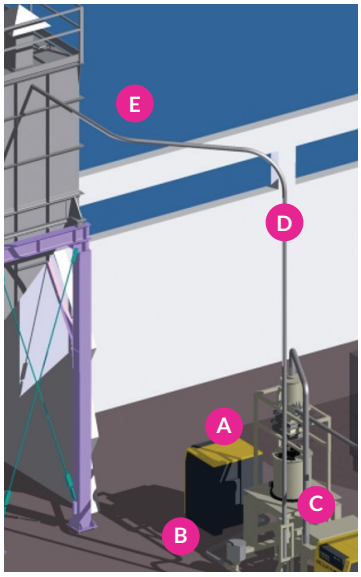
PNEUMATIC DELIVERY SYSTEMS

SYSTEMS



DESCRIPTION

The FAMA **pneumatic delivery systems** are designed to move the short and dry metal chips from one point of the company to another.

The **pneumatic delivery system** is commonly used in FAMA s.r.l. plants to load the silos, if they are particularly far from the treatment area, replacing the bulky load conveyors with simple 3" or 4" pipes.

The system is powered by a displacement pump, which provides enough energy to generate a fast flow of air, which transports the swarf. A dosing device continuously feeds the system to optimise transportation. With the FAMA **pneumatic delivery system**, one or more silos can be loaded in a fully automatic way.

FAMA **pneumatic delivery systems** feature the maximum versatility and extensibility and are suitable for any type of swarf, as long as they are short and dry.

Implementing a pneumatic delivery system does not entail making civil works.

CHARACTERISTICS

- Allows the chip to be evacuated to the treatment or storage site
- Transports the chip continuously, automatically and without the constant presence of an operator to control it
- Allows unattended work

SUPPLY

- Displacement pump
- Screw dosing device
- Venturi Ejector
- Sound-proof cabin
- Anti-clogging sensor
- Delivery main piping line in AISI304 stainless steel, complete with bends and couplings
- Main electric panel, wiring and compressed air line

OPTIONAL

- Multiple delivery lines in case of multi-material
- Anti-wear kit for venturi ejector
- Bends with anti-wear extrados

CONTINUOUS WORK

UNATTENDED WORK

LONG DISTANCE

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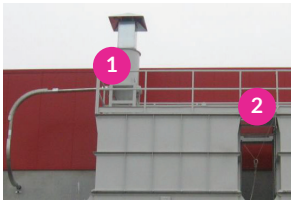
OPERATION

The system is operated by a pressure pump [**A**], which provides enough energy to push the swarf.
This is transferred from the treatment to the storage area.
A dosing device [**B**] acts as a lung to regulate swarf flow to the system and to balance the hourly production.
A special device [**C**] converts the pressure energy into kinetic energy.
The swarf coures along the line [**D**] to the storage site [**E**] (silo, detachable container, etc...).

In the case of a single silo, the inlet is direct. In the case of double or triple silos, the wood chip inflow is managed by a cyclone separator, which feeds a paddle conveyor used to redistribute the chips into the various silos

EXAMPLE: In the case of double or triple silos, the wood chip inflow is managed by a cyclone separator [**1**], which feeds a paddle conveyor [**2**] for the redistribution of chips into the various silos.



TECHNICAL DATA

COVERED DISTANCE	Up to 100 m
QUANTITY PER LINE	300-1500 kg/hour
POWER	11 ÷ 22 kW
VOLTAGE	230/400 V
LOADING	Continuous
CIVIL WORKS	None
VERSATILITY	Maximum
TYPE OF SWARF	Any

The described data are to be considered as limit values. Every case must be studied, analysed, sized and designed.

HOURLY PRODUCTION

Q = 1 m3/h	BRASS	STEEL	ALUMINIUM	STAINLESS STEEL	COPPER	CAST IRON
Δ density [kg/dm3]	1,2	1,1	0,4	1,1	1,5	1,4
kg/h	From 300 kg/h to 1500 kg/h depending on the situation					

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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