



Direct contacts:

-  +39 335 715 67 77
-  +39 335 732 09 49
-  +39 335 715 19 19
-  +39 335 679 27 71
-  +39 342 543 93 31
-  +49 172 463 27 00

[sales@euromecc.com](mailto:sales@euromecc.com)



Euromecc S.r.l. - S.S. 192 Km 79 - P.O. Box 163  
95045 Misterbianco (CT) - Italy - Tax code and VAT 02671040877  
[sales@euromecc.com](mailto:sales@euromecc.com) - [www.cementsilos.eu](http://www.cementsilos.eu)  
Tel. +39 095 713 00 11 +39 331 183 47 41 +39 331 183 47 43  
Fax +39 095 713 01 15



Monolithic Silos • Bolted Silos  
Marine Terminal for Cement Storage





## SILOS

### MONOLITHIC SILOS

Planned in order to grant the assembly in the site. The tin-plate output, ensured by the body unity, is the main characteristic of this kind of silos.

Easy to be transported, on normal articulated-lorry, monolithic silos satisfy the demands of each kind of plant for concrete production which require both little and big cement storage.

To Silos completion, Euromecc is able to supply a series of accessories which satisfy customers' demands.

Under the customer request, it can be equipped with any kind of silos' accessories (safety valve, foot irons for top entrance completed with intermediate lay-by according to the rules in force, top perimeter parapets, connection gateway, level gauge and continuous level gauge, KCS systems, filters, screws, etc.), calculation reports and all other customers' requests.

### BOLTED SILOS

These particular silos produced by Euromecc have the cone, the roof and the cylindrical band built with flanged elements longitudinally.

The elements number changes according to the silos series. Euromecc Silos are bolted on the external part in order to allow a more rapid and easy assembly in site. Special gaskets and silicone in the assembly phase ensure the maximum endurance.



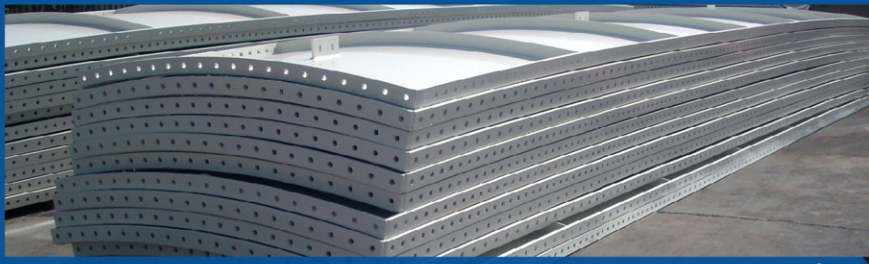
### TECHNICAL SPECIFICATIONS

Euromecc Silos are suitable to endure the wind action with 100 km/h (62.14 mph) speed and the snow load with 1.00 kN/sq.m. (20.88 lbf/ft<sup>2</sup>).

Silos are suitable for installation at temperatures between -5°C (23°F) and +40°C (104°F) and in medium seismic zone ( $\leq 0,20$  g).

All steel structures are composed on hot rolled outlines S275 or superior quality, in accordance with the rule EN 10025.

# BUILDING SEQUENCE



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## BOLTED SILOS

### Ø 4600 MM - 15' 1"

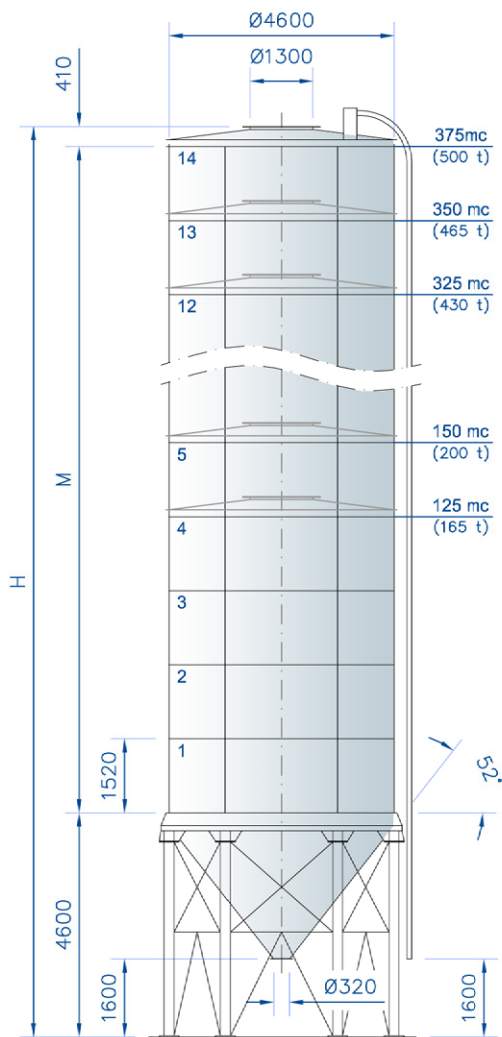
These Silos satisfy the sites' demands of high cement storage. They are realized in 6 external bolted and vertical bands on the silos roof and divided in sectors.

