

**DIEMME**  
FILTRATION



**OVERHEAD BEAM  
FILTER PRESS  
GHS**

**DIEMME**  
FILTRATION

**Solutions and Systems**

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



Pureworld Solutions Inc.

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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## Speed and Versatility



### Design

GHS is an overhead beam 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.

Model	Plate size [mm]	Working pressure [bar]		No. of installed plates		Cake volume [litres]		Filtration area [m <sup>2</sup> ]		Length [mm]		Empty weight [Kg]	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1000	1000 x 1000	15		25	134	475	3644	37	212	7200	12200	12500	22000
1200	1200 x 1200	15		60	155	1600	5852	126	350	10200	14200	17400	26400
1500	1500 x 1500	15		66	170	2886	10410	223	605	11200	16200	21750	33000



### 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 allows these operations to be performed efficiently before discharging the cake.

## The details which make the difference



### 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.



### 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.



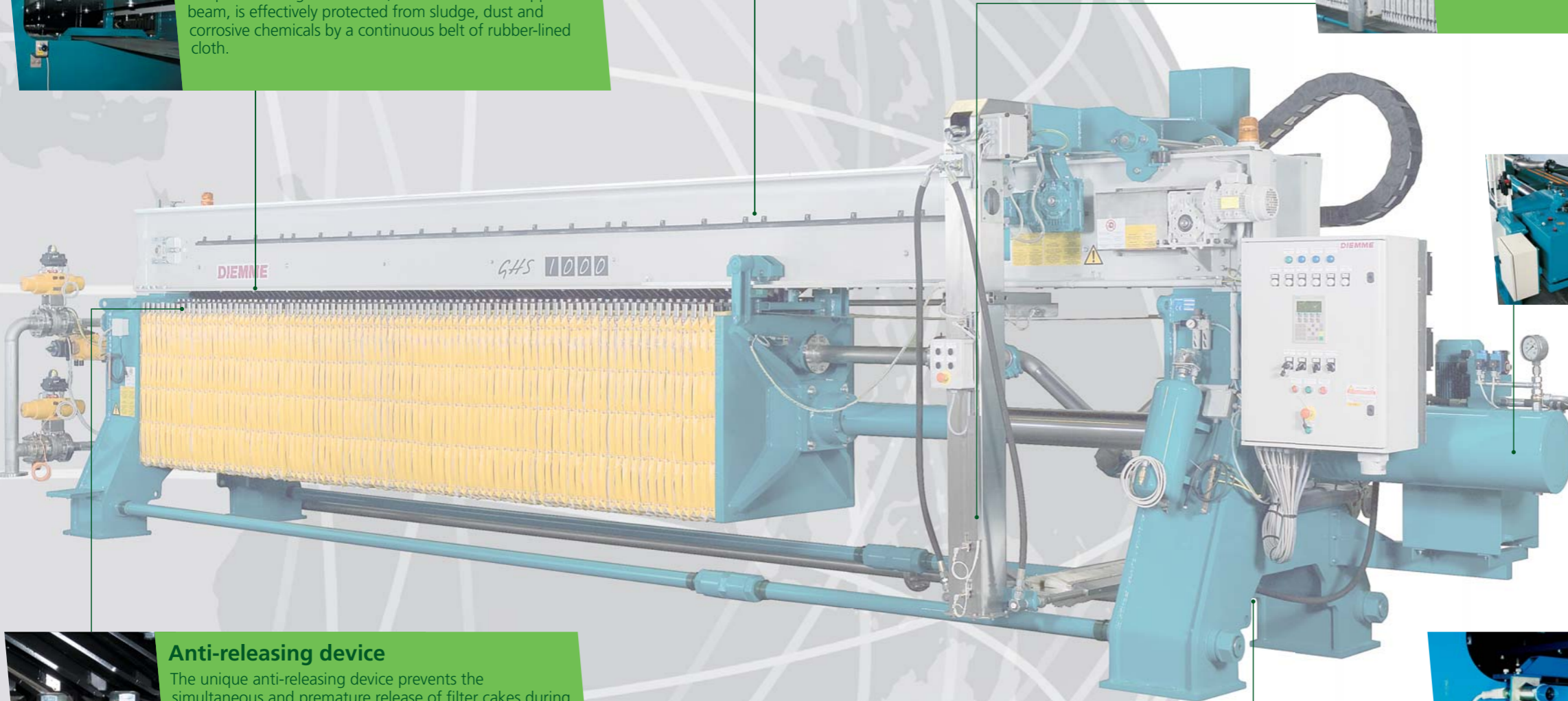
### Automatic cloth washing system

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



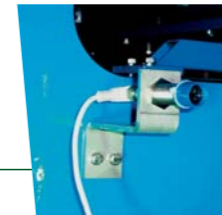
### Plate pack closing system

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



### Anti-releasing device

The unique anti-releasing device prevents the simultaneous and premature release of filter cakes during the filter press opening and it ensures a perfect and sequential cake discharge.



### Laser

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



### Mobile hoist

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

### Maintenance platform

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



## DIEMME Filtration offers customised features for the complete GHS range



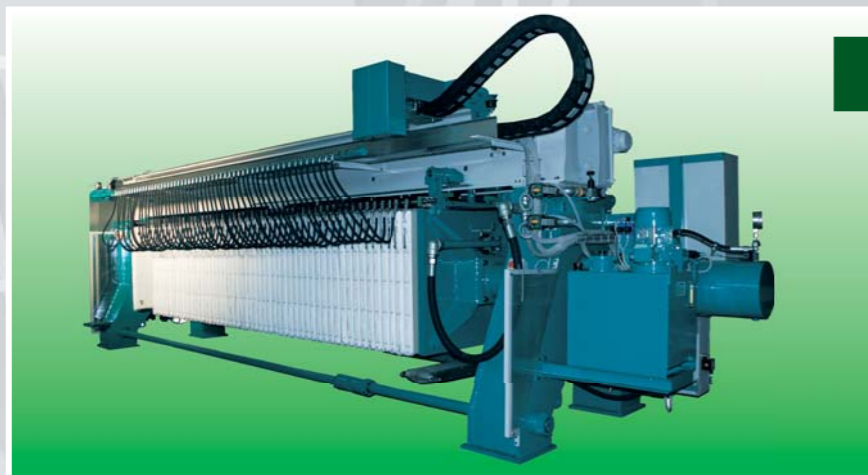
**GHS P6/68**

The photo on the left shows a Filter Press mod. GHS used in the platinum refining process for polishing platinum salts dissolved in hydrochloric acid.



**GHS P3/25 MEM**

The photo on the left shows a Filter Press model GHS configured for dewatering lead paste reclaimed from discarded batteries.



**GHS P4/54 MEM**

The Photo on the left shows a Membrane Filter Press mod. GHS used for dewatering sludge produced by fume treatment in a steel plant.