

# FILTERPRESS RANGE



## Features:

- Heavy duty frame construction
- High pressure design for maximum moisture removal
- Optimised hydraulic design
- Various plate sizes and chamber configurations
- Faster cycle times
- Pneumatic plate shakers to aid cake removal

AGGREGATES



RECYCLING



INDUSTRIAL SANDS



MINING



WATER MANAGEMENT



# FILTERPRESS RANGE

## OVERVIEW

The AquaClear filter press range are a high performance, side beam plate and frame filter press designed specifically for demanding aggregate, mining and recycling applications.

The heavy-duty construction and high pressure slurry pump technology combined with optimally sized hydraulic rams ensures maximum performance and reliability, maximising water recovery, higher production and faster cycle times.


Safety features include; hydraulic rams operating at 200 bar (2900psi) pressure and industry leading stainless steel sliding doors, enhancing operator safety.

Pneumatically operated plate shakers are fitted as standard to aid removal of sticky cakes.


- Hydraulic rams for opening and closing the press and creating high force clamping.
- Operating pressure 200 bar.
- Urethane piston seals.

- Polypropylene Filter plates
- Open filtrate design
- Choice of plate sizes available
- Various chambers available

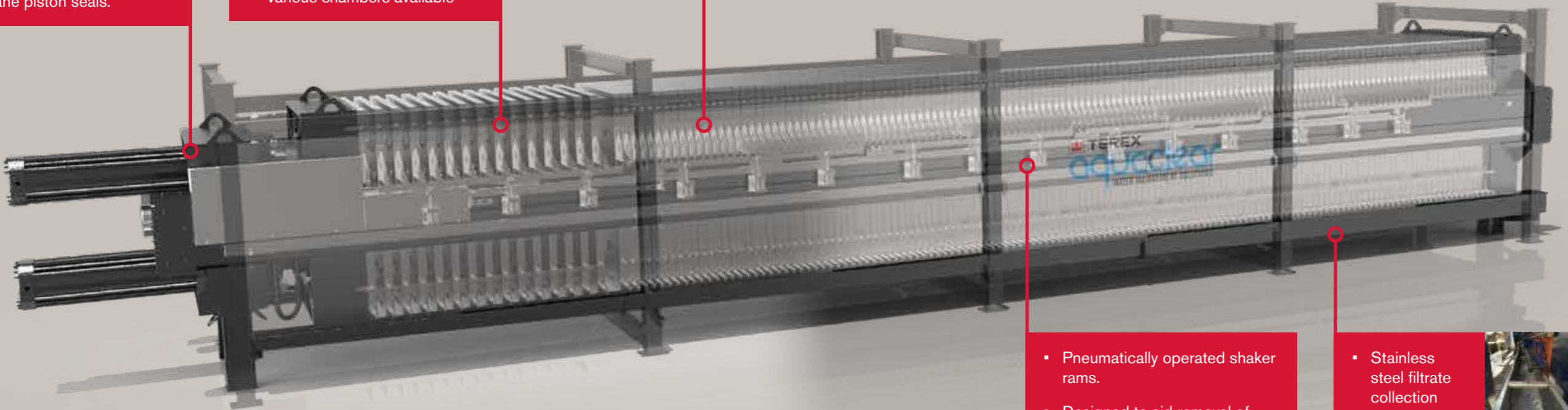
- 15 plate rapid discharge system



- High quality Mono nylon filter clothes

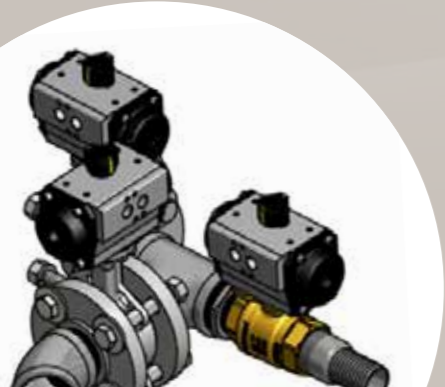


- Remote PLC panel controls the filter press, automatic opening and closing of slurry valves, the slurry homogenizer and slurry centrifuge pump.
- Colour touchscreen display
- Diagnostics mode.
- Local HMI panel in stainless steel cabinet




- Pneumatically operated shaker rams.
- Designed to aid removal of sticky cakes from filter cloths.

