

## 10 ÷ 30 MC BRIDGE SILO



### DESCRIPTION

The FAMA **bridge 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 dimensions of the silo are established based on production requirements, and are normally sufficient to contain at least one week of production. The height of the columns of the support structure is established based on the height of the truck container.

The bridge-type silos are designed for outdoor installations, in situations where there is little space available: in fact, the arched structure allows the transit of trucks under the silo.

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

The material can be loaded in the silo in two different ways: by mechanical conveyor or pneumatic transport. The first is a concave vane conveyor moved by chains, driven by a geared motor. The second is a system that uses the speed of the air inside the 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 conveyor which is automatically activated when the first silo is full.

FAMA **bridge silos** are available in different volume sizes, normally ranging from 10 m<sup>3</sup> to 30 m<sup>3</sup>. Load cells are recommended to be certain of the loaded weight.

### SUPPLY

- Silo tank made in robust reinforced and painted metalwork
- Plates and backplates with anchor rods
- Vertical ladder with protective grating and padlocked door
- 2 rotative level sensors, one for almost full pre-alarm and one for full alarm

- Automatic door actuated by a cylinder and hydraulic control unit
- Eccentric mass pneumatic vibrators to facilitate unloading of the swarf when packed, with manual control
- Silo inspection platform
- Support structure certified CE UNI 9010 with certification of the origin of all the materials

- of the bearing structure;
- Constraint reactions at the foot to be used to make the silo foundations
- Electrical control panel
- Door opening pushbutton panel enabled from main panel

### OPTIONAL

- Electric control panel with key switch to enable pushbutton panel located near the silo
- Load cells for weighing
- Designed to couple the sample weights

- Customisation of constraint reaction and seismic action calculations to be sent to competent local authorities signed and stamped by a professional enrolled in the

register of engineers (after reception of the client's geological report). according to Italian Ministerial Decree. No. 8 17 January 2018 and circular no.7 of 21/01/19.

## 10 ÷ 30 MC BRIDGE SILO

TYPE	DIMENSIONS	POWER	VOLTAGE	LOADING	UNLOADING POSITION
BRIDGE-TYPE	10 ÷ 30 m <sup>3</sup>	3 kW	230/400 V	CONTINUOUS	BOTTOM

### SILO CAPACITY

SILO CAPACITY	BRASS	STEEL	ALUMINIUM	STAINLESS STEEL	COPPER	CAST IRON
10 mc	8000	10000	5000	9000	8000	10000
20 mc	16500	20000	10000	18000	16000	20000
30 mc	25000	30000	15000	27000	24000	30000

The data in kg are approximate and in any case depend on the density and shape of the swarf.

### 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 silo is equipped with a door with controlled opening, to ensure a safe and correct unloading procedure, allowing perfect dosing and distribution of the swarf on the truck.



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### 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.