

Simple – superior!
We have redefined the economic silo construction
Up to 30% less assembly time – 100% Zeppelin quality

Silo Technology



Cost advantage and time saving

The Zeppelin silo Panel-Tec design

Zeppelin, the world market leader, also excels in the economic manufacturing of silos larger than 500 m³

The new Panel-Tec design ensures distinct advantages – lower assembly times with the same verifiable Zeppelin quality thanks to the innovative flange design and assembly technologies. The concept: single silo sections are prefabricated in our plant to the maximum possible extent and provided with flanges. These segments are then transported to the assembly site in containers and assembled on site either hanging from the crane or in a horizontal position. Then the silo segments are automatically welded from the inside. This assembly method is much faster than any conventional procedure and works independent of climatic conditions.

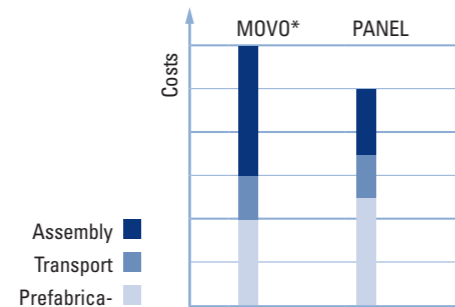
Verified welding quality ensures cost advantages

Thanks to our innovative flange connection design, the welds can be inspected and approved at the flanges. Your advantage: with the documented results of non-destructive welding tests (e.g. ultrasonics), the joint efficiency factor can be increased to allow a better use of the silo wall thicknesses. Furthermore, the flange connections used as assembly aids improve the silo stability - to prevent buckling - and allow optimization of the wall thicknesses.

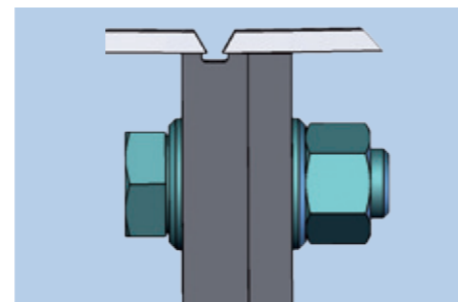
From roof to cone full of smart ideas

The experts at Zeppelin have thought about everything regarding the new Panel-Tec design. The new cone design allows a fast and precise orientation and alignment of the cone segments – naturally without any edges or protrusions on the silo inside surface. No need to grind the welding seams to ensure the optimum bulk-material flow. As for the silo roof, you can choose between 3 options available.

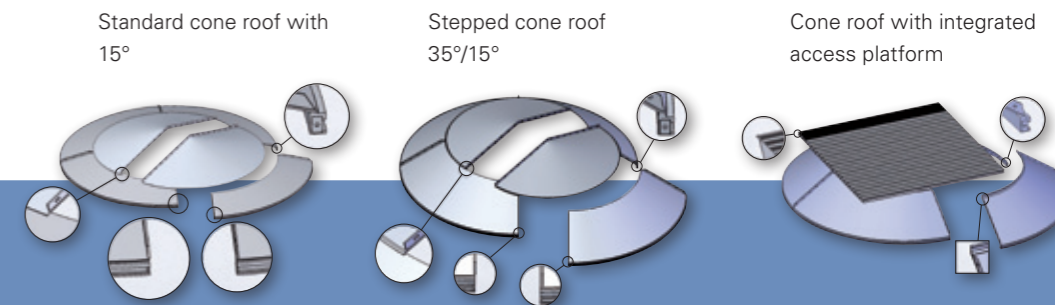
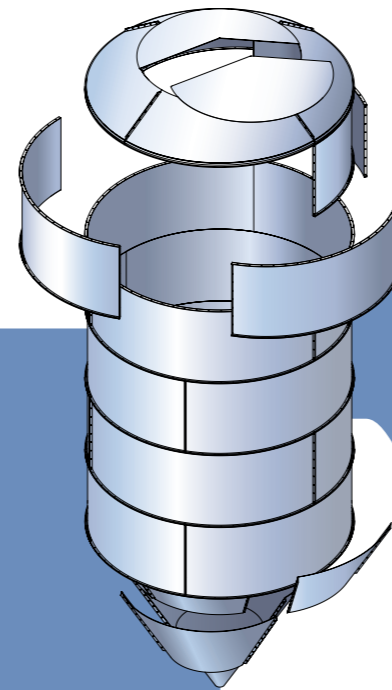
All process engineering equipment, such as the market leading Zeppelin blending or gas inlet and distribution devices, can be integrated into the Panel-Tec design.



* conventional site assembly



Longitudinal flange connection: the protrusion and recess design ensures proper welding and enable non destructive examination after



Silo diameter (d) [mm]	Roof design	Cylindrical height (h) [mm]	Skirt height [mm]	Total height [mm]	Net volume [m ³]	Aspect ratio d/h
6000	15°	17500	500	18000	501	1:3.0
6000	35°/15° or 35°/flat	17500	500	18000	512	1:3.0
7000	35°/15° or 35°/flat	18500	500	19000	752	1:2.7
8000	35°/15° or 35°/flat	18500	500	19000	1000	1:2.4
9000	35°/15° or 35°/flat	21500	500	22000	1500	1:2.4
10000	35°/15° or 35°/flat	23500	500	24000	2000	1:2.4

Subject to change



Global presence

- » Germany
- » Belgium
- » Brazil
- » USA
- » China
- » Singapore
- » United Kingdom
- » France
- » Russia
- » Saudi Arabia
- » Italy
- » Korea
- » India

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