

DIEMME
FILTRATION



OVERHEAD BEAM FILTER PRESS GHT 4x4

DIEMME
FILTRATION

Solutions and Systems

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



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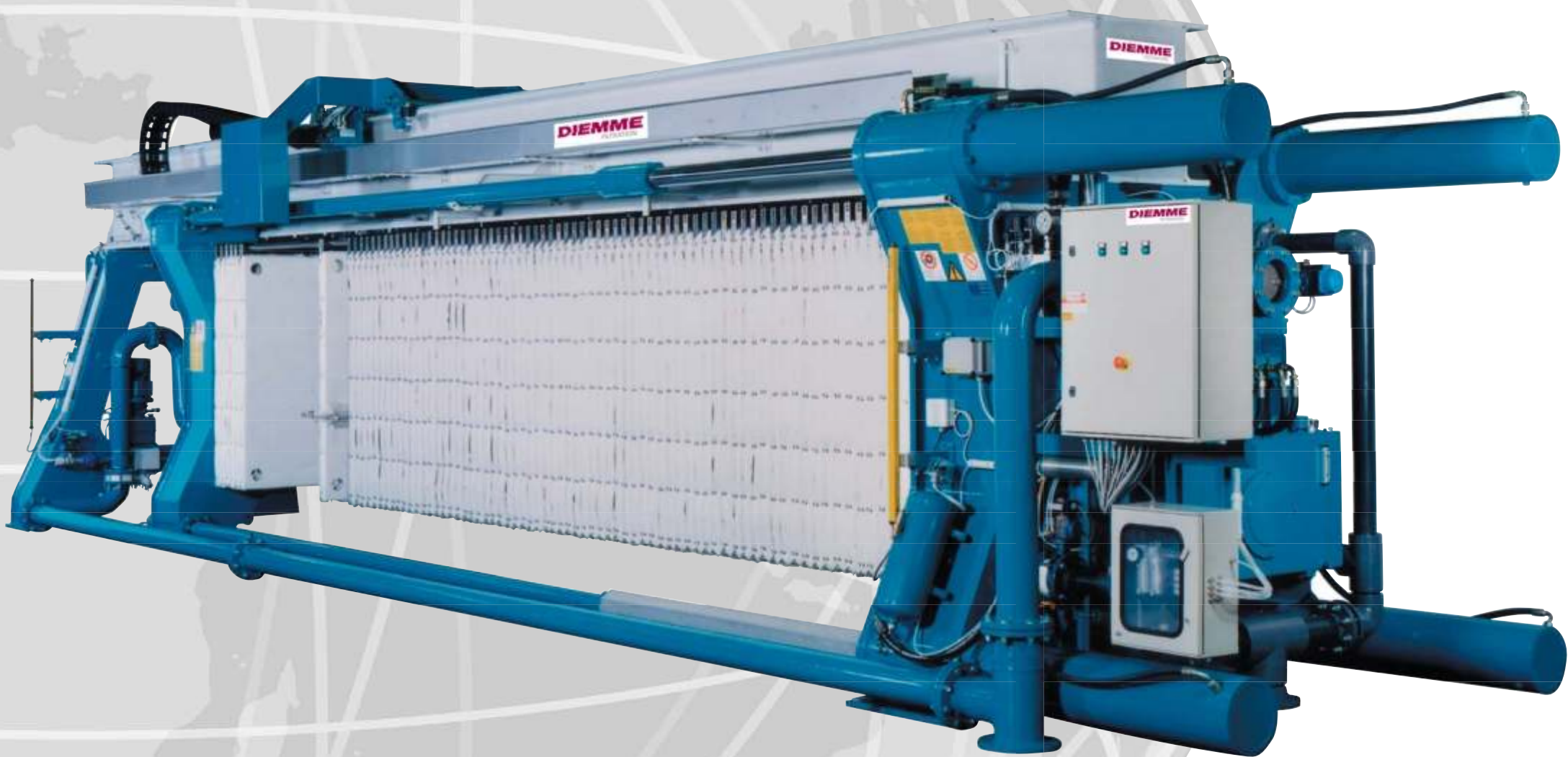
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GHT 4x4

GHT 4x4 is the total traction filter press with high reliability and performance



Performance

The GHT 4x4 is a filter press with high productivity. The filter plates, which are hung from the upper beam, are moved automatically by a rapid shifting device equipped with a carousel system which reduces the filter press opening and closing sequence to the minimum.

