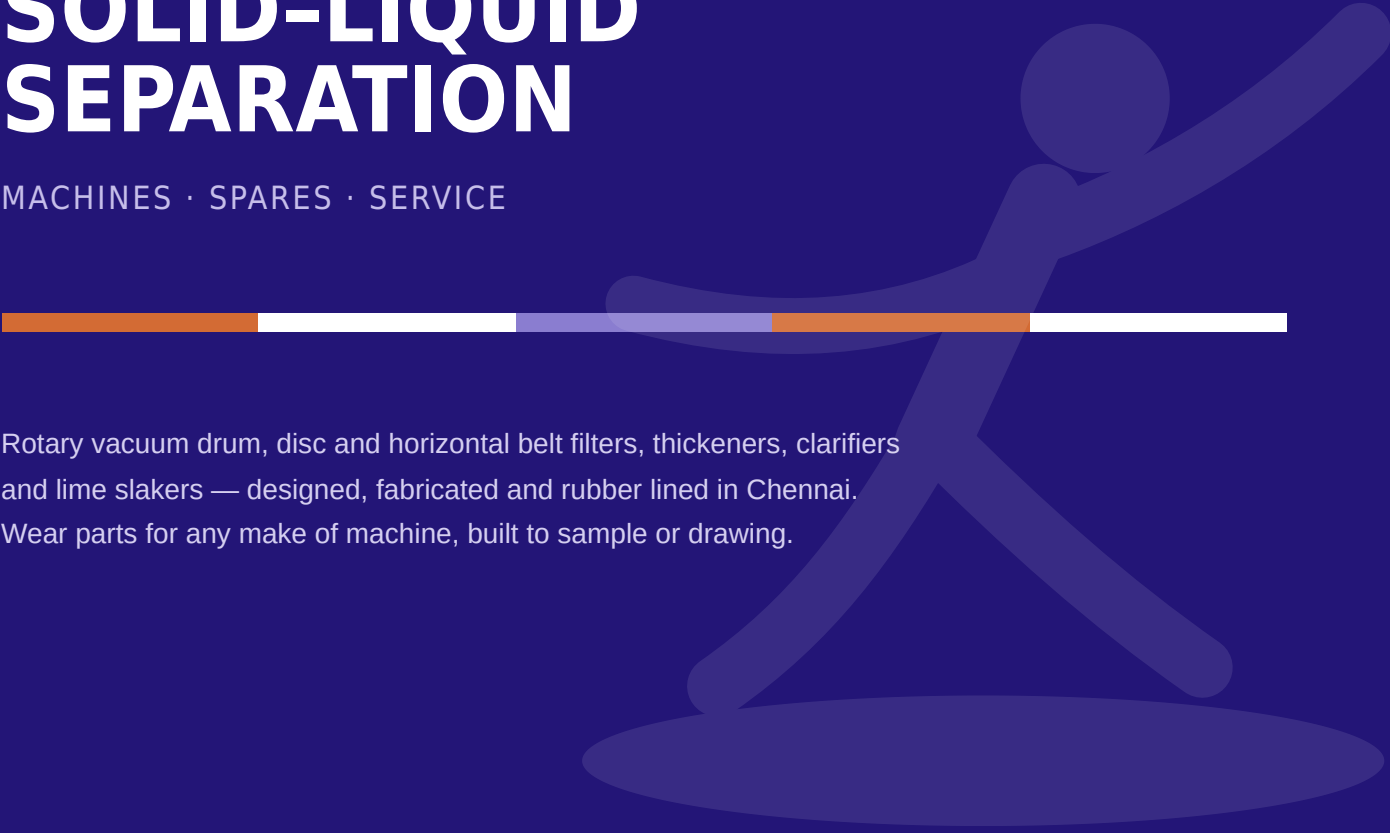




PRODUCT CATALOGUE · SEPTEMBER 2026

SOLID-LIQUID SEPARATION

MACHINES · SPARES · SERVICE



Rotary vacuum drum, disc and horizontal belt filters, thickeners, clarifiers and lime slakers — designed, fabricated and rubber lined in Chennai. Wear parts for any make of machine, built to sample or drawing.

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FILCARE AT A GLANCE

Filcare was founded by **Mr. T. Srikanth** and builds solid–liquid separation equipment from its works in Chennai. We do three things: we manufacture machines, we make wear parts for machines of any make, and we keep both of them running.

The company is a manufacturer rather than a trader. Fabrication, machining, rubber lining and assembly are ours, which is why a worn part sent to us on Monday becomes a drawing we hold and a part we can build again.

{yrs}
YEARS
BUILDING

{no.}
MACHINES
SUPPLIED

2–3
MONTHS,
MACHINE

1–6
WEEKS,
WEAR
PARTS

Highlighted figures are for Filcare to confirm from its own records before this catalogue is issued.

MACHINE DOWN?

+91 94441 18723 takes breakdown calls. Parts are cut in our works and engineers travel from Chennai.

WHAT WE DO

Three businesses that feed each other. The machines teach us the wear parts; the wear parts get us into plants running other people's machines; the service work tells us what to change in the next machine.

MACHINES

Five machine families, built to duty rather than to a standard size list. Every machine is sized against your slurry, not against a catalogue page.

