



REFRESH, UPGRADE, PERFORM

Kiln improvements

CONSUMPTION OPTIMIZATION KIT

SACMI for energy savings

The combustion system is divided into macro-zones (the number of which depends on kiln length), each of which heats a specific kiln zone: pre-heating, pre-firing and firing. The operator panel can be used to adjust air flow to burners in specific zones according to recipe, product and kiln conditions. Maximum efficiency is obtained by combining this modification with high speed burners and an oxygen analyzer to optimize combustion under all conditions and, consequently, optimize product quality and consumption. The modification is applicable to all fixed-air kilns.



Optimized consumption
management

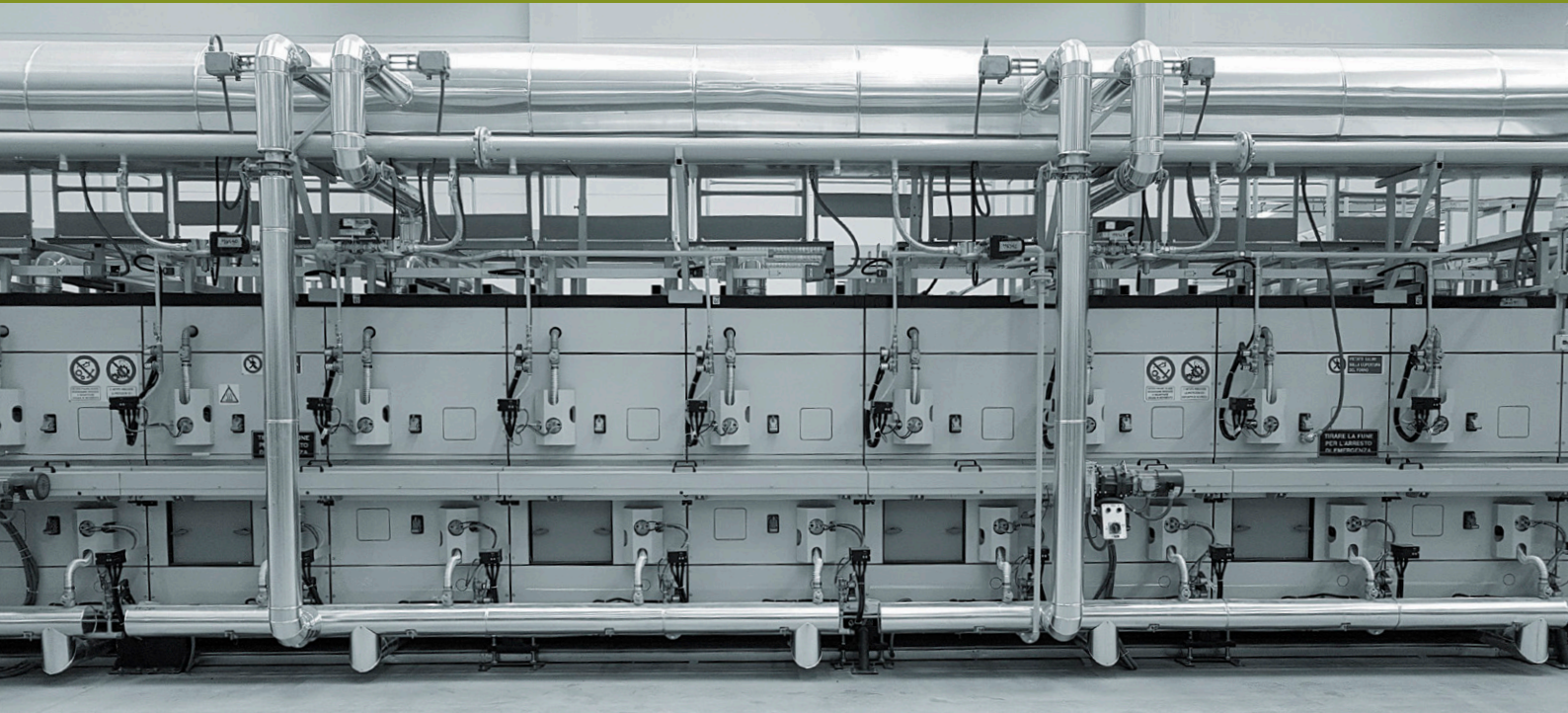
ADVANTAGES

- Flexibility: volumes can be set according to the product
- Consumption optimization
- Less consumption if there is a gap in production
- Division into independent macro-zones
- Consumption reduced by 2 - 8%



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Technical features

The combustion air circuit is modified to create fuel feed macro-zones (the number of which depends on kiln length). Each macro-zone is, in turn, sub-divided into an upper branch and a lower one and each branch has a motorized valve connected to a pressure transducer. The system is completed with installation of an inverter on the fan and a pressure transducer on the main duct to keep circuit pressure stable under all operating conditions.

The system is managed via a control panel, ensuring repeatability of settings and letting the user differentiate opening in the different zones according to production requirements. In the event of a gap in production, valve aperture can be adjusted to a pre-defined setting.

