

Excel Technocrats

**Mfg.of. Coolant Filtration System
Design & Fabrication**

www.exceltechnocrats.com

Company Over View

Excel Technocrats is a Proprietor Owed Quality Accredited Manufacturing company and a leading OEM Supplier to Industry of high Quality Precision manufacturing Steel Products.

We have experience in a wide range of key manufacturing industries and our partners span a variety of industries including Automotive, In frastructure, food process ,Coolant Filtration Systems, Chip Conveyor & Several Manufacturing ,

We Offer Complete precision Manufacture Solution & services to industry for project of any size & scale ,As industry demands and expectations changes, Excel fabs Continues to evolve & investing our capabilities, facilities & services.

Range of Products

Coolant Filtration System

- Compact Band Filter
- Paper Band Coolant Filter
- Paper Band Cum Magnetic Separator
- Magnetic Separator
- Hydro Cyclone Filter
- Bag Filter
- Oil Skimmer
- Filter Consumable item
 - a) Filter Media
 - b) Filter Bag
 - c) Filter Cartridge
 - d) Filter Accessories



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Paper Band Cum Magnetic Separator



Paper band cum magnetic coolant filters are fabricated in steel. The entire unit is fixed on a coolant tank with a pump to supply coolant to the machine. The contaminated coolant liquid is first passed through the magnetic filter which separates almost 95% of the ferrous particles. The liquid further paper is clogged by contaminants the coolant level raised on filter and actuates the float switch which starts the geared motor and fresh paper from the roll is pulled forward automatically. Only paper band filter for filtering non ferrous particles also will be supplied

Model No.	PBMF / P.B.F	PBMF / P.B.F	PBMF / P.B.F	PBMF / P.B.F	PBMF / P.B.F	PBMF / P.B.F
Capacity LPM	50	70	100	150	200	300

Fully automated our **compact band filters** are easy to operate and provides cost effective solution for filtration. These compact band filters are specially designed for space efficiency and require only 20% of the space as compared to other compact band filters. The hydrostatic head and the perfect sealing of the machine ensure that there is no leakage or overflow of the material and high filtration efficiency is achieved. Engineered to precision, these compact band filters well suited for high flow rate and dirt content.

- Paper cartridge, washable cartridge, and stack type filter elements are available.
- System used to achieve final filtration level. Range: 30 LPM to 1000 LPM in one module.
- Suitable to max, working pressure 30 bar & pressure drop Of 3 bar across filter.
Clarity level : 75 microns to 3 microns.

Model No.	CB70EF	CB100EF	CB200EF	CB400EF	CB600EF	CB900EF	CB1200EF
Capacity LPM	70	100	100/200	200/400	400/600	600/900	900/1200

Compact Paper Band filter



Hinge Belt Chip Conveyors



Hinge belt chip conveyors, the most common format, after an effective means of managing heavy chip loads and stringy chips. Chips that fall from the machine tool land on the conveyor belt and are conveyed away from the machine tools precision surfaces.

Looking for a hinged belt chip conveyor, metal working or material handling conveyor? After careful analysis of your application, we engineer a hinged steel belt conveyor to meet all of your specifications. We ensure a lasting solution and proper fit. Our hinged belt conveyors are rugged, long wearing and low maintenance with many options to choose from. They are used to convey a wide variety of materials for virtually every industry involved in metal working, material handling, chip removal and scrap handling.

Belt sizes 1.5", 2.5", 4", 6" & 9" to meet a wide variety of profile and application needs

