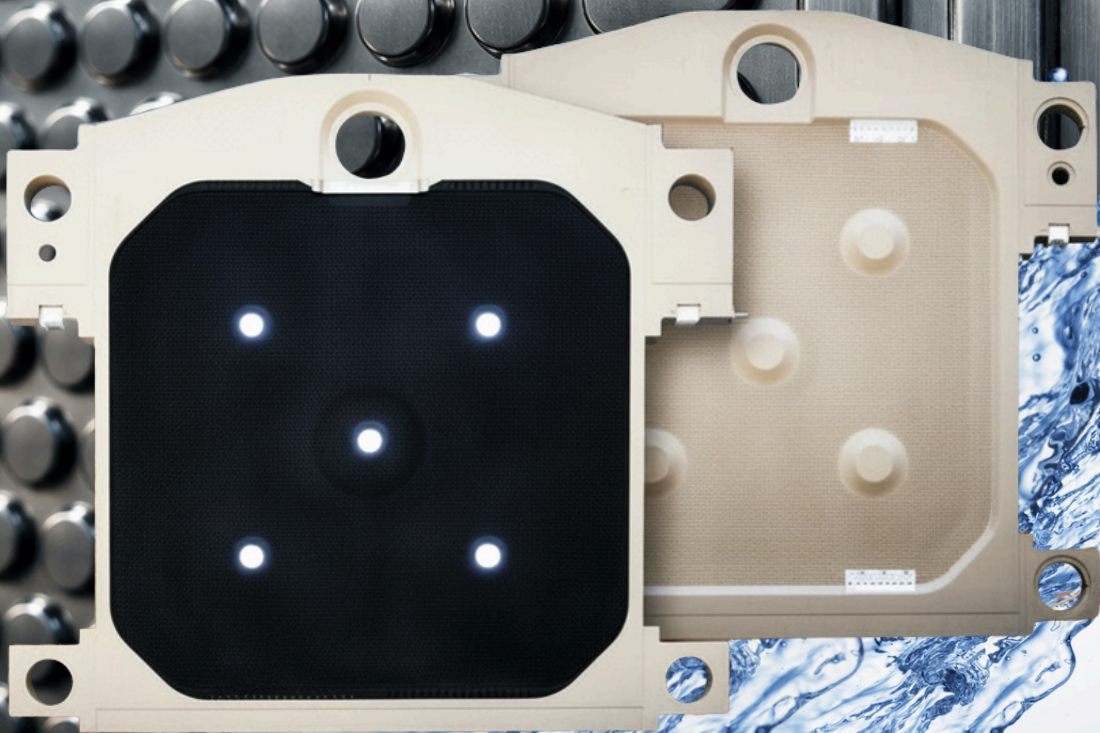


**BUILT TO LAST.
PROVEN IN PRACTICE.**



JVK FILTER ELEMENTS

**SOLID-LIQUID SEPARATION.
PRECISION. PERFECTION.**

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ABOUT JVK

Founded in 1962, JVK Filtration Systems is a leading manufacturer of filter elements for solid-liquid separation. With more than 60 years of experience, advanced manufacturing capabilities and extensive application know-how, JVK provides reliable filtration solutions for customers worldwide.

HISTORY

1962

Foundation of JVK's filter element expertise through the pioneering production of polyolefin filter elements.

1982

Acquisition of production facilities and manufacturing know-how, strengthening JVK's position in the filtration industry.

1989

Expansion of the product portfolio through the acquisition of membrane plate technology.

1992

Significant increase in manufacturing capacity through the acquisition of additional filter plate production facilities.

1992 – Today

Continuous investment in innovation, advanced filtration technologies and manufacturing capabilities.