- Stainless steel filtrate collection trays.

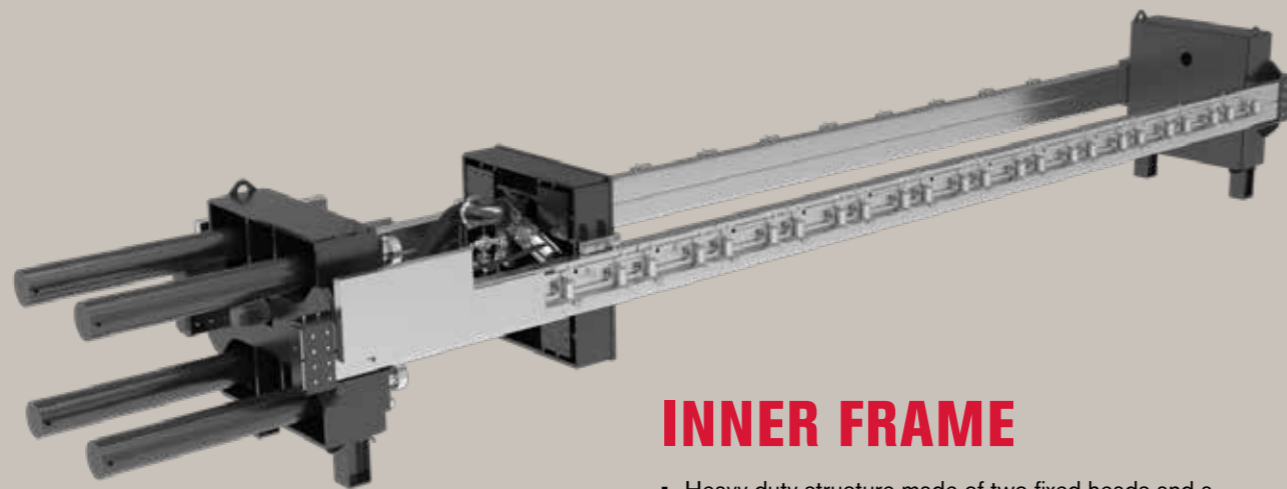


- PLC controlled core blow system.
- Removes wet sludge from central feed pipe.
- Adds pneumatic valves to the manifold.
- Compressor included.
- Optional air receiver tank.



- Two stage high pressure centrifugal feed pump.
- Nominal operating pressure 14-16 bar (200 psi).