### ACCESSORIES

- Manhole 400 mm (1' 4")
- Predisposition for measuring gauge
- Kit galvanized bolts, gaskets and silicon for erection

SERIES	METRIC UNITS		UNITED STATES UNITS	
	CAPACITY m <sup>3</sup> - Ton*	M (mm) H (mm)	CAPACITY BBL - cu. ft.	M (ft. - in.) H (ft. - in.)
SD6/4,6/125	125 - 165	6080 - 11090	1105 - 4410	19' 9" - 36' 4"
SD6/4,6/150	150 - 200	7600 - 12610	1325 - 5300	24' 9" - 41' 4"
SD6/4,6/175	175 - 235	9120 - 14130	1545 - 6180	29' 9" - 46' 4"
SD6/4,6/200	200 - 265	10640 - 15650	1765 - 7060	34' 9" - 51' 3"
SD6/4,6/225	225 - 300	12160 - 17170	1985 - 7945	39' 9" - 56' 3"
SD6/4,6/250	250 - 335	13680 - 18690	2205 - 8830	44' 9" - 61' 3"
SD6/4,6/275	275 - 365	15200 - 20210	2430 - 9710	49' 9" - 66' 3"
SD6/4,6/300	300 - 400	16720 - 21730	2650 - 10595	54' 8" - 71' 3"
SD6/4,6/325	325 - 430	18240 - 23250	2870 - 11480	59' 8" - 76' 3"
SD6/4,6/350	350 - 465	19760 - 24770	3090 - 12360	64' 8" - 81' 3"
SD6/4,6/375	375 - 500	21280 - 26290	3310 - 13245	69' 8" - 86' 2"

\*CEMENT WITH SPECIFIC WEIGHT 1,33 TON/CU.M.C.A.



## BOLTED SILOS

### Ø 6130 MM - 20' 1"

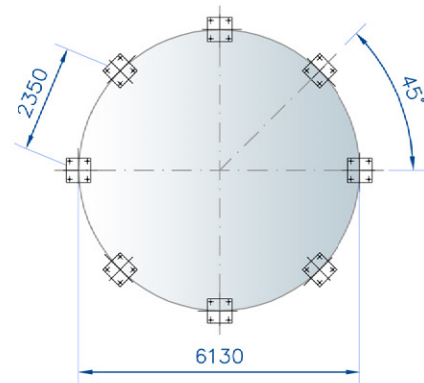
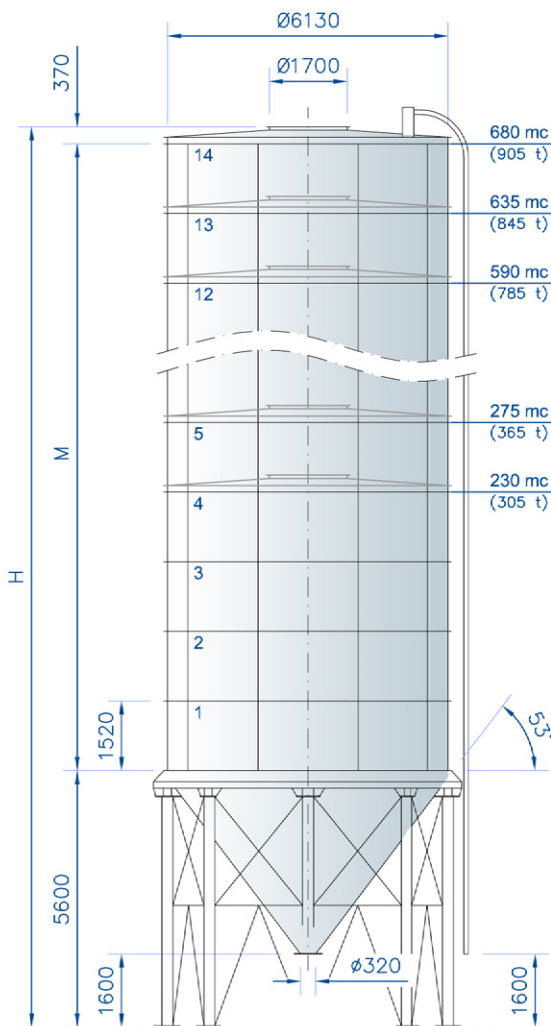
They can be used for small silos batteries for the storage and load on tanker Lorries of bulk cement. The maximum volumetry to be realized on these silos is of 680 cu.m.

