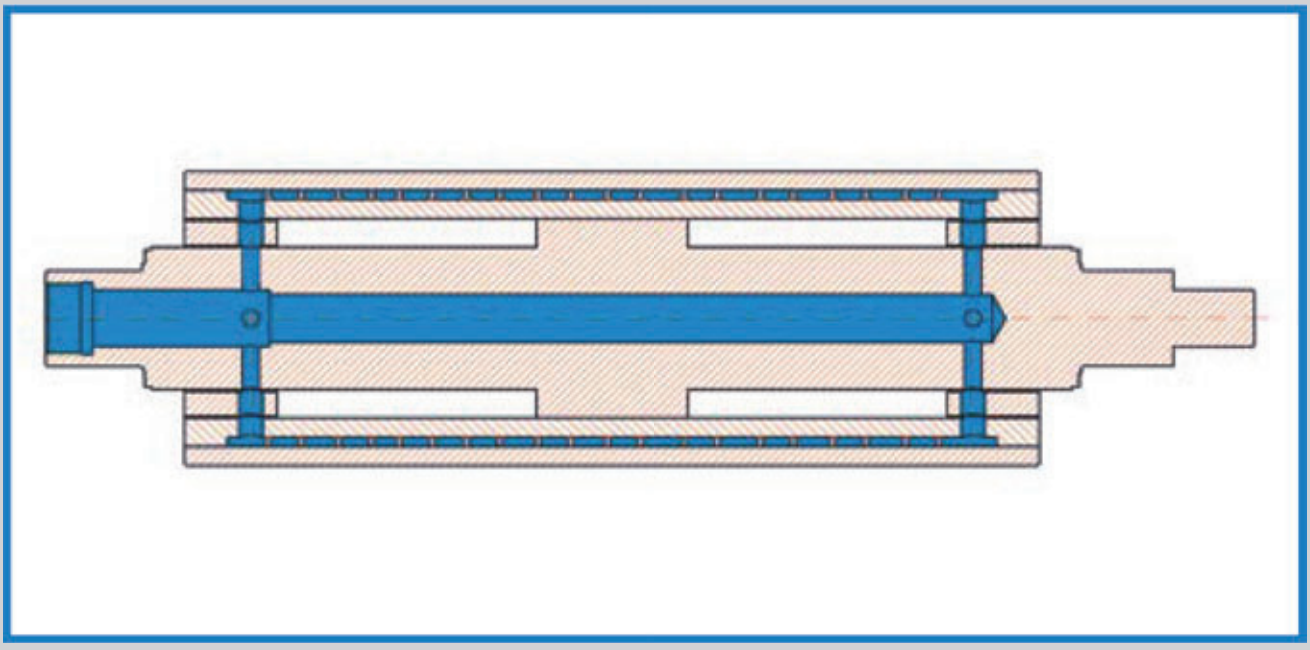
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# GEGENBIEGE GLÄTTWALZE



## Manufacturing specifications:

| | |
|---|---|
| Diameter: | von 100 bis 1.100 mm |
| Bale length: | bis 5.000 mm |
| Total length: | bis 7.000 mm |
| Total weight: | bis 5.000 kg |
| Material: | Steel sheath (P355NH, 42CrMo4) or copper sheath |
| Tolerance for concentricity and cylindrical shape: | bis 3 µm |
| Surfaces: | Unhardened, hardened, chrome-plated, matted or super-fine polished to Rmax <0.025 µm, nickel-plated, embossed, ceramic-coated, Teflon-coated, rubberized, etc. |
| Temperature accuracy | < 1°C |



