

## METALLIC DECK CONVEYOR

### Description:

Joints of rollers and of chain links on metallic deck conveyors

### Conditions of use:

- Friction under severe abrasion (rock, sand...)
- Speed: oscillating motion for joints of the chain links and continuous motions for rollers joints
- at low speed
- Dynamic contact pressure : up to 50 Mpa
- Shocks due to rocks falling on the conveyor
- Temperature: Ambient
- No lubrication required

### Previous solution:

- Pin : case hardened steel
- Bearing : case hardened steel or bronze bushings with regular lubrication or roller bearing

Problem: - bushings: fast wear and lubrication required

- roller bearing: breaking because of shocks and abrasive particles

- pins: occasional breakings because of shocks and of the brittleness due to lubrication

holes

### HEF solution:

- Sleeve fit on the pin : PEL – ST
- FAM Bushing with maintenance free (only initial lubrication)

Advantages: - Life time multiplied by a factor of up to 5.

- No more occasional breaking of the pins

- No more regular lubrication (decreasing of maintenance costs)

### Customers:

LAFARGE Group

CALCIA

Ciments d'Origny