

ENERGY REDUCTION CONCEPTS BY LINGL
READY FOR FUTURE



**CLAY INDUSTRY
DECARBONIZED**
WORLDWIDE



Burner group on a LINGL kiln

ENERGY OPTIMISATION MEASURES

TUNNEL KILN

- Decoupling of kiln and dryer
= minimisation of hot air extraction
- Longer heating and cooling times
= long heating zones, long cooling zones
- Preheating of the combustion air
- Improvement of convective heat transfer by the use of recirculation
- Minimising the storage heat of the kiln cars
- Improvement of sealing at doors, undercar area, ceiling and wall passages
- Optimisation of wall and ceiling insulation
- Exhaust gas heat exchanger to utilise the energy from the flue gas incl. bag filter
- E-heating coil: preheater, recirculation, drying chambers

Let our experts advise you!





CONSULTING

Our team of experts will be delighted to introduce you our innovative energy concepts. By means of a process analysis, each concept is elaborated and customer-specific and shows you the the best possible saving potentials! We offer our customers a wide range of services, from raw material analysis, on-site measurements and a computer-assisted analysis and model calculation. We provide our customers with a comprehensive range of services to optimise their process engineering procedures. In addition, we show you various possibilities for the use of alternative energy sources.

We are ready for the future - and what about you?



Flue gas heat exchanger



Flue gas heat exchanger

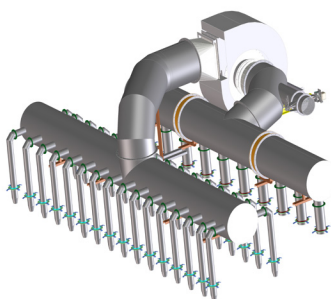
ENERGY OPTIMISATION MEASURES

DRYER

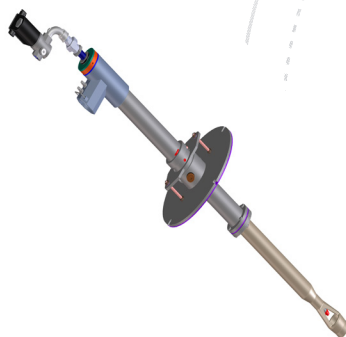
- Minimised hot air from the kiln
- Each double chamber is equipped with an electric heating coil
- Each chamber has external circulation installed on the ceiling, in conjunction with a radial fan and electric heating coil
- Internal circulation is achieved with rotary fans in the central duct

Increase your energy efficiency with LINGL!

BURNERS AND BURNER GROUPS USED



Flue gas recirculation



Lingl-Pure-Gas-Injector-Burner (LRGIB)



HG-Burner

ALTERNATIVE ENERGY SOURCES

WE SHOW YOU POTENTIAL SAVINGS!

- **HYDROGEN FROM RENEWABLE SOURCES**
- **BIOGAS - BIOMETHANE**
- **ELECTRICAL ENERGY FROM RENEWABLE SOURCES**
- **DRYING WITH AMBIENT AIR**

**PRODUCING THE FUTURE
WITH TRUE ENERGY EFFICIENCY**



LINGL.COM

Lingl Anlagenbau GmbH

Nordstraße 2

D-86381 Krumbach

T +49 8282 825 0

E lingl@lingl.com

www.lingl.com