- Rotary Vacuum Drum Filter
- Rotary Vacuum Disc Filter
- Horizontal Vacuum Belt Filter
- Thickener and Clarifier
- Lime Slaker

SPARES

Wear parts for any make of machine — built to sample, to drawing, or to dimensions taken off the machine. We hold the drawing afterwards, so the second order is faster than the first.

- Drum and disc filter wear parts
- Rubber filter belts to 3200 mm
- Thickener drives, rakes and squeegees
- Filter cloth and sector bags
- Rubber lining and relining

SERVICE

The part of the business that decides whether a plant makes its numbers. Breakdown response, refurbishment, and planned change-outs with the long-lead items already in Chennai.

- Breakdown response
- Reverse engineering
- Site survey and audit
- Refurbishment
- Erection and commissioning
- Annual maintenance contracts

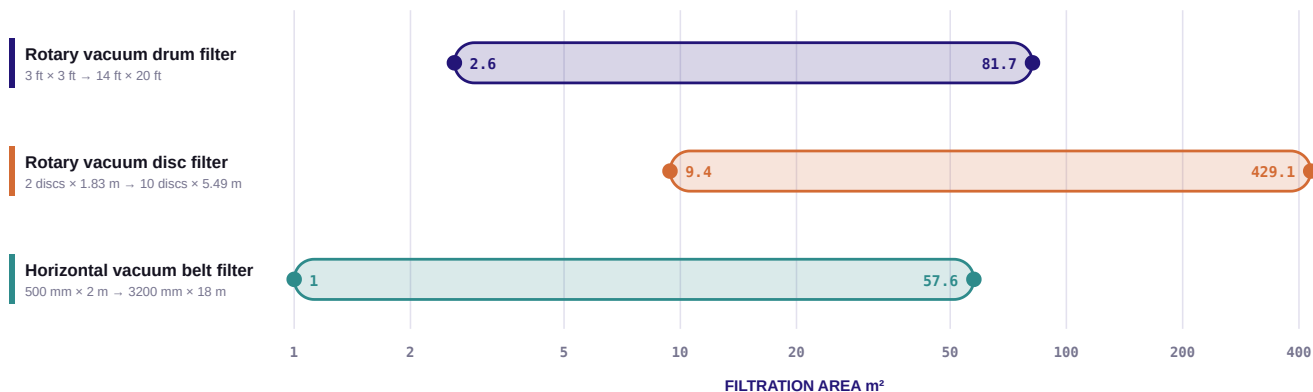
WHY FILCARE

REASON	WHAT IT MEANS FOR YOU
Spares for anyone's machine	Dorr-Oliver, Eimco, Andritz, Metso, FLSmidth, Outotec, Ishigaki or unbranded. Built to sample or drawing. You are not locked to the original supplier.
Breakdown response from Chennai	A plant stopped in India does not wait on a European lead time. Parts are cut in our works and engineers travel the same week.
Manufacturer, not a trader	Fabrication, machining, rubber lining and assembly are ours. The drawing that makes your part is a drawing we hold.
Rubber lining in house	MSRL underwater parts and vats for brine, chloride and acid service — the capability that most Indian fabricators sub-contract and most importers refuse.
Real delivery dates	Two to three months on a machine, one to six weeks on most wear parts. Dates we put in the offer are dates we work to.
Founded and run by engineers	Filcare was founded by Mr. T. Srikanth. Offers are prepared by him, and the technical answer you get is from the person who costs the job.

THE RANGE AT A GLANCE

THE FILCARE RANGE AT A GLANCE

logarithmic scale



Sized on a different axis

Thickener / clarifier — settling area, not filtration area: 3 – 30 m diameter, 7 – 707 m², to 67 800 Nm rated torque
Lime slaker — lime throughput: 0.5 – 8 TPH quicklime (CaO)

MACHINE	CODE	RANGE	WHERE IT IS THE RIGHT ANSWER
Rotary Vacuum Drum Filter	FRD	Continuous vacuum filtration, 2.6 to 82 m²	Continuous general-purpose filtration
Rotary Vacuum Disc Filter	FRC	Maximum area in minimum floor space, 9 to 429 m²	Maximum area per m² of floor
Horizontal Vacuum Belt Filter	FHB	The washing machine — 1 to 58 m², up to five wash stages	Cake washing and low moisture
Thickener and Clarifier	FTC	3 to 30 m diameter · standard drive to 67 800 Nm	Gravity thickening and clarification
Lime Slaker	FLS	Detention type, 0.5 to 8 TPH quicklime, skid mounted	Milk-of-lime preparation

CHOOSING BETWEEN DRUM, DISC AND BELT

If the cake has to be washed properly, use a belt filter — flat cake and true counter-current washing beat everything else. If the duty is high tonnage with little washing, use a disc filter and buy area cheaply. For everything in between, and for anything needing precoat, use a drum filter.

