

Rigid Silo



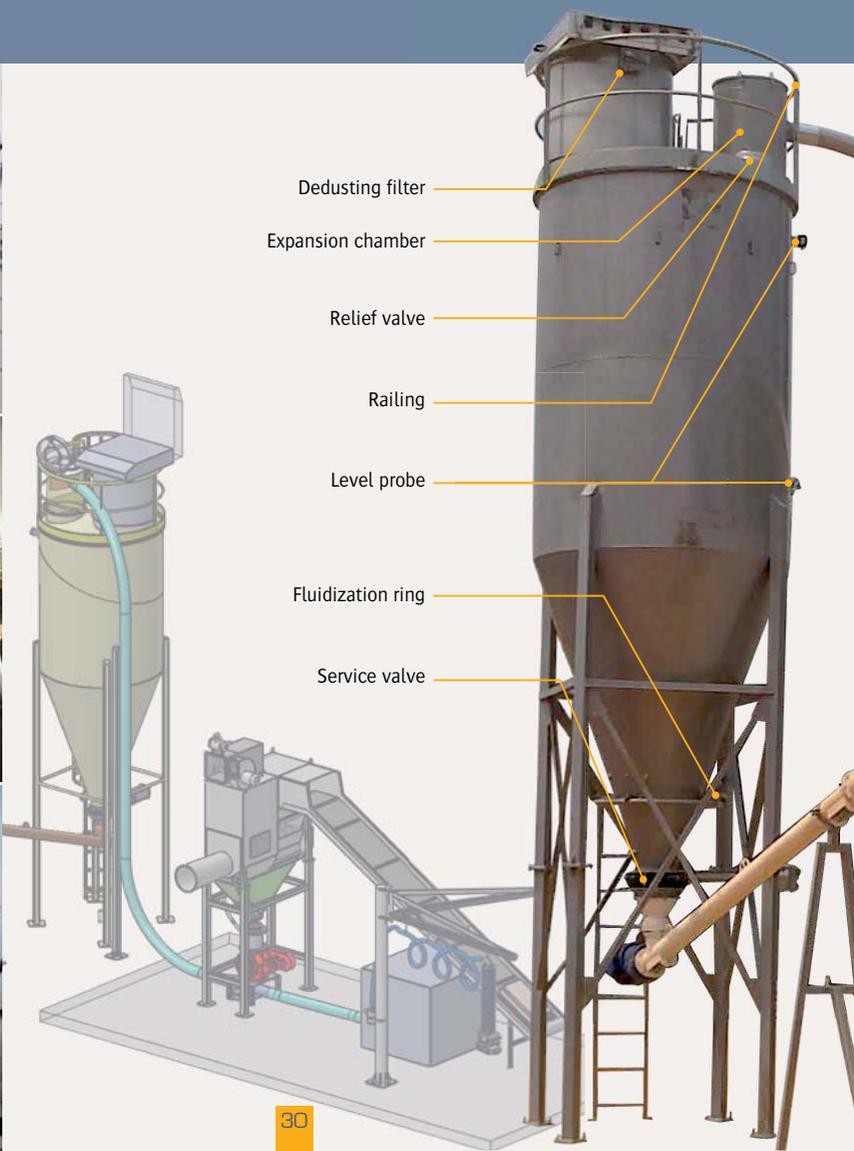
LARGE VOLUME POWDER STORAGE FOR PROCESS FEEDING

PALAMATIC PROCESS, specialist in the integration of turnkey systems, offers the possibility to produce your silos and tanks regardless of their size and tailored to your requirements for storage and distribution. Rigid silos allow contained storage of powders and high density bulk material.

TECHNICAL SPECIFICATIONS

Volume: up to 200 m³
Bottom: conical

Dimensions: depending on the diameter of the silo, the delivery is made in standard or wide load transport (category 1: up to 3 meters wide / Category 2: from 3 to 4 meters wide). Our assembly team travels on site for mounting the silo and its accessories.



- Dedusting filter
- Expansion chamber
- Relief valve
- Railing
- Level probe
- Fluidization ring
- Service valve

MANUFACTURING



Steel



Stainless Steel



Aluminum



Resin

3 TYPES OF SUPPORT



On foot



With wrapped around bottom cover



On terrace



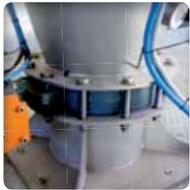
Crane and Installation on your site

EXAMPLES OF INSTALLATIONS



Equipment for Silo

▶ VALVES



▶ **Automatic butterfly valve:** ensure tightness of the silo



▶ **Automatic slide valve:** to ensure tightness of the silo and to allow a full bore



▶ **Rotary valve:** to ensure tightness of the silo and product dosing



▶ **Service valve:** to isolate the silo for maintenance operations



▶ **Inerting and nitrogen degassing:** valves for inerting and nitrogen degassing

▶ INSTRUMENTATION



▶ **Level probe (all or none):** with pallet, vibration or capacitive technology



▶ **Continuous level probe:** sets the silo filling level (guided radar, cable radar)



▶ **Load cells:** to control the amount of material in the silo



▶ **Oxygen sensor:** measuring the level of oxygen in the silo



▶ **Pressure sensor:** measuring pressure in the silo

▶ ANTI-BRIDGING DEVICES



▶ **Vibrating bin aerator:** to ease the flow of the material with light pressures



▶ **Bin activator:** vibration of the bottom of the silo for extraction



▶ **Air cannons:** high rate air injection



▶ **Bridge breaker hammer:** to avoid arches

Safety



Relief valve
Safety device to avoid rises of pressure



▶ **LADDER WITH SAFETY CAGE AND GUARD RAIL**
To secure access to the roof of the silo



▶ **EXPLOSION VENT**
To release the energy generated by the explosion
The sizing of the vent surfaces is determined according to the MIE of the material and the storage volumes.



▶ **PNEUMATIC CONVEYING PIPING**
Connection for tank truck or pneumatic conveying line



▶ **EXPANSION CHAMBER**
End point of pneumatic conveying system feeding the silo
The expansion chamber allows stopping the speed of the material when it arrives into the silo. The product falls as rain and prevents abrasion of the walls of the silo.



▶ **SILO FILTER**
Separating the material from the air flow
The filter cleaning is automatic according to the pressure difference. ATEX and/or food grade versions are possible.