



CENTRIFUGES



FC400



DESCRIPTION

The **FC400** 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 FC400 centrifuge is designed for continuous loading and for the treatment of short swarf, not exceeding 2 cm in length.

Under optimal conditions, the FC400 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 FC400 centrifuge should be equipped with a sieve.

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

SUPPLY

- The structure is 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;
- Discharge channel;
- Vibration dampers to reduce vibrations;
- Discharge of the recovered coolant;
- Washing inlet tap;
- Centrifuge washing pump;
- Recovered coolant drain pipe with a standard length of 1 m;
- Electrical junction box and wiring.

OPTIONAL

- Customised support structure made of sturdy metalwork to be anchored to the floor;
- Painting in RAL different from the standard;
- Coolant collection tank with level sensors and 0.3 bar transfer pump;
- Electrical control panel.

HOURLY PRODUCTION

Q = 200 l/h	BRASS	STEEL	ALUMINIUM	STAINLESS STEEL	COPPER	CAST IRON
D density [kg/l]	1.30	1.20	0.40	1.00	0.80	1.30
Kg/h	1000	960	320	800	650	1000

THE DATA IN kg/h IS APPROXIMATE AND IN ANY CASE DEPENDS 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.

FAMA SRL

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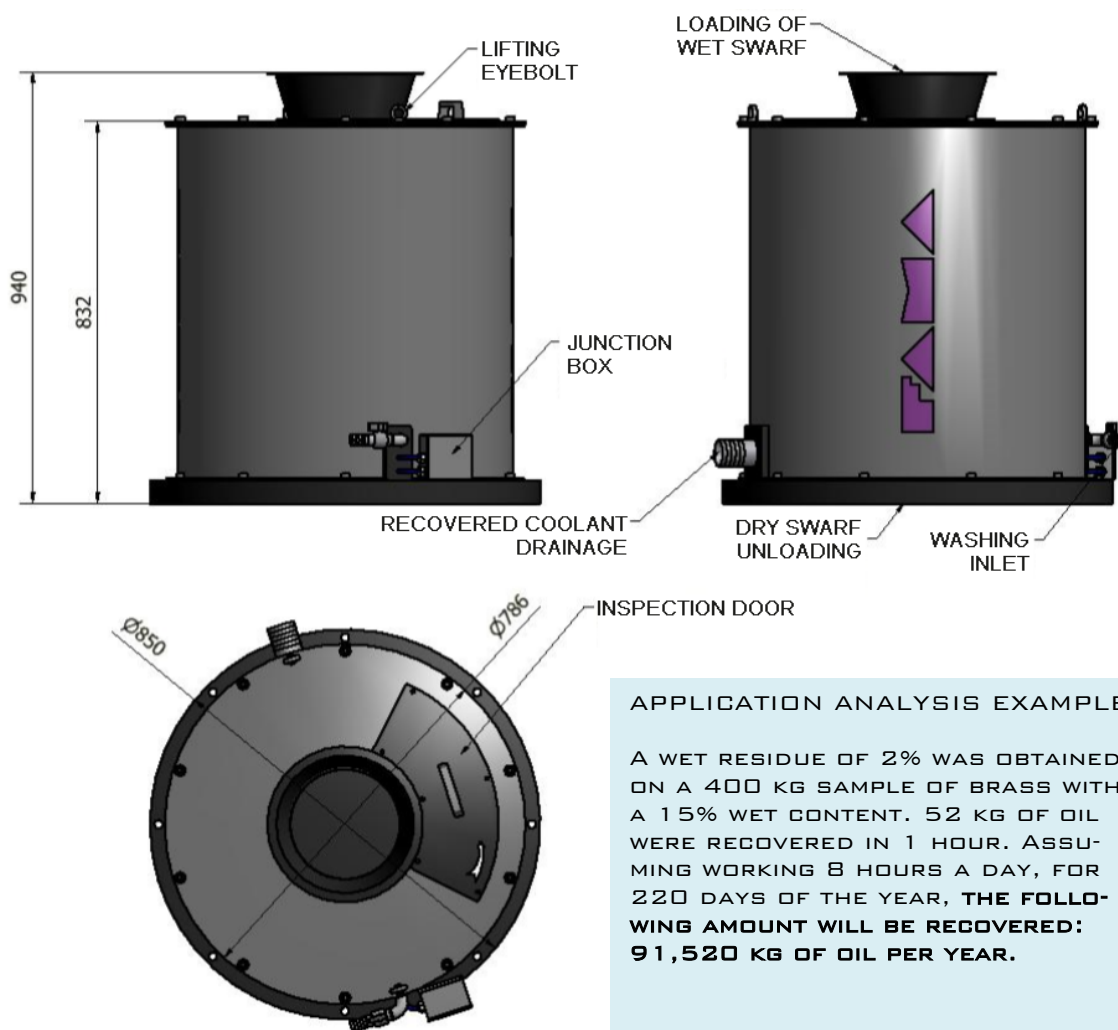
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SWARF CHARACTERISTICS & TECHNICAL NOTES

- 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.

DIMENSIONS	Ø1121 X 1188
WEIGHT	540 kg
POWER	4 kW
VOLTAGE	230/400 V
POWER SUPPLY	continuous
RPM	1,480 rpm



APPLICATION ANALYSIS EXAMPLE

A WET RESIDUE OF 2% WAS OBTAINED ON A 400 KG SAMPLE OF BRASS WITH A 15% WET CONTENT. 52 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: 91,520 KG OF OIL PER YEAR.

FAMA RESERVES THE RIGHT TO MAKE CHANGES TO THE PRODUCT WITHOUT

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