

VERTICAL SILOS

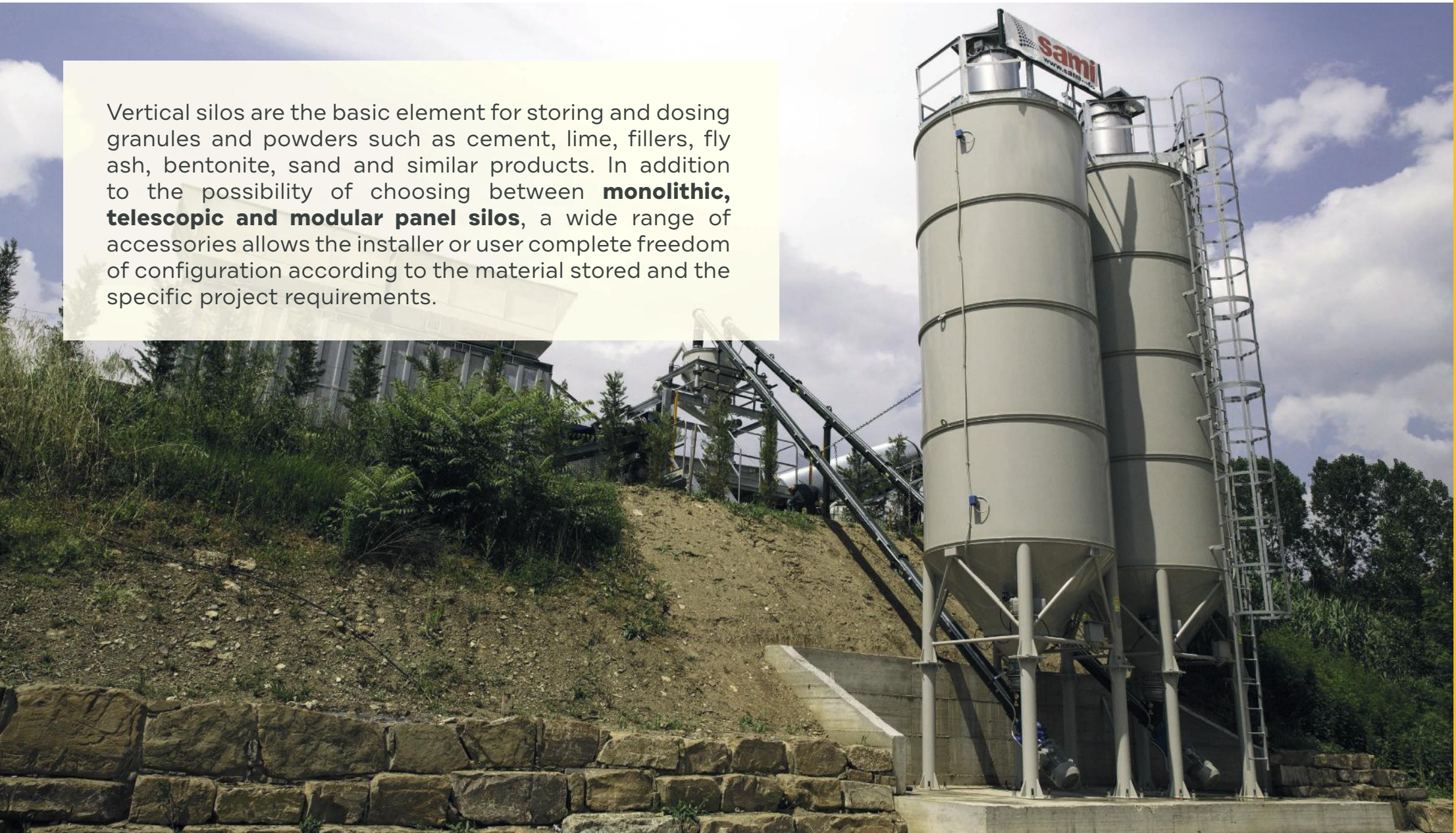
STORAGE AND DOSING OF POWDERED MATERIAL



sami



Vertical silos are the basic element for storing and dosing granules and powders such as cement, lime, fillers, fly ash, bentonite, sand and similar products. In addition to the possibility of choosing between **monolithic, telescopic and modular panel silos**, a wide range of accessories allows the installer or user complete freedom of configuration according to the material stored and the specific project requirements.