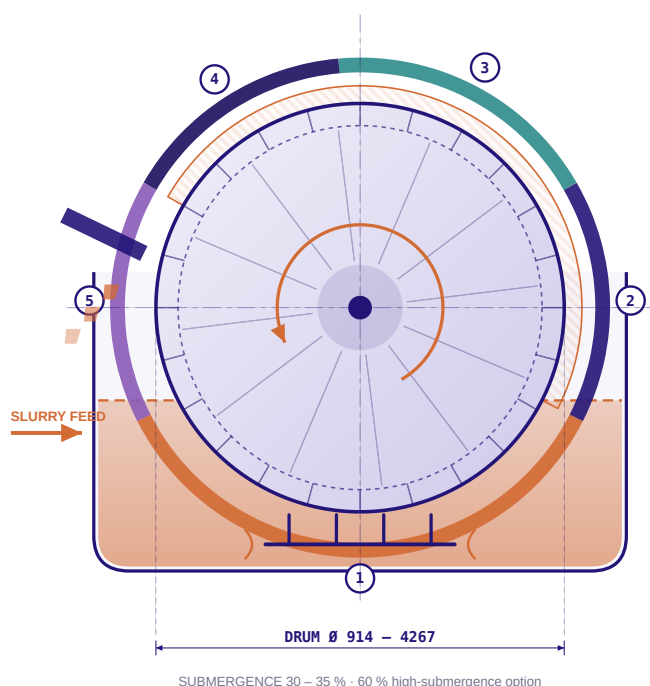
WE SIZE AGAINST A TEST, NOT A TABLE

Areas in this catalogue are calculated from geometry. The area *you* need comes from a leaf test or pilot run on your actual slurry. Send us a sample, or the data if you already have it, and the offer will carry a guaranteed duty rather than a hopeful one.

ROTARY VACUUM DRUM FILTER

CONTINUOUS VACUUM FILTRATION, 2.6 TO 82 M²

Continuous dewatering of industrial slurries at 2 to 40 wt% solids. A cloth-covered drum divided into compartments rotates through a stirred vat; an automatic valve applies vacuum to each compartment in turn, so that cake pick-up, dewatering, washing and discharge happen simultaneously at different points on the drum.



FILTRATION CYCLE

- ① **FORM**
Submerged arc. Vacuum draws filtrate through the cloth; cake builds on the face.
- ② **DEWATER**
Cake leaves the vat. Drying vacuum displaces entrained liquor.
- ③ **WASH**
Optional displacement wash, counter-current, 1 to 3 arcs.
- ④ **DRY**
Final drying vacuum to the target cake moisture.
- ⑤ **DISCHARGE**
Snap blow releases the cake to the scraper; cloth wash follows.

0.2 – 3 rpm
drum speed, VFD

53 – 87 kPa
operating vacuum

2 – 40 wt%
feed solids

3 – 40 mm
cake thickness

APPLICATIONS

Chemical Mineral processing Pulp and paper Pharmaceutical and food Effluent

Full size and selection tables, scope of supply, utilities and inspection scope are in datasheet **FIL/DS/FRD/01**, available at filcare.in or on request.

KEY DATA

PARAMETER	VALUE
Range	Continuous vacuum filtration, 2.6 to 82 m ²
Filtration area	2.6 – 82 m ² standard; larger to enquiry
Drum speed	0.2 – 3 rpm standard, VFD; to 6 rpm on fast-filtering duty
Submergence	30 – 35 % standard vat; 40 – 60 % high-submergence vat
Operating vacuum	400 – 650 mmHg (53 – 87 kPa) below atmosphere

MATERIALS

- **Drum shell and heads** — IS 2062 mild steel · MS rubber lined · SS 304 · SS 316 / 316L
- **Drum segments** — SS 304 · SS 316L · polypropylene
- **Drainage grid** — Polypropylene · SS 304
- **Vat** — Mild steel · MS rubber lined · SS 316L · FRP
- **Agitator** — SS 304 · SS 316L · rubber lined MS

PRINCIPAL OPTIONS

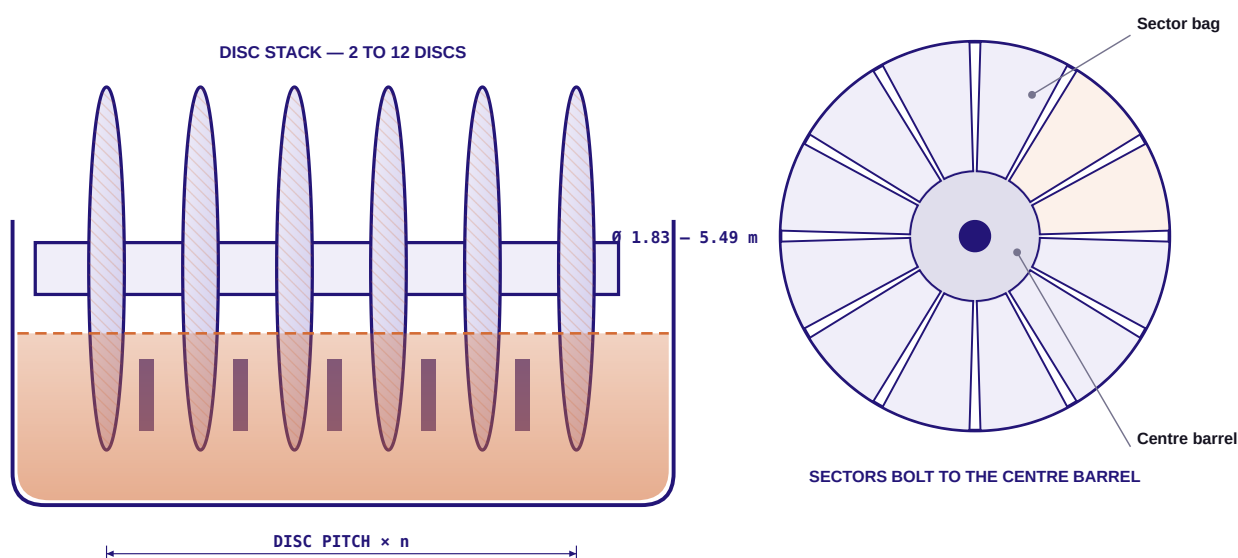
- **High-submergence vat**
- **Precoat arrangement**
- **Multi-stage cake wash**
- **Cloth wash**
- **Steam hood**

