

Filter- und Pumpentechnik Hülswitt GmbH

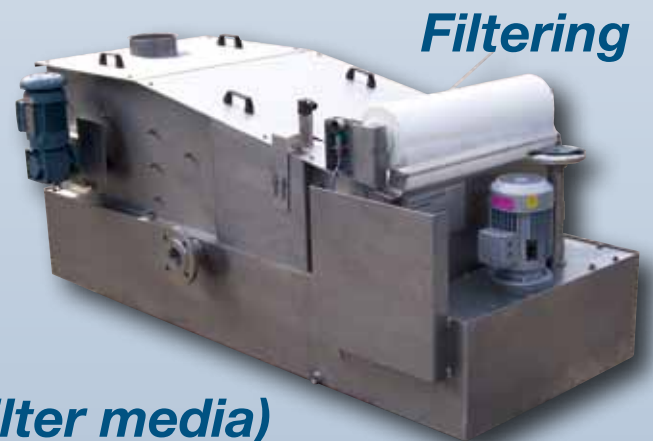


Conveying

Pumping back



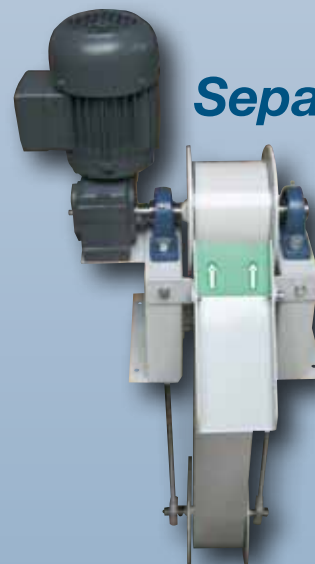
***Filtering
(without filter media)***



Filtering



Pumping



Separating

Consulting – Engineering – Supply – Service

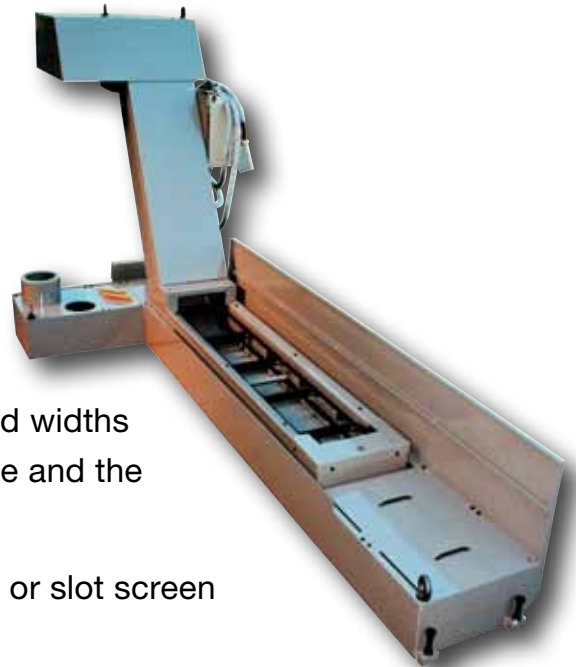
Slat band conveyors and drag link conveyors

are used for chip removal at individual machine tools or as part of an interlinked chip removal system.

The conveyors are customised according to the local conditions and the individual application:

- For use in dry processing or wet processing with emulsion or oil (e. g. with tank and lifting pump)
- Chain pitches of 38 mm, 63 mm or 100 mm and band widths from 150 mm up to 700 mm (dependent on the shape and the amount of chips)

Options: e. g. wearing plates in case of abrasive chips or slot screen boxes for improved pre-separation



Pump back stations

deliver dirty liquids from the machine tool or the chip conveyor to the respective filter system. The round shape with an inclined bottom and the use of free-flow immersion pumps or slurp immersion pumps able to pump small chips as well reduce the dirt deposits.

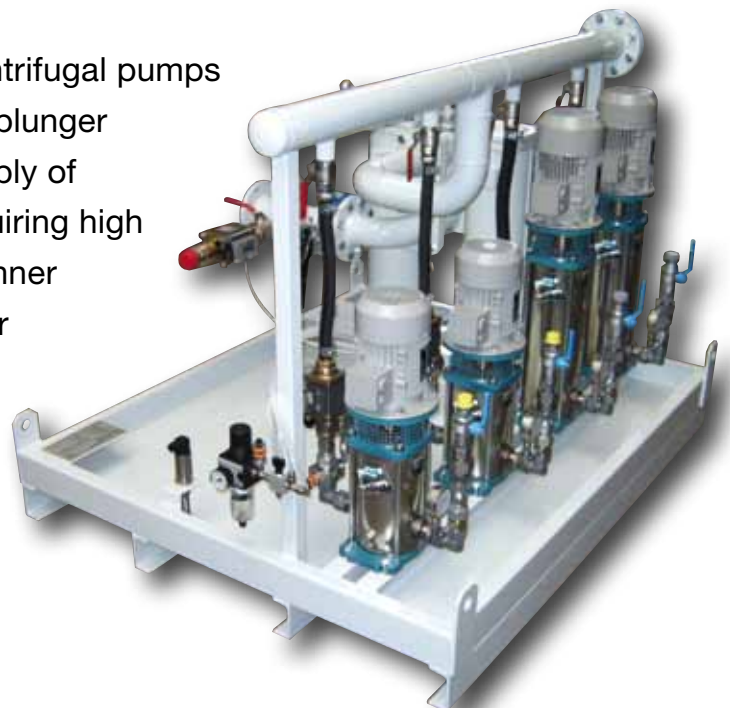
Options: e. g. chip crushers or spare pumps for increase of operational reliability



