

micronfilter
EvotechPro

High performance filtration
for high flow rates

The compact and efficient
filter system

Made in Italy



μ

filtering solutions

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Here at Micronfilter we are profoundly convinced that creating something new is a huge responsibility. This is the reason why each of our products is designed, manufactured, tested and sold in the most absolute respect of the most advanced local and international rules and laws, with particular attention to the health of our workers, to the protection of the environment, to sustainable production policies based on rights, on information and transparency of all our actions.

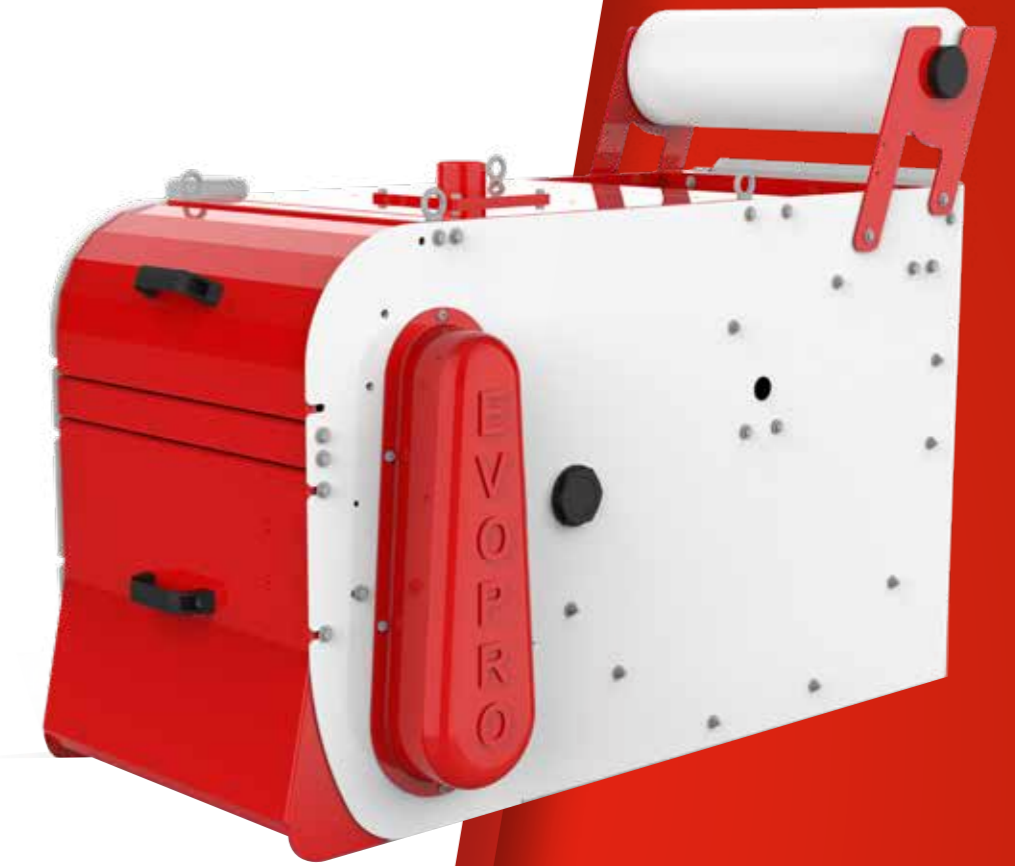
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Every Micronfilter product is proudly Made in Italy with all our passion, creativity and precision.

EvotechPro
compact solution



focus

Filtrazione dai 10 ai 60 micron

Portata da 200 a 600 l/min.

Alti volumi di filtrazione e minimo ingombro

features

Filtration from 10 to 60 microns

Flow rate from 200 to 600 l/min (53-158 gpm)

