BILFINGER WATER TECHNOLOGIES

DIEMME® FILTRATION
OVERHEAD BEAM FILTER PRESS GHS

SOLID-LIQUID SEPARATION TECHNOLOGY FOR INDUSTRIAL PROCESSES

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BILFINGER

GHS - speed and versatility

Design

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

Automation

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

Model	Plate size (mm)	Working Pressure (bar)	N. of installed plates Min Max	Cake volume (l) Min Max	Filtration area (m^2) Min Max	Length (mm) Min Max	Empty weight (kg) Min Max
1000	1000x1000	15	25 - 134	475 - 3644	37 - 212	7200 - 12200	12500 - 22000
1200	1200x1200	15	60 - 155	1600 - 5852	126 - 350	10200 - 14200	17400 - 26400
1500	1500x1500	15	66 - 170	2886 - 10410	223 - 605	11200 - 16200	21750 - 33000

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 shifting device

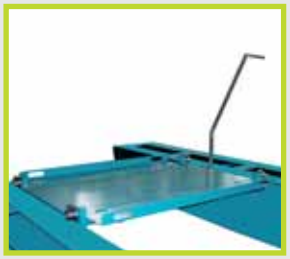
The carousel plate shifting device assures quick and sequential plate movement by means of an automatic transport system controlled by an inverter.

Membrane plates

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.

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.

GHS

Automatic cloth washing system

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

PLC

The GHS are provided with a sophisticate automation system equipped with a Human Machine Interface (HMI) that simplify the monitoring of the filter functioning, damages diagnostics and allows the continuous adaptation of the filtration parameters in order to optimize the variable requests of the process.

Plate pack closing system

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

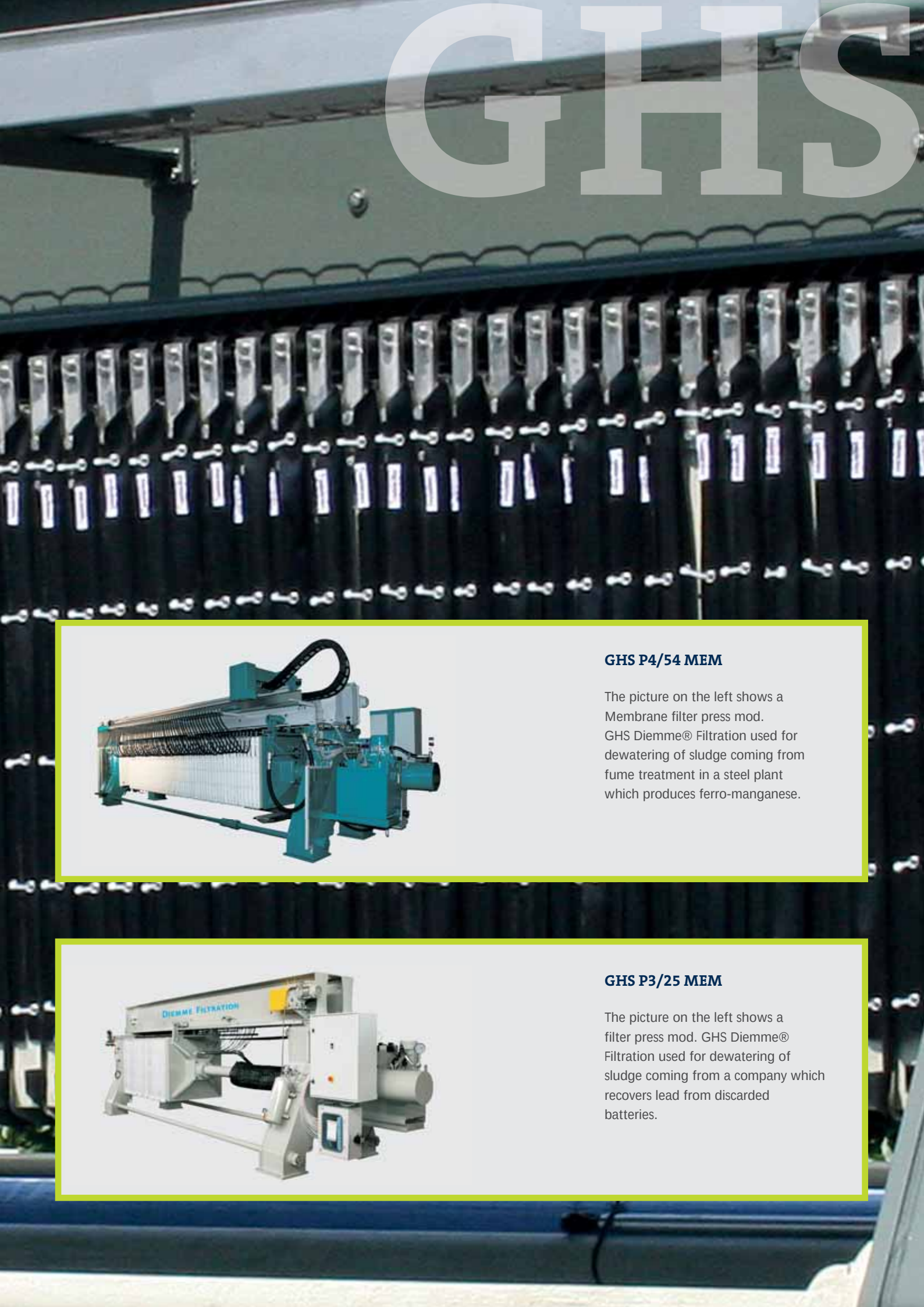
Laser

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

BILFINGER WATER TECHNOLOGIES OFFERS CUSTOMISED FEATURES FOR THE COMPLETE GHS RANGE

GHS P6/68

The picture below 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 P4/54 MEM

The picture 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.

GHS P3/25 MEM

The picture on the left shows a filter press mod. GHS Diemme® Filtration used for dewatering of sludge coming from a company which recovers lead from discarded batteries.

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