### ACCESSORIES

- Manhole 400 mm (1' 4")
- Predisposition for measuring gauge
- Kit galvanized bolts, gaskets and silicon for erection

METRIC UNITS			UNITED STATES UNITS	
SERIES	CAPACITY m <sup>3</sup> - Ton*	M (mm) H (mm)	CAPACITY BBL - cu. ft.	M (ft. - in.) H (ft. - in.)
SD8/6,1/230	230 - 305	6080 - 12050	2030 - 8120	19' 9" - 39' 5"
SD8/6,1/275	275 - 365	7600 - 13570	2430 - 9710	24' 9" - 44' 5"
SD8/6,1/320	320 - 425	9120 - 15090	2825 - 11300	29' 9" - 49' 5"
SD8/6,1/365	365 - 485	10640 - 16610	3220 - 12890	34' 9" - 54' 5"
SD8/6,1/410	410 - 545	12160 - 18130	3620 - 14480	39' 9" - 59' 5"
SD8/6,1/455	455 - 605	13680 - 19650	4020 - 16070	44' 9" - 64' 5"
SD8/6,1/500	500 - 665	15200 - 21170	4415 - 17660	49' 9" - 69' 5"
SD8/6,1/545	545 - 725	16720 - 22690	4810 - 19250	54' 9" - 74' 5"
SD8/6,1/590	590 - 785	18240 - 24210	5210 - 20840	59' 9" - 79' 5"
SD8/6,1/635	635 - 845	19760 - 25730	5600 - 22425	64' 9" - 84' 5"
SD8/6,1/680	680 - 905	21280 - 27250	6000 - 24010	69' 9" - 89' 5"

\*CEMENT WITH SPECIFIC WEIGHT 1,33 TON/CUM.C.A.



## BOLTED SILOS

### Ø 15000 MM - 49' 2"

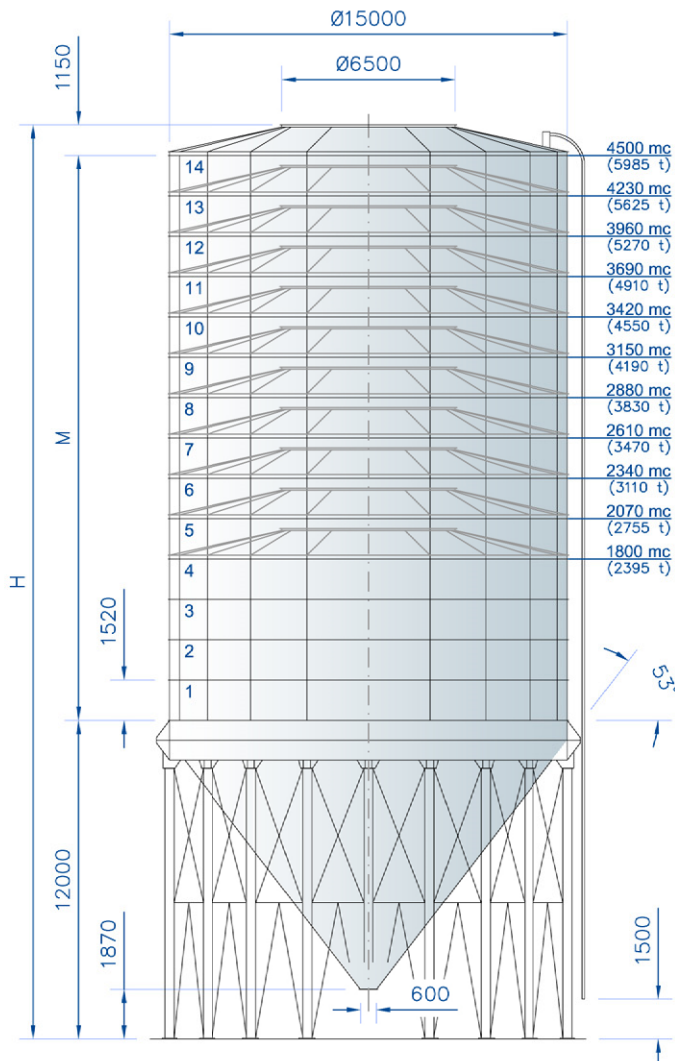
Ideal for marine terminal, they are planned and realized for the storage of any kind of bulk material. They allow both the unload from vessel and the load on tank lorries, both the load on vessels, through the use of special pump systems. This kind of installation needs less space, because it develops in height, and permits the storage of different kinds of materials: one per each silo.

