FULLER®

PFISTER® FEEDEX™ OVERHEAD RECLAIMER

ALTERNATIVE FUELS STORAGE

ALTERNATIVE FUELS

BUILT FOR SAFE AND RELIABLE OPERATIONS

Designed for demanding alternative fuel applications, the Pfister's FEEDEX™ OHR delivers reliable overhead stacking and reclaiming with continuous operation, minimal maintenance, and long-lasting performance in harsh, abrasive material environments. The system offers versatile handling of RDF, MSW, and biomass, making it ideal for non-free-flowing and compressible materials. It ensures complete discharge, prevents bridging and clogging, and provides high intake and extraction capacity with low energy consumption.

KEY BENEFITS

01

Optimised for blending fuels and AF homogenisation

02

Continuous and flexible operation

03

Easy replacement

04

High storage capacity

05

Low energy consumption, cost effective

06

Easy maintenance and service, ATEX certified

FLEXIBILITY AND LOW ENERGY CONSUMPTION

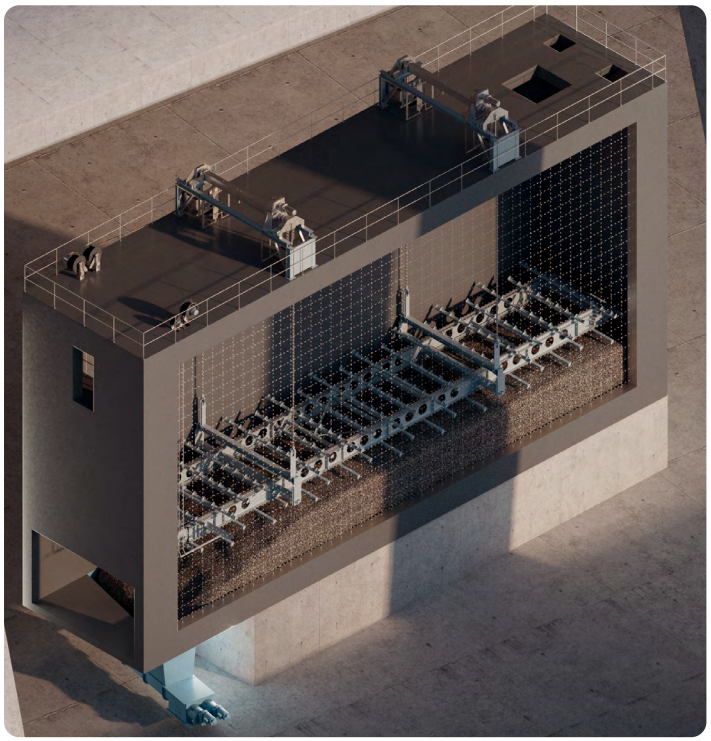
Fuller Technologies, formerly FLSmidth Cement is a leading provider of alternative fuels (AF) solutions. It offers a wide range of products, such as the PFISTER TRW-S/D Rotor Weighfeeder, and Feedex™ Overhead Reclaimer, the Fuelflex® Pyrolizer, and the Hotdisc® Reactor.

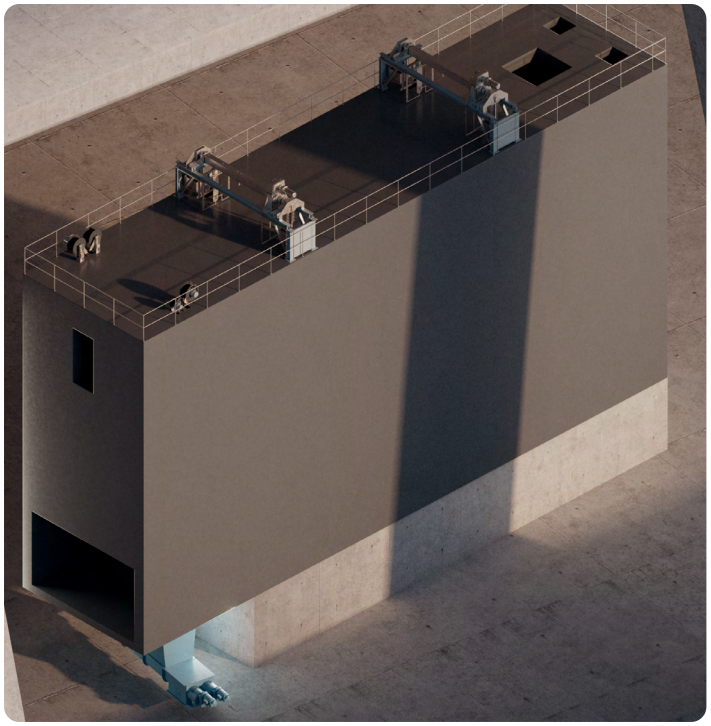
The company also provides the patented FEEDflex™ technology, which significantly lowers the minimum feedrate (feed range 1:100) of the PFISTER DRW Rotor Weighfeeder. This enables the highest possible AF substitution rates and maximizes primary fuel savings.

The Feedex system is applicable for a wide range of AF, for example Refuse-Derived Fuels (RDF), Municipal Solid Waste (MSW), biomasses like wood chips, rice husk and many other materials. It is particularly suitable for storing non-free-flowing AF and compressible materials, such as dry/wet RDF. The Feedex system eliminates bridging and clogging of AF, ensuring complete discharge. It has low energy consumption, and is easy to maintain and clean.

