Diemme Filtration

SOLID-LIQUID SEPARATION TECHNOLOGY FOR INDUSTRIAL PROCESSES

SIDE BEAM
FILTER PRESS ME

A brand of
Aqseptence Group

ME, speed and automation

Design

ME is a Diemme® Filtration side-beam filter press that is extremely versatile, allowing customisation to suit specific processes and clients' requirements.

Automation

ME is completely automatic, with short cycles and minimum idle times. The simultaneous plate-pack opening system ensures that the cake is discharged in a very short time.

Dimensions

The Diemme® Filtration ME series offers both large and small models. The small presses are fully automatic, which makes these the smallest available in the world.

Membrane plates

Membrane plates are used for special applications where in-chamber cake washing (using water or other solvents) or drying (with compressed air or other gas) is required.

Model	Working pressure (bar)	N. of installed plates Min Max	Cake Volume (l) Min Max	Filtration area (m²) Min Max	Length (mm) Min Max	Empty weight (kg) Min Max
630	15	20 ÷ 24	150 ÷ 180	11 ÷ 13	2800 ÷ 4400	1350 ÷ 1500
800	15	15 ÷ 30	220 ÷ 370	14 ÷ 28	4300 ÷ 5850	2800 ÷ 3500
1000	15	21 ÷ 50	490 ÷ 1000	32 ÷ 75	6000 ÷ 9900	6800 ÷ 10000
1200	15	18 ÷ 51	600 ÷ 1500	40 ÷ 110	6000 ÷ 10500	8310 ÷ 13900
1500	15	17 ÷ 56	900 ÷ 2895	60 ÷ 190	6200 ÷ 13000	12300 ÷ 24800

A wide range of technical solutions
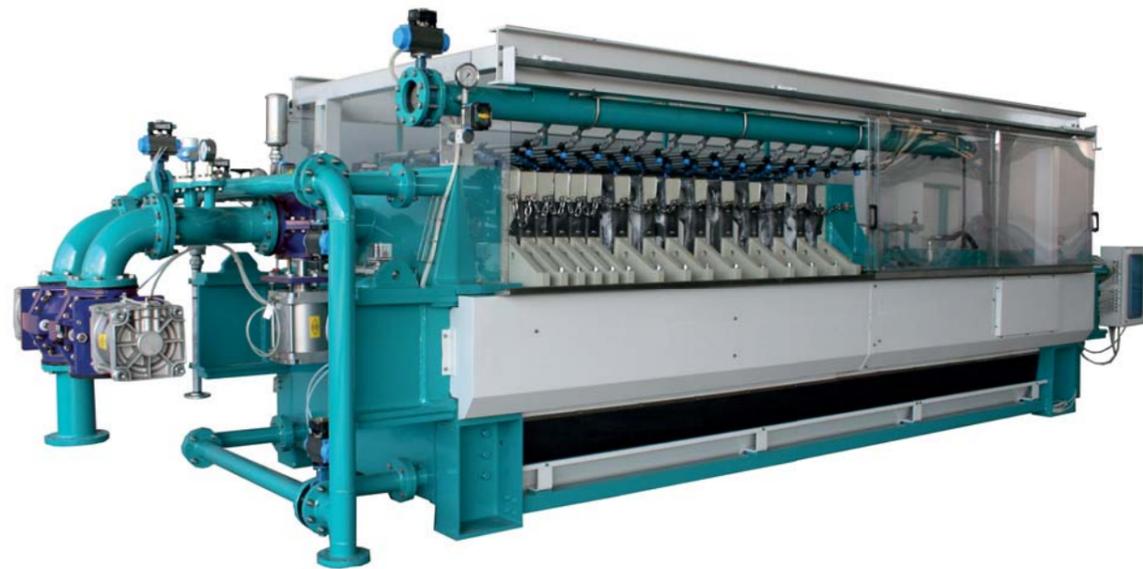
Rinse cloth washin

A close network of nozzles located above the plate pack showers the cloths with water, removing dust and cake remnants.

High-pressure automatic cloth washing

A robotic arm equipped with nozzles, clean the cloths with high pressure (50 bar) water jets directed perpendicularly onto the cloth surface. This system guarantees thorough cleaning of the cloths, and consequently, helps maintain an optimum filtration rate.

Plate-shaking device

A cam-and-follower mechanism shakes each plate simultaneously, removing residual cakes or cake fragments from the chambers.

Protective bellows for hydraulic jack

The piston of the hydraulic jack is protected against dust and corrosive liquids by a cloth-and-rubber bellows.

Accordion-style plate pack opening and plate shifting

All plates are linked to the mobile header. As the mobile header is opened, the plates follow at close intervals allowing the filter cakes to be discharged in rapid succession, minimising the time that the filter is in "dead mode".