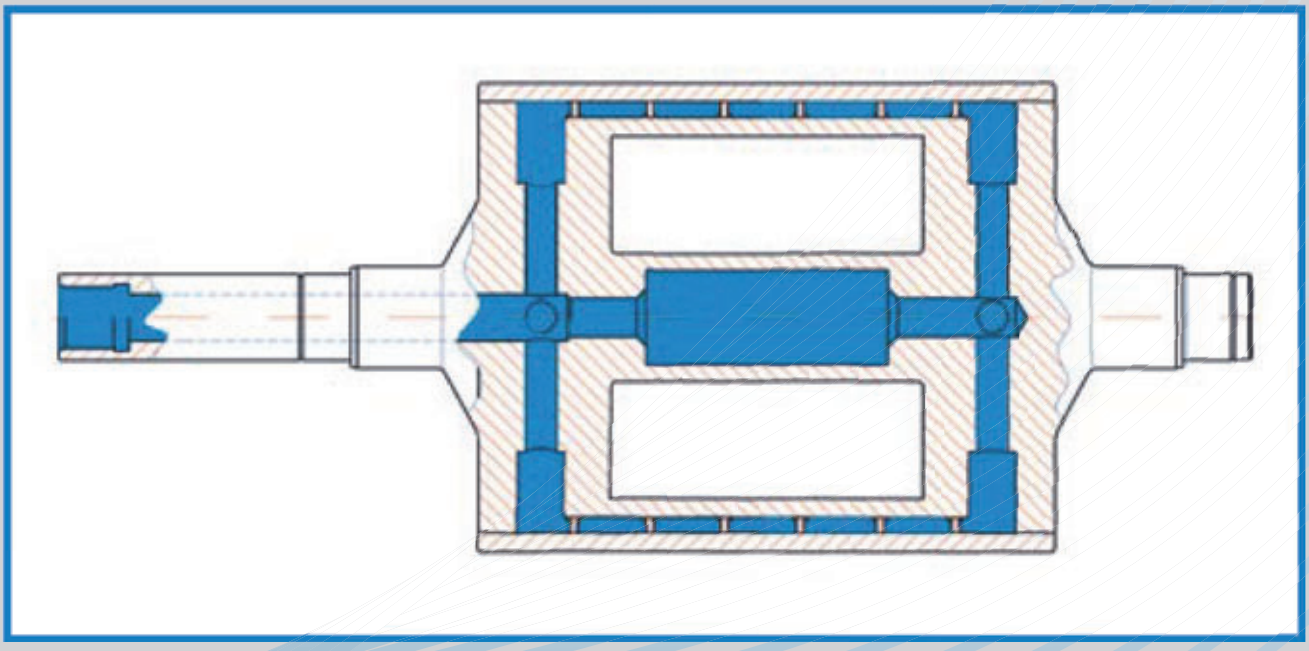
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# HEIZ-/KÜHLWALZE

## Manufacturing specifications:

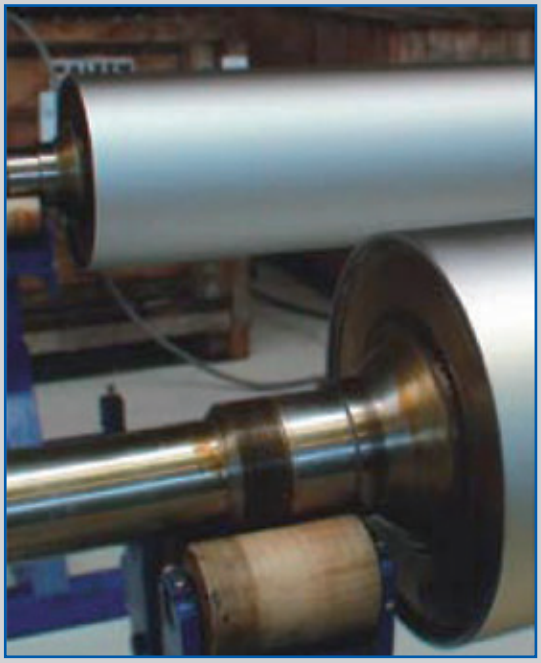
| | |
|---|---|
| Diameter: | von 100 bis 1.100 mm |
| Bale length: | bis 5.000 mm |
| Total length: | bis 7.000 mm |
| Total weight: | bis 5.000 kg |
| Material: | Steel sheath (P355NH, 42CrMo4) or copper sheath |
| Tolerance for concentricity and cylindrical shape: | bis 3 µm |
| Surfaces: | Unhardened, hardened, chrome-plated, matted or super-fine polished to Rmax <0.025 µm, nickel-plated, embossed, ceramic-coated, Teflon-coated, rubberized, etc. |
| Temperature accuracy | < 1°C |