Both the storage and reclaim system are either in one enclosed box or in multiple boxes to allow for blending. The box is usually made of concrete or steel, and allows simultaneous feeding and extraction at a capacity of up to 600 m3/hour.

Inside the box, the Feedex frame is suspended on marine-quality hoisting chains and is powered by dust-proof, fan-less motors. The scrapers move continuously to distribute/stack the material inside.





Standard bunker size

Height	15 m
Width	5 m
Length	30 m

Storage capacity

Up to 1250 m^3

Drive power

Main Drive	2x12 KW
Hoisting Drive	2x5 KW

Intake Capacity

Up to 600 m^3/h

Extraction capacity

Up to 300 m^3/h

Other sizes and capacities are available upon request.

OPTIMISED FUEL BLENDING AND HOMOGENISATION

The modular design – from a single box to multiple boxes – is flexible to match your needs. You can store different fuel types in separate boxes and blend the fuel to facilitate optimal firing. The system is optimised for blending fuels and ensures AF homogenisation – both in the box and between boxes.

The technology has been proven to handle extreme climates, at temperatures down to -25 °C and up to +50 °C, and the drive in the Feedex frame is designed with a built-in dust filter and a self-cooling motor, maximising reliability.

The system supports a high Thermal Substitution Ratio (TSR), in both the kiln and calciner, significantly reducing fuel costs, helping plants become more sustainable and ultimately lowering the CO2 footprint.

Safe, reliable and easy to maintain

The Feedex system is ATEX certified and stands out with its safety features. Unlike other systems, the marine-quality hoisting chains mean no loaded wires where plant staff are walking, significantly improving safety.

When the Feedex is combined with the PFISTER TRW-S/D Rotor Weighfeeder you get the most accurate dosing of AF into the kiln burner or calciner.

Pfister® dosing system

Feedex™ Overhead Reclaimer

Our overhead reclaimer is suitable for several sizes of alternative fuel:

- Main burner: 30x30 mm (2D)
- Calciner: 100x100 mm (2D)
- Hotdisc®: 300x300 mm (2D)
- Gasifier: 300x300x300 mm (3D) - particles < 1 kg.
- Hotdisc®: 300x300x300 mm (3D) - particles < 1 kg

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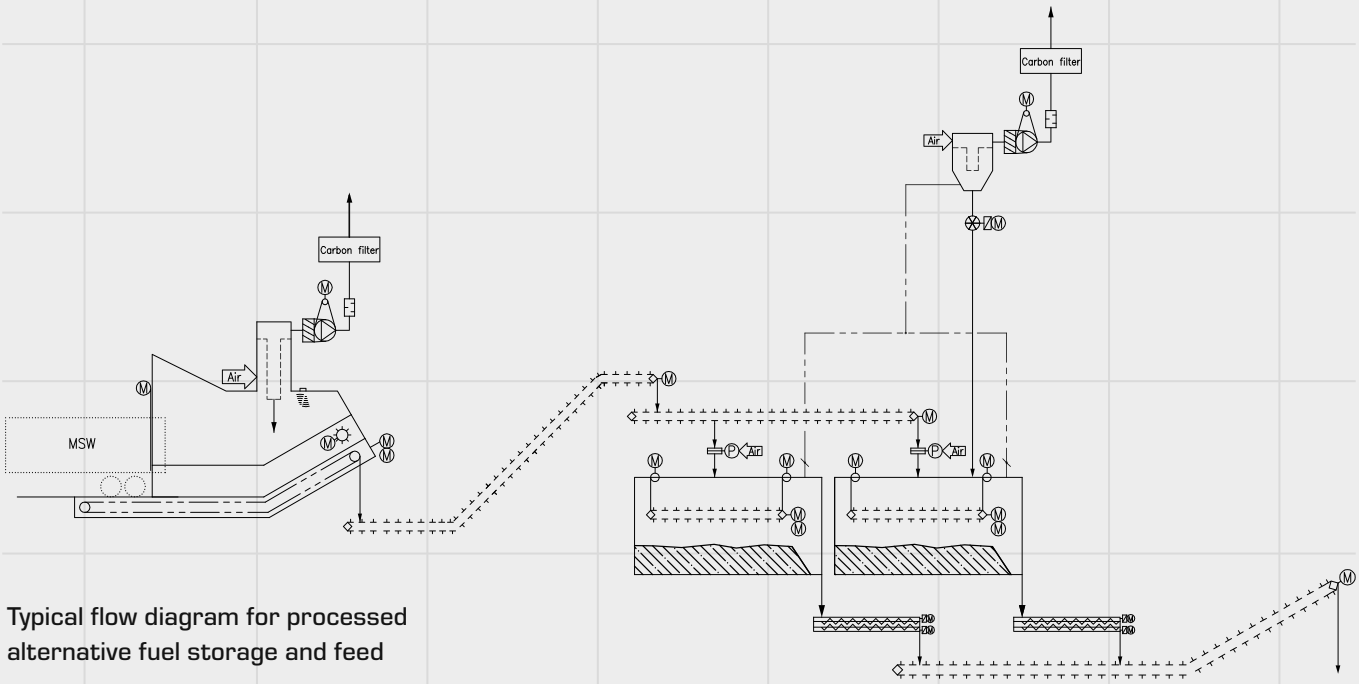

Typical flow diagram for processed alternative fuel storage and feed

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