

DIEMME
FILTRATION



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Solutions and Systems

World wide leader in solid-liquid
separation technology for industrial processes



SALES AGENT'S
STAMP

DIEMME S.p.A. reserves the right to bring any alteration at any time which is deemed to be necessary in order to improve its production

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ME

ME, speed and automation



Design

ME is a side-beam filter press that is extremely versatile, allowing customisation to suit particular 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

ME series offers both large and small models. The latter are the smallest truly-automatic filters in the world.

Model	Plate size (mm)	Working pressure (bar)	No. of installed plates		Cake volume (l)		Filtration area (m ²)		Length (mm)		Empty weight (Kg)	
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
ME 630	630 x 630	15	20	24	150	180	11	13	2800	4400	1350	1500
ME 800	800 x 800	15	15	30	220	370	14	28	4300	5850	2800	3500
ME 1000	1000 x 1000	15	21	50	490	1000	32	75	6000	9900	6800	10000
ME 1200	1200 x 1200	15	18	51	600	1500	40	110	6000	10500	8310	13900
ME 1500	1500 x 1500	15	17	56	900	2895	60	190	6200	13000	12300	24800

A wide range of accessories



Ventilation hood

A ventilation hood or enclosure allows corrosive or noxious vapours and gases to be collected and removed by an extraction system, ensuring that the operator and the environment is protected from harmful exposure.



Automatic cloth washing

• Low-pressure

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

• High-pressure

a robotic arm equipped with nozzles cleans 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.



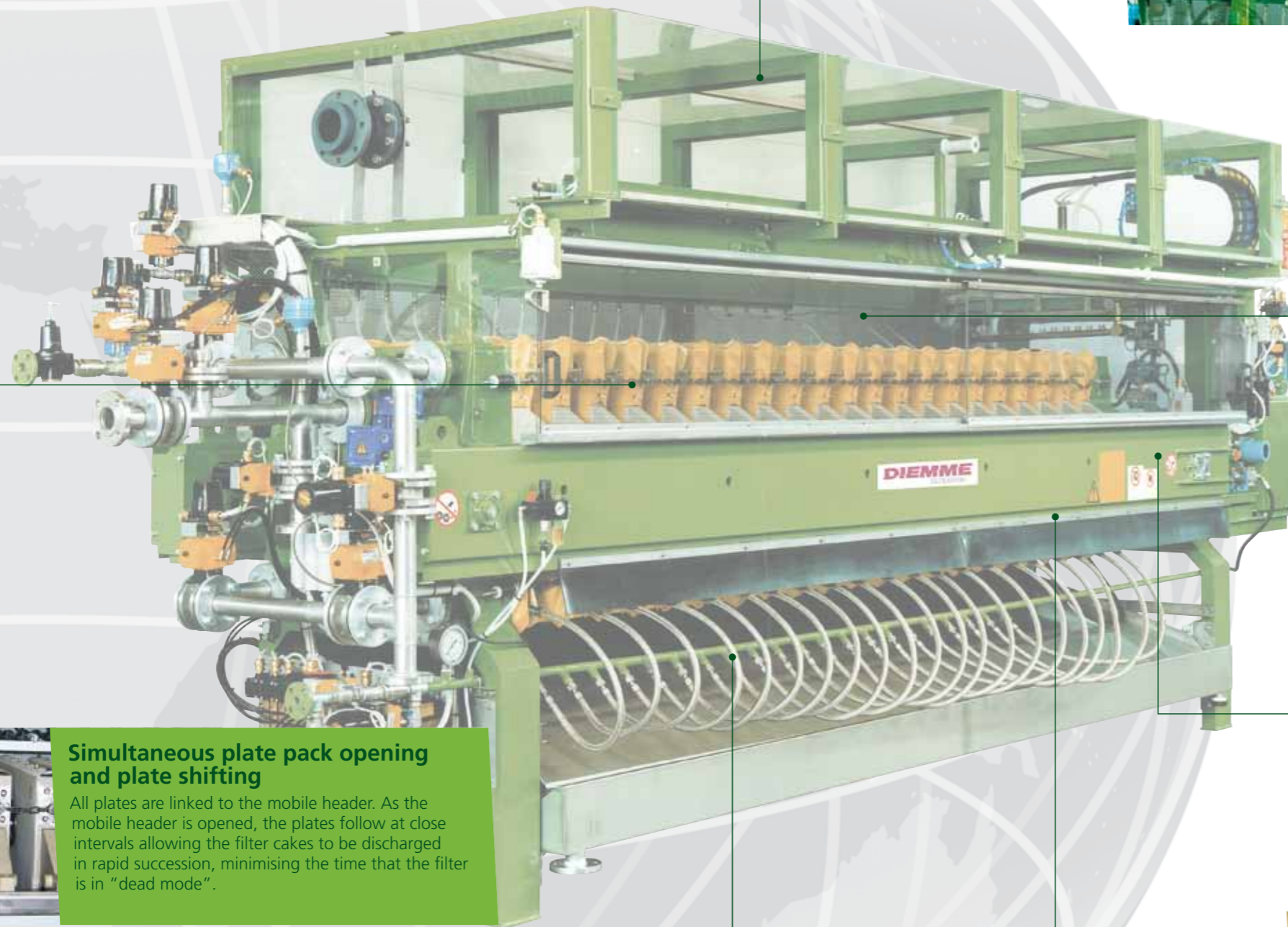
Plate-shaking device

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.



Simultaneous 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".



Variable-volume chambers (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. The use of membrane plates significantly increases the efficiency of cake washing and cake drying.

ME

DIEMME Filtration offers customised features for the complete ME range, ensuring that there is an ME model to suit the most difficult or unusual applications



ME 630

- **Product:** filtration of sludges from metal-finishing industry containing chromium, zinc, aluminium, copper
- **Plates:** recessed 630X630
- **Accessories:** sliding covering in 316 stainless steel
- **Special devices:** toothed belt for transport of plate-shaking wedges



ME 1200

- **Product:** filtration of slurries from chemical industry
- **Plates:** membrane 1200X1200
- **Accessories:** smoke ventilation hood
- **Special devices:** 316 stainless steel coatings



ME 1500

- **Product:** filtration of slurries from mining industry and micronized siliceous sands
- **Plates:** membrane 1500X1500
- **Accessories:** special abrasion-resistant valves
- **Special devices:** plexiglass protection barriers