Reliability

Four hydraulic cylinders placed on the plate pack corners ensure perfect operation and limited structural stress, even in the most unfavourable working conditions. Effectively guarded moving parts and the use of state-of-the-art electronic interlock systems mean that the GHT 4x4 conforms to the highest operator health and safety regulations. Routine maintenance operations are simple, thanks to easy access to the filter plates, both for inspection and for filter cloth replacement.

Model	Plate Size [mm]	Working pressure [bar]		No. of installed plates		Cake volume [L]		Filtration area [m²]		Length [mm]		Empty weight [Kg]	
		min	max	min	max	min	max	min	max	min	max	min	max
1200	1200 x 1200	15	÷ 30	38	÷ 187	1251	÷ 6500	100	÷ 400	7000	÷ 16000	15000	÷ 30700
1500	1500 x 1500	15	÷ 30	81	÷ 182	5000	÷ 11000	300	÷ 700	11500	÷ 17500	31500	÷ 46000
2000	2000 x 2000	15	÷ 30	80	÷ 180	9000	÷ 20000	600	÷ 1200	11700	÷ 17700	55000	÷ 75000

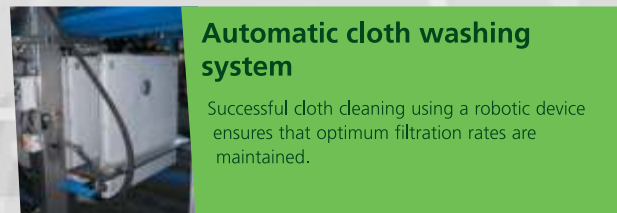


Membrane GHT 4x4

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 prior to discharging the cake.

GHT 4x4

A filter press with world leading technology



Automatic cloth washing system

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



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.



Anti-releasing device

The unique anti-releasing device prevents the simultaneous and premature plate pack release during the filter press opening and it allows a perfect and sequential cake discharge.



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.



Fixed header - 4 cylinders

The fixed header is made of a stainless steel "cellular" structure in order to best resist stress and it supports four (4) hydraulic jacks which are responsible for holding the plate pack closed.