### ACCESSORIES

- Manhole 400 mm (1'4")
- Predisposition for measuring gauge
- Kit galvanized bolts, gaskets and silicon for erection

SERIES	METRIC UNITS		UNITED STATES UNITS	
	CAPACITY m <sup>3</sup> - Ton*	M (mm) H (mm)	CAPACITY BBL - cu. ft.	M (ft. - in.) H (ft. - in.)
SD20/15,0/1800	1800 - 2395	6080 - 19230	15890-63565	19' 9" - 63' 1"
SD20/15,0/2070	2070 - 2755	7600 - 20750	18280-73100	24' 9" - 68' 1"
SD20/15,0/2340	2340 - 3110	9120 - 22270	20660-82640	29' 9" - 73' 1"
SD20/15,0/2610	2610 - 3470	10640 - 23790	23040-92170	34' 9" - 78' 1"
SD20/15,0/2880	2880 - 3830	12160 - 25310	25420-101710	39' 9" - 83' 0"
SD20/15,0/3150	3150 - 4190	13680 - 26830	27810-111240	44' 9" - 88' 0"
SD20/15,0/3420	3420 - 4550	15200 - 28350	30195-120780	49' 9" - 93' 0"
SD20/15,0/3690	3690 - 4910	16720 - 29870	32580-130310	54' 9" - 98' 0"
SD20/15,0/3960	3960 - 5270	18240 - 31390	34960-139850	59' 9" - 103' 0"
SD20/15,0/4230	4230 - 5625	19760 - 32910	37345-149380	64' 9" - 107' 0"
SD20/15,0/4500	4500 - 5985	21280 - 34430	39730-158920	69' 9" - 112' 0"

\*CEMENT WITH SPECIFIC WEIGHT 1,33 TON/CU.M.C.A.



## ACCESSORIES

### FOOT IRONS:

Hot galvanized and equipped with intermediate lay-by and safe-body grid.



### PARAPET:

Placed on the roof of the silos  $H = 1,2$  mt with baseboard 15 cm made with a pipe of 42 mm and a plate 50 x 6.

Euromecc parapets are hot galvanized.



### CONNECTION GANGWAY:

To connect no. 2 silos, realized in strained metal sheet and completed with banisters  $H = 1,2$  mt with baseboard of 15 cm. Hot galvanized.



### AERATION KIT:

Applied inside the silo inferior cone, it avoids possible damages due to the product irregular descent, such as demixing, bridges, stagnation. Aeration plates help the product outflow thanks to the local change of the specific weight of the product blowing air through blowing nozzles connected to the air distribution pipes.

for silos  $\varnothing$  2500 mm (no. 3 plates or nozzles)  
 for silos  $\varnothing$  3000 mm (no. 4 plates or nozzles)  
 for silos  $\varnothing$  3500 mm (no. 8 plates or nozzles)  
 for silos  $\varnothing$  4600 mm (no. 12 plates or nozzles)  
 for silos  $\varnothing$  6130 mm (no. 16 plates or nozzles)  
 for silos  $\varnothing$  7680 mm (no. 20 plates or nozzles)  
 for silos  $\varnothing$  9276 mm (no. 24 loglines 800 x 200 mm)  
 for silos  $\varnothing$  12500 mm (no. 32 loglines 1600 x 200 mm)



### BUTTERFLY VALVES/SLIDE VALVES:

They are used where the material flux in dust or granular must be intercepted. The valves can be installed under unloading gates of silos and hoppers, on the loading and unloading gates of the mechanic conveyors or on the loading gate of the telescopic unloader. The valves can be both with pneumatic and manual start-up.



### MEASURING GAUGE:

**PADDLE:** The universal gauge with revolving paddle is used as a full/empty alarm and the tank request containing bulk solid material.

**IN CONTINUOUS:** The measuring gauge in continuous is a transmitter which works according to the fly-time, through micro-impulses. Ideal to measure the level of fine and pulverulent solid products inside the silos.



