



UNIIMAG  
EQUIPMENTS

## COOLANT FILTERS & CHIP CONVEYORS

TO INCREASE PRODUCTIVITY & QUALITY  
ON YOUR MACHINE TOOL

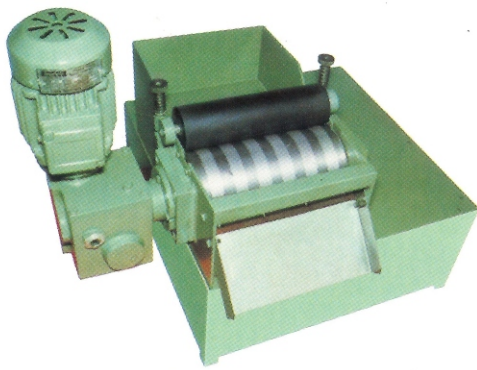
### INTRODUCTION

**UNIIMAG EQUIPMENTS** are pioneers in manufacturing complete system for 'Coolant filtration' and are specialized in custom build 'Chip conveyors'.

**COOLANT FILTERS** are designed to obtain very fine surface finish for components, wherever high dimensional and machining accuracy are main criteria. Life of the coolant increases enormously.

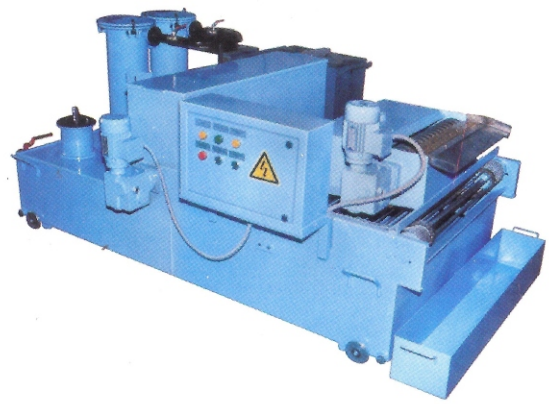
**CHIP CONVEYORS** are fully tailored, designed to suit specific requirements of parent machine and material handled. Increases productivity and reduces the downtime of machine.

A host of unique design features, combined with superior manufacturing capabilities, enable Uniimag Coolant filters & Chip conveyors to perform in even the most demanding production Environments more efficiently than the competitive products, while requiring less maintenance.



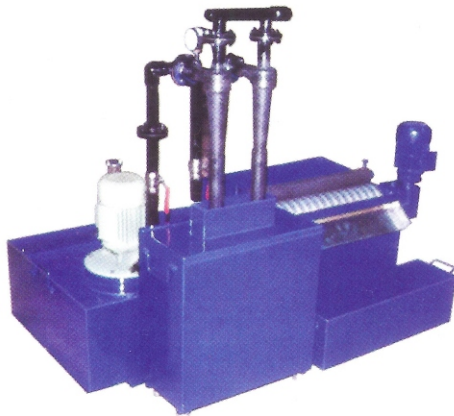
### MAGNETIC SEPARATOR

Available in two type of magnetic Drum, plain with rubber roller & grooved type for effective and increased area of filtration of ferrous contaminants from coolant. Ferrite and Rare Earth magnets are used in the drum. Capacity ranging from 50 to 1000LPM.



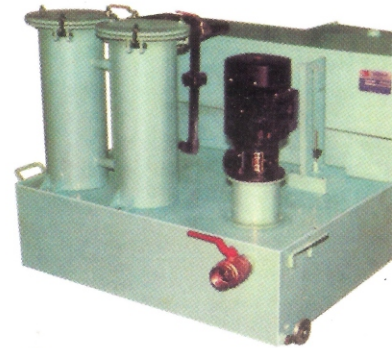
### PAPER BAND CUM MAGNETIC SEPARATOR:

Designed for Filtration of coolant from magnetic and non magnetic contaminants. The float mechanism senses the contaminant level and actuates the endless chain to bring fresh paper in position .



