FLSMIDTH CEMENT

BROCHURE

FEEDEX™ OVERHEAD RECLAIMER

Alternative fuels storage

Storing alternative fuels with the FEEDEX overhead reclaimer system

- High volume live storage in an enclosed building
- Optimised for blending fuels and AF homogenisation
- Eliminates problems with bridging and clogging
- Ensures complete discharge
- Robust, heavy duty design
- Low energy consumption, cost-effective
- Easy maintenance and service, ATEX certified

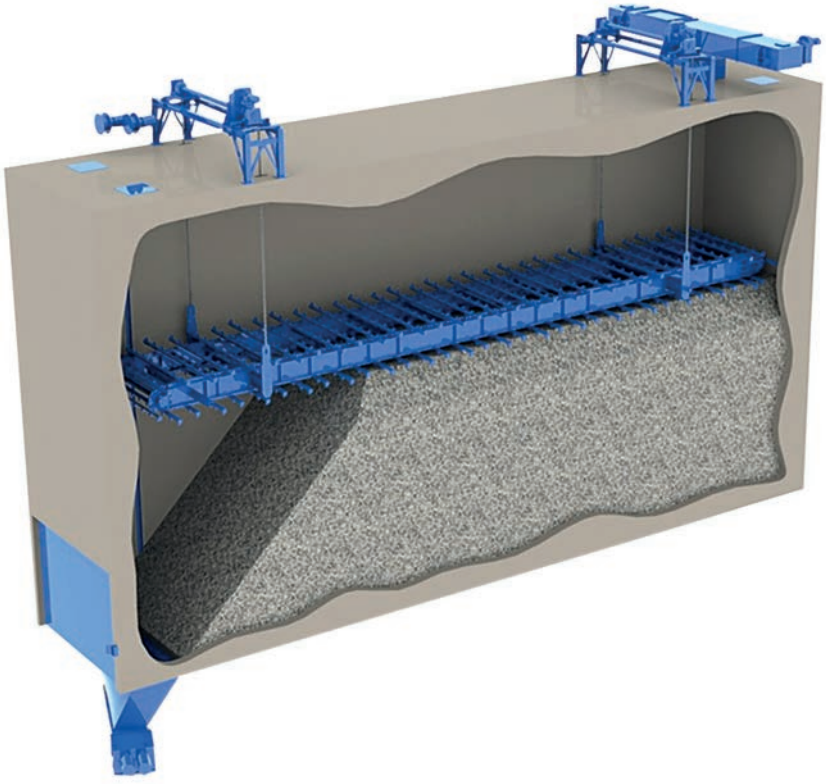
FLEXIBILITY AND LOW ENERGY CONSUMPTION

FLSmidth Cement is a leading provider of alternative fuels (AF) solutions offering a wide scope of products, such as the Pfister® TRW-S/D Rotor Weighfeeder, the Feedex™ Overhead reclaimer, the Fuelflex® Pyrolizer or the Hotdisc®, but also the patented FEEDflex™ technology to lower significantly the minimum feedrate (feed range 1:100) of the Pfister® DRW Rotor Weighfeeder to enable highest possible AF substitution rates and save primary fuel to its maximum extent

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 m³

Drive power

Main Drive 2x12 KW
Hoisting Drive 2x5 KW

Intake Capacity up to 600 m³/h

Extraction capacity up to 300 m³/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 FLSmidth Pfister® rotor weighfeeder TRW-S/D dosing system you get the most accurate dosing of AF into the kiln burner or calciner.

The Feedex 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

Feedex™ overhead reclaimer

Pfister® dosing system

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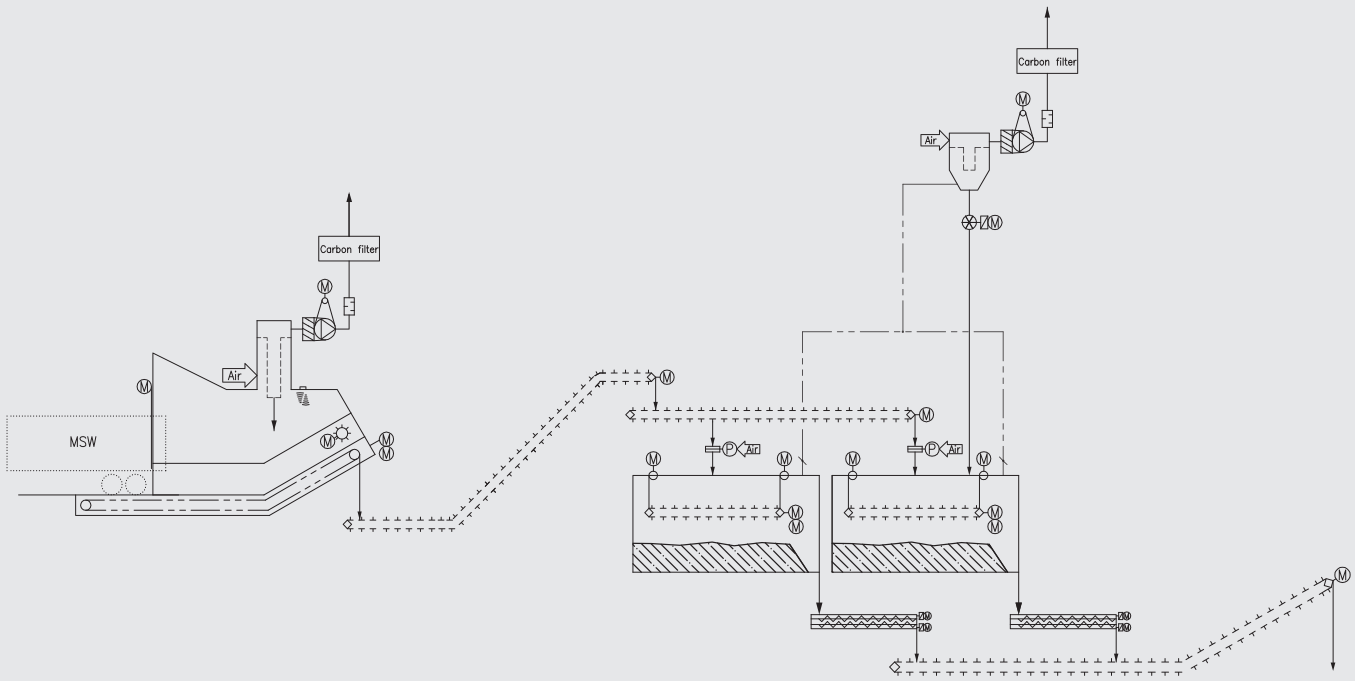

Typical flow diagram for processed alternative fuel storage and feed

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