

**aixprocess** *The ModeliNG Company*

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



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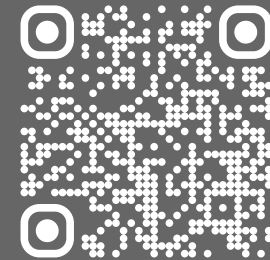
# MILL **Ai**xperT

The Digital RealTime Optimiser

Process Expertise meets **AI**

# The MILL AIxpertT

...combines deep comminution process expertise with cutting-edge AI and real-time modelling tools to deliver continuous grinding process optimisation.



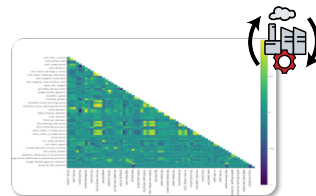
Learn more



## The MILL AIxpertT Optimisation Philosophy

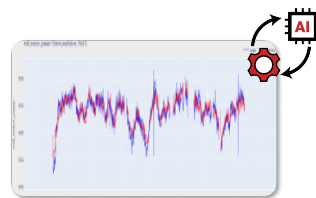
### 1 Data Engineering Potential Analysis

- DCS & Sensor Assessment
- Digitalisation Readiness Check
- Benefit estimation



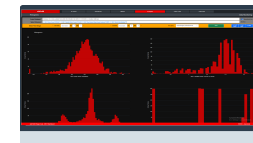
### 2 MILL AIxpertT Engineering

- Hardware & Connectivity
- Machine Learning & Data Clustering
- HMI adaptation



### 3 MILL AIxpertT Real Time Optimiser

- Set point recommendations
- *Open-loop* or supervised *closed-loop* operation
- Continuous Optimisation



- ✓ Robust and high adaptive operations by AI and first-principle models combined in aixprocess patented Grey Model approach
- ✓ Real-Time predictions allow for continuous interventions instead of reactive actions - stabilising the mill effectively without overreacting
- ✓ Easy to use UI with DCS and soft sensor data giving operators deep insights and enhanced process awareness
- ✓ Dashboards providing high data availability and analysis
- ✓ 20 years of process engineering expertise embedded in a smart, always-available AI Tool
- ✓ Continuous Optimisation via set point recommendations in *open-loop* or supervised *closed-loop* operation



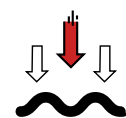
REDUCED  
Vibrations



**5%**  
REDUCTION  
in Specific Energy  
Consumption



**10%**  
INCREASE  
Throughput



REDUCED  
Water Consumption