Model pictured: FP2015-150-35

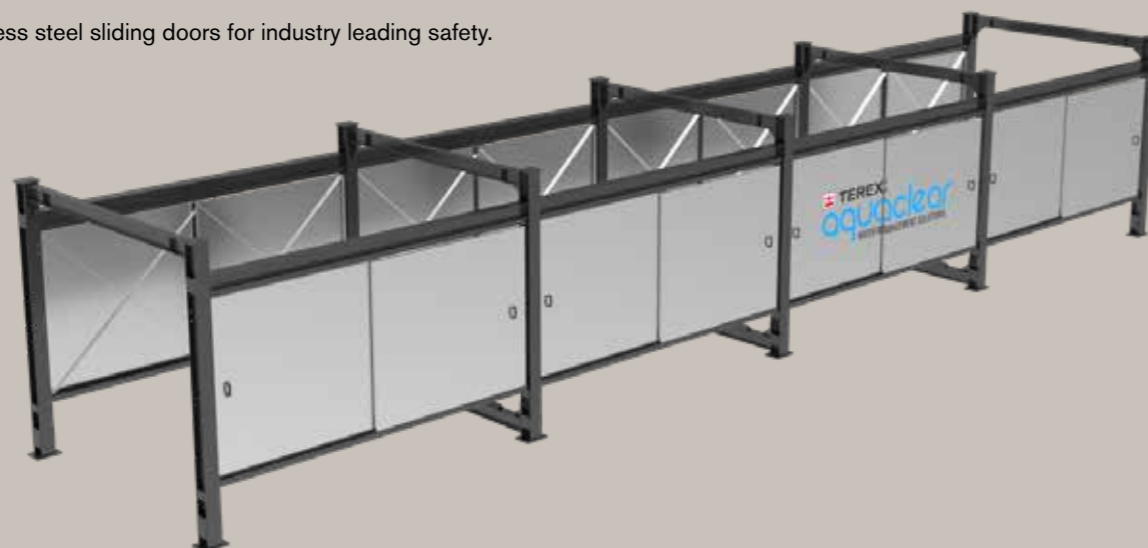


### INNER FRAME

- Heavy duty structure made of two fixed heads and a moving head.
- Fixed heads coupled by tubular steel side beams.
- Manufactured using laser alignment for straightness, keeps filter plates in perfect symmetry.
- Huckbolt fastened weldless end connections, eliminates stress points.
- End plates and platen faces machined to ensure a perfectly flat surface.

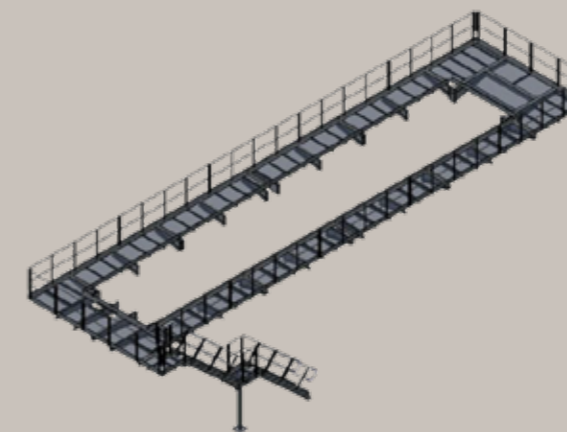
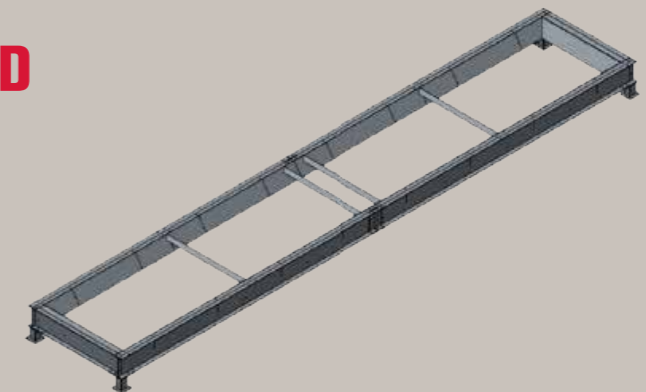
### OUTER FRAME

- Steel H-beam bolt together construction.
- Over and under cross bracing with H-beams.
- Stainless steel sliding doors for industry leading safety.



### FILTER PRESS STAND

- Fabricated steel stand for filter press.
- Steel framework with 4 legs and base plates.
- Cross and linear leg bracing.

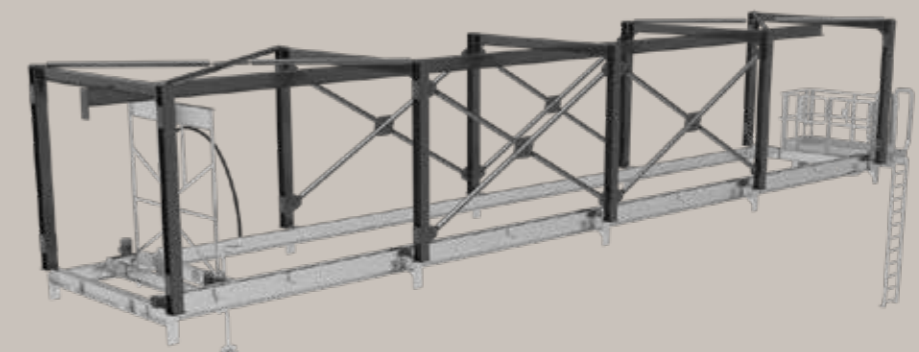


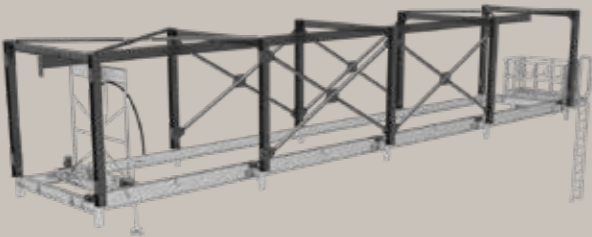
### WALKWAYS & STAIRS

- Galvanised walkways & handrails for all-round access.
- Access stairs to ground level

### OVERHEAD MONORAIL CRANE

- Structure above press provides enhanced maintenance ability.
- Ladder access to the top of the filter press.
- Safety gate and fall protection tie offs.



