

# FILTERJET

Coolant filter  
for water jet cutting systems

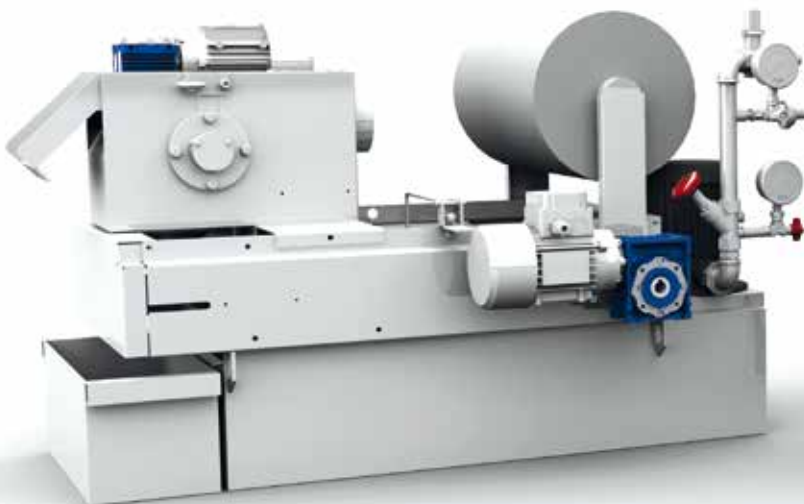


# FILTERJET

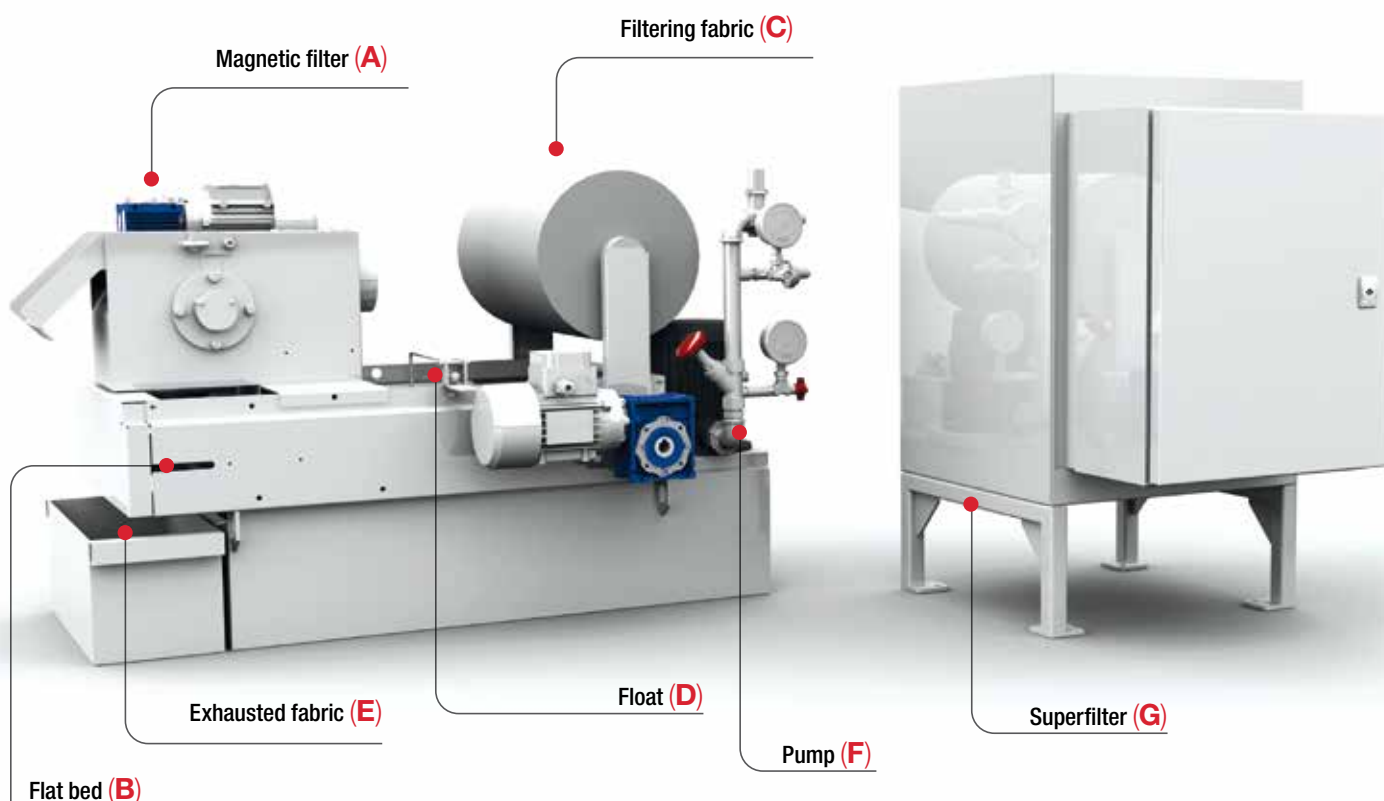
FILTERJET is a coolant filter specifically designed for the filtration of water used in water jet systems (water cutting) contaminated by abrasive and cut material. The coolant filter is manufactured in AISI 304 stainless steel. The filtration degree that can be obtained is determined by various factors, including the type of filters used, the material processed, etc. It is possible to reach a filtration degree up to  $3\mu$  with the complete series of filters.