THE JVK DIFFERENCE



60+ YEARS OF EXPERIENCE



CUSTOM SOLUTIONS



WORLDWIDE APPLICATIONS



MADE IN GERMANY



HIGHEST QUALITY STANDARDS



CONTINUOUS INNOVATION

OUR PRODUCT PORTFOLIO



FILTER ELEMENTS

- Membrane Plates
 - Chamber Plates
 - Combination Plates
 - Hybrid Plates
- > CGR gasketed membrane & combination plates available in all sizes



COMPONENTS & ACCESSORIES

- Filter Cloths
- SnapFit®
- Squeeze Indicator
- Accessories



SERVICES

- Health Check
- Process analysis & optimization

COMPLETE FILTRATION SOLUTIONS

- ✓ CUSTOM DESIGNS & SPECIAL SIZES
- ✓ ENGINEERING & PROCESS OPTIMIZATION
- ✓ IN-HOUSE MANUFACTURING
- ✓ TECHNICAL SERVICE & COMMISSIONING
- ✓ TESTING & APPLICATION SUPPORT
- ✓ TAILOR-MADE FILTRATION SOLUTIONS

JVK FILTER ELEMENTS

JVK® supplies replacement membrane and combination plates for virtually all filter press types and brands. Whether standard dimensions, large-format plates or highly customized designs, every filter element is engineered to match the existing plate geometry and process requirements.

WHY JVK?

- **CUSTOM-MADE SOLUTIONS**

Designed specifically for your application & filter press configuration

- **ANY SIZE, ANY GEOMETRY**

From standard dimensions to large-format & special plate designs.

- **RETROFIT EXPERTISE**

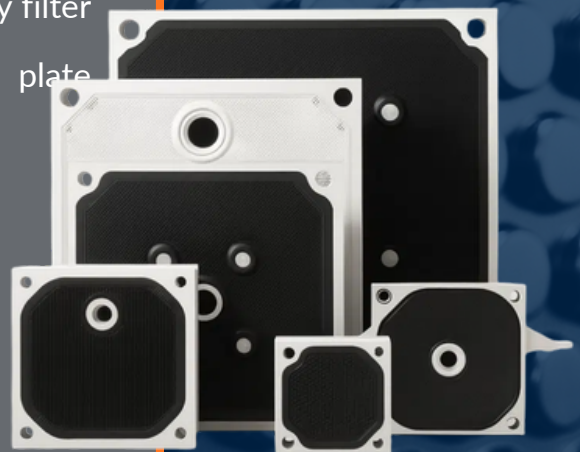
Seamless integration into existing filter presses & plate packs

- **COMPATIBLE WITH LEADING BRANDS**

Replacement solutions for Metso/SALA, Ishigaki & many other filter press manufacturers

- **ENGINEERED AROUND YOUR PROCESS**

Tailored to pressure, temperature, media characteristics & pH conditions



JVK MEMBRANE SYSTEM



Short filtration cycles

Low residual cake moisture

Efficient cake washing

Exchangeable elastomere membrane

High membrane elasticity

Welded thermoplastic membrane

Gasketed filter plate system

Optimized Filtrate Flow

Enhanced operational safety

Versatile application range

PP MEMBRANE PLATES & FILTER ELEMENTS



Long lifetime

Superior product

Minimal cloth damage

Excellent sealing properties

Good heat insulation

High chemical resistance

Consistent Product Quality

Easy cleaning

Light weight



TECHNOLOGY HIGHLIGHTS

- Elastomer membrane plates since 1966
- One-piece moulded filter plates to DIN standards
- Available in PP and other thermoplastic materials

CAKE DRYING TECHNOLOGIES

Mechanical Cake Drying

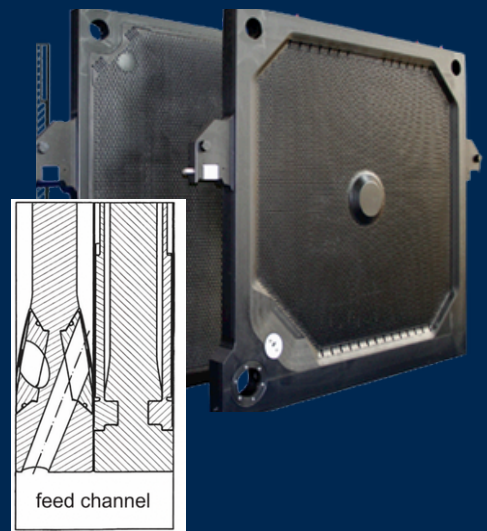
- Cake compression up to 5 MPa
- Reduced residual moisture
- Fully automatic operation
- Long membrane lifetime

