

# Intensive Cooler

Efficient cooling of molding material

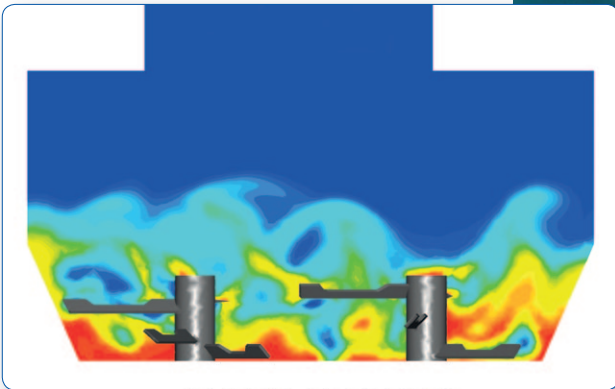


*Integrated sand/air separation  
No more cyclone needed!*

# The EIRICH Intensive Cooler: efficient and

*EIRICH as market leader in clay-bonded molding material preparation presents with the intensive cooler a new development in the field of evaporative cooling.*

## CFD analysis of the EIRICH Intensive Cooler System



High-end simulation of molding material concentration (cross section profile)



### **The intensive cooler is the perfect complement for every molding material preparation plant**

The EIRICH Intensive Cooler provides maximum efficiency in molding material cooling and pre-mixing with high reliability and low operating costs.

It can be integrated as a single unit in any preparation plant with an independent control system.

### **Just ask us.**

We also have the right solution for you. Whether it's new construction, conversion or modernisation.

### **The intensive cooler as a stand-alone unit.**

**No problem – we make it possible.**

# reliable

## Main features and functions

- Two independent power mixing tools, no synchronization required
- Optimized airflow designed with the aid of high-end computer simulation technology
- Intelligent molding material retention system (without cyclone) integrated in the machine
- Moisture measuring by EIRICH system with resistive humidity sensors
- Water dosing in six intensity levels
- Power fan for intensive cooling in difficult ambient conditions

## Advantages

- Advanced mixing tools based on the proven EIRICH intensive mixer system
- Intensive premixing effect
- Compact design
- Main components encased in the machine housing
- Main motors and bearings from brand suppliers (SEW, ABB, FAG etc.)

## Low maintenance by

- Automatic lubrication system
- Rotation connecting system for moisture sensors outside of the mixing chamber
- Large inspection doors
- Wear plates at the bottom and side wall
- Easy exchange of wear plates and mixing tools
- Diagnostic system for power train (option) allows preventive maintenance

## Control

- Control system with SIEMENS components
- PLC and visualisation with error indication
  - ✓ as stand alone version with independent control system and visualisation system
  - ✓ or integrated in the EIRICH plant control system

**High-performance cooling with an input temperature of the incoming moulding material of 100 °C to cooling to 45 °C at an ambient temperature of 25 °C. Moulding material moisture setting of 2.0 % (+/-0.2 %)**

Type of cooler	Molding material throughput [t/h]	electrical power tool [kW]	electrical power blower [kW]	Exhaust air (incl. 15 % supply air) [m <sup>3</sup> /h]
CM2	65	44	30	18700
CM3	90	60	45	25900
CM4	130	90	55	35900
CM5	185	110	75	51800

## Industrial Mixing and Fine Grinding Technology

### Tradition and innovation since 1863

EIRICH stands worldwide for a comprehensive range of products and services in the field of preparation technology. Its particular focus is on mixing and fine grinding technology, with know-how developed over 150 years of close cooperation with industrial users, universities and research institutions.

Pursuing a corporate philosophy of operating internationally and thereby ensuring close proximity to every customer, the EIRICH Group has secured its place in all the key economic regions of the world.

The focus is on innovative technology for machinery and systems engineering designed to offer solutions for high-standard preparation tasks from a single source.

Applications and process technology with own test centers, a high vertical range of production and comprehensive after-sales service provide the ideal basis for the development of modern and economical processes for a multitude of industries.

**Building materials – Ceramics – Glass – Carbon paste – Battery paste  
Friction linings – Metallurgy – Foundries – Environmental protection**

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