VERTICAL SILOS





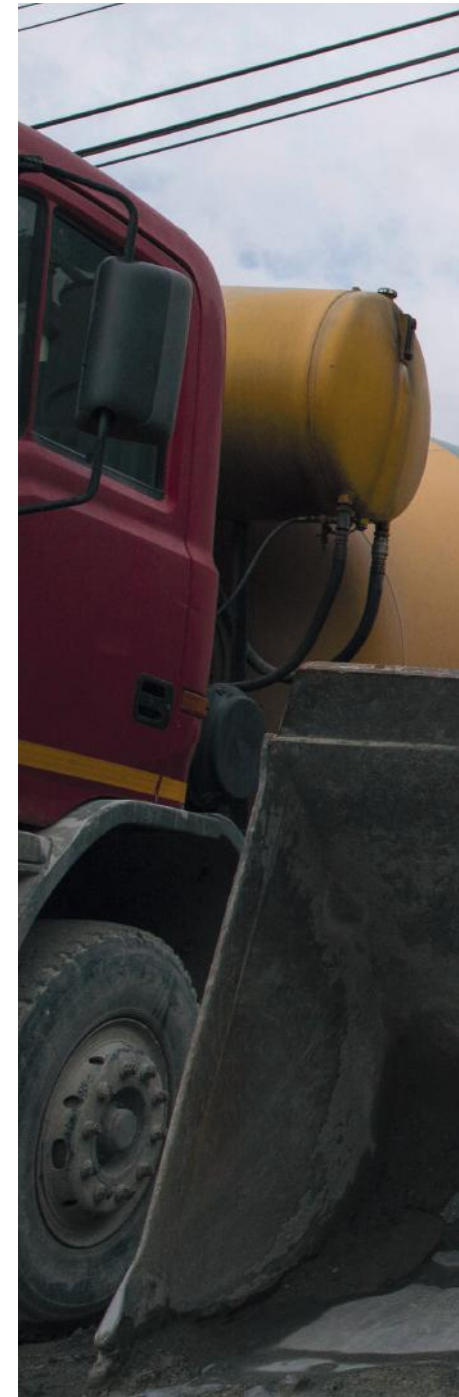
QUALITY GUARANTEED SINCE 1975

Thanks to the experience gained over the years, the use of selected materials, the care taken in construction and an excellent paint treatment, these silos guarantee **excellent preservation** over the years, both in their external appearance and in their durability from the most extreme climatic conditions. All standard models are designed with 3D software in compliance with the **NTC 2018** and **EUROCODE 1/3/8** standards, while the structural production process is guaranteed by **UNI EN ISO 3834-2** and **UNI EN ISO 1090-1** certification on welds.



ACCESSORIES FOR ANY NECESSITY

In addition to basic elements, such as the loading pipe, vent pipe and manhole on the roof, **a high degree of customisation** is possible thanks to a wide range of accessories, such as: quick couplings for pneumatic loading, containment valves, level indicators, vibrators and fluidisation systems (to facilitate the descent of materials), unloading augers, telescopic unloaders, ladders and guardrails, dust suppression filters, complete control panels or simple junction boxes (for operating the silo from existing control panels).



