

EKATO RMT

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EKATO SEA FOR FGD

EKATO Side Entry Agitators For FGD Applications

The most common agitator for small and large absorber tanks worldwide



Available with motor powers up to 90 kW and impeller diameters up to 2 m. For small and large absorber tanks $> \varnothing 25$ m in wet FGD plants.



EKATO WINGJET

offers increased pumping rates, power savings, integrated wear resistance, a long lifetime and reduced maintenance costs.

EKATO Shut-off Device

The shut-off device guarantees a quick, reliable and safe mechanical seal change without leakage.

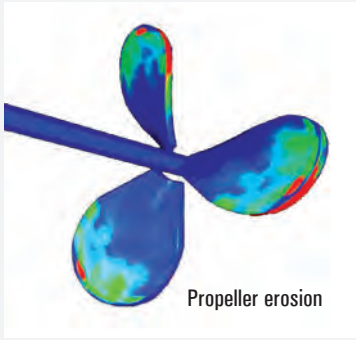
EKATO ESD 42

This cartridge type mechanical seal especially designed for FGD side entry agitators features long lifetime and easy maintenance on-site. This seal does not require a seal supply system or flushing.

EKATO HWL 2000-N Side Entry Agitator

The most common side entry agitator drive for FGD absorbers. Motor powers up to 90 kW are available.

Advanced Process Solutions



Propeller erosion



WINGJET erosion

Comparison of areas exposed to wear on blade tips

EKATO WINGJET with integrated wear resistance

The EKATO WINGJET has been especially developed for use in absorbers of flue gas desulfurization systems. It offers the following advantages: The »winglet« suppresses vortexing around the tip of the blade. This provides a reduction of impact erosion, longer operational life and reduced maintenance costs.

CFD optimized geometry:

The unique blade shape and pitch of the blade produces increased pumping rates and dramatically reduces vortex generated impact erosion. The impellers are constructed of abrasion resistant cast materials. The materials selection is based on specific process conditions (pH values, chloride concentration and the concentration of solids).



EKATO gassing system

in flue gas desulfurization plants. The trend-setting EKATO technology determines the worldwide standard in this area of applications.



The task

Improve the mass transfer of oxygen into the slurry for the oxidation of calcium sulfite to gypsum. Suspend lime stone, calcium sulfite and gypsum slurries with a solids concentration up to 30% by weight. Increase the operational life of the impeller thus reducing maintenance costs.

The EKATO solution

The amount of oxidizing air can be considerably reduced so that smaller compressors are adequate. When the power station is not operating, the air can be turned off since the lances do not plug.

The air dispersion capability is increased, which leads to fewer agitators for applications involving high sulfur coals, resulting in lower capital and operating costs.

Increased mass transfer by efficient predisposition of the oxidation air. Capital investment and operational savings result because less agitators are required.