FRC SERIES

ROTARY VACUUM DISC FILTER

MAXIMUM AREA IN MINIMUM FLOOR SPACE, 9 TO 429 M²

Where the duty is high tonnage and cake washing is not critical, a disc filter gives three to four times the filtration area of a drum filter on the same footprint. Sectors bolt to a central barrel; each disc filters on both faces, and area is added simply by adding discs.



APPLICATIONS

Iron ore and base metal concentrate dewatering

Pulp thickening and stock washing

Coal fines and flotation concentrate

Kaolin, calcium carbonate and industrial minerals

Full size and selection tables, scope of supply, utilities and inspection scope are in datasheet **FIL/DS/FRC/01**, available at filcare.in or on request.

KEY DATA

PARAMETER	VALUE
Range	Maximum area in minimum floor space, 9 to 429 m ²
Filtration area	9 – 429 m ² depending on disc size and count
Discs per machine	2 – 12 standard
Disc speed	0.3 – 2.5 rpm, VFD
Submergence	30 – 38 %

MATERIALS

- **Sectors** — Polypropylene · SS 316L · rubber lined MS
- **Centre barrel** — Mild steel rubber lined · SS 316L
- **Vat** — Mild steel rubber lined · SS 316L
- **Agitator** — Oscillating rake, MSRL or SS
- **Automatic valve** — Cast iron with SS wear plate, UHMWPE bridge blocks

PRINCIPAL OPTIONS

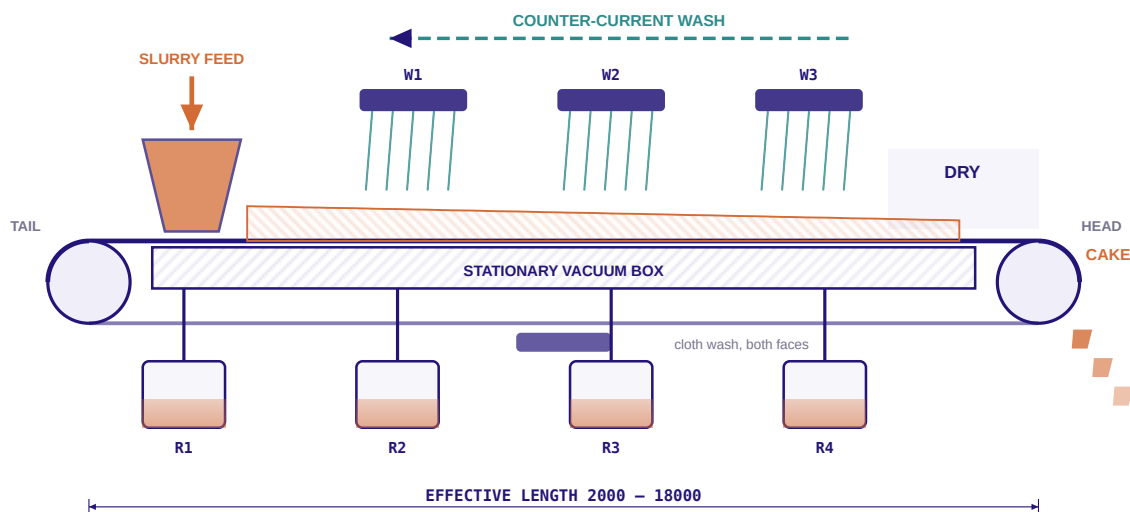
- **Sector quick-release**
- **Cloth wash**
- **Rubber lining**
- **Vacuum package**
- **PLC / HMI**

FHB SERIES

HORIZONTAL VACUUM BELT FILTER

THE WASHING MACHINE — 1 TO 58 M², UP TO FIVE WASH STAGES

When the product is in the cake and the wash has to be near-perfect, a horizontal belt filter is the only type that does it properly. The cake sits flat on a moving belt and passes under wash headers in true counter-current sequence, so displacement is close to theoretical and soluble losses fall to a fraction of a percent.



APPLICATIONS

Gypsum from phosphoric acid

Hydrometallurgical leaching

Fertiliser and speciality chemical washing

Flue-gas desulphurisation gypsum

Food and starch dewatering

Full size and selection tables, scope of supply, utilities and inspection scope are in datasheet **FIL/DS/FHB/01**, available at filcare.in or on request.