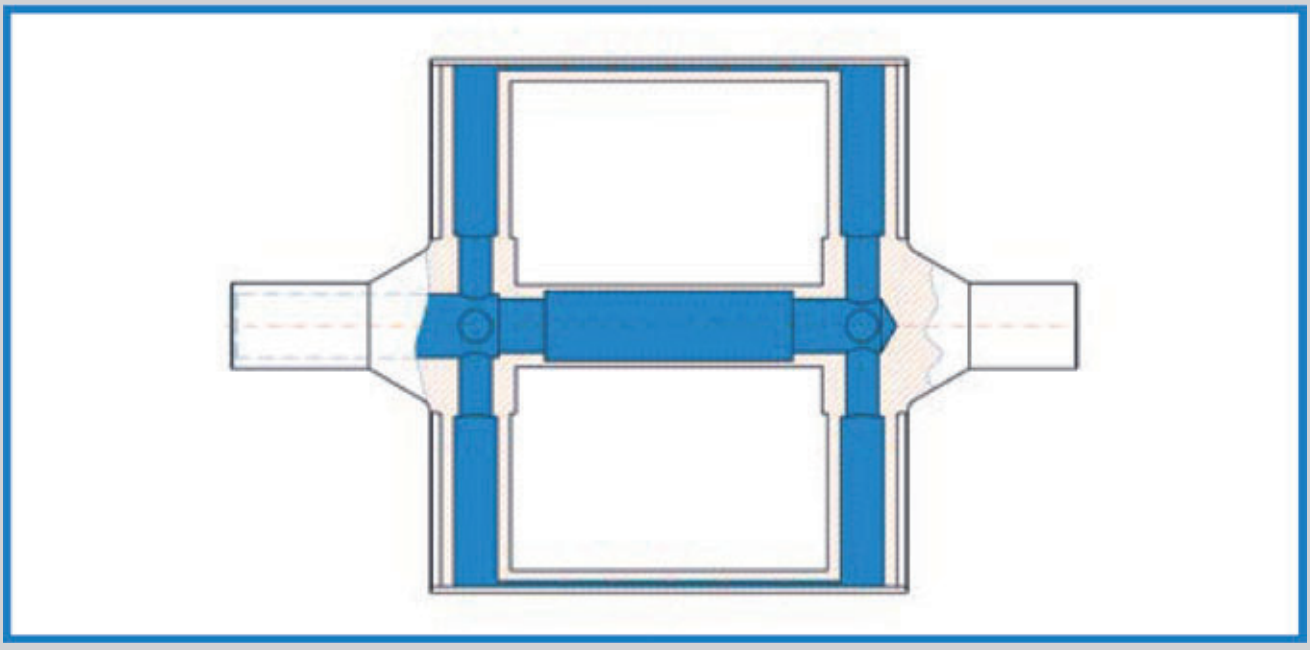
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# CHILL ROLLWALZE



## Manufacturing specifications:

| | |
|---|---|
| Diameter: | von 100 bis 1.100 mm |
| Bale length: | bis 5.000 mm |
| Total length: | bis 7.000 mm |
| Total weight: | bis 5.000 kg |
| Material: | Steel sheath (P355NH, 42CrMo4) or copper sheath |
| Tolerance for concentricity and cylindrical shape: | bis 3 µm |
| Surfaces: | Unhardened, hardened, chrome-plated, matted or super-fine polished to Rmax <0.025 µm, nickel-plated, embossed, ceramic-coated, Teflon-coated, rubberized, etc. |
| Temperature accuracy | < 1°C |

