ATEX crushing plant

for the chemical industry

Mechanical engineering **Realizations** **Cabling** **Machines**

This crushing station is used **to break up the powder agglomerates** of a product in order to facilitate its discharge into a reactor.

Crushing consists of a mechanical operation of **driving a tool into the material** to be treated. The movement is carried out using 4 pneumatic cylinders with a total thrust of **24,000 N**. A counter-pressure and its associated piloting prevent jolts of movement.

The bell covering the drum during treatment has a double function: counterweight to hold the drum and suction hood to contain volatile dust.

A door system at the entrance and exit **isolates the hazardous area**.

The station houses a conveyor system (not included in the CEREST supply) allowing the barrel to be moved.

Particular care was taken during the design **to limit the areas of material retention and facilitate the cleaning of the installation.**

The whole machine is designed to meet the **requirements of machines in explosive atmospheres (ATEX 2/22).**

SPECIFICATIONS :

- **ATEX 2/22**
- **For standard 200L drums**
- **24,000 N thrust in pneumatic**

Reference : 3502

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