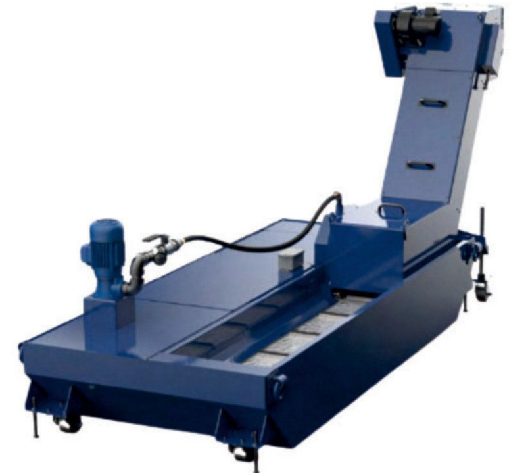
EFFECTIVELY SEPARATES ALUMINIUM CHIPS AND FINES FROM COOLANT

HOW IT OPERATES

The Dirty Tank Coolant Inlet is the first area to receive chips, turnings, fines and coolant from the machine tool. There, large chips settle to the bottom where they are removed by a drag Conveyor. All coolant must then pass through a series of drum filters. There A SS Drum screen, scraped, captures smaller chips and lighter weight chips Away by a scraping plate or flushed by back wash arrangement and then remove by the drag conveyor. The separated coolant exits through the inside of the Drum filter to a clean coolant exit.

The separated coolant can be now either pumped back to the machine tool, or Pumped through another filtration system for secondary cleaning. (excel fab) Filter compliments the Aluminum Chip Conveyor by providing secondary Coolant filtration. It filters coolant clean up to 25 microns.

Drum Chip Conveyors



Magnetic chip conveyor



Magnetic chip conveyors are intended for ferrous material applications with small chips. The chips fall onto the conveyor's stainless steel surface and are conveyed by powerful magnets moving underneath. The chips are released from the magnetic at the discharge end, and fall freely into a collection container.

scraper type chip conveyor



scraper type chip conveyors are most often used for cast iron, bronze or brass machining, which produces smaller chips that can nest together. Chips fall directly to the bottom of the conveyor, and scrapers drag debris to the discharge end of the conveyor.

Magnetic coolant filter



Magnetic coolant filters are designed for filtering coolant oil contaminated with ferrous materials. The contaminated coolant from the machine is fed into the inlet of the magnetic filter, which passes through the gap between the magnetic drum and the body. The drum is driven by a double reduction worm geared motor, and the dust particles are collected on the drum.

Magnetic Separator



The separation efficiency of a hydro cyclone depends on various factors, e.g. the size and shape of the sludge particles, the difference in density between solid and liquid, the viscosity of the liquid, the pressure differential in the cyclone and the cyclone size. Particles up to a grain size of approx. 5 μm can be separated with a minimum density differential between liquid and solid of 1 g/cm^3 (e.g. solid with 2 g/m^3 in water)

The Filtration (India) Manufactures superior quality Filter Cartridges of three different types, which are Wound Filter Cartridges, Sintered Metal Filter Cartridges and Spun Bonded Filter Cartridge. These filter cartridges are manufactured using top quality fiber and are capable of handling chemicals...

Filter Cartridges



Woven Filter Media



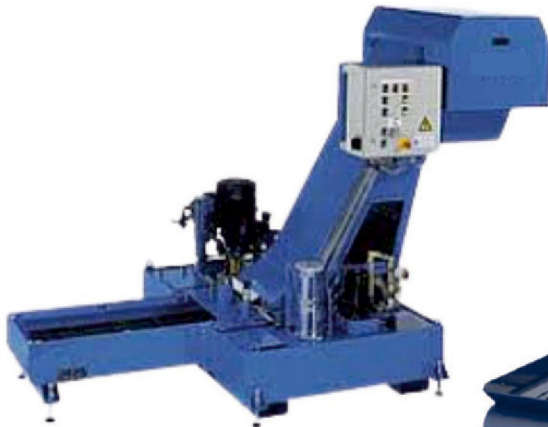
We have been manufacturing woven filter media, which is used extensively in disc filters, filterpress, vacuum filter drums, fluidized bed drier pan filters, rotary filters, decanters and centrifugal. Woven fabric filter media has found its primary use in flour milling shifting, de-dusting filters

Oil Skimmer



Although designs vary, all oil skimmers rely on specific gravity, surface tension and a moving medium to remove floating oil from a fluid's media in the shape of surface.

Floating or sinking oil and grease cling to skimming media more readily than water, and water has little affinity for the media. This allows skimming media in the shape of a belt, disk, drum, etc, to pass subsequently removed from the media with wiper blades or pinch rollers.



Best in quality

First in Service



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