LOSMA guarantees that every single unit is individually tested through strict control procedures. Each unit is issued a test certificate for quality and function.



# Working principles



**1** The dirty coolant falling by gravity from the water jet system is loaded on the DMD magnetic filter with self-cleaning drum, made of AISI 304 stainless steel (A) (if magnetic material is processed) or distributed by the trough on the flat bed filter (B) (if non-magnetic material is processed). The filtering fabric (C), duly chosen for its weight and degree of filtration, retains the pollutant particles and allows the liquid to flow into the collecting tank below.

**2** The fabric progressively accumulates pollutant particles, increasing the degree of filtration until it becomes clogged. At this point, the liquid is no longer able to pass through the filtering fabric, so it rises to level, lifting the float (D), which activates the microswitch and controls the advancement of the conveyor and the consequent replacement of the exhausted fabric with the new one.

**3** The exhausted fabric (E) is collected in a special tank located at the head of the coolant filter, while the pre-filtered liquid collected in the tank below is sent, by means of the special electric pump (F) controlled by two electromechanical levels, to the 3 $\mu$  superfiltration cartridge, which is also inserted in an AISI 304 stainless steel tank and from which the superfiltered liquid is discharged by gravity.

**4** 3 micron superfiltration cartridge. The superfiltration cartridge (G) is fed by a pump whose start and stop is controlled by two independent electromechanical levels. The hydraulic connection unit, equipped with a pressure switch, gives indication of cartridge clogging/replacement.

# Plus



## **ONLY AVAILABLE IN STAINLESS STEEL VERSION**

Filterjet is produced in stainless steel, particularly suitable for the filtering water, corrosive or aggressive liquids.



## **COST EFFICIENCY**

The fabric filtration guarantees a very high degree of purification. Different types of filtering fabrics are available.



## **SUPERFILTRATION**

Superfiltration of cutting liquids used in water cutting. Replacement superfiltration cartridges are available.

# Optional

## Stainless steel DMD (Optional)

- Features:
- AISI 304 stainless steel sheet frame
  - 3" sleeve for loading liquid to be filtered
  - Shaft with multiple rotating magnetic disc
  - Type NMRV 30/40 worm gear motor ratio  $i=1/600$  motor Kw.0.12 V.230/400 Hz.50
  - AISI 304 stainless steel chute for adjustable in inclination sludge discharge
  - AISI 304 stainless steel sludge scraper blade



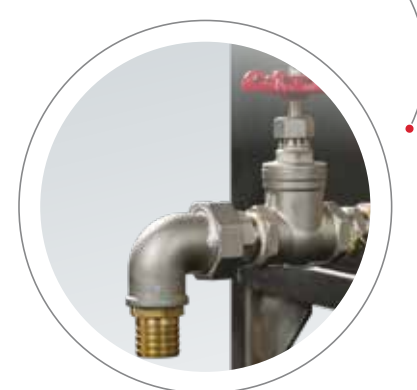
## Stainless steel DTE

- Features:
- AISI 304 stainless steel sheet frame
  - Drive shaft with AISI 304 stainless steel pinions and pulleys
  - Lay shaft with AISI 304 stainless steel pinions and slat base supporting pulleys
  - Conveyor for fabric support and transfer with special chain in Hostaform
  - Type NMRV 40 worm gear motor ratio  $i=1/100$  motor Kw.0.12 V.230/400 Hz.50 for conveyor movement
  - Float unit for filtering fabric feeding
  - AISI 304 stainless steel coolant liquid diffuser for coolant distribution
  - Filter fabric roll
  - AISI 304 stainless steel electrowelded sheet metal purified liquid collecting tank
  - 60 L capacity complete with sludge collecting tank
  - Dimensions 424x825xh.200
  - 3 micron superfiltration



## 3 micron superfiltration

The 3 $\mu$  superfiltration cartridge inserted in a special AISI 304 stainless steel sheet tank complete with gravity outlet. It can be connected to an additional transfer station (for very distant drains), or directly to the disposal manifold.



