

# ROLL COVERING FOR PLASTIC FILM SPREADING

Due to the high-speed lines in the plastic film industry, it is essential to have high-performance systems so that the film will not fold during the whole process, especially when being wound up.

The spreading of the plastic film depends highly from the roller's geometry rather than the covering's quality.

## Cambered geometry

In order to compensate the bend caused by the roller, due to its own weight and also resulting from the film passing over the roller, the roller is being ground with an arched geometry.

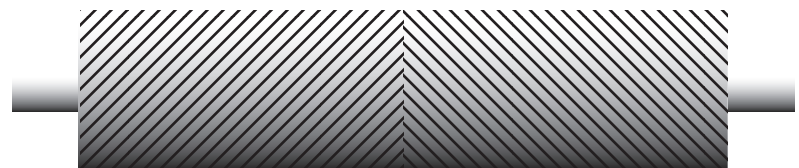


### OUR SOLUTIONS

- Cambered geometry
- Simple spreader
- « Flex Spreader »
- « TendiGraf » spreader
- Curved spreader rolls (*Banana rolls*)
- Possibility: low hardnesses (*up to 20 shore*)
- Antistatic qualities
- Rubber and polyurethane coverings
- Cellular coverings
- Full maintenance on your banana rolls

## Simple spreader

It is based on a grooves' system beginning from the centre towards the exterior in order to bring the film towards the roller's ends and, thus, to spread it.



## Flex spreader

A flex is also a spreader, just like the previous one, but in this case, the groove's profile is oblique.



## The “TendiGraf” spreader

The **TendiGraf** spreader unites the technology of the cambered geometry and the ‘Flex-spreader roll’ in order to obtain a better spreading effect.



Spreader, Flex Spreader and TendiGraf finishings are usually combined with very low hardness coverings. Hannecard can offer you coverings as of 20 shore A and, in an anti-static version, as of 40 shore A on.

## Curved spreader rolls (Banana rolls)

Those rollers consist of a curved (steel or stainless steel) shaft onto which are mounted bearings which are subsequently imprisoned in intermediary butt-jointed sleeves (made of polypropylene, steel or stainless steel).

A rubber sleeve (equipped or not with a textile fold) is then mounted with force onto those sleeves. The watertightness is then ensured by the clamping of both end plates. The functions of this kind of roller are as follows:

- To stretch
- To avoid or eliminate the formation of folds in the web material



Depending on the production line's speeds, which can be pretty high sometimes, the sleeves are mounted with a meticulous respect for the dimensional tolerances and with a pre-clamping thus guaranteeing a stable functioning over time.

Rubber and polyurethane coverings, whether traditional or antistatic, can be obtained in hardnesses ranging from 60 to 80 shore A.

### RELATED DOCUMENTS

- Solutions - ‘Corona treatment’
- Solutions - ‘Winding & Slitting’
- Solutions - ‘Cast Extrusion’
- Solutions - ‘Blown film extrusion’

To obtain a copy, please get in touch with your contact person at Hannecard. These documents are also available in PDF-format on our website at [www.hannecard.com](http://www.hannecard.com)