



**Diemme
Filtration**



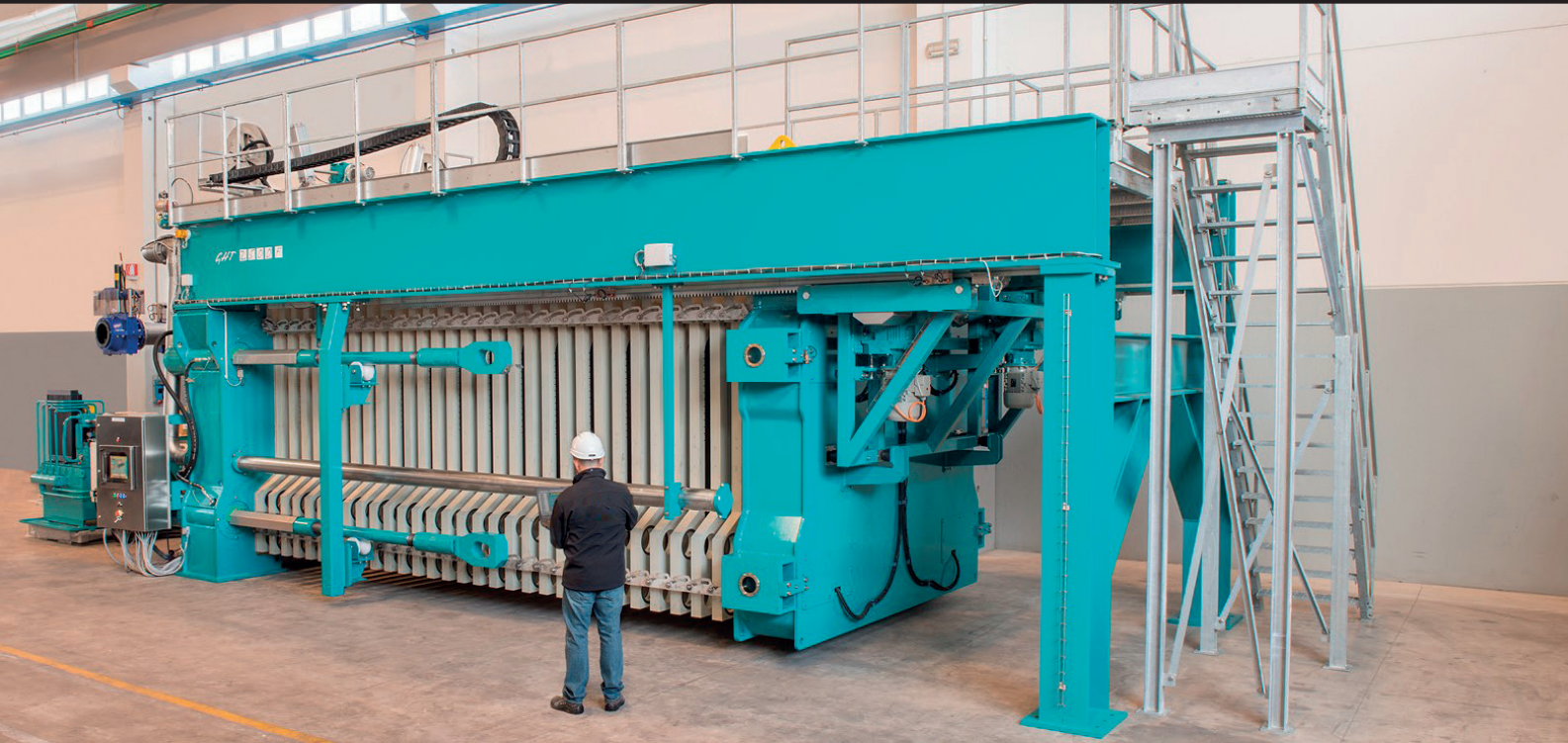
TECHNOLOGIE DE SÉPARATION SOLIDE-LIQUIDE POUR LES PROCESS INDUSTRIELS

FILTRE-PRESSE FAST-CYCLING GHT F

**A brand of
Aqseptence Group**

GHT F

La machine parfaite pour les produits à haute filtrabilité



Performances

GHT F est un filtre-presse Diemme® Filtration développé spécifiquement pour le traitement de produits à haute filtrabilité, en particulier pour les concentrés miniers et les stériles. La motorisation électrique de la tête mobile et l'ouverture simultanée du paquet-plateaux réduisent au minimum le temps de déchargement des gâteaux et donc la durée totale du cycle d'ouverture-fermeture du filtre-presse.