KEY DATA

PARAMETER	VALUE
Range	The washing machine — 1 to 58 m ² , up to five wash stages
Belt width	500 – 3200 mm
Effective filtration length	2 – 18 m
Filtration area	1 – 58 m ²
Belt speed	0.3 – 6 m/min, VFD

MATERIALS

- **Filter belt** — Rubber, flat or ripple-curb profile, multiple grades to duty
- **Belt curb profile** — Flat · ripple · moulded side curb
- **Vacuum box** — SS 316L · polypropylene · MS rubber lined
- **Wear strips** — UHMWPE
- **Deck and frame** — Mild steel epoxy · SS 304

PRINCIPAL OPTIONS

- **Additional wash zones**
- **Steam or hot-air hood**
- **Cake compression roller**
- **Indexing (fixed-belt) arrangement**
- **Acid-resistant build**

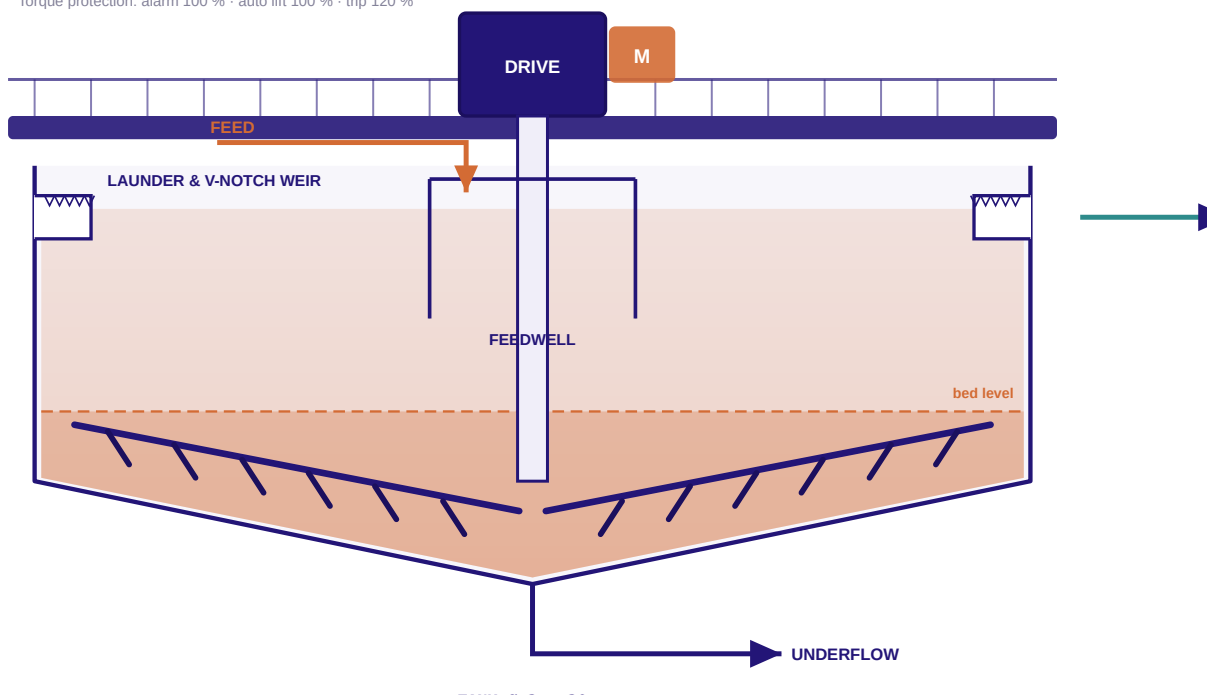


THICKENER AND CLARIFIER

3 TO 30 M DIAMETER · STANDARD DRIVE TO 67 800 NM

Gravity thickening and clarification for process and effluent duty. Filcare builds the mechanism — drive head, rake, feedwell and launder — to suit the tank, whether that tank is existing civil, new civil, or a steel tank in our scope. Underwater parts are mild steel rubber lined as standard for brine and chloride service.

Torque protection: alarm 100 % · auto lift 100 % · trip 120 %



APPLICATIONS

Brine clarification for chlor-alkali and soda ash

Water and wastewater primary and secondary clarification

Mineral concentrate and tailings thickening

Neutralisation and effluent sludge thickening

Sugar, starch and food process clarification

Full size and selection tables, scope of supply, utilities and inspection scope are in datasheet **FIL/DS/FTC/01**, available at filcare.in or on request.

KEY DATA

PARAMETER	VALUE
Range	3 to 30 m diameter · standard drive to 67 800 Nm
Tank diameter	3 – 30 m standard; larger to enquiry
Standard drive range	To 50 000 ft-lb (67 800 Nm) rated torque
Torque required	$K \times D^2$ — see the selection table. Above the standard range the mechanism is built to enquiry with a larger slewing ring
Duty classes	Light $K=5$ · Medium $K=12$ · Heavy $K=22$, where $T(\text{ft-lb}) = K \times D(\text{ft})^2$

MATERIALS

- Underwater parts — MSRL — mild steel rubber lined (standard for brine)
- Rake arms and blades — MSRL · SS 316L · MS epoxy
- Squeegees — Neoprene · natural rubber · UHMWPE
- Feedwell — MSRL · SS 316L · FRP
- Launder and weir — SS 316L · FRP · MS epoxy

