FLSMIDTH CEMENT

BUILT TO FEED ENGINEERED TO LAST

PFISTER® APRON WEIGHFEEDERS (AWF) and APRON FEEDERS (AF) deliver robust and reliable materials handling for bulky raw materials with capacities up to 1500 tph.

PFISTER Apron Weighfeeders and PFISTER Apron feeders comply with the relevant EC directives:

- 2006/42/EC (Machine directive)
- 2014/35/EU (Low-voltage directive)
- 2014/30/EU (Electromagnetic compatibility)

Optional

- UL 508 & MSHA

ACCURATE AND RELIABLE CONTINUOUS DOSING

Heavy bulk materials require robust handling. Our PFISTER® Apron Weighfeeder and PFISTER Apron Feeders use durable materials to handle even the heaviest materials, promising consistently reliable performance in a compact and easy-to-maintain machine.

KEY BENEFITS

- **Stable material feeding**
- **Outstanding reliability**
- **Standard lengths and widths**
- **Large feeding range**
- **Easy to maintain**

PFISTER® APRON WEIGHFEEDER

OPTIMAL PROCESS EFFICIENCY AND RELIABILITY

Combining the durability of an apron feeder with high-precision weighing technology, the PFISTER® AWF ensures optimal process efficiency and reliability in even the most demanding environments.

Designed for handling a wide range of bulk materials – from fine powders to coarse, abrasive minerals – the Apron Weigh Feeder provides continuous, controlled feeding with minimal material spillage and wear. Its robust construction, advanced load cell integration, and intelligent control system enable superior accuracy, making it an ideal choice for industries that require dependable and efficient material handling solutions.

The PFISTER® AWF measures as it feeds, bringing the precision of PFISTER's weighfeeder technology to applications where heavy-duty feeders are required. Ideal for clay, raw mix, limestone, minerals, raw coal, etc., the PFISTER® AWF utilises thick steel trays for the feeder belt to withstand heavy loads. Chains along either end of the feeder help move the trays along the conveyor area. The volume and weight of materials are controlled using PFISTER® ProsCon® control technology to achieve highly stable short- and long-term accuracy.

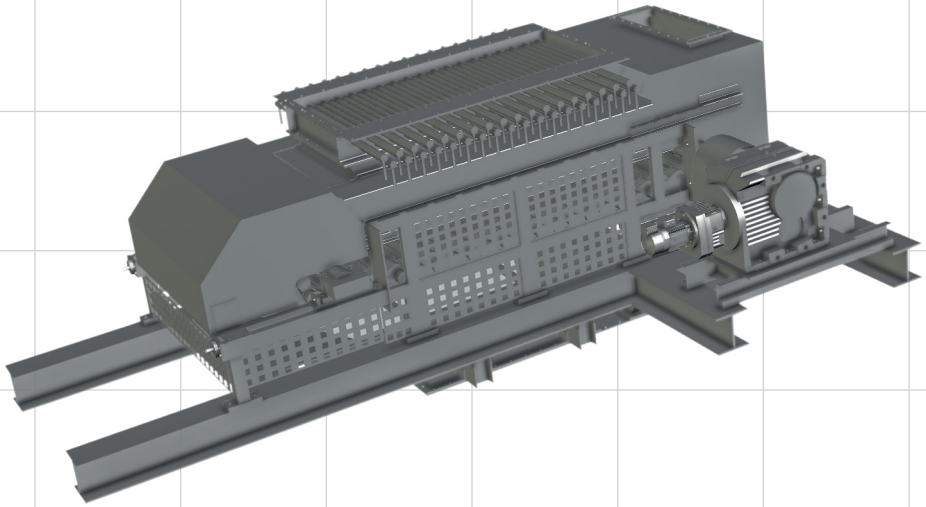
How it works

With an exceptional dosing accuracy of ±0.5% across a wide feed range (10–100% of maximum feed rate), the AWF features a robust four-load-cell weighing system that ensures real-time mass flow measurement for optimal process control. Integrated speed feedback via an encoder enables precise regulation through a variable frequency drive (VFD), interfaced with the PFISTER® controller for digital monitoring and remote adjustment.

The AWF features a high-strength apron belt, chain and sprockets with a minimum breaking load of 20 tons, and wear-resistant components for extended service life. Additional features such as side skirts to prevent spillage, slippage monitoring, wire brush pan cleaning, and multiple hopper configurations support operational efficiency with minimal maintenance. Operating in temperatures from -20°C to +55°C depending on the controller type, and offering a standard dosing range of 1:10 (with higher ratios available upon request), the AWF is your dependable solution for high-precision, low-maintenance material dosing.

The PFISTER® Apron Feeder has the same design and properties as the AWF, but is used only as a discharge feeder without a dosing function. It is robust enough to be suitable for a range of heavy-duty materials, including limestone, clay, clinker, raw coal, and other minerals. The belt portion of the apron feeder is made from thick steel trays. Chains along either end of the feeder help move the trays along the conveyor area.

With the **Prospective Control ProsCon®** the PFISTER Apron Weighfeeders achieve highly stable short- and long-term accuracy.



Application fields: Feeding bulk materials

Type of materials: Good flowing or medium sticky, large and bulky size materials such as limestone, sand, gypsum, clay, iron ore, clinker, raw coal, raw mix, minerals etc.

Material temperature: 50° C (standard); up to 250° C (optional)

Max. lump size: 150 mm

Feeding capacity: Up to 1500 tph (higher capacities on request)

Design example:

- Inlet hopper
- Head and tail pulley
- Flat type idlers with mounting brackets
- Discharge hoppers with shut-off devices
- Drive unit with shaft mounted gearbox
- Cleanout conveyor

Dosing control:

- PFISTER® dosing controller
- VFD drive
- User oriented interfaces

Features:

- Consistent feed rates
- Highly reliable
- Compact, robust machinery
- Large feeding range
- Easy maintenance

Options

- Rod pin gate
- Top pan cover
- Protection or safety guard
- Material chain scrapper below Apron Weigh Feeder Emergency rope switch
- High material temperature package (up to 250° C)
- Increased ambient temp. ranges
- Max: -20° C...+55° C. depend. on chosen control

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