Thermal Cake Drying

- Faster drying process
- Reduced disposal costs
- Lower energy consumption
- Retrofit of existing filter presses possible

Key Benefits

- ✓ Lower Residual Moisture
- ✓ Reduced Cycle Times
- ✓ Lower Operating Costs
- ✓ Increased Process Efficiency



TECHNOLOGICAL HIGHLIGHTS

JVK SNAPFIT®

TOOL-FREE FILTER CLOTH FASTENING SYSTEM

Benefits

- Tool-free cloth changes
- Reduced downtime
- Reproducible cloth positioning
- Improved process reliability
- Retrofittable for many filter press types



REPRESSING INDICATOR

Smart process monitoring for membrane filter plates

Benefits

- Indicates completion of cake compression
- Reduces dewatering and cycle times
- Optimizes press capacity
- Detects membrane leaks at an early stage
- Localizes defective membrane plates
- Can be retrofitted to existing membrane packs
- Application
 - Monitoring of the dewatering process
 - Leak detection and localization
- Suitable for gaseous or liquid squeezing media



INDUSTRIES & APPLICATIONS

CHEMICAL INDUSTRY



MINING & MINERALS



INDUSTRIAL WASTEWATER



PHARMACEUTICALS & BIOTECHNOLOGY



FOOD & BEVERAGE



PULP & PAPER INDUSTRY



PHARMACEUTICALS & BIOTECHNOLOGY



FOOD & BEVERAGE



PULP & PAPER INDUSTRY



& MORE >

CHEMICAL INDUSTRY



TYPICAL APPLICATIONS

PIGMENTS & FILLERS

- Mineral pigments, titanium dioxide & organic dyestuffs
- Kaolin, aluminum oxide & activated clay

CHEMICAL PROCESSING

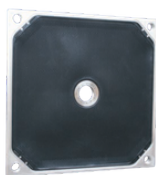
- Phosphoric compounds, fermentation products
- Chemical intermediates & fillers

INDUSTRIAL FILTRATION

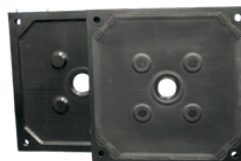
- Wetting, washing & cleansing additives
- Chlor-alkali electrolysis & brine filtration

SPECIALTY CHEMICALS

- Chlorine, sodium hydroxide, zeolites & silica



-  Aluminum plate / FKM (Viton)
-  1500 x 1500 mm
-  centre feed



-  PVDF plate/ EPDM membrane
-  1200 x 1200 mm
-  centre feed
-  electric dischargeable
-  ATEX conformity

PIGMENTS



TYPICAL APPLICATIONS

PIGMENTS & FILLERS

- Mineral pigments, titanium dioxide & organic dyestuffs
- Kaolin, alumina & activated clay

CHEMICAL PROCESSING

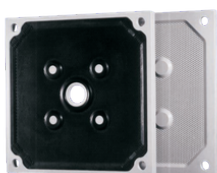
- Phosphoric compounds & fermentation products
- Chemical intermediates & fillers

INDUSTRIAL FILTRATION

- Chlor-alkali processes & brine filtration
- Wetting, washing & cleansing additives