PRINCIPAL OPTIONS

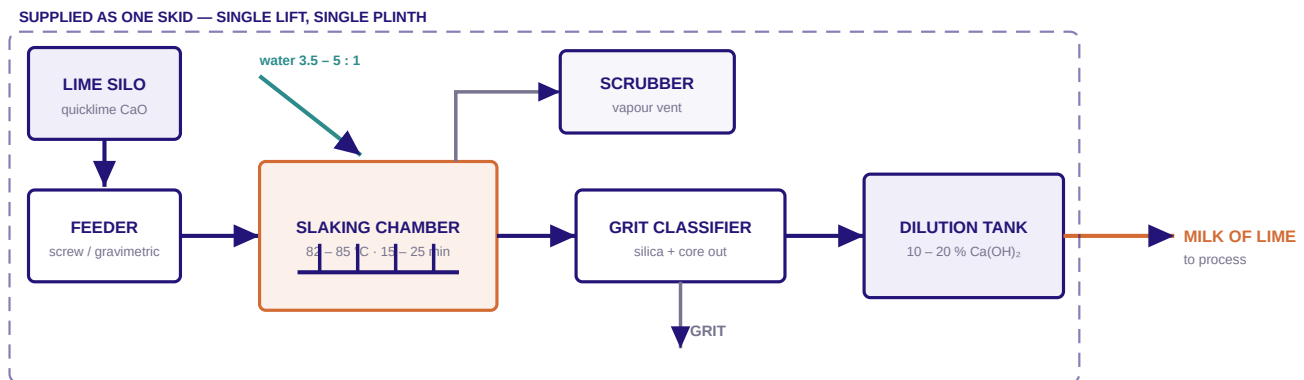
- Motorised rake lift
- Load cell torque sensing
- High-rate feedwell
- Flocculant dosing skid
- Bed level instrument

FLS SERIES

LIME SLAKER

DETENTION TYPE, 0.5 TO 8 TPH QUICKLIME, SKID MOUNTED

Detention-type slakers that convert quicklime to a stable milk-of-lime slurry, complete with grit removal and vapour scrubbing, delivered as a single skid that lands on a plinth and runs.



APPLICATIONS

Water and effluent treatment

Flue-gas desulphurisation

Sugar refining

Mineral processing

Paper

Full size and selection tables, scope of supply, utilities and inspection scope are in datasheet **FIL/DS/FLS/01**, available at filcare.in or on request.

KEY DATA

PARAMETER	VALUE
Range	Detention type, 0.5 to 8 TPH quicklime, skid mounted
Capacity	0.5 – 8 TPH as quicklime (CaO)
Water : lime ratio	3.5 : 1 to 5 : 1 by weight, ratio controlled
Slaking temperature	82 – 85 °C, thermostatically held
Retention time	15 – 25 minutes

MATERIALS

- **Slaking chamber** — SS 304 · SS 316L
- **Paddles and shaft** — SS 304 with hardfaced tips
- **Grit classifier** — SS 304 · mild steel epoxy
- **Dilution and slurry tank** — SS 304 · MS rubber lined
- **Skid frame** — Mild steel, epoxy painted

PRINCIPAL OPTIONS

- **Gravimetric feeder**
- **Fully automatic PLC**
- **Lime silo and bin activator**
- **Slurry ring main**
- **Paste slaker configuration**

OPTIONS AND CAPABILITY MATRIX

What can be built onto which machine. Anything marked on enquiry has been done before — it just needs the duty before we commit to it.

CAPABILITY	DRUM	DISC	BELT	THICKENER	SLAKER
Mild steel rubber lined (MSRL) wetted parts	●	●	●	●	○
Full SS 316 / 316L build	●	●	●	●	●
Displacement cake wash	●	○	●	—	—
Multi-stage counter-current wash	○	—	●	—	—
Precoat arrangement with advancing knife	●	—	—	—	—
Cloth wash, both faces	●	●	●	—	—
Steam or hot-air hood	●	—	●	—	—
VFD speed control	●	●	●	●	●
PLC / HMI control package	●	●	●	●	●
Vacuum package within scope	●	●	●	—	—
Torque protection, alarm / auto lift / trip	—	—	—	●	—
Flocculant preparation and dosing skid	—	—	—	●	—
Grit classifier and vapour scrubber	—	—	—	—	●
Skid-mounted, single-lift delivery	○	—	○	—	●
Erection and commissioning supervision	●	●	●	●	●
Annual maintenance contract with held spares kit	●	●	●	●	●

● standard or available · ○ on enquiry · — not applicable to this machine type

RUBBER LINING IS IN HOUSE

MSRL underwater parts, vats, drums and rake arms for brine, chloride and acid service. Most Indian fabricators sub-contract this and most importers will not quote it at all. For chlor-alkali and soda ash duty it is usually the deciding capability.

STANDARD INSPECTION AND TEST

- Material test certificates (EN 10204 3.1) for all pressure-retaining and wetted plate
- Dye-penetrant examination of wetted welds
- Hydrostatic / leak test of vat, drum and filtrate lines
- Dimensional inspection against approved GA drawing
- No-load trial run at works: rotation, valve timing, agitator sweep
- Drive and gearbox test certificates from the OEM

SPARES FOR ANY MAKE OF MACHINE

You are not locked to the original supplier. Send the worn part, a drawing, or measurements off the machine. We reverse-engineer it, build it, and keep the drawing so the next one is quicker.