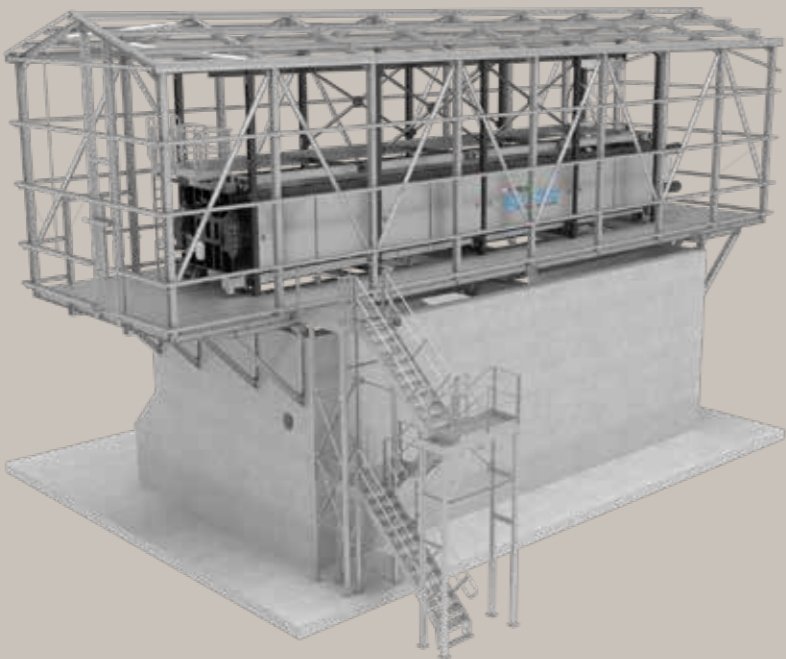
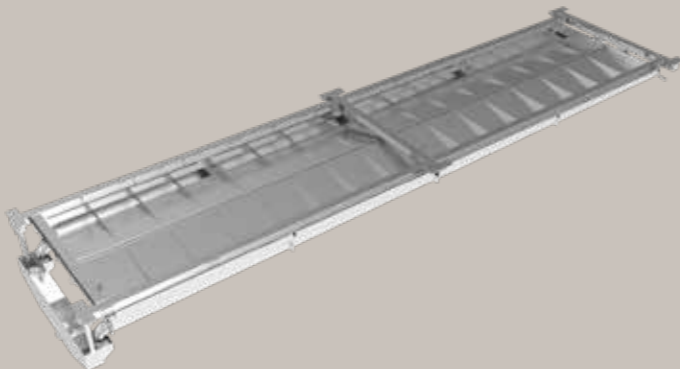


AUTOMATIC CLOTH  
WASH SYSTEM

- PLC Controlled high pressure robotic washer.
- Helps maintain optimum performance.
- Operating pressure 80 bar (1160 psi)

DRIP TRAYS

- Collects all dripping water during pressing cycle.
- Required when auto cloth wash system has been selected.
- Automatic PLC controlled.
- Independent hydraulic power unit.



FILTER  
PRESS  
HOUSING

- Steel framed structure.
- Option of standard cladding or insulated cladding on wall and roof.
- Optional solid floors.

