

An ISO 9000:2015 COMPANY

Rotofilt



- For continuous separation by filtration.
- Cylindrical / Cylinthroconical baskets
- Counter-current washing
- Hydraulic pushing mechanism
- Solid discharge by collection channel and down guide
- Separation of Mother Liquor & wash by compartmented casing
- Basket diameters up to 900 mm.

Pusher | Centrifuge

With simple robust design the Pusher Centrifuge gives high throughputs under the toughest conditions. Operates purely on with mechanical drive the Pusher Centrifuge is suited for all fields for the separation of slurries with solid which filters easily.

Application

Typical products processed:

Chemicals : Glauber's salt, boric acid, ascorbic acid, adipic acid, sodium chloride, iron sulphate, sodium sulphate, copper sulphate, sodium bichromate.

Fertilisers : Ammonium sulphate, potash, urea, calcium nitrate, potassium sulphate.

Plastics / Explosive : PVC, polystyrene, polyethylene, polypropylene, linters, nitrocellulose.

Food stuff / Animal feeds : Extraction residues, meat pulp.

Benefication : Rock phosphate, gypsum, ores, coal.

Design Features

- Complete separation of mechanical unit from the process area.
- Can be fitted with Long and Short or Single and two baskets.
- Possesses individual drive for rotor and hydraulic system
- Has easy accessibility for maintenance Low Energy Consumption and is Easy to install.

Mechanical Unit

Sturdy welded construction of the bearing housing with incorporated oil pan and motor support. Vertically installed oil pump(s) which can be removed without draining of the oil. Hydraulic pusher control incorporated in the pusher piston.

Process area

Solids collecting housing and volute race discharge. Identical housing for single and two-stage baskets. Feed pipe or feed screw.

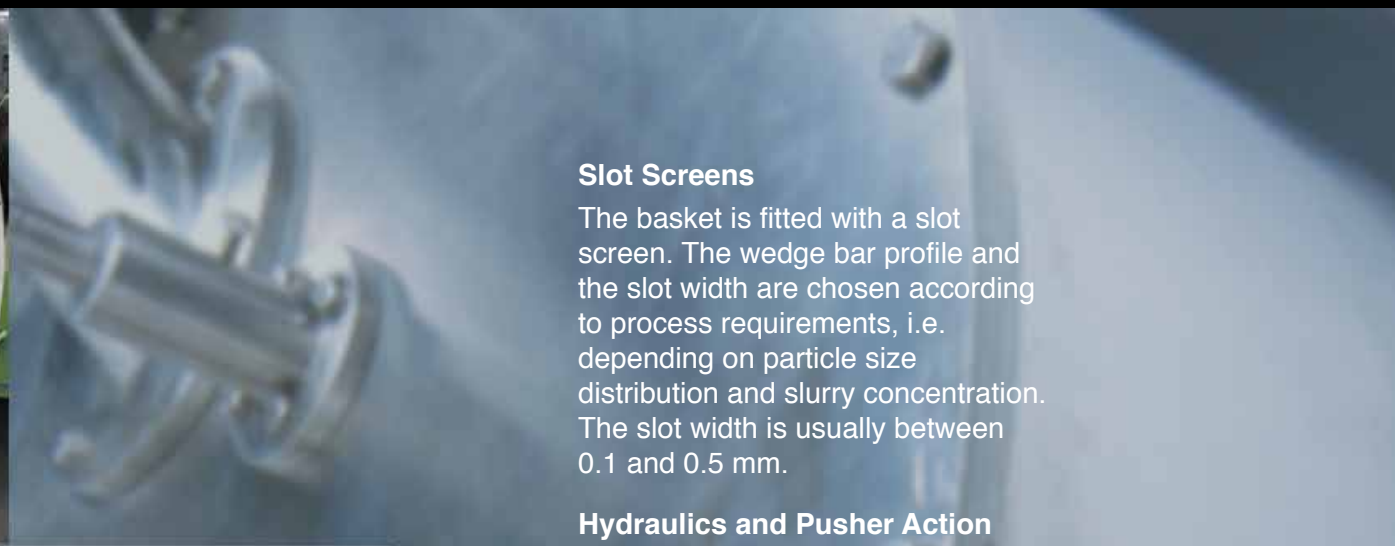
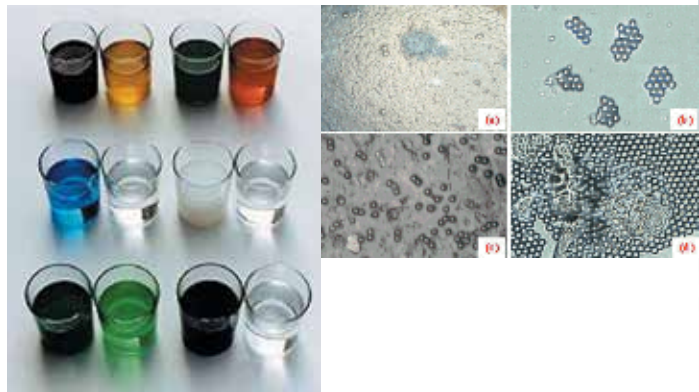
Various devices for the distribution of wash liquor.

"Wear protection package" available for abrasive products.

Oil pressure joints for simple assembly and disassembly of the basket and pusher plate.

Basket

The internal basket is available in several alloys. The basket shall is perforated with large filtration holes. Single and two-stage baskets in the long or short versions are available for optimum solution of the separation requirements.



Slot Screens

The basket is fitted with a slot screen. The wedge bar profile and the slot width are chosen according to process requirements, i.e. depending on particle size distribution and slurry concentration. The slot width is usually between 0.1 and 0.5 mm.

Hydraulics and Pusher Action

The pusher plate (or inner basket for two stage units) is operated hydraulically. The spindle pump(s) vertically installed in the oil pan, supplies the required quantities of oil at up to 60 bar pressure. The reversing mechanism is integrated within the pusher piston. It consists of a hydraulically operated precontrol valve. Stroke length adjustment is available as standard.



Options

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Type/Model	Basket Design	Basket Nominal ϕ (mm)	LXWXH (mm)	Approx. Wt. Kgs.
TME - 252	2 stage	250	1500 X 1100 X 950	1200
TME - 352	2 stage	350	1500 X 1100 X 950	1400
TME- 402 400	2 stage Single stage	400	2160 X 1100 X 1150	1600
TME - 502 500 500 C	2 stage Single stage Cylindro Conical	500 575	2450 X 1200 X 1200	1900
TME - 602 600 600 C	2 stage 2 stage Cylindro Conical	600 675	2550 X 1250 X 1250	2100
TME - 702 700 700 C	2 stage Single stage Cylindro Conical 2 stage	710 800	3050 X 1550 X 1770	4500
TME - 802 803 800 800 C	2 stage 3 stage Single stage Cylindro Conical	810	3050 X 1650 X 1750	5200
TME - 902 903 904 900 C	2 stage 3 stage 4 stage Cylindro Conical	910	3600 X 1800 X 1950	7150



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Rotofilt Engineers Ltd.

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Plot No. 102, Phase I, Opp. Torrent Sub Station, G.I.D.C., Vatva, Ahmedabad-382 443 India.

Tel.: +91 79 2589 9601 To 605 • Fax: +91 79 2589 9607 / 8 • Email : rotofilt@rotofilt.com, mktg@rotofilt.com • www.rotofilt.com