Laser

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



Mobile hoist

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

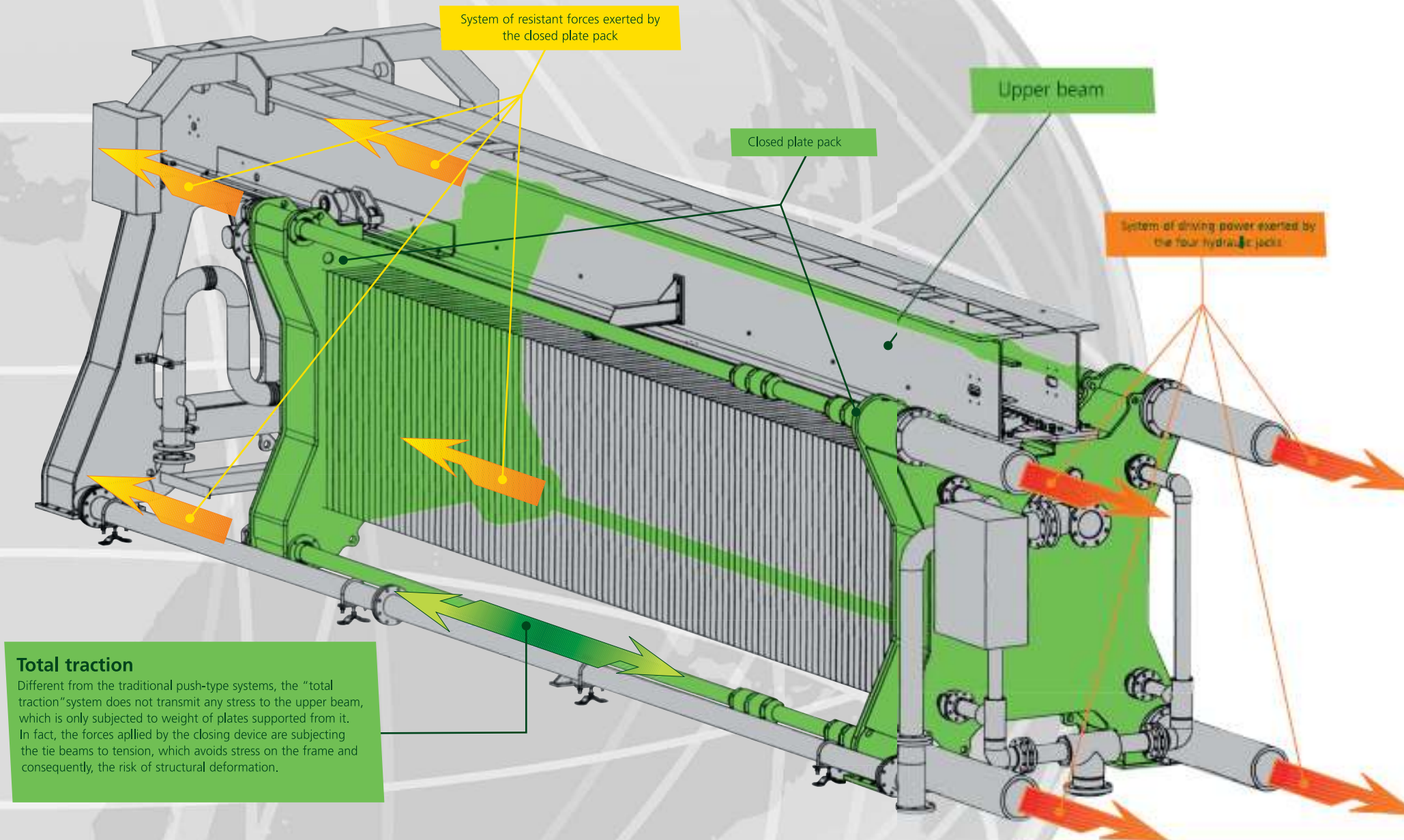


Optional open-filtrate-discharge plate pack

This is an alternative solution to the standard closed-filtrate-discharge system. It allows the visual monitoring of the filtrate quality through plates with external drainage ports equipped with cocks. The filtrate discharge from each plate is collected in a launder installed at the side of the plate pack running longitudinally.

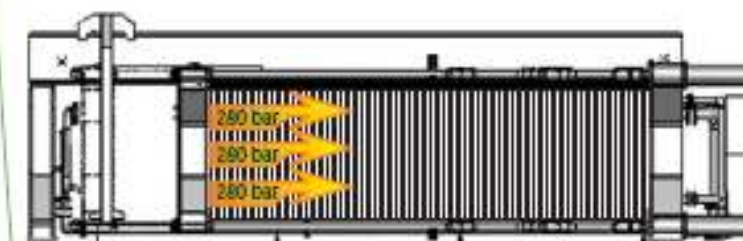
GHT 4x4

A structure designed for Long Life



Closing

1. Mobile header
2. Open plate pack
3. Fix header
4. Hydraulic jack
5. The mobile header, that is dragged by the four hydraulic jacks, closes the plate pack
6. Closed plate pack



Perfect tightening

The pressure exerted by the closing device is uniformly distributed on each plate, thanks to the four hydraulic jacks. They are equipped with an automatic control system and they adjust their own length according to the exerted pressure, in order to assure the perfect tightness of the plate pack.

Maximum safety

The structure is designed to be subjected to the minimum stress on every operating condition and to work always considerably beneath the safety threshold of the used stainless steel.
The upper beam is non-deformable and its maximum flexion is equal to 1/1000 of its span only, even on the most heavy working conditions.