NEW ME
Concept and design

The **NEW ME** filter press is a state-of-the-art machine that combines in one single project qualities such as speed, reliability, flexibility, safety and structural simplicity.
The machine is designed for automatic operation.

Simultaneous opening of the plate pack

The cake discharge time is significantly reduced compared to traditional plate opening-closing systems with the use of an accordion-style plate pack opening and closing system. This fast operation increases the filter's throughput production.

Cloth rinsing system

On the ME the filter cloths are rinsed after each cycle to prevent the accumulation of cake fragments and dust. Furthermore, the rinsing ensures the sealing surfaces of the filter cloth are clean providing a tight seal upon closing. The cloth rinsing system, comprised of wash pipes located at the top and lower portion of the plates on both sides of the filter, provide a thorough rinsing of the filter cloths while leaving the upper area of the machine free to perform routine maintenance operations.
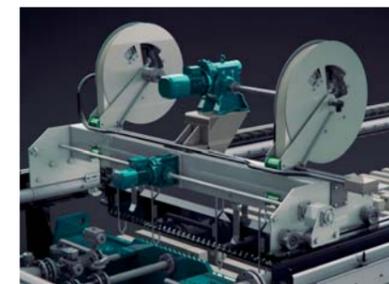
Automatic cloth washing

The automatic in-situ cloth washing system, which is programmable according to the user's needs, uses high pressure wash water and directional sprays to effectively regenerate the filter cloth permeability. The results are filter cloths with more consistent filtration performance and longer life.
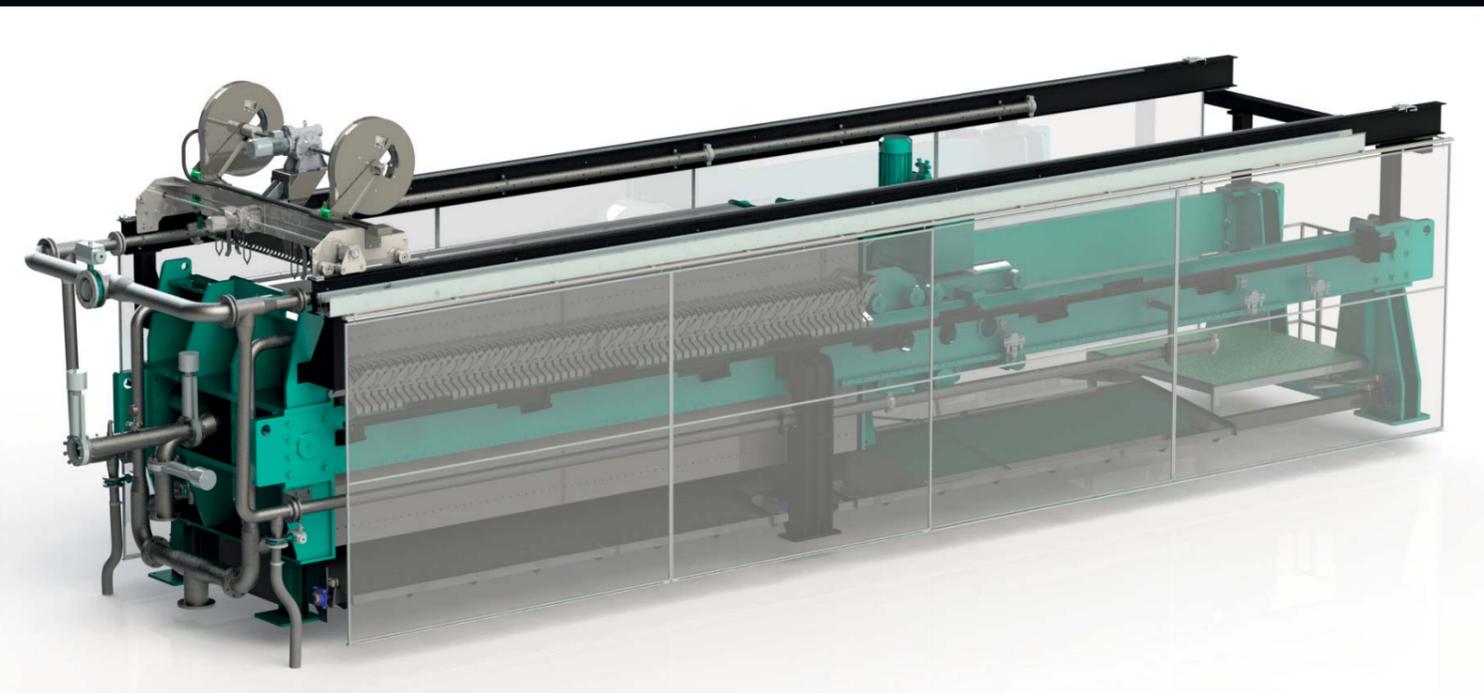
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