



# DELKOR FP FILTER PRESS

It pays to talk to a specialist

TAKRAF, a Tenova company, is an integrated solutions provider to the global mining, bulk material handling, minerals processing and beneficiation industries, offering innovative technological solutions as well as process and commodity knowledge along the industry value chains. With the integration of the well-known DELKOR and Tenova Advanced Technologies (formerly Bateman Advanced Technologies) brand of products into TAKRAF as specialized product lines, our portfolio for the minerals processing and beneficiation sectors has been considerably enhanced.

**DELKOR** is an industry specialist in solid/liquid separation and mineral processing applications for the mineral, chemical and industrial markets, offering flotation, sedimentation, filtration, screening, and gravity separation systems. DELKOR's services range from test work, process optimization and flowsheet design, to installation, commissioning and aftermarket support.

DELKOR's track record in solid/liquid separation and mineral processing applications stretches back to the seventies with more than 3,000 successful installations worldwide.

DELKOR specialists offer an unmatched combination of experience and product-based knowledge that is enhanced through sharing of the company's extensive experiences worldwide. Clients therefore benefit from face-to-face technical discussions with DELKOR local experts who are able to draw upon global experiences so as to offer clients the best local solution. DELKOR aims to be your global, local specialist.

TAKRAF and DELKOR have committed to both environmental and social sustainability in their business interactions and have adopted a Zero Harm approach to safety under the SAFETY FIRST promise of Tenova.



DELKOR FP 800/64/30/12/R/M



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## DELKOR FP FILTER PRESS

DELKOR designs and supplies reliable filter presses for flexible operation and easy maintenance. A DELKOR FP is suitable for a wide range of dewatering applications, from mineral concentrates and tailings filtration, to polishing and electrolytic processes; and from coarse to very fine materials in the mining, aggregates, chemical, iron & steel, food processing and water treatment sectors.

For small capacity applications a DELKOR FP is a perfect alternative to the high capacity, fully automated DELKOR FAST FP series offering a reliable and cost effective solution.

A DELKOR FP consists of a fabricated sidebar frame supporting a moving head and filter plates positioned between the head frame and moving head. Opening and closing of the plate pack are carried out by a double acting hydraulic cylinder controlled by a hydraulic power unit.

The DELKOR FP portfolio features a hydraulic cylinder to open/close and as a compression device only on 630x630 mm and 800x800 mm plate sizes.

A DELKOR FP can be fully customized based on process and customer requirements. In fact the opening/closing can be fully automated, at once or one-by-one, semi-automated or manual.

If required, the filtration process can be enhanced by using membrane plates to further reduce the moisture content and/or by blowing the cakes with compressed air. Depending on process application cakes can also be washed to remove undesired chemicals dissolved in the slurry.

The DELKOR FP features a core blow system and a plate shaking device to prevent contamination of the final product and ensure a proper cake discharge. Based upon client's process requirements, a fully automated cloth washing device can operate at high or low pressure and thus regenerate filter cloths every cycle or after a pre-set number of cycles.



DELKOR FP 800/28/32/7/R/A

## DELKOR FP FEATURES

- Complete plate pack opened at once (up to 40 chambers) or one-by-one (up to 50 chambers)
- Recessed, mixed membrane and full membrane plate pack (25 to 50 mm cake thickness)
- Filter plates with various feed and filtrate port configuration to suit process requirements
- Optional slurry pump and tank
- Double end feeding for fast filling
- Flow meter for filter feed
- Integrated bomb bay doors with no impact on surrounding items
- Compressed air system for air blow/core blow
- Fully-automated plate shaker for cake discharge
- High pressure full face cloth washer/low pressure wash down cloth washer
- Safety devices such as light guards against mechanical movements; moving steel grids on both sides of the filter press; and a polycarbonate splash box to protect against hot, toxic or corrosive slurries
- Optional remote control of filter press to support operation and maintenance
- CE marking