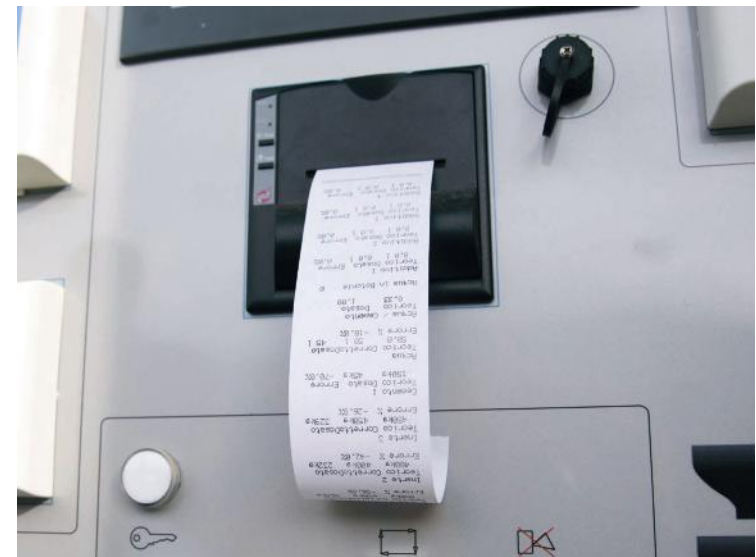


VERTICAL SILOS



ELECTRONIC WEIGHING SYSTEMS

The **SILMATIC DE** vertical silos with electronic dosing are equipped with load cell weighing systems and electronic terminals that allow (a) the unloading of **weighed quantities** of material, (b) the management of automatic unloading programs, (c) the automatic management of vibrators, (d) the control of purchased quantities as well as (e) the control of inventories.



MONOLITHIC

VERTICAL SILOS FOR POWDERED MATERIALS



MAIN FEATURES

- *Storage capacity:* **9 - 103 m³**
- *Material loading:* pneumatic filling by tanker truck
- *Material dosing:* timed volumetric / electronic weighing system
- *Material lowering:* electromechanical vibrators/fluidification system
- *Material extraction:* discharge screw with a capacity of 17, 25, 40 or 60 m³/h
- *Safety:* pressure control valve / valve with pressure switch on loading pipe
- *Structural design:* NTC 2018 and EUROCODE 1/3/8 standards



MONOLITHIC STRUCTURE

In addition to being extremely easy to assemble on site, the monolithic construction that characterises this type of silo guarantees **maximum protection against humidity** and infiltration. Models with a **diameter of 2450 mm** are easily transportable on normal tractor-trailers or semi-trailers and are suitable for small and medium-sized storage; models with a **diameter of 3000 mm**, on the other hand, can be transported as 'exceptional loads without an escort' and are suitable for medium-high storage.





MONOLITHIC SILOS



AVAILABLE MODELS

* Silos available in SILMATIC DE electronic dosing version

MODELS
SM 24/09*
SM 24/16*
SM 24/23*
SM 24/29*
SM 24/36*
SM 24/43*
SM 24/49*
SM 24/52
SM 24/61

VOLUME M ³
9
16
23
29
36
43
49
52
61

DIMENSIONS FOR TRANSPORT	
DIAMETER (mm)	LENGTH (mm)
2450	3100
2450	4600
2450	6100
2450	7600
2450	9100
2450	10600
2450	12300
2450	13000
2450	14600
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MODELS
SM 29/15*
SM 29/24*
SM 29/34*
SM 29/44*
SM 29/54*
SM 29/64*
SM 29/74*
SM 29/84
SM 29/94
SM 29/103

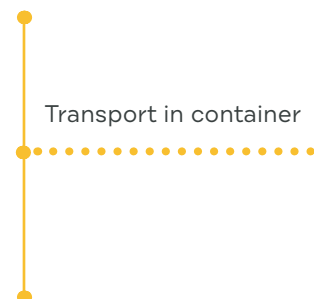
VOLUME M ³
15
24
34
44
54
64
74
84
94
103