Fiabilité

La structure à poutres latérales supérieures permet l'installation de plusieurs dispositifs, à savoir le lavage des toiles à pluie et le système de secouage des plateaux. Les opérations d'entretien ordinaire sont simplifiées par la possibilité d'accéder à la machine par le dessus. Le système de fermeture du filtre au moyen de 4 vérins hydrauliques garantit un fonctionnement parfait en compensant les désalignements éventuels du paquet-plateaux. La tenue parfaite de la machine est garantie automatiquement par le système hydraulique.

Technologie à membrane

Quand l'application requiert phases de lavage avec solvants ou de séchage avec de l'air comprimé on utilise des plateaux spéciales à volume variable. Le matériel de construction des plateaux change en fonction de la température de process et de la composition chimique du produit à filtrer.



Model	Working pressure (bar)		N. 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
1500	0 ÷ 15		31 ÷ 81		2000 ÷ 7700		105 ÷ 208		12250 ÷ 22250		25000 ÷ 40000	
2500	0 ÷ 15		31 ÷ 101		5600 ÷ 26800		285 ÷ 956		14000 ÷ 28000		59000 ÷ 100000	
5000	0 ÷ 15		51 ÷ 141		25000 ÷ 70000		1000 ÷ 2828		19000 ÷ 37000		200000 ÷ 400000	

GHT F

Technical Details

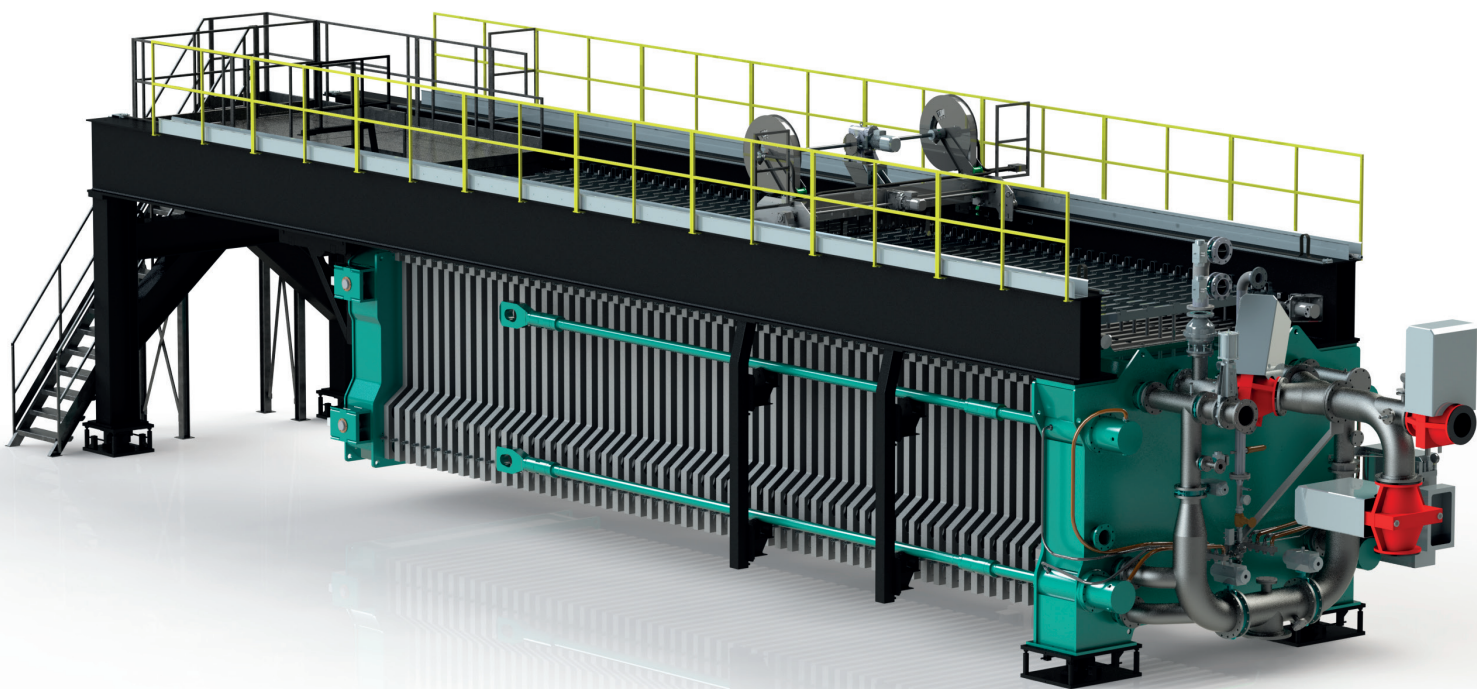
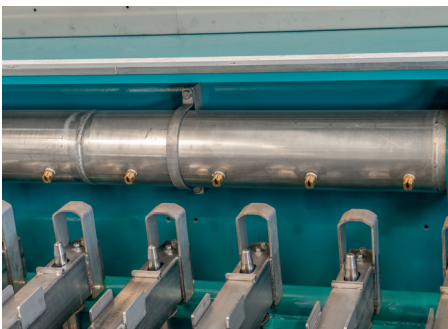