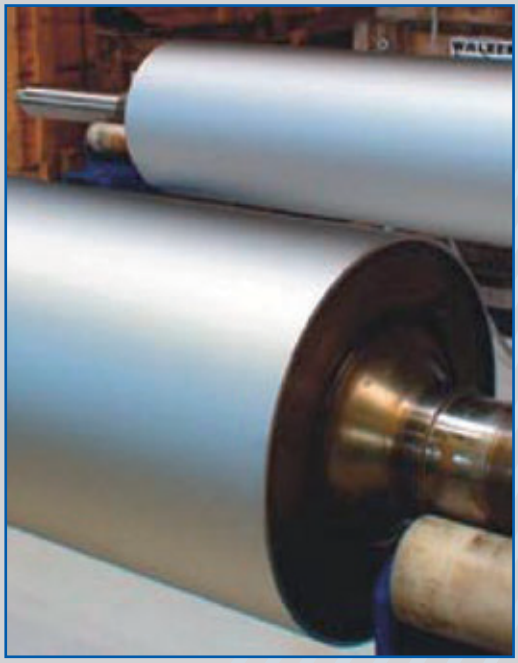


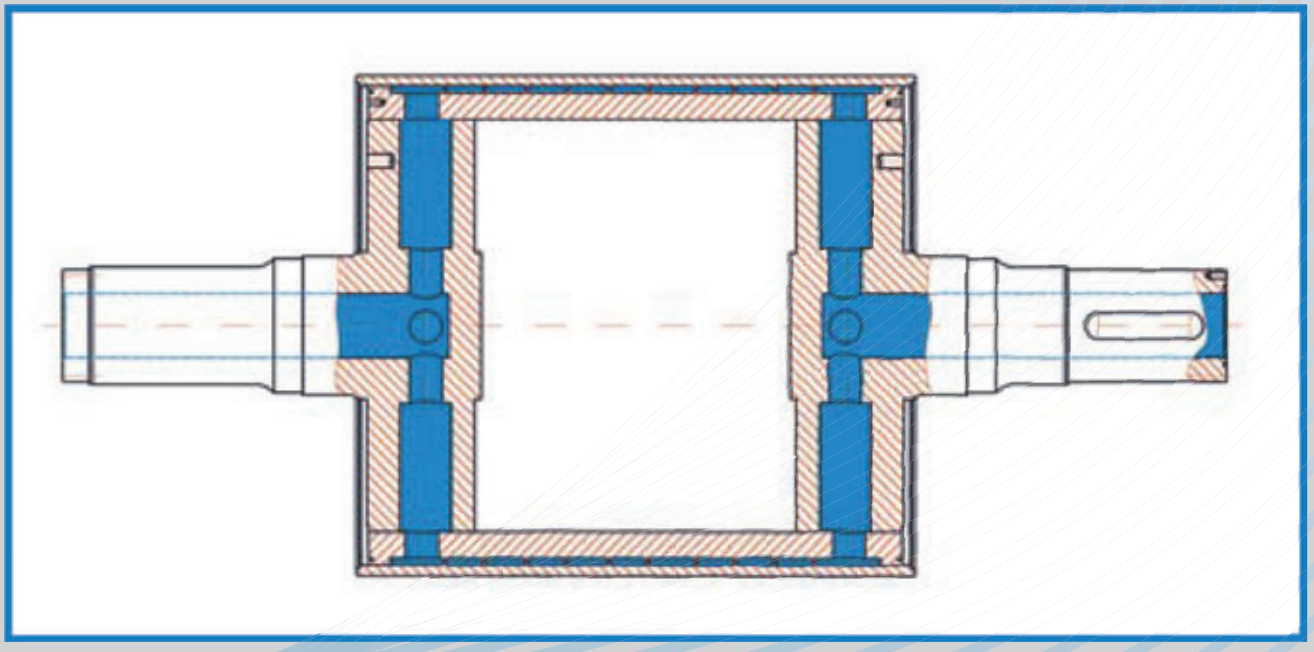
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# LAMINATORWALZE

## Manufacturing specifications:

| | |
|---|---|
| Diameter: | von 100 bis 1.100 mm |
| Bale length: | bis 5.000 mm |
| Total length: | bis 7.000 mm |
| Total weight: | bis 5.000 kg |
| Material: | Steel sheath (P355NH, 42CrMo4) or copper sheath |
| Tolerance for concentricity and cylindrical shape: | bis 3 µm |
| Surfaces: | Unhardened, hardened, chrome-plated, matted or super-fine polished to Rmax <0.025 µm, nickel-plated, embossed, ceramic-coated, Teflon-coated, rubberized, etc. |
| Temperature accuracy | < 1°C |





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# PLASTICS INDUSTRY

## Produkte + Service:

- Calender rolls in engraved and smooth designs
- Heated temper rolls with special coatings
- Engraved casting rolls for cast film applications
- Special embossing rolls for various applications
  (e.g., for markings, anti-blocking properties, print optimization)
- Printing forms (printing rolls/printing sleeves)
- Anilox rolls for a wide range of tasks (engraved and smooth) for applying additives / coatings / silicones / adhesives
- Smoothing and matting rolls (in chrome and ceramic surfaces) up to mirror high gloss

- Design service:
  We offer our customers a wide range of samples in a variety of designs. Every day, we work together with our customers to develop new samples. Here, we use the latest scanner technology

- Technical center facility for customer sampling
- Heating and cooling rollers
- Rubber counterpressure rollers for application and printing units
- Special coatings (e.g., nonstick coatings for various applications)
- Disassembly and assembly of bearings and calender rollers

## Technology:

- Complete roller production (including creation of CAD drawings)
- Grinding and polishing of rollers, including hot grinding at production temperatures
- Various laser engraving technologies, including direct laser engraving on steel
- Knurling technology
- Sophisticated etching processes
- Combination of various engraving processes
- Non-stick coatings

## Applications:

- Film production for various industries, for example:
  Artificial leather, automotive, packaging, hygiene products, office supplies, decorative films, technical films, floor coverings
- Plastic sheet production for vehicle construction, shopfitting, facades, Plexiglas
- Profile production for windows, window sills, door frames, worktops, wall and ceiling panels

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