High flow rates with a small foot print

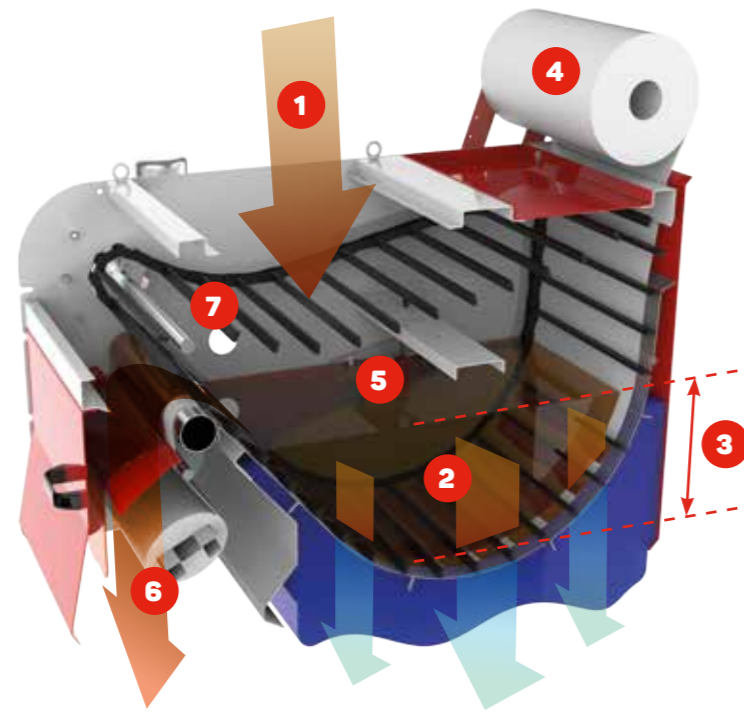


Working principles

The (1) dirty coolant flows into the filter. As the fluid flows into the filter, a (2) water column is created with a (3) very high hydrostatic head. A combined effect is thus achieved between the filter fabric (4) and a solid created layer, which further increases the filtration efficiency.

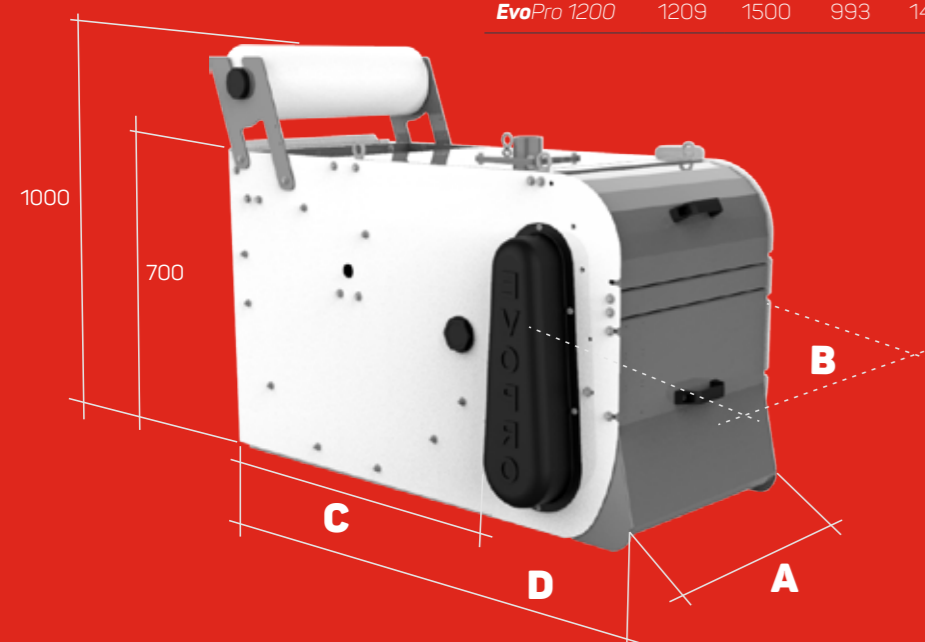
When the progressive accumulation of solids clogs the filter media and the liquid can no longer flow through the filter media, the liquid level rises together with the float (5) which activates a proximity switch. The proximity switch activates the gearmotor and the filter media is advanced forwarding (6). A rewinding system rolls up the dirty filter fabric for easy disposal.

As the fabric moves forward, the dredging scrapers also advance (7) helping to evacuate suspended particles that have not deposited on the fabric in the purifier. The dirty fabric is separated from the sludge and rewound on the reel, thus facilitating the separation of solid waste and reducing disposal costs.



Main dimensions

Model	A (mm)	B (mm)	C (mm)	D (mm)	Gear-Motor Power (kW)	Weight (Kg)	Emulsion Flow Rate (l/min.)	Neat Oil Flow Rate (l/min.)
EvoPro 500	509	800	828	1235	0,12 Kw	130	200	100
EvoPro 700	709	1000	828	1235	0,12 Kw	155	325	170
EvoPro 1000	1009	1300	993	1400	0,12 Kw	200	450	225
EvoPro 1200	1209	1500	993	1400	0,12 Kw	220	600	300



Accessories

ELECTRICAL CONTROL PANEL standard or completely customized according to the machine tool needs.

