

MANUFACTURING & REPAIR OF BOWED SPREADER ROLLS

Bowed Rolls, frequently referred to as “Spreader Rolls”, “Curved Rolls” or “Banana Rolls”, are suitable in the paper industry for all applications where there is a requirement to eliminate wrinkles and/or to create a web separation or expansion from the material being processed. In slitting operations, these rollers are used to prevent interweaving of material. According to the application requirements, the rolling elements could be covered by a rubber sleeve or not.

Since 2000, Hannecard France is among others specialized in the manufacturing and repair of bowed spreader rolls for the paper industry.

Next to that, Hannecard Figeac is also involved in on-site jobs such as special thermal coatings, grinding, machining and balancing.

MAINTENANCE, REPAIR & OPTIMIZATION

With more than 100 repairs a year, Hannecard has a solid expertise in refurbishing spreader rolls and is able to repair all types of brands (Mount Hope, Stowe Woodward, Wittler, Irga, Plastex, Robec, Tuvasa, Gorostidi, Kickert, Finbow, Technomec, Hansen, Tevo, ...) in all kinds of positions (very abrasive, corrosive and/or humid environment, placed after infrared, running in large (> 9 meters) and fast (2500m/min paper machines...). If needed, an optimized solution is proposed for the improvement of the machine performances and/or for the reduction of the maintenance costs.

MANUFACTURING OF NEW ROLLS

Hannecard manufactures its own high standard and quality spreader rolls for over 15 years now for all applications.

New spreader rolls can be supplied with a rubber sleeve or with hard surface segments. The design of the roll is defined on the use and on the customer's needs.

The surface of the roll can be customized on request for fast, dry, wet and/or high temperature applications, with “hard” metal or “soft” rubber surface.

POSSIBLE SURFACE STRUCTURES

1. Spreader rolls with rubber sleeves:

- For wet or dry environment
- Type of rubber specifically selected according to the chemical & thermal environment (max t° 150°C)
- Special Surface Release properties available
- Internal reinforcement for higher mechanical resistance in application speed higher than 200 m/min

2. Spreader rolls with metallic segments:

- For wet or dry environment
- Surface structure according to the application requirements
- Fine tuned solutions for the surface material of the segments (steel, stainless steel, hard chromium, tungsten or chromium carbide with adjustable roughness, teflon tungsten carbide)
- Grooving possible on high speed machines



disassembling of segments



cleaning of segments



lubrification



sealing



bearings in segments



Dynamic balancing segments



rubber sleeve



test run & final control

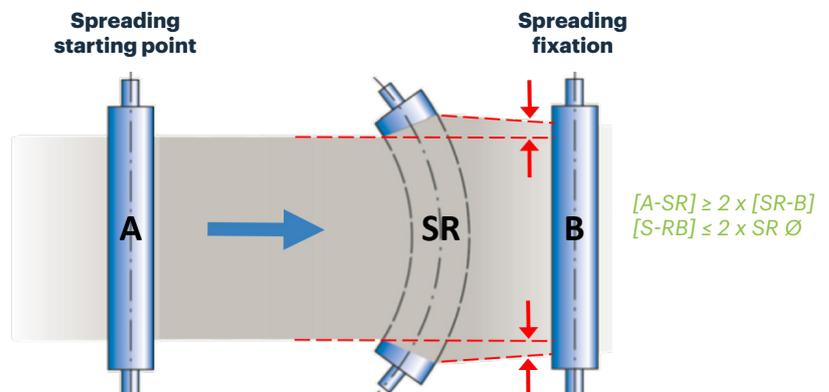
OVERHAUL STAGES

- General inspection and measurements at receipt of the roll
- Disassembling of the roll and segments, cleaning and storage
- Inspection report including pictures of damaged parts and recommendations for optimization if needed
- Reassembling of the segments
- Dynamical balancing and vibration analysis of each segment
- Reassembling of the roll with replacement of wearing parts (bearings, sealings, couplings, ...)
- Run on the test bench (control, running in, critical speed detection...)
- Control report including the vibration print
- Packing and shipping

OUR SPREADER ROLL BENEFITS

- Fine-tuned optimizations
- High performance
- High durability
- Excellent energy-saving performances
- Wide range for all applications from wet to dry
- Improved end product quality
- Long lifetime
- Increased running times
- Control report including the vibration print
- Packing and shipping

RECOMMANDATIONS FOR OPTIMAL SPREADING EFFECT



- As long as possible distance between A and SR
- As short as possible distance between SR and B

NEED MORE INFORMATION?

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