

**TECHNO  
BINS**

# **Tecnologie per lo stoccaggio industriale**

di prodotti alla rinfusa in granuli e polvere



Technobins is specialized in designing, supplying and installing every kind of metal silos for bulk solid products both granular and powdery. Silos can be manufactured in stainless steel, galvanized steel, painted steel (usually an industrial cycle of high temperature powder coating, by using paintings suitable for food stuff), aluminium.



# ROUND SILOS

- Smooth monolithic silos;
- Smooth spiral silos;
- Corrugated bolted silos (we represent the spanish company SIMEZA on the italian market);
- Smooth bolted silos, available versions both for outdoor and indoor installation.



**Concerning all the mentioned typologies, the first classification is related to the bottom type:**

- Flat bottom (stored product directly in contact with the fondation slab);
- Self-cleaning hoppers bottom, with slopes ranging from 30° to 70°.

**A second classification can be linked to the support system of hoppers silos:**

- Single solution with skirt (prosecution of the cylindrical body until ground level);
- Single solution on supporting pillars;
- Solution with shared supporting structure for the entire battery (made in carpentry or in reinforced concrete).

**A final classification can be related to the specific intended use:**

- Single silos or arranged in battery for bulk trucks load;
- Silos for storage of non flowing materials;
- Silos with multiple discharge in order to homogenize the retention time ("first in – first out");
- Insulated silos for tanker unloading;
- Blending silos;
- Silos arranged in battery, insulated and covered in order to realize a modern industrial building.



Powder coated smooth bolted silos, arranged in battery, on a reinforced concrete structure.



Hoppers smooth spiral silo, on a metal structure for bulk trucks load.



Flat bottom smooth spiral silos.



Flat bottom corrugated bolted silos.



SIMEZA



Smooth bolted silos on single pillars.



Powder coated smooth bolted silos with flat bottom and extractor for non flowing products, on a metal structure for bulk trucks load.



Stainless steel bolted silos, on a skirt solution, individually insulated, for tanker unloading.



Stainless steel smooth spiral silos having flat bottom and individually insulated.



Stainless steel bolted silos, arranged in battery, on a metal structure.



Smooth bolted silos with asymmetrical hopper for bulk trucks load.

Flat wall cells are in particular suitable in case the purpose is to optimize the available capacity and to save the employed space. As indicated for round silos, many solutions are available: single, arranged in battery, on a metal or concrete structure.

**The main classification is the following:**

- Cells having smooth inner wall and exposed external stiffeners;
- Cells having smooth wall sandwich-type (stiffeners interposed between a couple of smooth walls, both on the inner and external side);
- Corrugated wall cells (suitable only for the storage of granular products).

The common feature of all these mentioned typologies is the presence of a wide bevel in the corners, to avoid unwanted product deposits.

Standard sizes up to 4 x 4 m in plan and 25 m in height. When the layout is composed by a relevant number of cells arranged in battery, Technobins usually suggest common walls, in order to avoid the generation of empty spaces difficult to access and clean (according HACCP legislation).

In almost all case flat wall cells are made with hopper bottom.

**Technobins can realize a really generous e and smart hopper list:**

- Having different slopes and square outlet;
- With transition from square section to round section, for bin activator/other round extractors fixing;
- With multiple discharge in order to homogenize the retention time ("first in - first out");
- With an asymmetrical segment, converging on one side.

Technobins is specialized in habitually supplying batteries of flat walls cells complete with lateral insulation and coverage in order to realize a modern industrial building. The particular technical adopted solution for the wall of the cells battery doesn't need a secondary carpentry structure to sustain the external insulation panels.



Flat wall cells battery, smooth sandwich-type, on a metal structure for bulk semolina trucks load.



Flat wall cells battery, smooth sandwich-type, for conditioned wheat storage, on a metal structure.



Flat wall cells battery, made in stainless steel for white rice storage, smooth with exposed external stiffeners, on a metal structure.



Single flat wall cells, smooth sandwich-type, on a metal structure, arranged with a round silos for flour storage.



Flat wall cells battery, smooth sandwich-type, on a reinforced concrete structure.



Flat wall cells battery, smooth with exposed external stiffeners, on a metal structure in a concrete warehouse.



Flat wall cells battery, corrugated type, on a metal structure.



Flat wall cells battery with multiple discharge hopper for blended product/conditioned wheat storage.



Flat wall cells battery, smooth sandwich-type, with metal industrial building.



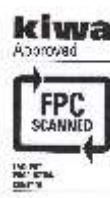
Single flat wall cell, smooth with exposed external stiffeners, on a metal structure, for raw coffee seeds.

**Technobins habitually supplies silos equipped with all the typical carpentries as for instance upper catwalks (open frame type, closed frame type, with lateral insulation and coverage), ladder (marinara ladder, step ladder), up to the realization of complete industrial buildings.**

For adding informations please consult our websit  
[www.technobins.it](http://www.technobins.it)  
 or send a request to the following mail address  
[info@technobins.it](mailto:info@technobins.it)



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ISO 9001:2008 e EN1090-1:2009



TECHNOBINS srl Via Pietro Nenni 4 - 42048 - Rubiera (RE) Italy  
Tel. 0522 943002 [www.technobins.it](http://www.technobins.it) - [info@technobins.it](mailto:info@technobins.it)