

Turbo SpiNN Dryer



Paste to powder in one easy step...

50 to 1500 kg / per hr. water evaporation



**CYBERNETIK
TECHNOLOGIES** PVT. LTD.

Turbo SpiNN Dryer

Cybernetik Technologies introduces the newest product in its range of innovative solutions for the chemical industry. The new TURBO SpiNN dryer offers unmatched operational economy at an affordable price. The TURBO SpiNN dryer is used for conversion of filter cake to fine powder in a single step, eliminating the conventional tray drying, milling and classification route. Cybernetik Technologies further supports this dryer with integrated feed automation, product batching, AEROMiX blending and packing lines.

TURBO SpiNN TECHNOLOGY

The new TURBO SpiNN dryer represents significant advances over older generation dryers. The specific areas of New Technology are Computer designed TURBO SpiNNer, Triplex lump breaker, helix feeder system, safety and controls. All the subsystems offer exceptional operational reliability.



HOT AIR GENERATOR

Hot air generator has a generously sized heat transfer area. The Combustion chamber is constructed out of SS 310/304 with selectively clay lined flame contact areas. An imported "Weishaupt" burner with high fuel efficiency is used to provide combustion. The hot air generator is provided with a fresh air filter, cleaning vents, gravity explosion door and comes complete with insulation. Variants such as direct fired or electric type hot air generator with similar features are also offered.

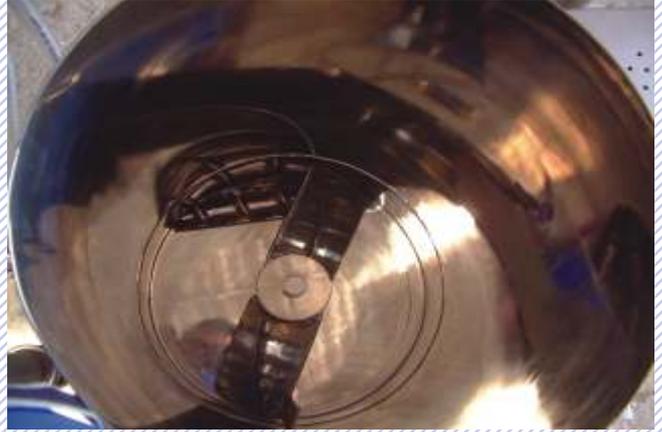


MAIN DRYER

The TURBO SpiNN dryer comes with state of the art drying section with a precision balanced TURBO SpiNNer mounted on rugged spherical roller bearings. The alloy shaft features an aluminum heat slinger which keeps the bearings cool and eliminates the need for water jacketed bearings. The design incorporates easy disassembly of rotating parts without any major dismantling. The dryer comes with features suitable for all add on options such as CIP systems. Explosion vent and an emergency sprinkler systems.

CAKE FEED SYSTEM

The TURBO SpiNN Dryer features triplex lump breaker close coupled to a specially designed helix feeder mounted on a pullout trolley arrangement allowing for easy cleaning. The drives for lump breaker and screw feeder are suitably located for easy maintenance.