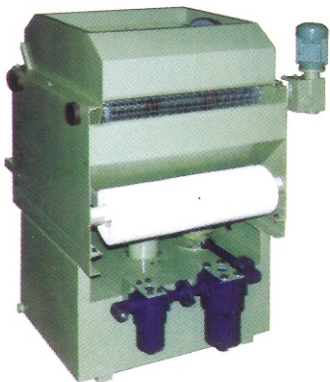
### HYDROCYCLONIC FILTER

Removes both ferrous and non ferrous contaminants. No consumable media and moving parts is required .Filtration by Vortex principle - due to centrifugal action, particles heavier than coolant are separated.



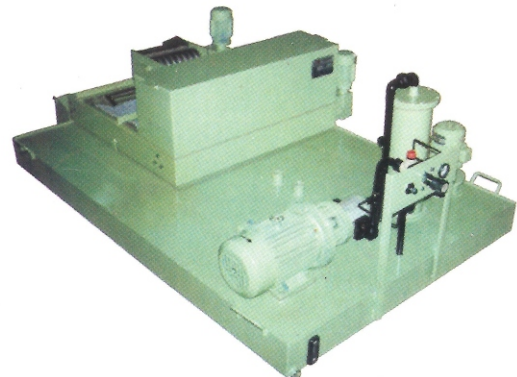
### BAG FILTER:

Very fine filtration up to 5 microns can be achieved. Pre filtered coolant pumped through a Bag/cartridge Element which is placed in a housing and high degree of filtration can be obtained.



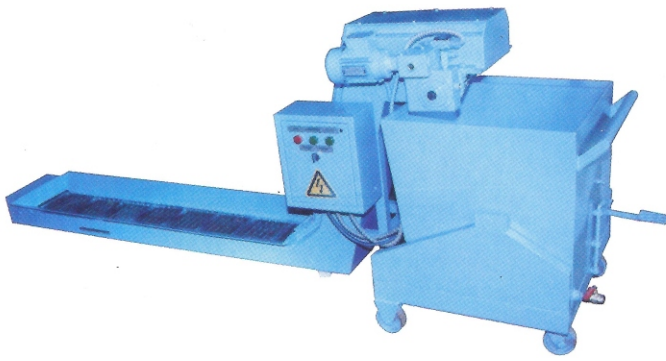
### COMPACT PAPER BAND FILTER:

Newly designed to minimize the Space occupation. Compared with ordinary Paper band filter, only 30% Of space is required. Higher capacities can be Replaced and installation can be done easily on the top of tank itself.



### HIGH PRESSURE COOLANT SYSTEM:

Combined system with magnetic separator, Paper band Filter, Bag Filter, Oil skimmer and High Pressure pump. Ideal for spindle through coolant applications and deep hole drilling/ reaming.



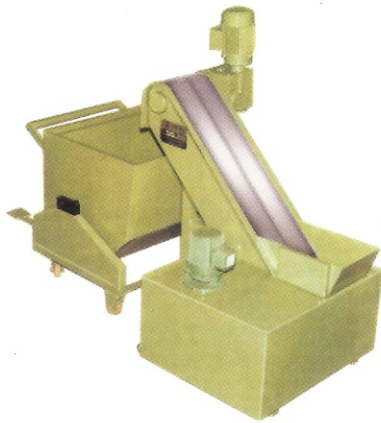
### HINGED BELT CONVEYOR

Designed to carry heavy chips which are in continuous & curling form. Chips fall from the machine on the hinged steel belt, conveyed directly to the discharge end. Available in various configuration, straight or inclined upto 75°



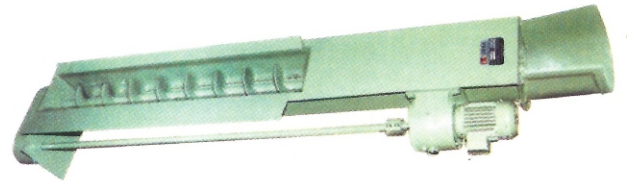
### WIPER CONVEYOR

Best utilized in applications on machining of cast iron, Bronze & brass. Chips of small bits / powder fall directly to the bottom of conveyor are wiped by scrappers attached to the chain conveyor.



