



SILO



TYPE	HORIZONTAL
DIMENSIONS	10 ÷ 30 m³
POWER	7-30 kW
VOLTAGE	230/400 V
LOADING	continuous
UNLOADING POSITION	lateral

DESCRIPTION

FAMA silos are storage tanks for swarf accumulation. They are designed and sized to contain an adequate quantity of material in order to optimise swarf disposal operations. The horizontal silos are designed for interiors, in order to safeguard the content (brass, copper, stainless steel, ... materials of a certain value), and to optimise spaces. The area under the silo can in fact be used as a warehouse or to position other machines (washing machines, piece counters, ...). The trapezoidal section tank is emptied by a screw positioned at the bottom of the tank.

HORIZONTAL SILO

THE SILO HEIGHT DEPENDS ON THE VOLUME AND TYPE OF SWARF.

SUPPLY

- Silo;
- Support structure;
- Plates and backplates with anchor rods;
- Vertical ladder with protective grate guard and padlocked door;
- Silo inspection platform;
- 2 rotative level sensors, one for almost full pre-alarm and one for full alarm;
- Screw discharge system, with geared motor of adequate power and automatic closing door.

OPTIONAL

- Discharge slide, to be swivelled manually or pneumatically;
- Alternating mass vibrators to facilitate sliding of the swarf when packed;
- Screw distribution system to optimise silo volume, automatically controlled by level sensors;
- Electrical control panel with key switch to enable the push-button panel located near the silo;
- Load cells for weighing.

SILO CAPACITY

SILO [kg]	BRASS	STEEL	ALUMINIUM	STAINLESS STEEL	COPPER	CAST IRON
10 [m³]	8,000	10,000	3,300	9,000	8,000	10,000
20 [m³]	16,500	20,000	6,600	18,000	16,500	20,000
30 [m³]	25,000	30,000	10,000	27,000	25,000	30,000

THE DATA IN kg ARE APPROXIMATE AND IN ANY CASE DEPEND ON THE DENSITY AND SHAPE OF THE SWARF.

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

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TECHNICAL SPECIFICATIONS

The dimensions of the silo are established on the basis of production requirements, normally suitable to contain one week of production or more.

The height of the columns of the support structure are determined based on the height of the truck container.

The swarf containment tank undergoes a sandblasting and painting cycle with organic zinc plating, while the support structure is completely hot-dip galvanised.

The section of the horizontal silo is trapezoidal, as there is a discharge screw on the bottom.



ADDITIONAL TECHNICAL FEATURES

1. The support structure is accompanied by a certified structural calculation report;
2. The anchor bolts to fix the silo to the ground must be drowned in concrete. Depending on the type of soil, it is possible to build plinth or ground beam foundations;
3. If the silo is placed on an existing floor, it must bear the full load of the silo on the four support points.

LOADING METHOD

The silo can be loaded with two methods: by mechanical channel or by pneumatic system.

The first is a concave vane channel moved by chains, driven by a geared motor.

The second is a system that uses the speed of the air inside pipes, generated by a displacement pump, to push the swarf inside the silo.

If the silos are coupled, they can be loaded individually or connected by a distributor channel which is automatically activated when the first silo is full.



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