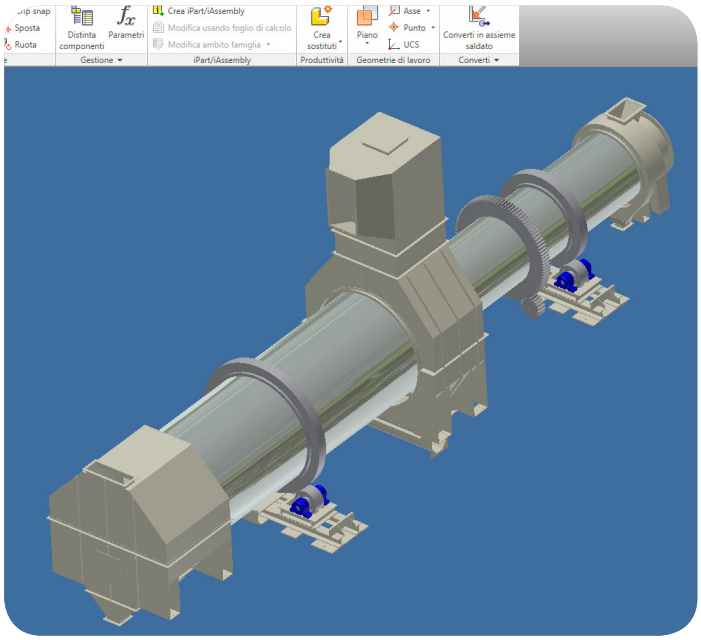
PROJECT RECIFE, BRAZIL

The technology of Minerali Industriali used by a glass factory: wet treatment plant for sands and dry treatment plant for feldspar, limestone and dolomite

Overview

The project, located in the northeast of Brazil (State of Paraiba, near the city of Joao Pessoa and Recife), consisted in the construction of a wet plant for the treatment of sand and a dry plant for the treatment of feldspar, limestone and dolomite for a float glass producer.
The construction, installation and start-up lasted about six months, after which the customer was able to use technologically advanced facilities equipped with high automation that makes it very simple to use them.



The customers' requirements

The aim was the production of four types of materials according to precise grain size, chemical specifications and heavy refractory minerals.
The need for high output capacity has required a high degree of design, developed in about three months, using special software for technical drawing.
The staff, during the assembly, was trained by participating in an in-depth training course, which took place in the plants of Minerali Industriali in Tunisia, Italy and Brazil, and thus acquiring the necessary knowledge to be able to operate even during the start-up.

Design and Supply

Installation and Start-up

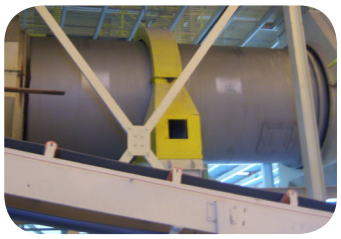
Automation

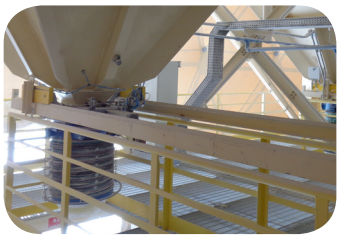
MINERALI INDUSTRIALI

Mining solutions and ore dressing

Dry plant

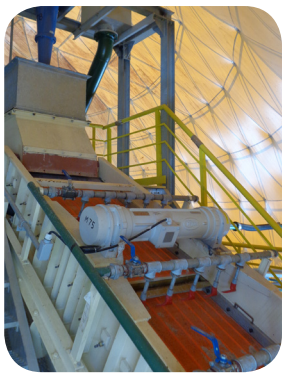
The dry plant can treat about 30 t/h of feldspar, limestone and dolomite, with a potential production of 180 thousand tons per year.
The material is crushed, ground and screened several times.
Dust from grinding is aspirated and contained by appropriate filters in order to maintain a safe and clean working environment.
The storage of the material is done in specific silos in order to avoid possible external pollution.
The entire process is automated and controlled from a computerized workstation, even remotely.





Wet plant

The wet plant is used for the treatment of silica sand and has a capacity of 70 t/h, with a potential production of 400 thousand tons per year.
The finished product must comply with strict chemical, grain size and heavy refractory minerals specifications and must not exceed a certain level of humidity.
To achieve these objectives, we installed attrition cells, spiral classifiers, vertical spirals, screens, control sieves, a tubular mill and a draining floor in the storage area.
A series of pumps and belts allow the transport of the material in each point of the plant.
The entire process is automated and controlled from a computerized workstation, even remotely.



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