DIMENSIONS FOR TRANSPORT	
DIAMETER (mm)	LENGTH (mm)
2950	3500
2950	5000
2950	6500
2950	8100
2950	9600
2950	11200
2950	12600
2950	14200
2950	15700
2950	17200

MODELS
SMC 22/07*
SMC 22/13*
SMC 22/19*
SMC 22/24*
SMC 22/30*
SMC 22/35*
SMC 22/41*

VOLUME M ³
7
13
19
24
30
35
41

DIMENSIONS FOR TRANSPORT	
DIAMETER (mm)	LENGTH (mm)
2200	3100
2200	4500
2200	6000
2200	7500
2200	9000
2200	10500
2200	12000



TELESCOPIC

VERTICAL SILOS FOR POWDERED MATERIALS



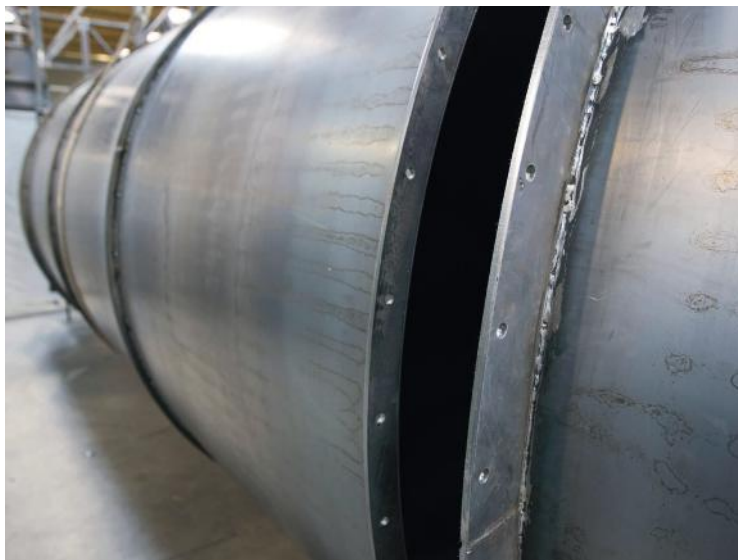
MAIN FEATURES

- *Storage capacity:* **23 - 120 m³**
- *Material loading:* pneumatic filling by tanker truck
- *Material dosaging:* timed volumetric / electronic weighing system
- *Material lowering:* electromechanical vibrators / fluidification system
- *Material extraction:* discharge screw with a capacity of 17, 25, 40 or 60 m³/h
- *Safety:* pressure control valve / valve with pressure switch on loading pipe
- *Transport:* silo divided into 2 telescopic parts to reduce overall dimensions
- *Structural design:* NTC 2018 and EUROCODE 1/3/8 standards



TELESCOPIC STRUCTURE

Telescopic vertical silos are **divided into two parts** that **fit inside each** other during transport, reducing space requirements and shipping costs considerably. The models with a diameter of 2450 mm are easily transportable on normal tractor-trailers or lorries and are suitable for small and medium storage. Models with a diameter of 3000 mm can be transported as 'exceptional loads without an escort' and are suitable for medium to high storage.





TELESCOPIC SILOS



AVAILABLE MODELS

* Silos available in SILMATIC DE electronic dosing version

MODELS	VOLUME M ³	DIMENSIONS FOR TRANSPORT		MODELS	VOLUME M ³	DIMENSIONS FOR TRANSPORT	
		DIAMETER (mm)	LENGTH (mm)			DIAMETER (mm)	LENGTH (mm)
ST 24/28*	28	2450	4500	ST 29/40*	40	2950	4700
ST 24/35*	35	2450	6000	ST 29/50*	50	2950	6200
ST 24/41*	41	2450	6000	ST 29/62*	62	2950	6200
ST 24/47*	47	2450	7500	ST 29/72*	72	2950	7700
ST 24/53	53	2450	7500	ST 29/81	81	2950	7700
ST 24/65	65	2450	9000	ST 29/91	91	2950	9200
ST 24/75	75	2450	9000	ST 29/100	100	2950	9200
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MODELS	VOLUME M ³	DIMENSIONS FOR TRANSPORT	
		DIAMETER (mm)	LENGTH (mm)
STC 22/23*	23	2200	4400
STC 22/29*	29	2200	6000
STC 22/34*	34	2200	6000
STC 22/39*	39	2200	7500
STC 22/44	44	2200	7500



