



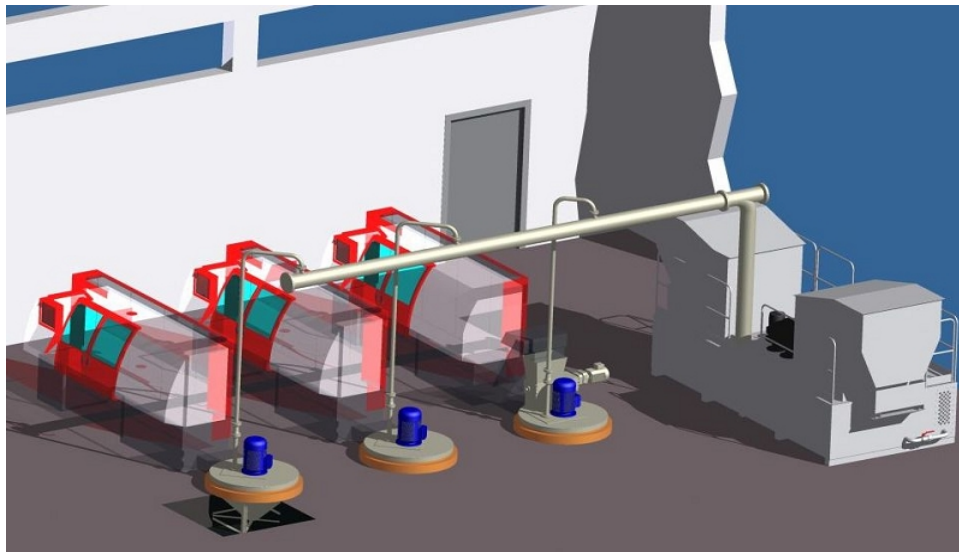
Costumized solutions for the treatment of waste from processing

## Systems HYDRAULIC

### METAL SWARF HYDRAULIC CONVEYOR SYSTEMS



*FAMA hydraulic systems are systems designed to collect and transport swarf and coolant directly from the machine tool continuously, automatically and without the need for the constant presence of an operator.*



- It allows the evacuation of the chips without the intervention of the operator to the treatment or storage site
- It transports both dry and wet lubricant chips
- It allows the transport of chips immersed in large quantities of cooling lubricant
- It Improves security in the factory
- It allows for unattended work

FAMA hydraulic systems are systems designed to collect and centralize swarf and coolant.

The goal is to **collect and transport chips and coolant** directly from the machine tool continuously, automatically and without the need for the constant presence of an operator. It is a versatile and non-invasive system, easily extensible and modifiable over time.

Among the main advantages of hydraulic systems, it is worth mentioning the elimination of all problems related to the movement of oil and swarf.

The hydraulic transport system must then be completed with a lubricant filtration and replenishment system.

The construction of civil works may be necessary.



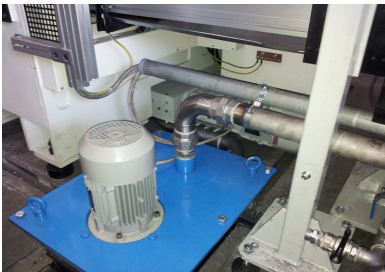
## HOURLY PRODUCTION

Q = 0,8 MC/H	BRASS	STEEL	ALUMINIUM	STAINLESS STEEL	COPPER	CAST IRON
density [kg/dmc]	1,5	1,3	0,8	1,1	1,00	1,4
Kg/h	1200	1050	640	900	800	1150

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.

## AVAILABLE OPTIONALS

- Double swarf handling line in case of multi material
- Anti-wear kit for centrifugal pumps
- Oil filtration system
- Oil superfiltration system
- Oil refrigeration system
- Synoptic remote control
- Remote assistance



## FURTHER TECHNICAL CHARACTERISTICS

1. Each machine, to be connected to the system, will be equipped with an oil collection tank, provided with a shredder in case the swarf is long and skein-type.
2. Each tank is equipped with a special pump that pushes swarf and oil into the manifold via the pressure lines, each equipped with a manual emergency valve.
3. The manifold directs the oil and swarf to the main collection tank. Here, by decantation, the swarf settles on the bottom and is removed by a dredger.
4. The swarf then undergoes its treatment and storage process.
5. The oil/emulsion can be filtered, super filtered, refrigerated before being pumped in low or high pressure to the machines.

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