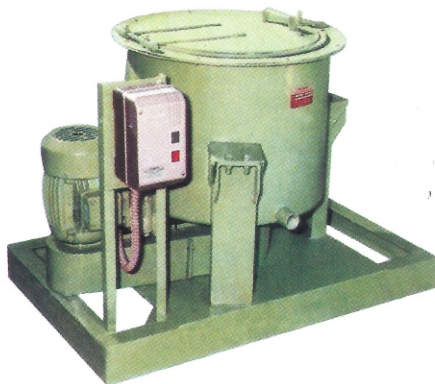
### MAGNETIC CONVEYOR

To convey ferrous chip in the form of small bits and powder from the coolant . Moving Permanent magnets mounted on endless chain Underneath the Stainless Steel sheet attracts and slide the chips to discharge end.



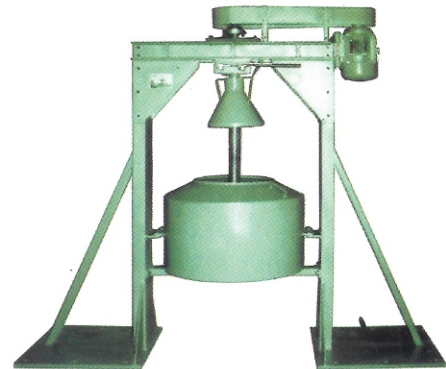
### SCREW CONVEYOR

Ideal for available limited space and used to convey powdered & small broken chips. Can be easily installed wherever other conveyor could not be placed. Available in various diameters to handle different volume of material.



### CHIP CENTRIFUGE /OIL EXTRACTOR

Designed to extract oil from cutting chips. Centrifuge buckets made up of perforated sheet with spline spindle is rotated at 750rpm. Due to centrifuge force on wet chips, oil is extracted completely and passed out through Perforation.



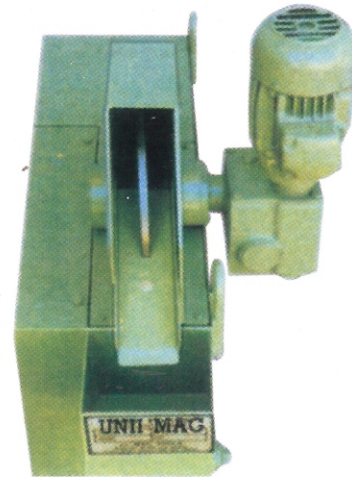
### CHIP CENTRIFUGE - BOTTOM OPENING

Most suitable for major capacities and can be used for group of machines. Loading & unloading of centrifuge bucket are eliminated. Bottom opening of bucket is closed by sliding cover during operation.



### OIL SIKMMER-BELT TYPE

Used to remove Lub/Gear/waste oil mixed with Emulsion coolant. Floating oil on the surface of the Coolant is recovered with half immersed Belt driven by a geared motor. Easily installed on the top of coolant tank.



### OIL SIKMMER - DISC TYPE

Similar to belt type, partly submerged Disc recovers tramp oil, skum, etc. Material of disc is decided on type of coolant . For chemical solvents and higher temperature fluids SS disc can be used.

Our Product Range Includes

**CENTRALISED COOLANT FILTRATION SYSTEM, CENTRALISED CONVEYOR SYSTEM, MOBILE FILTER UNIT  
COOLANT INLINE FILTER, JOB CONVEYORS**

## APPLICATIONS

Coolant Filters	Chip Conveyors
➤ All Grinding machines	➤ CNC Turning centres
➤ Honing machines	➤ CNC machining centres
➤ Thread Rolling	➤ Gear hobbing & shaving Machines
➤ All CNC Machines	➤ Multi spindle Automats
➤ Component Washing Machines	➤ SPMs
➤ SPMs	➤ Job conveyors.

Manufactured By



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