CAMBERED ROLLER SURFACE

A cambered surface finish allows the correction of roller deformation. A roller can deform because of side pressure or even due to its own mass in combination with web tension. The uneven pressure and nip distribution caused can be fully restored thanks to the right surface camber.

The correct camber value can be measured or even calculated. Your Hannecard partner will help you to define the right camber for your application.

Curved spreader rolls (Banana rolls)

These rollers consist of a curved metal shaft on which subsequent bushes and bearings are mounted. The whole is covered by a rubber sleeve, which can be textile reinforced. Two clamps at the edges assure that the rubber sleeve is sealed off.

Curved spreader rolls have following functions:

- Film stretching
- Avoid or eliminate wrinkles
- Reduce tension differences between the centre and the edges of the film (floating edges, floating centre)

Because of the sometimes high production speed and low web tension the bushes are mainly made out of plastic to reduce the inertia of the roller. It is also important to mount the rubber sleeve with well controlled dimensional and shape tolerances to guarantee a stable functioning in time.

Standard and antistatic covers, both rubber and polyurethane, can be obtained within a hardness range of 60 to 80 shore A.

The Hannecard workshops are experienced in total repair and maintenance of curved spreader rolls, as such assuring full service and reliability.

ANTI-STATIC AND CONDUCTIVE COVERS

Hannecard proposes a complete range of anti-static and conductive roller coverings, both in rubber and in polyurethane and within a broad hardness range.

The surface or volume resistivity is measured during the final inspection of the covering.

The resistivity values are:

- For anti-static covers: between $10^4 \ \Omega \cdot \text{cm}$ and $10^8 \ \Omega \cdot \text{cm}$
- For conductive covers: lower than $10^4 \ \Omega \cdot \text{cm}$

MORE INFORMATION?

For more information, please contact your local Hannecard partner or visit our website at: www.hannecard.com