



The Future of Spray Drying

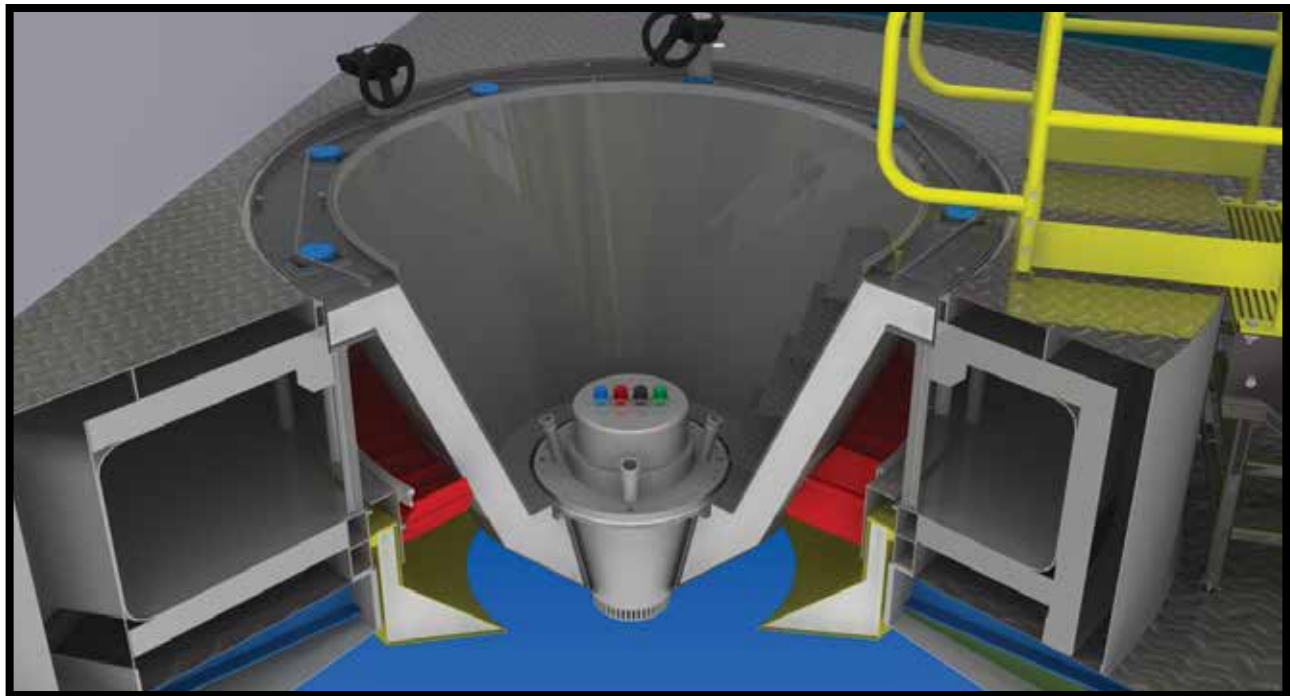
Dedert continues its long history of product innovation in industrial process equipment with the development of an advanced rotary atomizer for spray dryers, an adjustable air distributor, and a range of resealable flat and curved explosion venting doors. The design and operating features of these devices are outlined below.



MSM-250 Magnetic Spray Machine

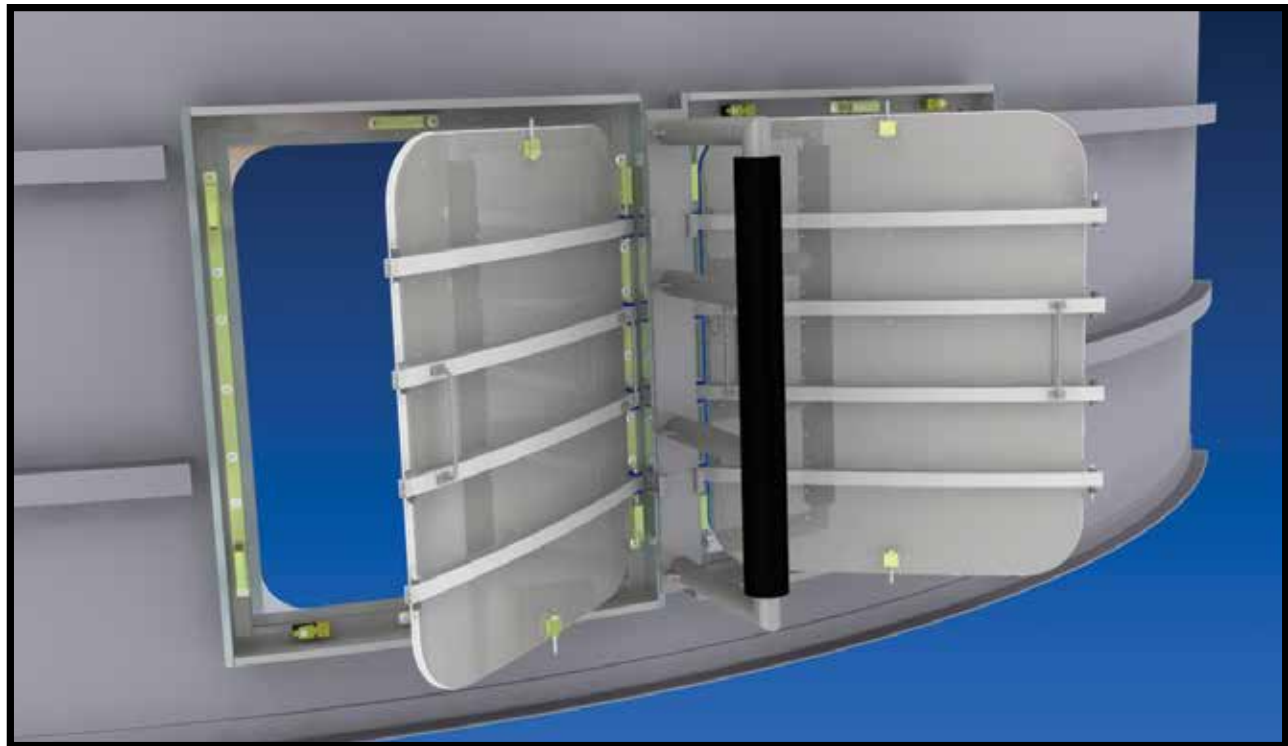
Direct-drive atomizer with magnetic bearings

- 250 kW permanent magnet motor
- Requires no lubrication system
- Capable of high disc peripheral speed
- PLC based control and monitoring interface
- Remote technical support via panel PC
- 360° rotatable atomizer maintenance stand
- Two year complete warranty
- Patented



Air distributor with adjustable air velocity cone and swirl vane angle (Patented)

- Externally adjustable process air velocity range at the disc of between 4,000 to 10,000 fpm
- Externally adjustable process air swirl vane angle of between $\pm 30^\circ$ from vertical
- Allows for optimization of chamber air and particle flow characteristic to keep roof and walls free from product build-up
- Allows for variability in air flow patterns whenever a spray dryer is configured to operate with either rotary and nozzle atomizers



Explosion venting doors

- Sanitary style doors are insulated, hinged, curved or flat and flush to the interior wall
- Aluminum construction with stainless steel interior skin
- Adjustable spring release latch force
- Unique hinge mechanism prevents gasket shearing
- Dual gaskets for air and water tight sealing
- NFPA-68 compliant



Control & utility panel



Maintenance stand



Variable speed drive



Atomizer test facility

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