SPECIALTY CHEMICALS

- Chlorine, sodium hydroxide, zeolites & silica



- 1500 x 1500 mm
- Centre feed
- Internal outlets



- Alu/FKM
- 630 x 630 mm
- CGR
- corner feed

MINING



TYPICAL APPLICATIONS

METAL REFINING

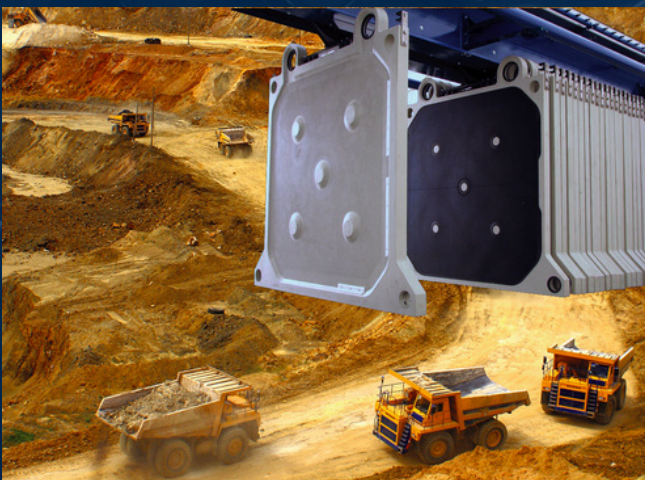
- Nickel, copper, silver, gold & uranium refining
- Electrolytic metal separation

RESOURCE RECOVERY

- Molybdenum recovery & by-product extraction
- Metallic salt solutions

RECYCLING

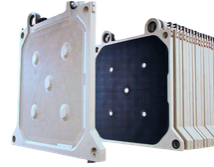
- Battery recycling



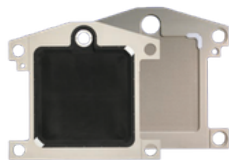
TYPICAL MINING PLATES



- 2000 x 2300 mm
- TPE-Membrane
- Abrasion-Resistant Feed Shoes & Filtrate Outlet Covers



- 2000 x 2300 mm
- TPE-Membrane
- Abrasion-Resistant Feed Shoes & Filtrate Outlet Covers



- 1500 x 1500 mm
- EPDM-Membrane with SnapFit®
- Abrasion-Resistant Feed Shoes & Filtrate Outlet Covers



- 2000 x 2000 mm
- TPE-Membrane
- Abrasion-Resistant Feed Shoes & Filtrate Outlet Covers



- 2500 x 2500 mm
- TPE-Membrane
- Abrasion-Resistant Feed Shoes & Filtrate Outlet Covers



- 3200 x 2800 mm
- TPE-Membrane with SnapFit®
- Abrasion-Resistant Feed Shoes & Filtrate Outlet Covers

INDUSTRIAL WASTEWATER

✓ TYPICAL APPLICATIONS

WATER TREATMENT

- Wastewater treatment & potable water purification
- Neutralization plants

SLUDGE & WASTE PROCESSING

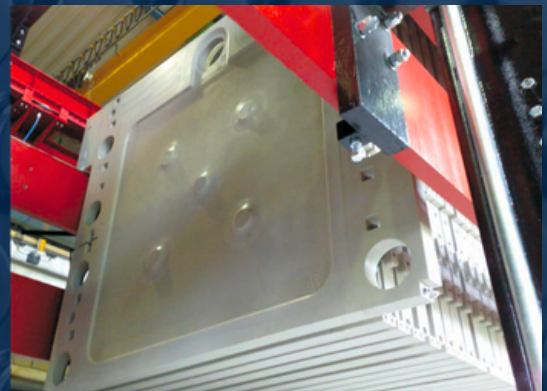
- Metal hydroxide sludges
- Waste liquids from dust scrubbers

INDUSTRIAL PROCESS STREAMS

- Paper, leather & latex process streams
- Wood & stone grinding slurries

MINING & REFINERY APPLICATIONS

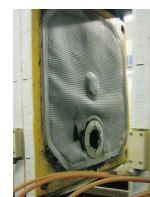
- Coal & ore flotation suspensions
- Oil refineries