PANELLED

VERTICAL SILOS FOR POWDERED MATERIALS



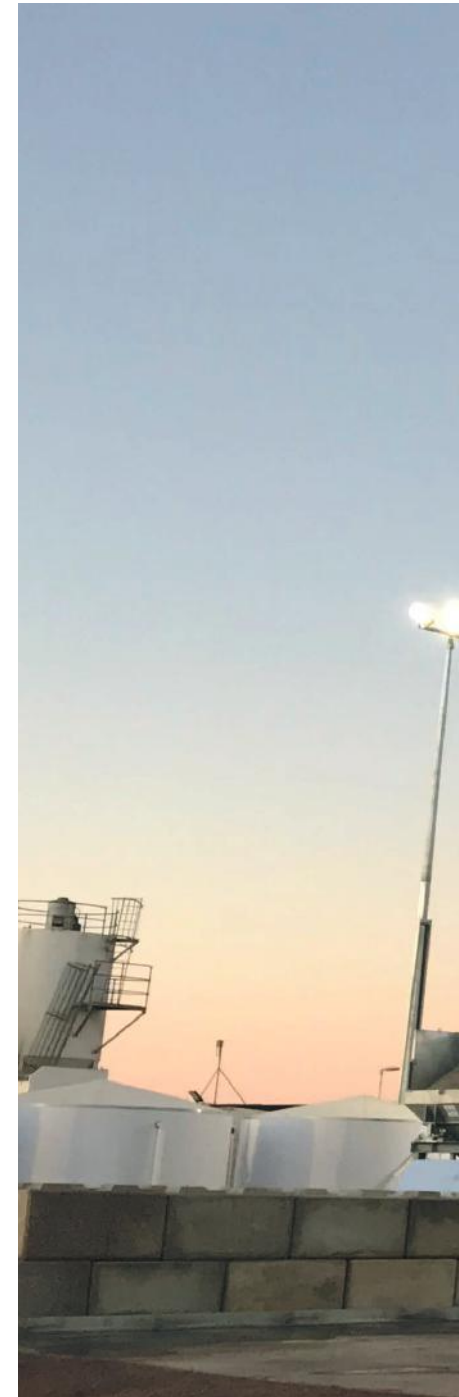
MAIN FEATURES

- *Storage capacity:* **50 - 250 m³**
- *Material loading:* pneumatic filling by tanker truck
- *Material dosing:* timed volumetric
- *Material lowering:* electromechanical vibrators / fluidisation plants
- *Material extraction:* discharge screw with a capacity of 17, 25, 40 or 60 m³/h
- *Safety:* pressure control valve / valve with pressure switch on loading pipe
- *Transport:* maximum space optimisation
- *Structural design:* NTC 2018 and EUROCODE 1/3/8 standards



PANELLED STRUCTURE

All elements that make up the vertical panel silos (discharge cone, roof and cylindrical virole) are designed and manufactured to be **bolted and assembled directly on site**. Special seals and the tarring of the joints during assembly ensure insulation from the outside. The structure in flanged elements, as well as allowing the largest storage capacities available, is the best solution for **optimising space and costs during transport**.