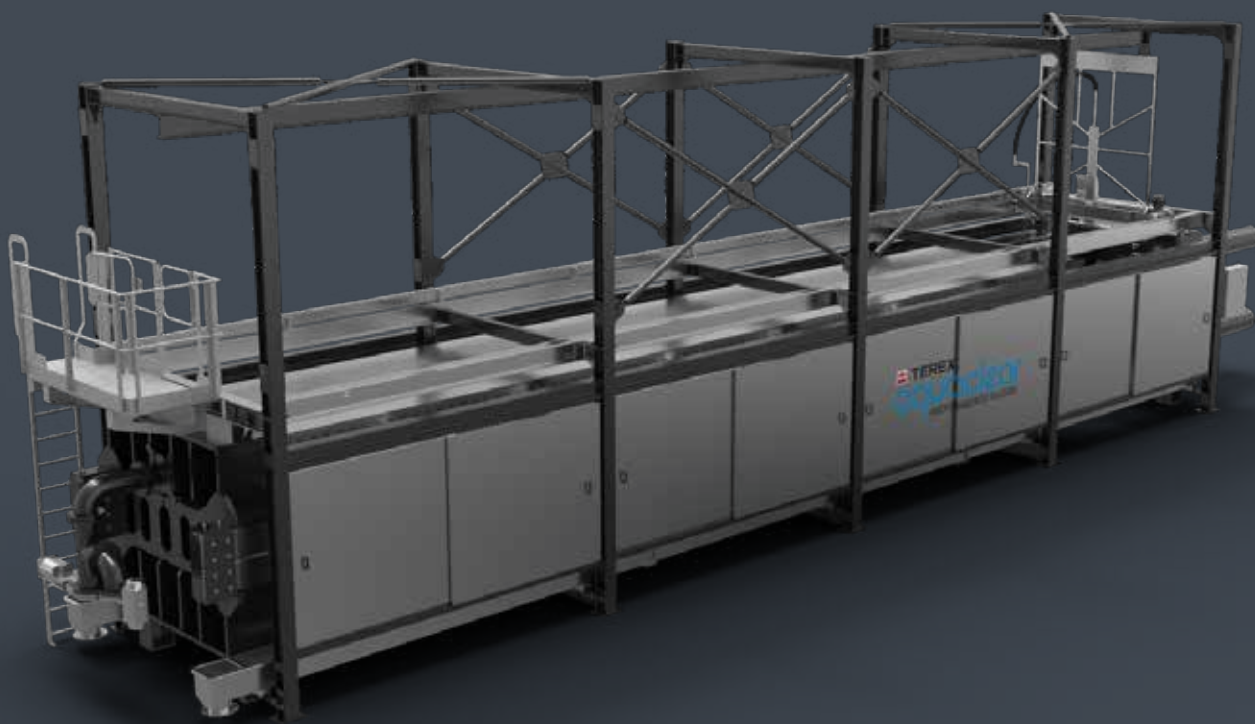


Machine Model	FP470	FP630	FP800	FP1000	FP1500	FP2015	FP2000
Plate Size (mm)	470 x 470	630 x 630	800 x 800	1000 x 1000	1500 x 1500	2000 x 1500	2000 x 2000
Working Pressure (bar [psi])	15 [218]	15 [218]	15 [218]	15 [218]	15 [218]	15 [218]	15 [218]
No. of Plates	5 - 30	15 - 45	15 - 60	45 - 90	45 - 135	45 - 165	45 - 165
Filtration Area (m² [ft²]) - Min Max	2 - 11 [22 - 118]	5 - 15 [54 - 162]	14 - 59 [151 - 635]	78 - 158 [840 - 1701]	167 - 510 [1798 - 5490]	223 - 832 [2400 - 8956]	309 - 1150 [3326 - 12379]
**Tons per Cycle (mtph [stph])	0.04 - 0.30 [0.044 - 0.33]	0.26 - 0.83 [0.29 - 0.91]	0.42 - 1.77 [0.46 - 1.95]	2.27 - 4.60 [2.50 - 5.07]	5.24 - 15.95 [5.78 - 17.58]	9.56 - 35.64 [10.54 - 39.29]	12.16 - 45.32 [13.40 - 49.96]

\*\* Tons per cycle based on cakes with an SG of 1.88 and 35mm chamber.



CHECK OUT TEREX WASHING SYSTEMS  
VIDEOS ON YOUTUBE:  
[www.youtube.com/terexwashingsystems](http://www.youtube.com/terexwashingsystems)



## **TEREX WASHING SYSTEMS**

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