

## METAL APRON FEEDERS

### Description:

Hinges of the pallets (links), carrier rollers and drive rollers.

### Operating conditions:

- Friction under severe abrasion (rocks, sand, etc.)
- Speed: oscillating motion for pallet hinges or continuous, low-speed motion for rollers
- Dynamic contact pressure: up to 50 MPa
- Impacts due to rocks falling onto the conveyor.
- Temperature: ambient
- No lubrication required

### Previous solution:

- Axle: case-hardened steel
- Bushings in case-hardened steel or in bronze regularly lubricated or rollers with lifetime lubrication

→ Problems: - Bushings: rapid wear – regular lubrication required

- Rollers: destruction due to impact and ingress of particles
- Axles: occasional breaks due to impact and indentations caused by lubrication bores

### HEF solution:

- Shrink disc fitted on the axle: PEL - ST
- Bushings: FAM maintenance-free (lubricate only at installation)

→ Benefits: - Service life of the assemblies increased by a factor of 5

- No more unintentional breaking of the axles.
- No more regular lubrication (lower maintenance costs)

### Customers:

The LAFARGE Group  
Ciments Calcia  
The Vicat Group  
Holcim