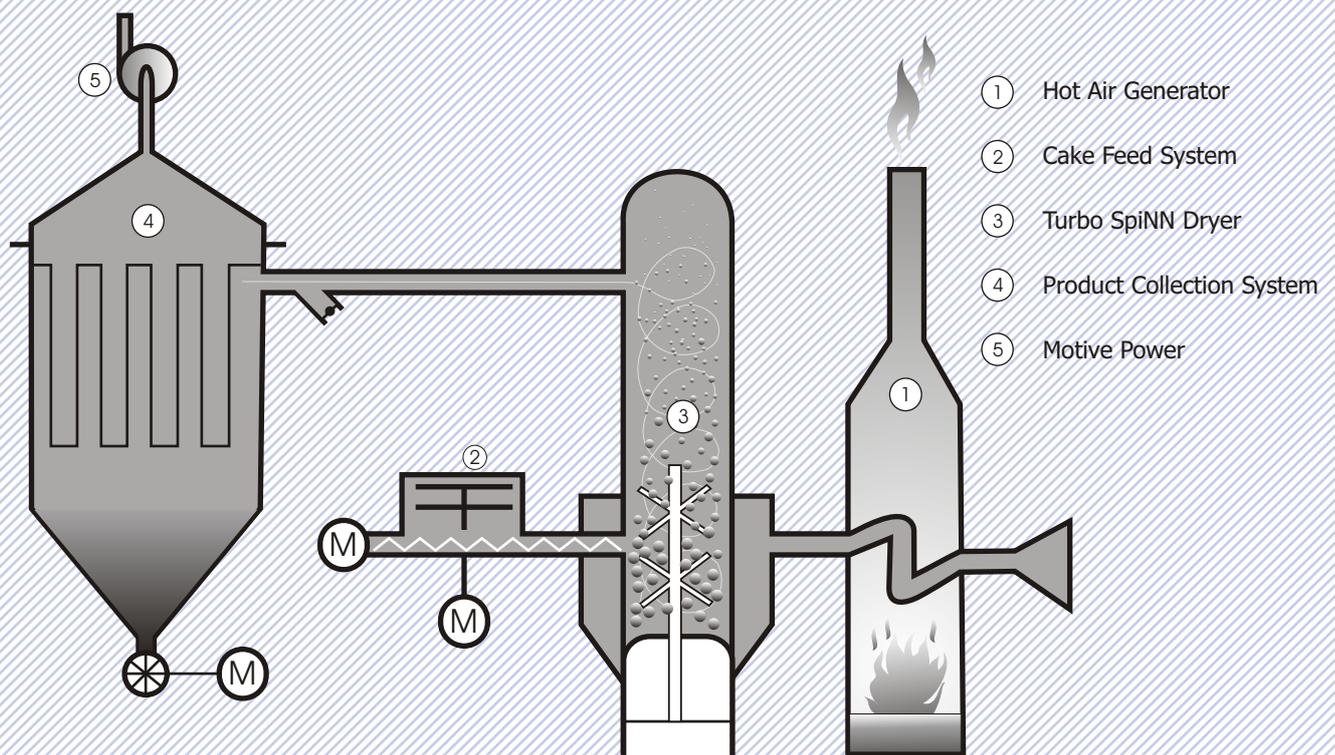
PRODUCT COLLECTION SYSTEM

Generously sized, cyclonic entry Bag Filter System is used for powder collection. Filter Bags are cleaned using proven reverse pulse cleaning technique. Powder Hoppers are designed for smooth flow of collected powder from bottom discharge outlet. Bag filter is equipped with safety controls to detect abnormal pressure and temperature. In case of products with high energy values, rapid shut down system/ explosion vent panels are provided.

ABOUT TURBO SpiNN DRYING

The TURBO SpiNN dryer utilizes the energy of hot air and the micronizing action of specially designed SpiNNer to convert wet feed material into fine dry powder. The dryer consist of feed system with specially designed triplex lump breaker and helix feeder to feed the filter cake into the dryer at a controlled rate. The high speed SpiNNer shears the material off the feeder tube and dynamically mixes it

with hot swirling drying air. As the bigger particles are broken down into smaller particles by the SpiNNer, TURBO SpiNN drying takes place. An air classifier on top of the dryer then separates the required size fraction for transport to the product collection system consisting of cyclonic bag filtration system. The product is collected in the hopper below and discharged through a rotary valve.



TURBO SpiNN DRYING



SAFETY SYSTEM

Safety comes first in Cybernetik Technologies products. TURBO SpiNN dryer comes with safety controls which monitor dangerous temperatures and pressures at all times. In case of abnormal conditions, dryer is placed in safe mode with energy source modulated to off position. Further, a unique cold air vent/ sprinkler system is provided to rapidly cool the dryer and bag filter.

TYPICAL TURBO SpiNNED PRODUCTS

- Ceramics and Clays
- Dyestuff
- Pigments
- Inorganic Chemicals
- Zeolites
- Kaolin
- Industrial Waste

Call Cybernetik today for enquiry.
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