

IFDR SOLUTIONS: innovative engineering

IFDR fine filtration systems are born to take care of the complete management of the coolant, whose role is essential both for the success of the mechanical processing and for the right maintenance of the machine tool. They are suitable for any type of machine tool on the market that uses emulsion as a coolant, and tailored according to each customer's needs, with the possibility of being fitted with a wide range of available delivery pumps, with different pressures and flow rates.

IFDR systems are identified by the numerical initials of the considered model, which represent the overall system volume and the Filstar unit.

The IFDR fine filtration systems meet four basic needs of the machine tool:

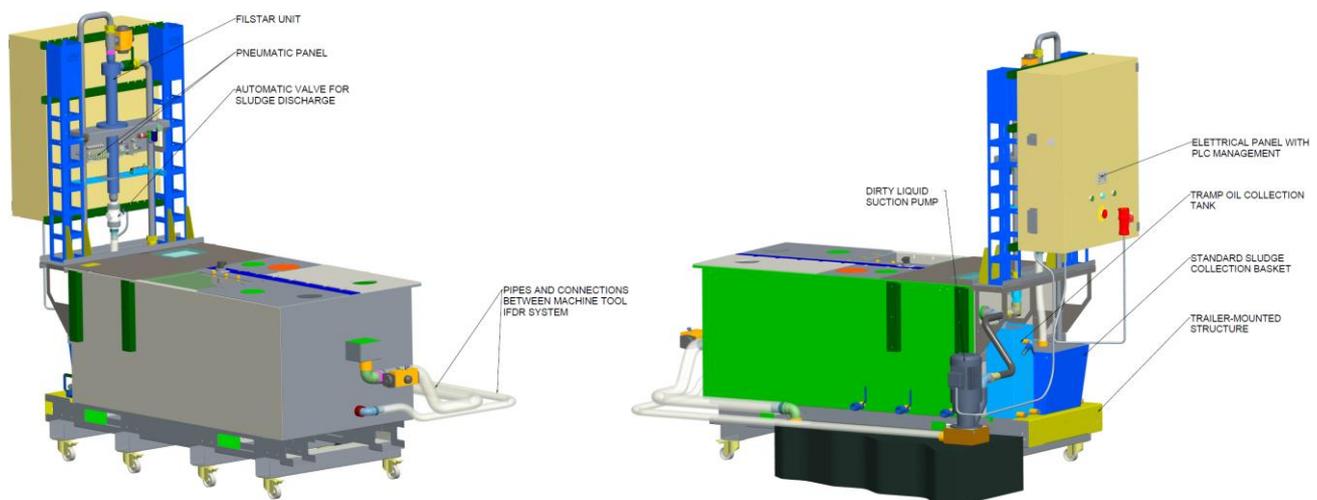
- To clean the coolant from highly abrasive micrometric metal rests that are formed during processing.
- To remove all oily substances that stop on the surface of the coolant.
- To reduce the bacterial contamination of the emulsion, extending its life.
- To relaunch the perfectly clean liquid in the working area to the maximum pressure required by the tool used.

The advantages of IFDR fine filtration systems are:

- Patented filtration system below 10 μm .
- Integrated dynamic tramp oil separation system.
- High-pressure coolant towards the spindle.
- Reduction of the total volume of coolant used.
- Reduction of maintenance costs due to the lack of filtering elements.
- Increasing of tool life due to the reduction of the polluting granulometry present in the coolant and to pressure and flow rate conditions required by the manufacturer.

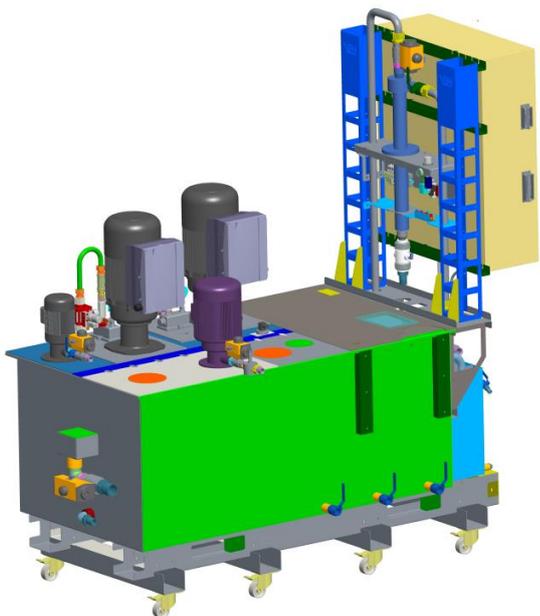
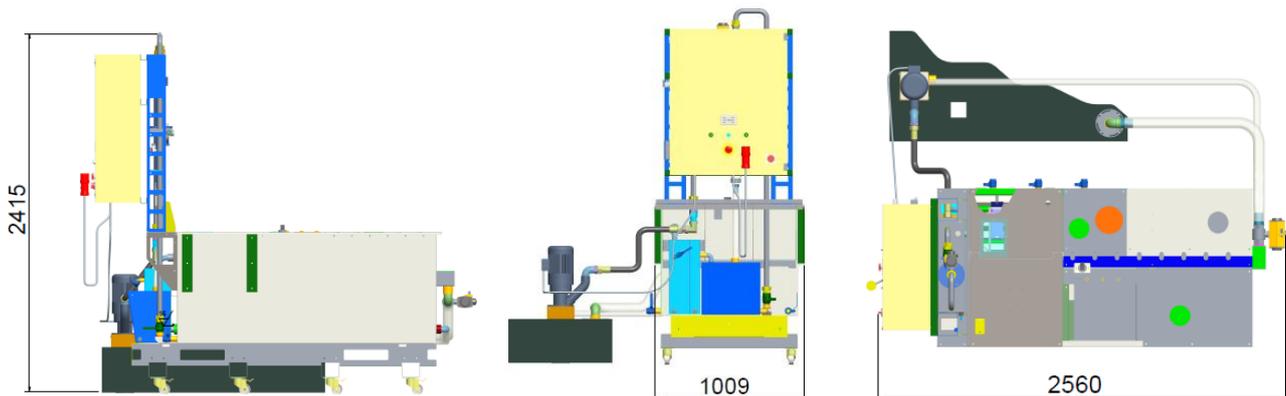
Approval to the Machinery Directive and CE certification as a machine.

FINE FILTRATION SYSTEM IFDR 800/32



TECHNICAL FEATURES

Overall system volume	800 L
Processing flow rate	120 L/min
Coolant type	Both synthetic and mineral coolant
Filstar unit	KM32
Nominal factory space requirements (LxWxH)	1009 x 2560 x 2415 mm
Nominal empty weight	500 kg
Automatic sludge recovery	In a special tank
Dynamic separation of the oil	Automatic integrated
Dirty liquid suction pump	Standard
Electrical control panel with machine tool interface	Standard
Working cycle	Continuous 24/7
Guaranteed filtration degree	Below 10 μ m
Chiller for temperature control	Optional
Automatic coolant top up	Integrated



The image shows a complete IFDR 800/32 fine filtration system fitted with DUPLEX system, which guarantees a flow rate from 8 to 85 L/min in the first version and from 18 to 120 L/min in the second one. The flow rate regulation is carried out in a completely automatic way according to the tool used for each pressure step available. In this model these values are available: 20, 30, 40, 50, 60, 70 bar. Moreover, a delivery pump 20 bar 35 L/min and a pump for machine tool wash gun have been assembled for the external cooling of the spindle.

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