Plate-shaking device



The automatic plate-shaking device, which is programmed to occur after the plate pack fully opens, ensures the filter cakes are properly discharged and removes possible cake fragments from the cloths. This system, along with the cloth rinsing system, allows the filter to run automatically and without operator assistance.

Cloth rinsing system



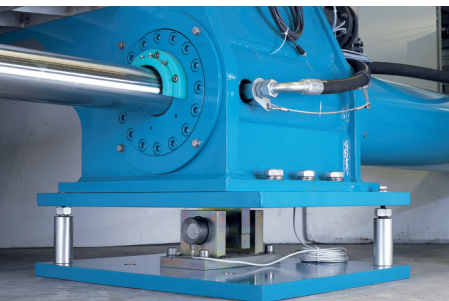
On the GHT F, filter cloths are rinsed after each cycle to prevent the accumulation of cake fragments and dust. Furthermore, the rinsing ensures the sealing surfaces of the filter cloth are clean providing a tight seal upon closing. The cloth rinsing system, comprised of wash pipes located at the top and lower portion of the plates on both sides of the filter, provide a thorough rinsing of the filter cloths while leaving the upper area of the machine free to perform routine maintenance operations.

Automatic cloth washing



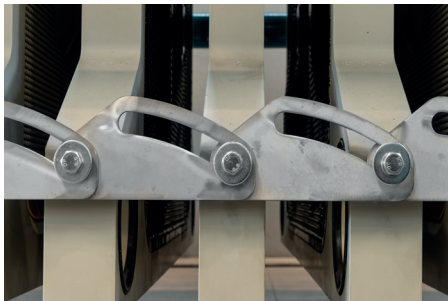
The automatic in-situ cloth washing system, which is programmable according to the user's needs, uses high pressure wash water and directional sprays to effectively regenerate the filter cloth permeability. The results are filter cloths with more consistent filtration performance and longer life.

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.

Simultaneous opening of the plate pack



The cake discharge time is significantly reduced compared to traditional plate opening-closing systems with the use of an accordion-style plate opening and closing system. This fast operation increases the filter's throughput production.

Plc



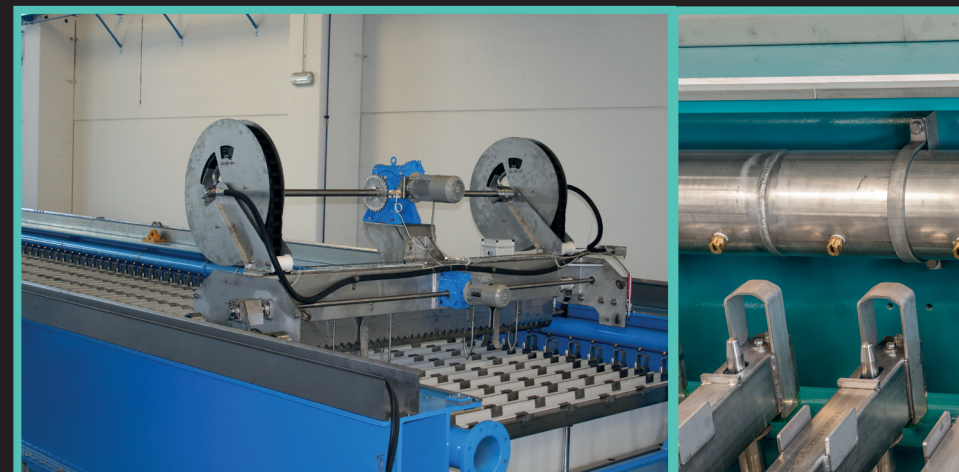
GHT F filter presses are provided with a PLC-based automation system complete with a human-machine interface (HMI) which simplifies monitoring of the filter operation and diagnosis of faults. Additionally, it allows for continuous adjustment of filtration parameters in order to optimize the variable requirements of the process.