ELECTRO-PUMP to supply clean coolant to the machine tool at required flow rate and pressure.



CHILLER to keep temperature control on metalworking coolant.



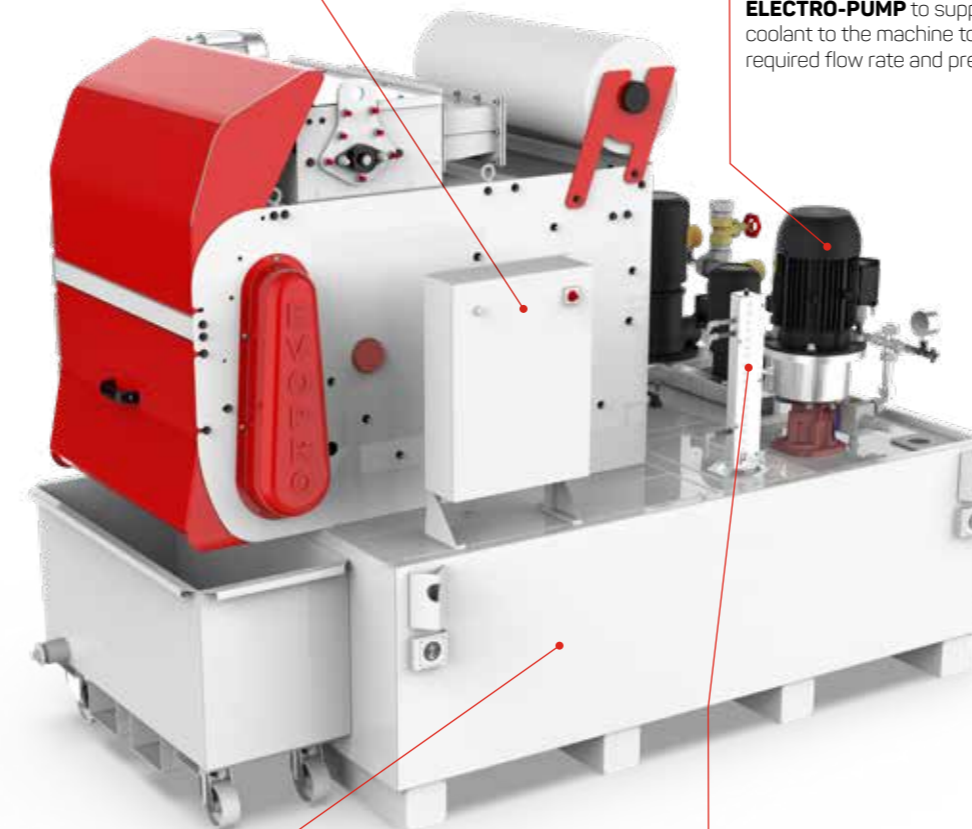
KALAMIT magnetic separator for ferrous/magnetic particles from water-based emulsions and neat oils.



OIL SKIMMER for separation of tramp oil from water-based emulsion coolants.



SUPER FILTRATION with cartridges.



MULTILEVEL SENSOR to monitor the coolant level in tank - min, max, max alarm levels available.

CONTAINMENT TANK standard or custom design.

Best application solutions



The Evotech PRO series is highly flexible and can be used in many different applications. The Evotech PRO can be customized and supplied with dirty coolant transfer stations, optional filter medias, post filtration systems for filtration efficiencies down to 3 µ, high pressure pumps, inverters and proportional valve management and customized control systems using PLC technology.



As more and more customers look to maximize floor space in their plants in order to make them more efficient, the Evotech PRO is a great solution. Our innovative design allows for high coolant flow rates in a small footprint design.

The Evotech PRO is ideal for solids with a lower specific gravity that generally float, such as plastics and aluminium. Standard paper indexing filters are not an effective choice for this type of solid. The Evotech PRO, with its dredging blades drag out and evacuate even the lightest materials.



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About the Micronfilter EVOTECH PRO

The "Evotech PRO" series is the most effective solution for the filtration of both light and floating solids. Due to the unique design which utilizes a fabric dragging system inside the filter combined with the suspended particle transport system. Compared to other filter beds with the same filtering surface area, the Evotech PRO series doubles the volume of liquid processed. Depending on the type of filter media utilized, the Evotech PRO can achieve filtration levels between 10 to 60 microns and is designed for flow rates between 200 to 600 l/min (53 - 158 gpm).