



Application: Municipal Water Treatment

Replaceable, overhanging,
center feed membrane design.



Application: Palm Oil Fractionation

Corner feed, fixed welded membrane design.



Application: Yellow Pigment Production

Center feed, fixed welded membrane design.



Application: Titanium Dioxide Production

Corner feed, fixed welded membrane design.

Klinkau filter plates are utilized in virtually every processing industry worldwide. While our expertise is unsurpassed in the following major applications, we can provide filtration solutions to meet your every specialized need.

- *Chemical*
- *Dyestuffs and Pigments*
- *Titanium Dioxide*
- *Food and Beverage*
- *Palm Oil Fractionation*
- *Municipal Water and Waste Water Treatment*
- *Industrial Water and Waste Water Treatment*
- *Pharmaceutical*
- *Minerals*
- *Blood Processing*
- *Metals Refining*
- *Ground Water and Soil Remediation*
- *Mining*

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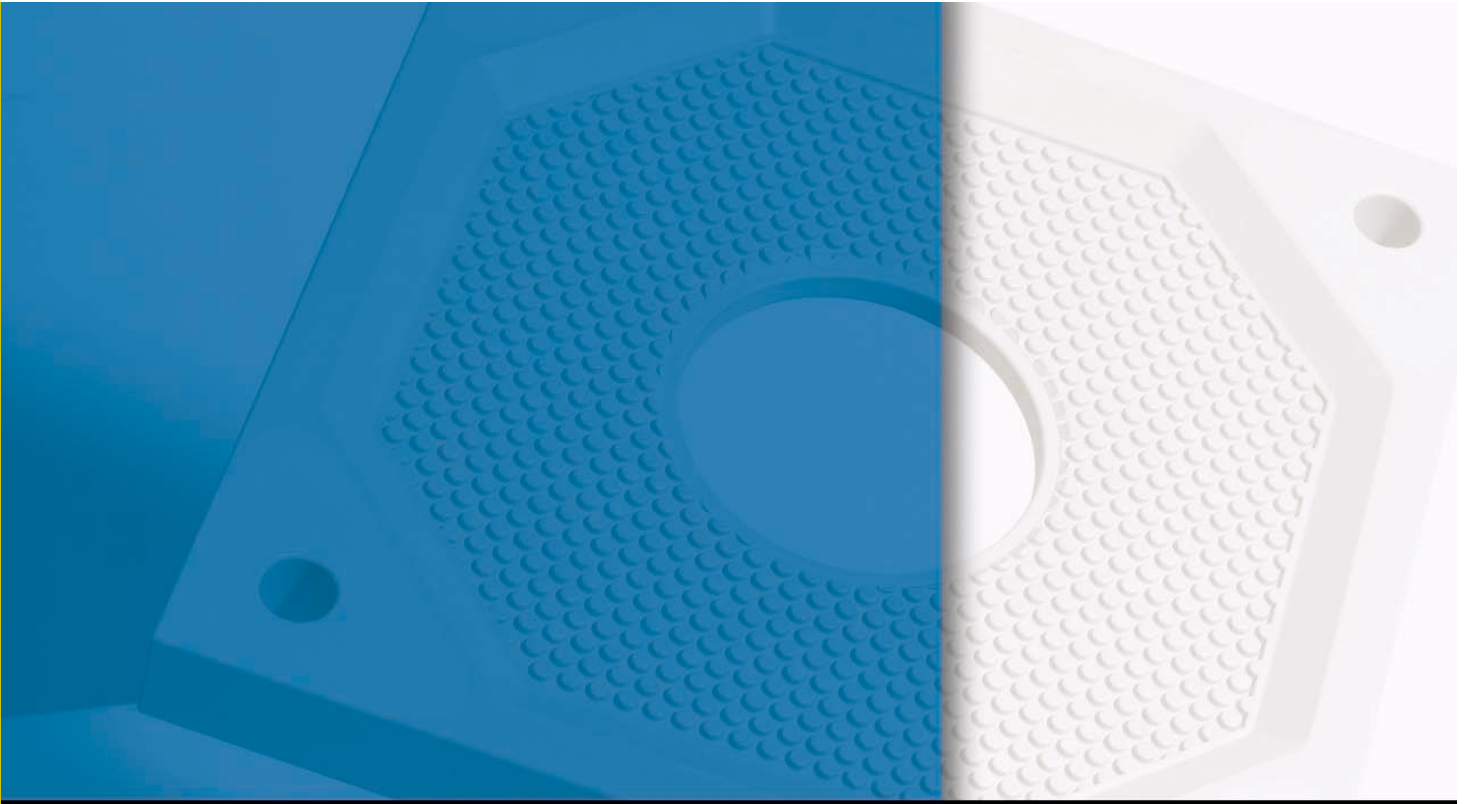
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KLINKAU AMERICA INC.

