

Optimized Sliding Frame Pick-up Door

Maintenance-Optimized Variant for Pusher,
Rotary Hearth and Ring Hearth Furnace Plants



REBUILDING AND MODERNIZATION

Performance optimization + process reliability + energy efficiency

OPTIMIZATION POSSIBILITIES OF EXISTING SLIDING FRAME PICK-UP DOORS

Due to the extreme conditions in operation:

- **Increased maintenance** due to metallically sealed surfaces
 - Possible formation of **leaks** due to distortion from thermal load and formation of clumping and scoring
 - **Cyclical disassembly** required for **cleaning** and **grinding** of sealing surfaces
 - In-depth expertise required for **settings adjustments** after maintenance
- Increased operating costs to compensate for leaks and **increased lubricant consumption**
- Gas leaks or escaping flames possible in the previous versions
 - **Safety-relevant**, as CO can escape
- Central lubrication system with progressive distributor
 - **Possible failure of lubricant supply** due to deposit of solids without the option of monitoring
 - **High pressure** is required, which leads to **demulsification** of the **lubricant**

THE AICHELIN ADVANCE

- Double braided seal with grease core. Grease packing between the seals results in improved properties of **auxiliary lubricant** and significantly **better tolerance** for door adjustments and/or warping
- **Graphitized lubricant** with solids
- New central lubrication system
 - **Single pumping system** with low working pressure
 - Each **lubricant line** can be **monitored separately**
- **Several variants**, which can be perfectly adapted to AICHELIN or NON-AICHELIN PLANTS.
 - Variant with door frame welded to casing
 - Variant with door frame screwed to casing
 - Small flange with large door – seal is inside the casing flange
 - Large flange with small door – seal is inside the door

YOUR ADVANTAGES

- Maintenance-friendly
- Enhanced operational safety
- Better resource consumption
- Improved system availability
- Process reliability
- Easy to implement (module replacement with various variants)
- Highly compatible with all plants (also NON-AICHELIN PLANTS)
- Widely proven product by AICHELIN

YOUR RELIABLE PARTNER

- Competent engineering partner
- Reliable supplier of components
- High level of expertise in plant modernization
- An experienced partner for AICHELIN plants and third-party plants