PANELLED SILOS



AVAILABLE MODELS



MODELS

SP 35/50
SP 35/70
SP 35/80
SP 35/90
SP 35/110
SP 35/125
SP 35/135

VOLUME M³

50
70
80
90
110
125
135

ASSEMBLED SILO DIMENSIONS

DIAMETER
(mm) HEIGHT
(mm)

3500 8440
3500 10700
3500 12300
3500 13000
3500 15200
3500 16800
3500 17500

MODELS

SP 50/140
SP 50/170
SP 50/200
SP 50/220
SP 50/250

VOLUME M³

140
170
200
220
250

ASSEMBLED SILO DIMENSIONS

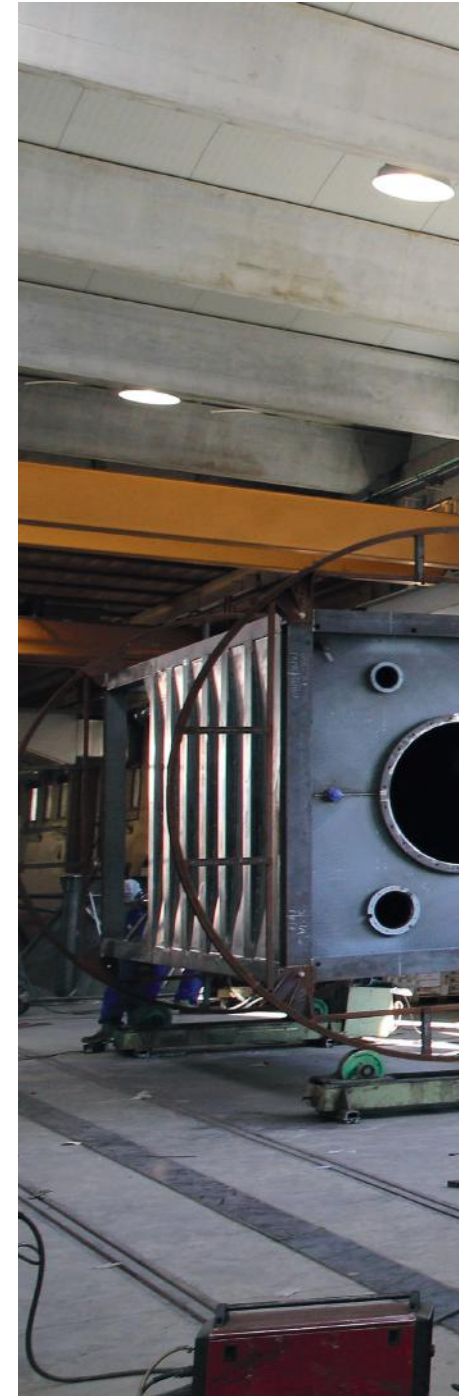
DIAMETER
(mm) HEIGHT
(mm)