GHT F Features



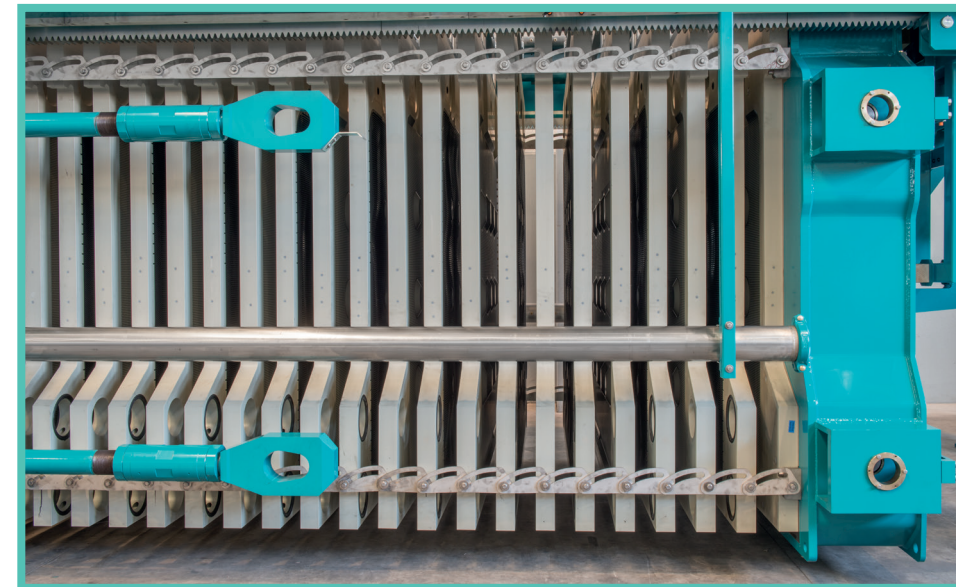
Stairs to reach the filter top and integrated platform for maintenance

This allows easy access to the top of the machine for cloth maintenance operations. The integrated design prevents the need of additional floors to the filter load-bearing structure.



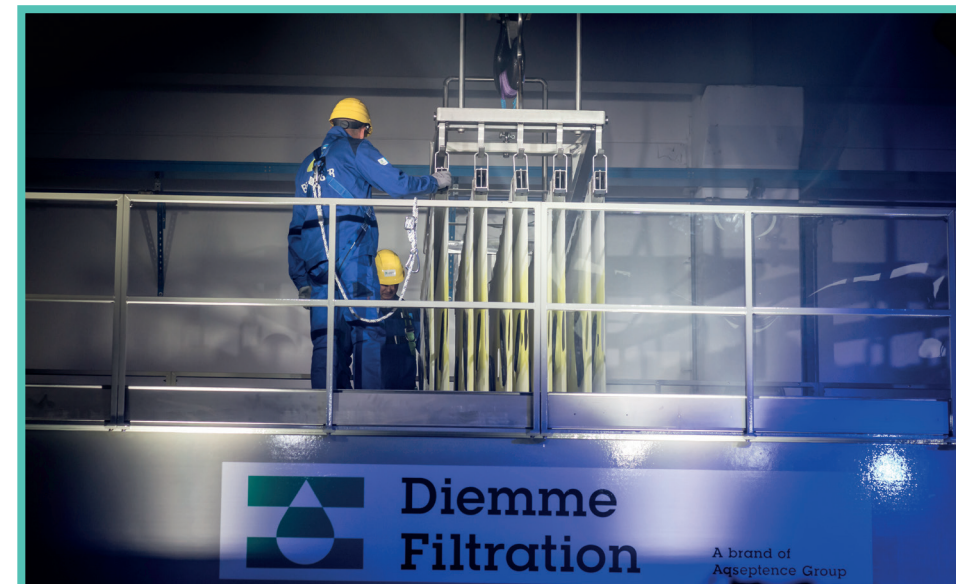
Double washing system

The automatic cloth washing system, along with the cloth rinse system, improves the machine efficiency and performance by preventing accumulation of cake fragments and allowing a tight seal of the plate pack.



Optimized fluid dynamics

The innovative design of the GHT F filter press provides optimized fluid distribution inside the machine, improving performance and reducing abrasion of filter elements and of those components that are in contact with the product.



Rapid cloth changing system

The unique design of the filter cloth provides for its installation from above for ease of maintenance. Furthermore, filter cloths are simple and fast to replace reducing down time.



Multiple feeding system

The multiple feeding system efficiently distributes the slurry in order to reduce its speed and for uniform filling of the plates.

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