Providing
Filtration Solutions
to Meet Your
Specialized Needs

MEMBRANE FILTER PLATES

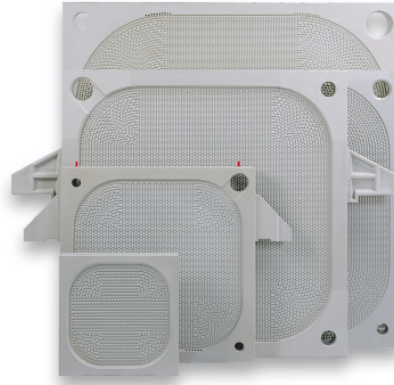
Klinkau membrane filter plates are primarily used in applications that require reduced cycle times, increased cake dry solids and improved cake wash capability. The Klinkau membrane filter plate offers a significant advantage over conventional filter plates when the degree of dryness of the filter cake and the quality of the filter cake composition cannot be compromised.

We offer three standard membrane filter plate designs:

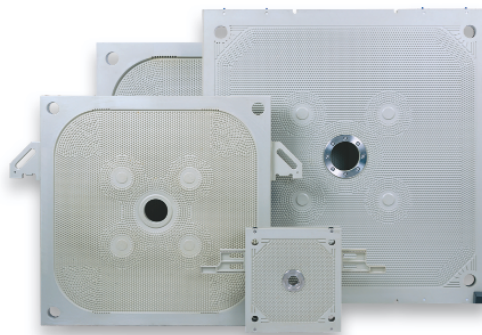
- **Fixed Welded**
- **Fixed Welded, "Empty Chamber" Design**
- **Replaceable Membrane, "Empty Chamber" Design**

Klinkau membrane filter plates are available in sizes ranging from 470 mm to 2000 mm and are designed for operating pressures in excess of 225 psig (16 bar). Materials of construction include: polypropylene, polypropylene modifications, EP (santoprene), and PVDF (polyvinylidene fluoride).

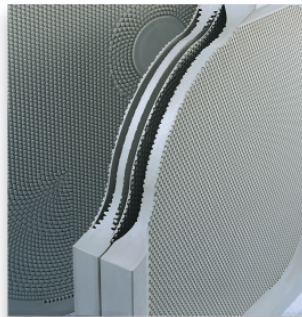
All designs are available with a variety of options. Contact your Klinkau Sales Representative for information on your specific application.



Corner feed, fixed welded design.



Center feed, replaceable and fixed welded designs.

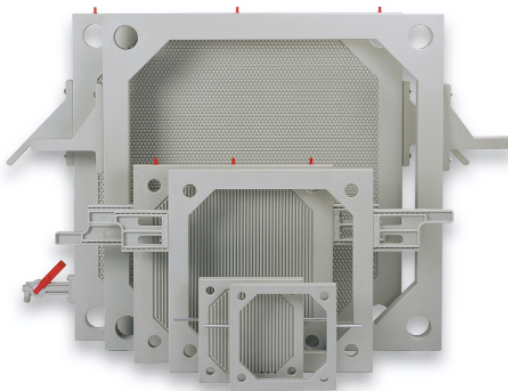


Cutaway view of "empty chamber" membrane design (right photo).

Klinkau membrane filter plates provide optimal filtration results. They enhance throughput capacity, increase cake solids content and improve product yield.

FILTER PLATES AND FRAMES

We manufacture a complete line of plate and frame filter plates to accommodate the basic, yet unique applications of the filtration industry today. Customers utilize Klinkau filter plates and frames because of their excellent cake washing and air blow-down capabilities, ease of use, and their ability to provide cake thicknesses ranging from 10 mm to 60 mm. Contact your Klinkau Sales Representative for information on your specific application.



Proven reliability and efficiency make Klinkau filter plates and frames the first choice for basic and unique applications.

KLINKAU AMERICA INC. IS A LEADING U.S. MANUFACTURER OF COMPRESSION-MOLDED POLYPROPYLENE AND POLYVINYLIDENE FLUORIDE FILTER PLATES. KLINKAU FILTER PLATES ARE DESIGNED FOR USE IN LIQUID/SOLID SEPARATION PROCESSES UTILIZED IN POLISHING, FILTRATION, DEWATERING AND RECOVERY APPLICATIONS IN A WIDE VARIETY OF INDUSTRIES.

