

CENTRIFUGES



DESCRIPTION

The **FCM** de-oiling centrifuge with extractable basket is the ideal machine for de-oiling swarf or any small parts deriving from the processing of machine tools.

It consists of a painted carbon steel structure, housing a removable perforated basket designed to contain metal swarf or small parts impregnated with cutting fluid.

The centrifugal force generated by a rotor/motor separates the cutting fluid from the swarf, then the cutting fluid courses through the holes of the basket and is discharged outside the centrifuge through a drain spout.

CHARACTERISTICS

The FCM centrifuge can be loaded and unloaded in two different ways:

- **Manual mode:** the drums containing swarf and small parts are inserted and extracted from the centrifuge with the help of a crane equipped with an electric hoist. The operator, through bimanual buttons located on the electrical panel, opens and closes the lid equipped with pneumatic actuation
- **Automatic mode:** the drums filled with swarf and small parts are inserted and extracted from the centrifuge with the aid of a drum transfer/manipulator. This fully automated system is conceived and designed according to specific customer's requirements

SUPPLY

- Centrifuge structure in carbon steel plates and very thick sheet metal Fe 360, electro-welded and reinforced at the points of greatest stress. The entire construction is machined on a milling bench to make the seats to house the mechanical components
- Floor fixing jig with three suspensions positioned at equilateral triangle, to absorb and dissipate centrifuge vibrations during operation, so as not to discharge them onto the mechanical parts and therefore to damage them
- Centrifugation chamber consisting of an electro-welded, cylindrical drum at the base of the centrifuge, fitted with servopneumatic opening and closing lid, actuated by cylinder and solenoid valves
- Lid supplied with mechanical safety lock, actuated by pneumatic cylinder and solenoid valves 7.5 kW
- external motor controlled by Inverter
- Swarf containment basket built in perforated carbon steel sheet metal, diameter 80 mm, height 500 mm and holes diameter 2/3 mm, with fully closed bottom, useful capacity 250 litres, maximum capacity 200 kg
- Basket rotating rotor unit built and machined by CNC in tempered steel, consisting of a central shaft, special mechanical high resistance bearings provided with lubrication conveyors and sheave coupled to the rotation shaft.
- Asynchronous electric motor 400 Volt 50 Hz, with
- V-belt transmission of rotation to the rotor unit

OPTIONAL

- Fe360 carbon steel replacement basket
- Basket holder trolley with wheels in oil resistant material
- 150 L oil recovery tank, complete with centrifugal pump controlled by a level float switch
- Heating kit with 3000 W electric resistance
- Jib crane to lift the basket, underarm height from the ground 2500 mm, outreach 1800 mm, 250 kg electric hoist with manual push



MORE MATERIALS



SHORT AND LONG SWARF



HIGH EFFICIENCY

FAMA RESERVES THE RIGHT TO MAKE CHANGES TO THE PRODUCT WITHOUT NOTICE

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ELECTRICAL PANEL FEATURES

- Electrical cabin detached from the machine, stand or wall mounted, of adequate size
- Latest generation components
- Low voltage auxiliary and emergency power supply
- Inverter for deceleration and slow acceleration of the motor
- Manual potentiometer to adjust the spin speed from 0-720 rpm
- Centrifuge working cycle timer
- Two-hand lid opening and closing buttons with operator presence



TECHNICAL DATA	FCM65	FCM80
BASKET DIMENSIONS	Ø650mm H=500 mm	Ø800mm H=550 mm
MAXIMUM CAPACITY	130 kg	200 kg
INSTALLED POWER	5 kW	7,5 kW
LID OPENING	Automatic	Automatic
FEED	Discontinuous	Discontinuous
BASKET SPEED	720 rpm	720 rpm

The optimal de-oiling time varies according to the user's requirements. The recommended minimum time to achieve effective de-oiling of swarf or small parts is approximately 7 minutes.

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