DELKOR FP 800/30/40/6/M15/A

**DELKOR FP PRODUCT PORTFOLIO (AT ONCE)**

|                    |     |                 |                 |                |                |                |
|--------------------|-----|-----------------|-----------------|----------------|----------------|----------------|
| Plate size         | mm  | 630             | 800             | 1,000          | 1,200          | 1,500          |
| Operating pressure | bar | 15              | 15              | 15             | 15             | 15             |
|                    |     | Min - Max       | Min - Max       | Min - Max      | Min - Max      | Min - Max      |
| Chambers           | #   | 19 - 50         | 19 - 50         | 14 - 40        | 14 - 40        | 14 - 40        |
| Press volume       | ltr | 116,80 - 511,75 | 221,36 - 944,15 | 275 - 1,540    | 380 - 2,145    | 620 - 3,460    |
| Filtration area    | m2  | 7,75 - 20,30    | 15,63 - 44,27   | 20 - 70        | 30 - 95        | 48 - 150       |
| Overall length     | mm  | 3,570 - 9,800   | 5,100 - 12,900  | 6,000 - 10,500 | 6,200 - 12,000 | 8,050 - 11,500 |
| Overall height     | mm  | 1,960           | 2,150           | 1,800          | 2,100          | 2,400          |
| Overall width      | mm  | 1,550           | 1,720           | 2,000          | 2,250          | 2,500          |
| Overall weight     | t   | 3,0 - 3,7       | 3,9 - 5,2       | 5,8 - 12       | 11 - 25        | 18 - 36        |
| Main drive power   | kW  | 2,2 - 3,0       | 3,0 - 4,0       | 4 - 11         | 5,5 - 11       | 5,5 - 15       |

**DELKOR FP PRODUCT PORTFOLIO (ONE BY ONE)**

|                    |     |                |                |                |
|--------------------|-----|----------------|----------------|----------------|
| Plate size         | mm  | 1,000          | 1,200          | 1,500          |
| Operating pressure | bar | 15             | 15             | 15             |
|                    |     | Min - Max      | Min - Max      | Min - Max      |
| Chambers           | #   | 39 - 120       | 39 - 120       | 49 - 140       |
| Press volume       | ltr | 760 - 4,690    | 1,060 - 6,550  | 2,175 - 12,330 |
| Filtration area    | m2  | 55 - 205       | 80 - 290       | 160 - 530      |
| Overall length     | mm  | 6,500 - 11,500 | 7,800 - 16,000 | 8,400 - 18,000 |
| Overall height     | mm  | 1,800          | 2,100          | 2,400          |
| Overall width      | mm  | 2,000          | 2,250          | 2,500          |
| Overall weight     | t   | 6,2 - 16,5     | 13 - 29        | 21 - 35        |
| Main drive power   | kW  | 4 - 7,5        | 4 - 7,5        | 4 - 7,5        |

**DELKOR FP PRODUCT PORTFOLIO (BATCH)**

|                    |     |                |                |                |
|--------------------|-----|----------------|----------------|----------------|
| Plate size         | mm  | 1,000          | 1,200          | 1,500          |
| Operating pressure | bar | 15             | 15             | 15             |
|                    |     | Min - Max      | Min - Max      | Min - Max      |
| Chambers           | #   | 50 - 120       | 50 - 120       | 50 - 120       |
| Press volume       | ltr | 965 - 3,480    | 1,330 - 6,550  | 2,175 - 10,560 |
| Filtration area    | m2  | 74 - 205       | 105 - 290      | 160 - 450      |
| Overall length     | mm  | 7,000 - 13,500 | 7,500 - 13,500 | 9,000 - 15,000 |
| Overall height     | mm  | 1,800          | 2,100          | 2,400          |
| Overall width      | mm  | 2,000          | 2,250          | 2,500          |
| Overall weight     | t   | 7 - 15         | 13 - 30        | 20 - 35        |
| Main drive power   | kW  | 4 - 7,5        | 4 - 7,5        | 4 - 7,5        |



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