FOR ALMOST 20 YEARS, KLINKAU HAS BUILT ITS REPUTATION ON QUALITY WORKMANSHIP, AND A COMMITMENT TO CUSTOMER SATISFACTION. THOUSANDS OF CUSTOMERS HAVE RELIED ON OUR RIGOROUS TECHNICAL AND QUALITY STANDARDS TO SUPPORT A MULTITUDE OF APPLICATIONS WORLDWIDE.



A Klinkau filter plate undergoes several quality inspections prior to shipping.



In-house manufacturing of filter plates assures highest quality.

IN ADDITION TO OUR U.S.-BASED SALES AND MANUFACTURING FACILITY WHICH SERVICES NORTH, SOUTH AND CENTRAL AMERICA, OUR PARENT COMPANY, KLINKAU GMBH AND CO., LOCATED IN MARKTOBERDORF, GERMANY, PROVIDES FILTRATION SOLUTIONS TO THE EUROPEAN COMMUNITY AND WORLDWIDE MARKETS. OUR SISTER COMPANY, KLINKAU ASIA, SERVICES THE PACIFIC RIM.

KLINKAU OFFERS A WIDE RANGE OF FILTER PLATES (ELEMENTS) AND OPTIONS, AS WELL AS FILTRATION ACCESSORIES:

- MEMBRANE FILTER PLATES
- RECESSED CHAMBER FILTER PLATES
- FILTER PLATES AND FRAMES
- FILTER PLATE ACCESSORIES

RECESSED CHAMBER FILTER PLATES

Suitable for most standard filtration applications, Klinkau recessed chamber filter plates are manufactured with a fixed-volume recessed depth and area, formed on both sides of the filter plate. Cake and plate thickness are determined by the application requirements in design pressures in excess of 225 psig (16 bar).

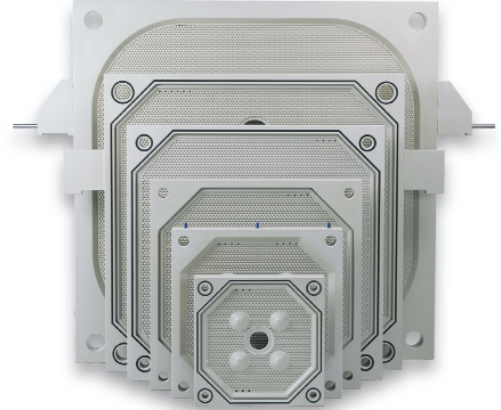
Our recessed chamber filter plates are supplied with standard non-gasket machined sealing surfaces to ensure durability and long service life. Recessed chamber filter plates can also be supplied with a caulking groove and gasket seal (CGR) to eliminate cloth wicking or leaking of filtrate from the filter plate stack.

Advantages of Klinkau recessed chamber filter plates include:

- **High volume capacities**
- **Ability to withstand extreme temperatures**
- **High solids filling and fast filtration rates due to increased feed eye size**
- **Optional caulked and gasketed design (CGR)**

FILTER PLATE ACCESSORIES

We offer a complete selection of filter plate accessories including spigots, liner pipes, grommets, handles and cake scrapers. Ask your Klinkau Sales Representative about the availability of these and other filtration accessories.



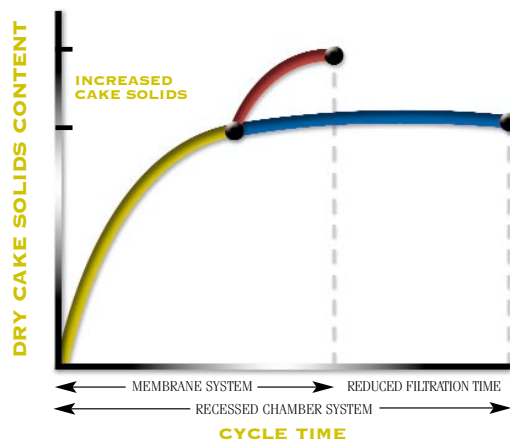
For standard applications and economy, the Klinkau recessed chamber filter plate is the filtration element of choice.

Klinkau recessed chamber filter plates are available in sizes ranging from 250 mm to 2000 mm (also 12" to 59"). Contact your Klinkau Sales Representative for information on your specific application.



Virtually any filter plate accessory can be provided to complete your filtration needs.

MEMBRANE PLATE SYSTEM VERSUS RECESSED CHAMBER PLATE SYSTEM



Klinkau America Inc.