- 2000 x 2000 mm
- external feed
- external outlets



- 3980 x 2940 mm
- external feed
- external outlets



- 1200 x 1200 mm
- bottom feed

RECYCLING



TYPICAL APPLICATIONS

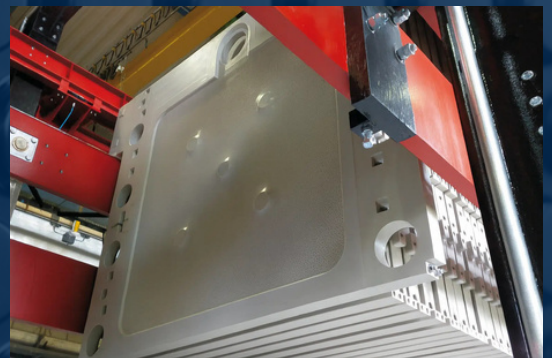
BATTERY RECYCLING

- Black mass processing
- Lithium, nickel, cobalt & manganese recovery



METAL RECOVERY

- Valuable metal recovery
- Process residue dewatering



WASTEWATER TREATMENT

- Industrial wastewater treatment
- Metal hydroxide sludge dewatering

WATER REUSE

- Process water recovery
- Closed-loop water recycling systems



2000 x 2000 mm



Centre feed

PHARMACEUTICALS / BIOTECHNOLOGY



TYPICAL APPLICATIONS

BIOPROCESSING

- Extraction and washing of intermediate products
- Enzyme and fermentation processes

STERILIZATION

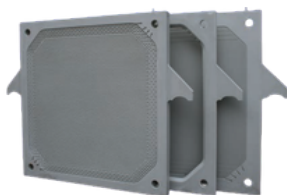
- Sterilization processes up to 130 °C
- Bacterial contamination protection

PHARMACEUTICAL FILTRATION

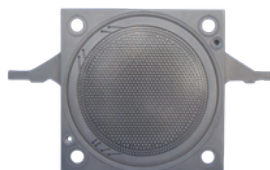
- Blood plasma filtration
- Syrups and pharmaceutical solutions

HIGH-PURITY APPLICATIONS

- Contamination-sensitive products
- Critical filtration processes



- 1200 x 1200 mm
- corner feed
- Welded PP membrane



- 630 x 630 mm
- corner feed
- Welded PP membrane

FOOD

✓ TYPICAL APPLICATIONS

FOOD INGREDIENTS

- Soups and seasonings
- Yeast, gelatine and agar-agar

STARCH & SUGAR

- Rice noodles and starch products
- Sugar production

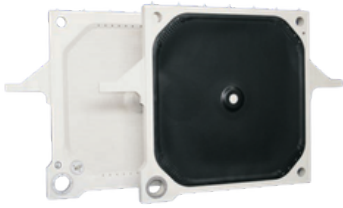
EDIBLE OILS

- Vegetable and palm oils

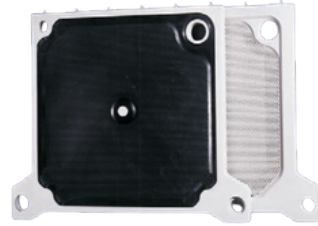
BEVERAGES

- Fruit juices, wine and beer





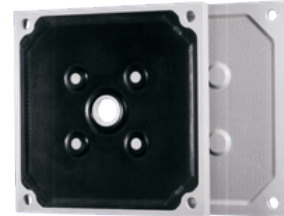
 1200 x 1200 mm
 corner feed



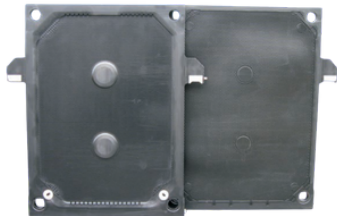
 1200 x 1200 mm
 corner feed



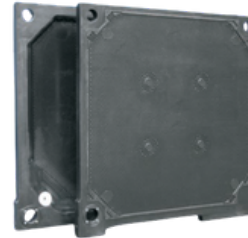
 2000 x 1000 mm
 hybride plate for tower filter presses PATENT
 No. DE 19905674



 1500 x 1500 mm
 centre feed



 2000 x 1500 mm
 corner feed



 1500 x 1500 mm
 corner feed

QUALITY & RELIABILITY

✓ ISO 9001:2015 CERTIFIED

Certified quality management system ensuring consistent processes, reliability & continuous improvement



Management System
ISO 9001:2015



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✓ ISCC PLUS Certified

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**Committed to quality,
sustainability and reliable
filtration solutions.**



JVK

Filtration Systems

Built to last. Proven in practice.



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