

## RANGE OF COMPOSITE COMPONENTS

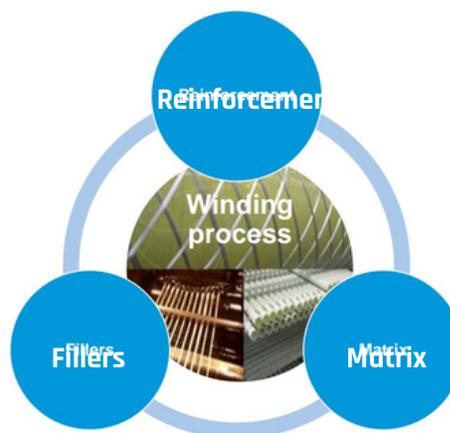
For 40 years, the HEF group has been developing and manufacturing a full range of friction components to meet the most diverse needs of its customers. The flagship products of this range are the metal bushings, which stand out for their use of specific surface treatments and adapted topographies enabling high precision guidance in extreme conditions (heavy loads, abrasion, shocks, corrosion, etc.). These bushings are a reference in many sectors such as construction equipments, agriculture, the steel industry, etc. The range now includes composite bushings. They enable operation under high "pressure - speed" conditions without lubrication. These are products that protect the environment by eliminating lubrication waste and removing the need for maintenance operations related to lubrication.



The friction components of HEF are found in excavators, train brake systems, continuous casting ladles, cranes, dam gates, ploughs, and have many other uses and applications. All this know-how is applicable to any part subject to friction whatever the shape. The brands are: PEL<sup>®</sup> (PEL, PEL HP, PEL BH, and others), MANGACHOC<sup>®</sup>, FAM<sup>®</sup>, TESCO<sup>®</sup>, COD11<sup>®</sup>, H-LINER<sup>®</sup>(H-LINER S, H-LINER M, and others).

### H-LINER<sup>®</sup> Bushings range

- Maintenance free
- Medium & high load resistance
- Low friction coefficients
- Abrasion resistance
- Machining absorption
- Low water absorption
- Weight reduction
- Low wear rate



### Medium/High load maintenance free

Dynamic load resistance

80 MPa : 11,000 psi

140 MPa : 20,000 psi



H-LINER<sup>®</sup> M

H-LINER<sup>®</sup> S

**Our markets:**



Defense



Agriculture



Construction



Handling



Hydropower



Environment



Railway



Steel industry



Mining equipment

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