Dorr-Oliver

Eimco

Andritz

Metso

FLSmidth

Outotec / Larox

Ishigaki

Komline-Sanderson

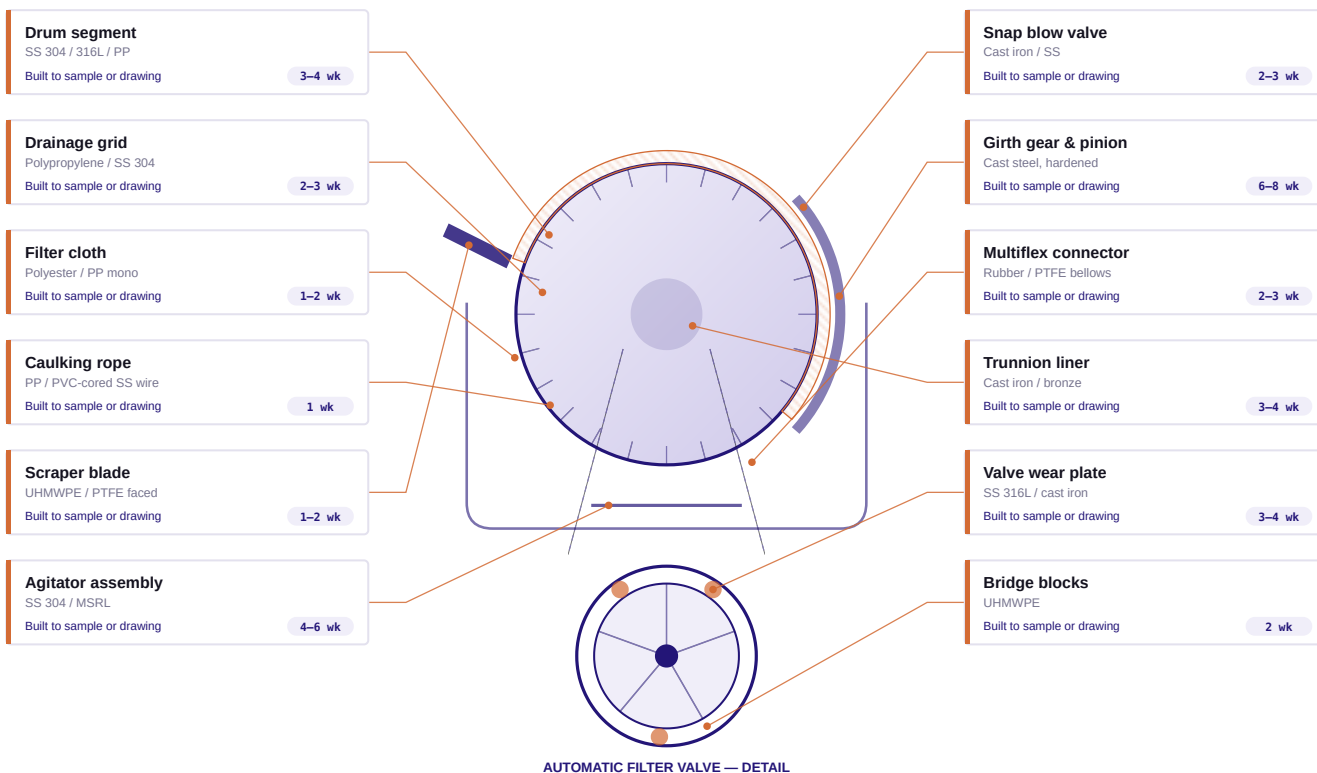
Peterson

Bird

Ametek

and unbranded / locally built machines

ROTARY VACUUM DRUM FILTER — WEAR PARTS



Any make · Dorr-Oliver · Eimco · Andritz · Metso · FLSmidth · unbranded

Drum filter wear parts – material options and lead time

Lead times are ex-works Chennai from receipt of sample or approved drawing. Breakdown jobs are expedited — say it is a breakdown and we will tell you the same day what can be compressed.

SPARES COVERAGE BY MACHINE

Every wear part we make, against every machine type we make it for — Filcare machines and everyone else's.

CAPABILITY	DRUM	DISC	BELT	THICKENER	SLAKER
Filter cloth / media / sector bags	●	●	●	—	—
Rubber filter belt, flat or ripple curb	—	—	●	—	—
Drum segments / disc sectors	●	●	—	—	—
Drainage grid	●	○	—	—	—
Caulking rope and strip	●	—	—	—	—
Scraper and rake blades	●	●	●	●	○
Automatic valve wear plate	●	●	—	—	—
Bridge blocks	●	●	—	—	—
Trunnion liner / centre barrel liner	●	●	—	—	—
UHMWPE vacuum box wear strips	—	—	●	—	—
Spray nozzles and wash headers	●	●	●	—	○
Drive head, gearbox and pinion	●	●	●	●	●
Girth gear	●	●	—	—	—
Rake arms, squeegees, torque tube	—	—	—	●	—
Feedwell, launder and weir plate	—	—	—	●	—
Rubber lining and relining	●	●	●	●	●

● standard or available · ○ on enquiry · — not applicable to this machine type

WHAT TO SEND WITH AN ENQUIRY

SEND US	NOTES
Machine make and model	Nameplate photograph is ideal
Drum / disc / belt size	Diameter and face width, mm or feet
Part name	And OEM part number if you have it
Photograph	Worn part plus the machine nameplate
Sample or drawing	We work to either; a sample is fastest
Duty	Slurry, operating temperature, pH, abrasives
Quantity	And whether this is a breakdown or a planned change-out

THE FASTEST ENQUIRY WE RECEIVE

A photograph of the worn part with a tape measure across it, a photograph of the machine nameplate, and one line saying what the slurry is. That is usually enough for us to quote without a site visit.

