



**Diemme
Filtration**



SOLID-LIQUID SEPARATION TECHNOLOGY FOR INDUSTRIAL PROCESSES

OVERHEAD BEAM FILTER PRESS GHS

**A brand of
Aqseptence Group**

GHS

Speed and Versatility



Design

GHS is an overhead beam Diemme® Filtration filter press, particularly suitable for dewatering of aggressive slurries, allowing customisation to suit particular processes and clients' requirements.

Automation

The filter plates, which are hung from the upper beam, are moved automatically by a rapid carousel shifting device which reduces the filter press opening and closing time to the minimum.

Membrane GHS

In special applications, when the production process requires cake washing stages with solvents or cake drying stages with compressed air, the use of membrane plates allow these operations to be executed efficiently prior to discharging the cake.



Model	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	Min	Max
1000	15		25 + 134		475 + 3644		37 + 212		7200 + 12200		12500 + 22000	
1200	15		60 + 155		1600 + 5852		126 + 350		10200 + 14200		17400 + 26400	
1500	15		66 + 170		2886 + 10410		223 + 605		11200 + 16200		21750 + 33000	

The details which make the difference



Centralina idraulica di chiusura del pacco piastre



The plate pack closing and opening system delivers high reliability in all working conditions.

Protection of the shifting device



The plate-shifting mechanism, located inside the upper beam, is effectively protected from sludge, dust and corrosive chemicals by a continuous belt of rubber-lined cloth.

Plc



The GHS is provided with a sophisticated automation system equipped with a human-machine interface (HMI) that simplifies the monitoring of the filter operation, enables quick diagnosis of faults and allows the continual adjustment of filtration parameters in order to optimise the process to suit variable feed conditions.

Load cells



Placed under the supporting feet, load cells constantly monitor the machine weight to ensure all cakes are discharged. The throughput of each load can also be recorded for accurate production tracking.

Mobile hoist



Sliding platform, positioned under the plate pack for inspection and replacement of cloths.



A mobile hoist is available to reduce downtime in the rare event of plate removal.

Carousel type plate shifting



The carousel plate shifting device assures quick and sequential plate movement by means of an automatic transport system controlled by an inverter.

Automatic cloth washing system



Reliable cloth cleaning using a robotic device ensures that optimum filtration rates are maintained.

Laser



A laser control system ensures correct plate pack alignment and stops the filter press in case of an anomaly, so that any damage can be avoided.

Diemme® Filtration offers customised features for the complete GHS range



GHS P4/54 MEM

The Photo on the left shows a Membrane Filter Press mod. GHS Diemme® Filtration used for dewatering of sludge coming from fume treatment in a steel plant which produces ferro-manganese



The safety barriers are not represented in this draft.

GHS P6/68

The photo on the right shows a Filter Press mod. GHS Diemme® Filtration used for polishing of platinum salts solution in hydrochloric acid in the platinum and zinc refining process.



GHS P3/25 MEM

The photo on the left shows a Filter Press model GHS Diemme® Filtration used for dewatering of sludge coming from a company which recovers lead from discarded batteries



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