FC200 CENTRIFUGE

CENTRIFUGES

METAL SWARF

DESCRIPTION

The **FC200** centrifuge is a unit suitable for centrifuging metal, ferrous and non-ferrous swarf, in order to recover the cooling lubricant used by the machine tool in the production process.
The **FC200** centrifuge is designed for continuous feeding and for the treatment of metal chips, not exceeding 2 cm in length.
Under optimal conditions, the **FC200** centrifuge allows to obtain swarf with a wet content that can reach up to 1.5%.
The actual efficiency of the centrifuge, as well as the actual hourly flow rate, depends on the characteristics of the swarf, in particular the material, the shape, the weight per unit of volume, as well as the starting humidity and can be confirmed by testing your swarf at our premises. If there are pieces in the swarf, such as bar headers, semi-finished products or bar ends, the **FC200** centrifuge should be equipped with a vibrating screen.

CHARACTERISTICS

- The swarf must be short or not larger in size than 2 x 1 or 2 cm
- The swarf must not contain pieces (end of bar, bar headers, processed parts, ...). Pieces in the order of cm are tolerated
- The centrifuge must be loaded continuously and uniformly to ensure maximum performance
- A minimum washing flow rate must always be guaranteed to avoid deposits and clogging

OPTIONAL

- Customised support structure made of sturdy painted metalwork with discharge hopper to be anchored to the floor
- Painting in RAL different from the standard
- Cutting fluid collection tank with level sensors and transfer pump (Hmax = 1 bar, Qmax = 240 l/min)
- Electrical control panel

SUPPLY

- Structure made of sturdy metalwork painted RAL 7016, anchored to a thick and rigid platform
- All parts in contact with the swarf are made of special wear-resistant materials
- Anti-vibration dampers to reduce vibrations
- Drain of recovered cooling lubricants
- Washing inlet valve
- Centrifuge washing pump
- Drain pipe of recovered cooling lubricant of standard length of 2 m
- Unbalancing sensor
- Junction box and wiring

COOLANT RECOVERY

SMALL SIZE

HIGH PERFORMANCE

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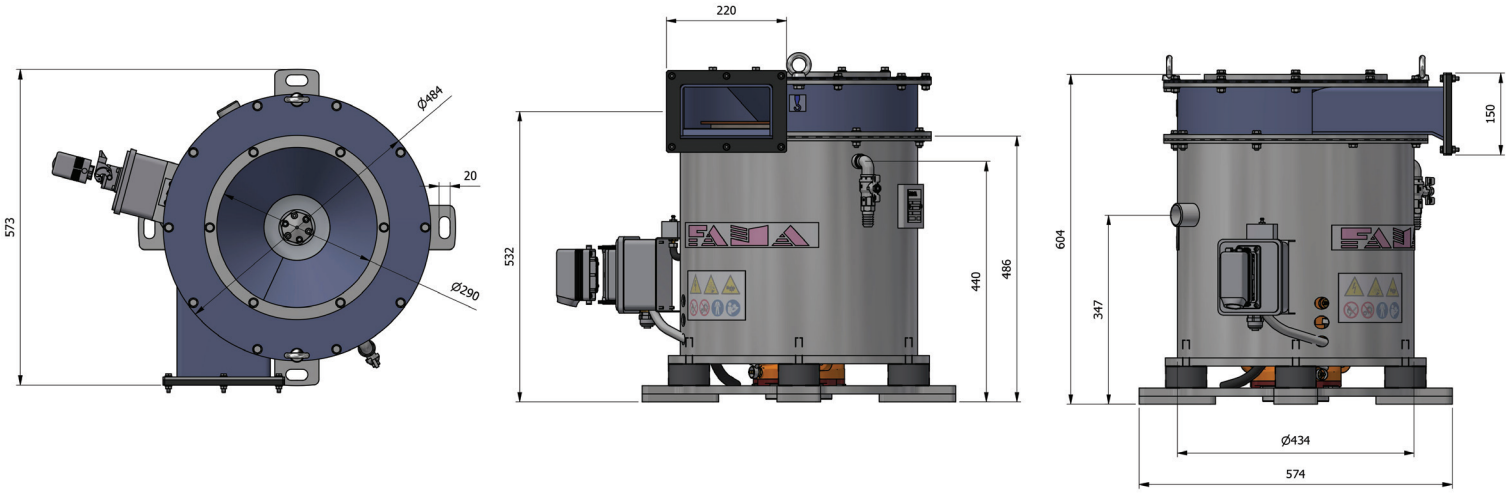
APPLICATION ANALYSIS EXAMPLE

A wet residue of 2% was obtained on a 200 kg sample of brass with a 15% wet content. 26 kg of oil were recovered in 1 hour. Assuming working 8 hours a day, for 220 days of the year, the following amount will be recovered: 45,760 kg of oil per year.



NOTE: Residual swarf moisture after centrifugation can be confirmed by testing your swarf sample.

TECHNICAL DATA

DIMENSIONS	570 X 600 mm
WEIGHT	150 kg
POWER	1,4 kW
VOLTAGE	230/400 V
POWER SUPPLY	Continuous
RPM	2.950 rpm

HOURLY PRODUCTION

Q = 150 l/h	BRASS	STEEL	ALUMINIUM	STAINLESS STEEL	COPPER	CAST IRON
Δ density [kg/l]	1,2	1,1	0,4	1,1	1,5	1,4
kg/h	180	165	60	165	225	210

The data in kg/h are approximate and in any case depend on the density of the swarf, the shape, the oil content and the type of coolant. The density data considered are hypothetical, based on an experimental average of the data in our possession.

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