## Pump

For pre-filtered liquid delivery to the superfilter cartridge.

## Electrical equipment

The system can be supplied with:

- Electrical panel for complete system management
- Terminal box with all components wired (it must then be completed with electrical panel or interfaced to the machine tool)

## Stainless steel transfer tank (optional)

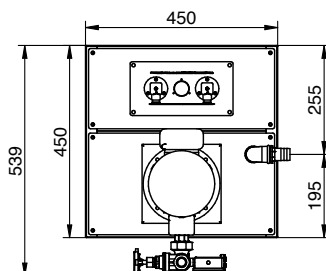
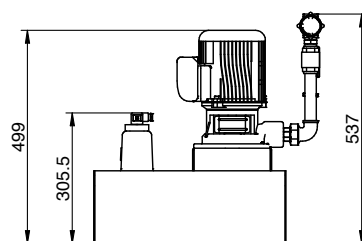
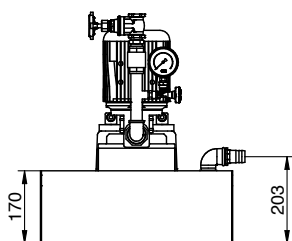
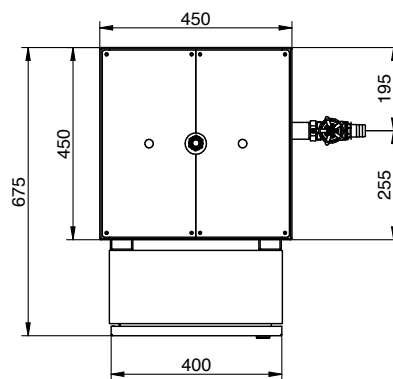
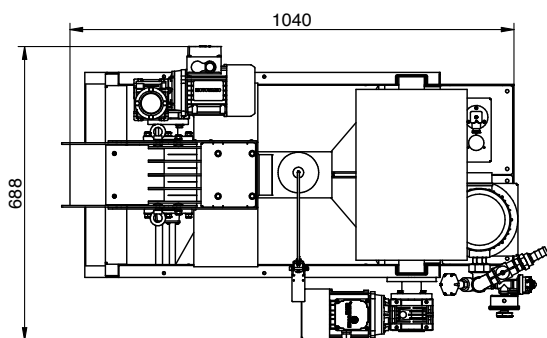
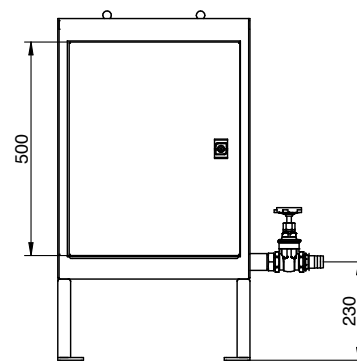
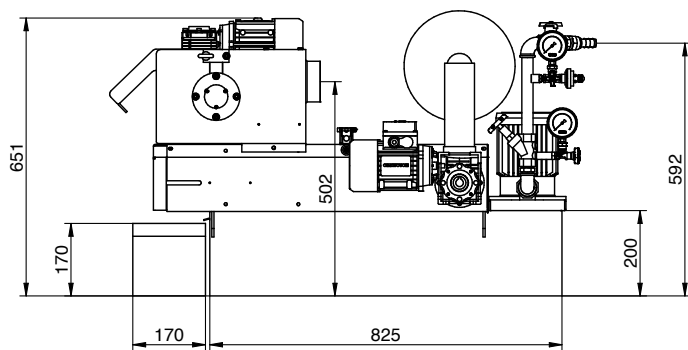
Allows the superfiltered liquid to be collected at 3 $\mu$  and then transferred for disposal, by means of an electro-level pump, even at long distances.



# Applications



# Dimensions





Health



Savings



Efficiency



Environment



Safety



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