Pressure increase stations

with one or more pressure rising pumps (centrifugal pumps up to 40 bar, screw pumps up to 150 bar or plunger pumps up to 1.000 bar) can be used for supply of machine tools with inner coolant supply requiring high supply pressures, e. g. for the retrofit of an inner coolant supply at a single machine tool or for central filter systems without centralised high pressure supply.

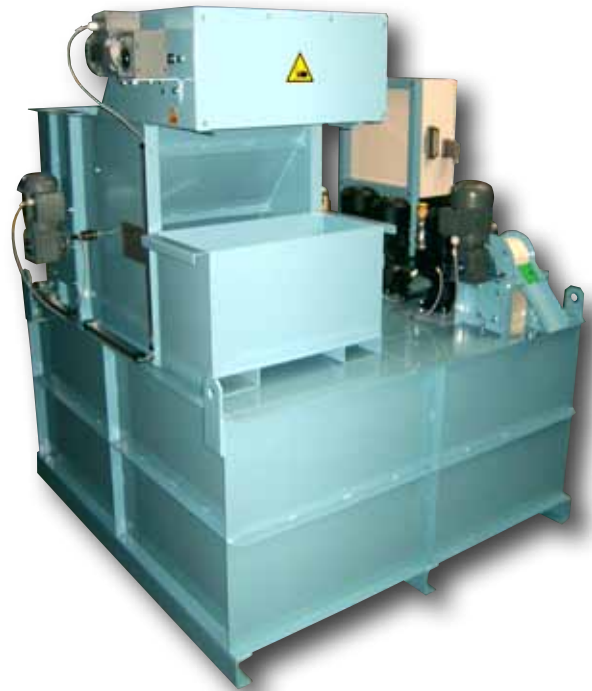
Options: e. g. buffer tanks or additional preliminary filters (e. g. pressure filters or bag filters)



The **drum filter** allows a continuous and fully automatic liquid cleaning of up to 1.000 l/min **without use of filter media**. The liquid is filtered by gravity with a filter drum with stainless steel fabric (**filter mesh > 40 µm**) which gets back-flushed without contact. The solids are discharged by a floor scraper.

Features

- Filter drum with non-corrosive stainless steel fabric (filter mesh > 40µm)
- No usage of filter media = no additional special waste
- Gravity filtration = simple and robust systems engineering and low control complexity
- Automatic discharge of the solids
- Automatic and contactless back-flush
- Low-maintenance and low-wear operation
- Compact design



Other **filter systems without filter media** for up to 10.000 l/min are carried out as gravity belt filters or vacuum belt filters with endless filter belts made of plastic fabric.

Filter systems with filter fleece

are the most flexible solutions for continuous liquid filtering of up to 20.000 l/min because they can be used for almost all liquids and all types of machining and can be readjusted to varying filtering requirements by subsequent change of the filter fleece. Dependent on the type of dirt and the flow rate of the liquid the filter systems can be carried out as

gravity belt filters with shallow or deep filter bed or as vacuum belt filters.

Versions made of stainless steel for e. g. water or suds are available.

Options: e. g. oil separators or magnetic separators for additional cleaning, cooling or heating units or fleece coilers.



Further products and accessories

- **Oil separators** (e. g. band skimmers)
- **Magnet separators**
- **Single- or duplex-filters**
- **Delivery pumps** for clean and dirty liquids (e. g. centrifugal pumps up to 40 bar, screw pumps up to 150 bar and plunger pumps up to 1.000 bar) in different configurations and materials

Supply materials for air and liquid filtration

- **Filter rolls** for all types of belt filters
- **Filter elements** and **filter cartridges** for almost all types of pressure filters
- **Filter bags** and **filter candles** for liquid filtration
- **Air-filtration mats** (pre-filtration and fine-filtration) as rolls or pre-cut parts
- **Pocket filters** and **frame filters** for air filtration
- **Endless filter belts** for all types of endless-belt filters

Service

- **Preventive maintenance**
- **Repair and maintenance works**
- **Spare and wear parts**

Beyond the systems and the equipment mentioned in the booklet at hand a lot of further products and alternatives are available. We would like to investigate a technically and commercially suitable solution for your individual requirements.

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