aixprocess

established 2001 from Aachen University of Technology by Dr. Martin Weng, Markus Hufschmidt

located in Aachen / Germany international partner network

+20 YEARS EXPERIENCE +500 CUSTOMERS

+1000 COMPUTATIONAL ENGINEERINGS





MATTHIAS SCHUMACHER

Birector of Cement Technologies



DR. MARTIN WENG

Managing Director

CONTACT US

\(+49 241 41344920

in aixprocess-gmbh

Alfonsstraße 44, 52070
Aachen, GER





KILN AlxperT

The Digital RealTime Optimiser

Cement Expertise meets Al

The KILN AlxperT

...combines cement kiln process expertise with cutting-edge AI and real-time simulation tools to deliver continuous Process Performance Optimisation



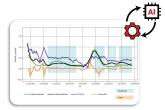


The KILN AlxperT Optimisation Philosophy

- **KILN Housekeeping**Process Engineering
 - Process Audit
 - Digital Readiness Housekeeping
 - Digital Roadmapping



- FUEL AlxperT Predictive Stabiliser
 - Fuel Feed recommendation
 - Quick detection of fuel disturbances
 - KILN stabilisation



- **KILN AlxperT**Real Time Optimiser
 - Closed or Open Loop Operations
 - Stable and in-spec clinker production
 - Smart Sensor Data









- Robust and highly adaptive operations by Al and first-principle models combined in aixprocess patented Grey Model approach
- Targeted, predictive interventions instead of reactive actions managing the processes effectively without overreacting
- Transparent soft sensor data and AI setpoint recommendations, giving operators deep insights, traceability, and enhanced process awareness
- 20 years of process engineering expertise embedded in a smart, always-available AI Tool
- Online heat and mass balance, updated every 30 seconds
- RealTime CFD with alternative fuel combustion, updated every 10 Minutes



REDUCTION in SHC



REDUCTION in FCaO variability

50%



REDUCTION in Fuel Cost



10%

INCREASE in TSR