A TEC Tertiary Air Duct Gate

RELIABLE FOR TOUGHEST JOBS

An effective and accurate control of combustion air for the calciner in a modern clinker production plant is essential to meet controlled product quality, steady state operating conditions as well as to meet the required emission limits. For economic and ecologic reasons, preheated, tertiary air from the clinker cooler is used. Air fow regulation devices (gates), which can be loaded with clinker dust, are exposed to the rough conditions that are present at extremely high temperature.

Therefore tertiary air duct gates suffer under these conditions and end up in high maintenance effort to maintain proper operation.

A TEC Tertiary Air Duct Gates are specially designed for these conditions to minimize wear and maintenance. The blade, which is affected by the highest stress, is specially designed to minimize internal stress and cracks by temperature changes. This is realized by using a monolithic ceramic with a hexagon mesh on both surfaces.

Prior to the delivery, the carrier material for the ceramic is tempered to reduce additional thermal stress. This system eliminates problems due to steel expansions and leads to less sensitivity against temperature changes and pressure fuctuations. Another focus is set on easy maintenance work, which is realized by generous inspection openings. The blade can be replaced at the installed gate at site.

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The A TEC Tertiary Air Duct Gate is a completely closed system: The used chain drive ends at a rod that is connected to the blade. The chain drive solution has shown itself to be a very robust solution against effects of dust and heat. The rod is sealed the housing by a gland packing. This ensures a dust free operation.

- Simple chain drive, can be located also on the next main level
- **Robust, reliable** design
- **Easy access** to the blade
- Blade design: monolithic ceramic with a hexagon mesh on both surfaces
- New: **closed housing** (no dust to environment)
- Including maintenance plat form and ladder if required