HELD SPARES KIT

On an annual maintenance contract we hold the long-lead items — gears, drive heads, rubber-lined parts — in Chennai against your machine, so a failure costs days rather than months.

SERVICE, REFURBISHMENT AND AMC

A filter that is down is not a filtration problem, it is a production problem. Everything here exists to shorten the time between the call and the machine turning again.

SERVICE	WHAT IT COVERS
Breakdown response	Spares built and engineers despatched from Chennai. Call the number on this page — it reaches a person, not a queue.
Reverse engineering	Send the worn part, a drawing or dimensions off the machine. We produce the manufacturing drawing and the part.
Site survey and audit	Condition survey of the machine, wear measurement and a written spares plan with change-out intervals.
Refurbishment	Drum re-segmenting, valve re-lapping, rake arm replacement, full rubber relining — in our works or at your site.
Erection and commissioning	Supervision or full scope, with performance demonstration against the guaranteed duty.
Annual maintenance contracts	Scheduled inspection with a held spares kit, so the long-lead items are already in Chennai when you need them.

REFURBISHMENT SCOPE

- Drum re-segmenting and re-gridding
- Automatic valve re-lapping and new wear plate
- Trunnion re-lining and journal re-machining
- Rake arm replacement and re-blading
- Full rubber relining of drums, vats and rake arms
- Drive head overhaul with new slewing ring
- Vacuum system survey and leak sealing

NOT INCLUDED AS STANDARD

- Civil foundation, grouting, anchor bolts and civil works
- Erection, alignment and commissioning supervision unless separately quoted
- Slurry feed pump, vacuum pump and filtrate pump unless listed in scope
- Power, air, water and effluent lines up to the equipment terminal points
- Instrumentation beyond the items listed in scope of supply
- Any statutory approvals, insurance or third-party inspection charges

Each of these can be brought into scope — they are listed so that an offer is never ambiguous about where our responsibility starts and stops.

INDUSTRIES SERVED

The same five machines, applied to very different slurries. What changes between them is materials, wash arrangement and how hard the machine is driven.

INDUSTRY	TYPICAL DUTIES
Chemical and petrochemical	Sodium sulphate, soda ash, pigments, precipitated calcium carbonate, catalyst recovery
Chlor-alkali and soda ash	Brine clarification, salt recovery, bicarbonate filtration
Mineral processing	Concentrate dewatering, tailings, clay, coal fines
Fertiliser and phosphoric acid	Gypsum filtration and counter-current washing
Pulp and paper	Brown stock washing, lime mud, stock thickening
Water and wastewater	Primary and secondary clarification, sludge thickening, lime dosing for pH correction
Sugar, starch and food	Carbonatation, starch dewatering, juice clarification
Pharmaceutical and fine chemical	Crystalline intermediates, precoat polishing

BRINE AND CHLOR-ALKALI

Saturated brine at pH extremes destroys ordinary steel. MSRL underwater parts, rubber-lined vats and SS 316L wetted surfaces are the standard Filcare build for this service, not an option.

REFERENCE LIST

(Filcare to insert named references, plant locations and duties) — a short list of named plants, with the machine and the duty, is the single most persuasive page in any equipment catalogue.

HOW WE WORK

- 1 **Enquiry.** Tell us the slurry, the throughput and what the cake has to look like. If you have a filtration test, send it; if not, send a sample.
- 2 **Sizing.** We size the machine against a leaf test or your data, and tell you which machine type is actually right — including when it is not ours.
- 3 **Offer.** Scope, price and delivery in one lean document, prepared by Mr. T. Srikanth. No weight columns, no padding.
- 4 **Drawings.** General arrangement for approval before fabrication starts. Nothing is cut until you have signed the GA.
- 5 **Manufacture.** Fabrication, machining, rubber lining and assembly in our Chennai works, with the inspection scope agreed in the order.
- 6 **Despatch and erection.** Trial run at works, then erection supervision or full erection scope at site.
- 7 **After the handover.** The drawings stay with us. When a part wears, we already know what it is.

WHAT TO SEND WITH AN ENQUIRY

ITEM	WHY WE ASK
Slurry	What it is, and what is abrasive or corrosive in it
Solids concentration	wt % in the feed
Throughput	Dry solids per hour, or slurry m ³ /h
Cake requirement	Target moisture, and whether it must be washed
Temperature and pH	Operating range, not just nominal
Materials	Anything already proven, or forbidden, in your plant
Site	Power, air, water and vacuum available at the battery limit

WE WILL TELL YOU WHEN IT IS NOT US

If a centrifuge or a filter press is the right machine for your duty, we will say so. A wrong machine sold once costs more than a right machine not sold.



TALK TO US

SEND US THE SLURRY. WE WILL SEND YOU THE MACHINE.

WORKS AND OFFICE

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ENQUIRIES AND BREAKDOWNS

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Filcare reserves the right to alter specifications in the course of development. Dimensions, weights and powers in this catalogue are for selection and budget purposes; certified data is issued with the approved general-arrangement drawing. Machine makes named in this catalogue are the trade marks of their respective owners and are referred to only to identify the equipment for which Filcare supplies replacement parts.