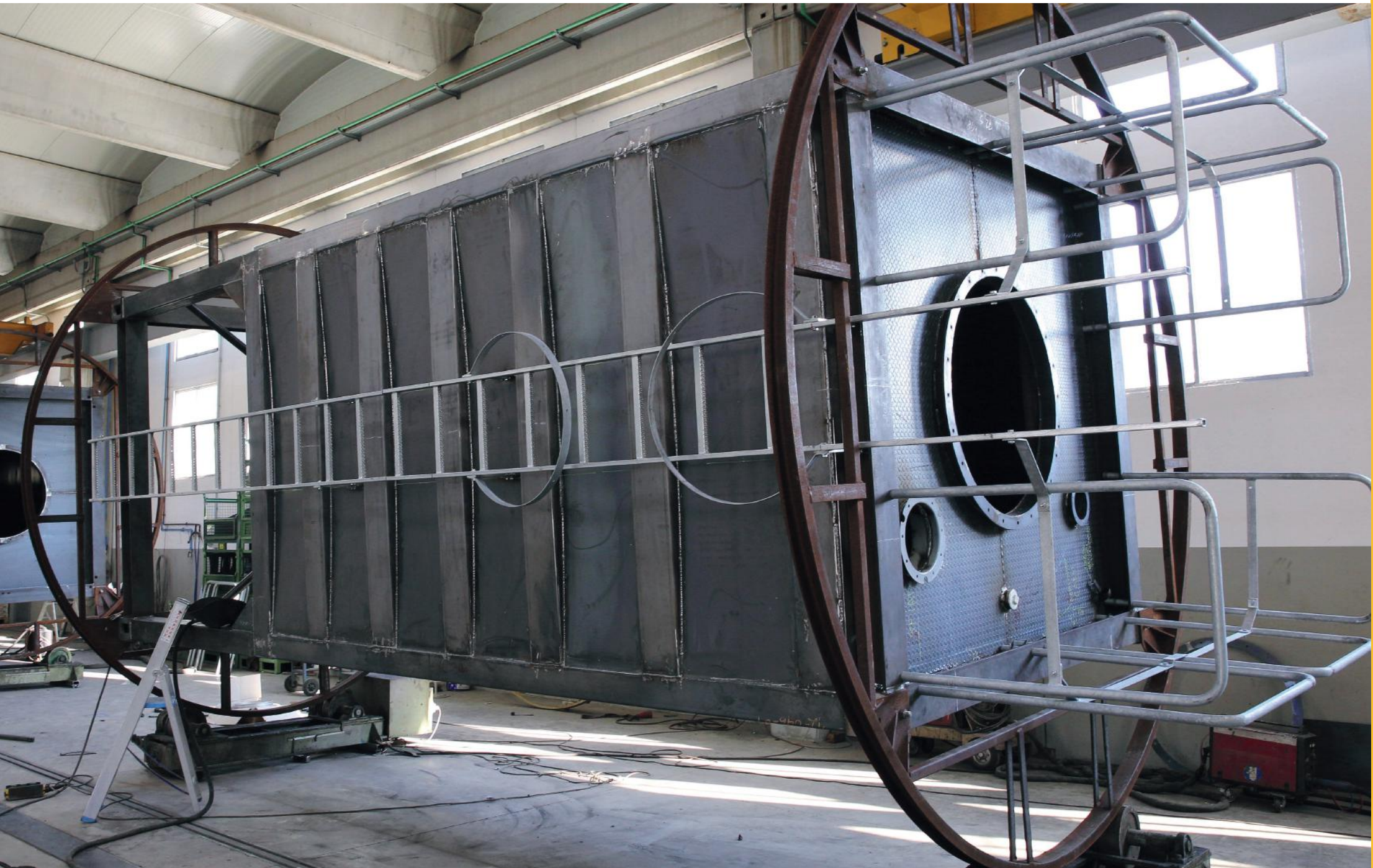
5000 11100
5000 12600
5000 14100
5000 15600
5000 17100



CUSTOMIZATIONS

Thanks to a certified design team, and a fabrication department that fully builds our products, we can offer highly customizable silos based on the client's needs. Silos with a polygonal cross-section, silos with two discharge outlets and with an internal partition, silos with a structural skirt and silos with outlets of all kinds.





OTHER PRODUCTS



STORAGE HORIZONTAL SILOS

Horizontal and hook lift silos for storing and dosing powders and granules, as well as loading concrete mixer trucks.



BAG BREAKING EQUIPMENT

Systems for emptying bags of powder material or granules and bag-breaking hoppers for feeding silos and batching plants.



DRY MIXING PLANTS

Plants for the production, storage and distribution of pre-mixed dry mortar.





DISSOLUTION PLANTS

Plants for the preparation of hydrated lime suspensions (milk of lime).



CONCRETE PLANTS

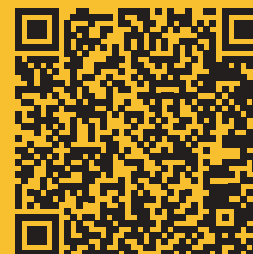
Mobile or static batching plants for the production of concrete and concrete mixes.



SOIL & WASTE TREATMENT

Plants for the treatment and stabilisation of soil and sludge from various industrial sectors.





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