



### PRODUCT INFORMATION GLASS INDUSTRY



#### PRODUCTS + SERVICES

- ➔ Embossing rollers
- ➔ Main rollers engraved and smooth
- ➔ Cooling rollers
- ➔ Lay-on-rollers
- ➔ Rollers with plasma coatings particularly developed for cooling sections
- ➔ Design development service
- ➔ Glass breaking rollers

All rollers are suitable for high temperature applications.

#### TECHNOLOGIES

- ➔ Complete roller manufacturing processes in-house incl. all requested technologies which are needed to manufacture this very precise rollers
- ➔ Diamond grinding
- ➔ Diverse laser technologies for engraving
- ➔ Mill engraving and etching technologies
- ➔ Various high quality engraving methods like drilling and turning.
- ➔ Special galvanic coatings for smooth and engraved rollers
- ➔ Ceramic coating

Plasma coatings:

- ➔ Chromium oxide
- ➔ Aluminium oxide
- ➔ Zirconium oxide
- ➔ WCCoCr

#### APPLICATIONS

- ➔ Solar glass
- ➔ Decorative glass
- ➔ Figured glass
- ➔ Cast glass
- ➔ Glass Ceramic
- ➔ Solar / Photovoltaic
- ➔ Glass doors
- ➔ Partition walls
- ➔ Furniture
- ➔ Shower cabins
- ➔ Windows
- ➔ Balustrades
- ➔ Balcony separations
- ➔ Ceramic stove tops

#### DIMENSIONS

- ➔ Up to 4500mm x 450 mm Ø  
any Engraving Technology

*UNGRICHT has the knowledge to recommend the appropriate roller materials for the different applications from Glass to Glass Ceramic processes. Please team up with UNGRICHT at an early stage when you project new machines. We can also help to find the right partner for your project.*

