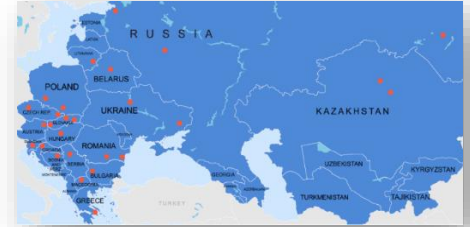


Solutions for Cement Industry

ECM Group, in close cooperation with leading manufacturers of analytical technology, supplies instrumentation solutions for monitoring particles, gases and liquids. Since 1991, ECM has been operating in several countries in Central and Eastern Europe and Kazakhstan.



Rotary kiln

Probes for sampling from cement kilns

In cooperation with the partner company Enotec, we offer water-cooled sampling probes. Periodic rotation of the probe prevents the probe from settling and bending. The inside of the probe is automatically cleaned by a return blower and also by mechanical cleaning of the probe mouth by means of a retractable piston. O₂ sensors can be built into the probe. An analytical system in an air-conditioned instrument cabinet, connected to the probe by means of a heated line, is used to monitor CO, NO_x, SO₂, CH₄ and others.



Fire prevention

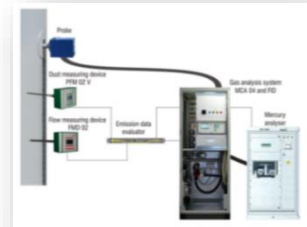
Monitoring of O₂ and CO to maintain the safety of operation in mills, preheaters and calciner

Compact monitoring systems are used to detect dangerous smoldering that could cause a fire in a timely manner.



AMS – Emission monitoring

Automatic monitoring stations for pollutants in flue gases comply with Directive 2010/75 / EU on industrial emissions, according to Commission Decision 2013/163 / EU on BAT techniques, as well as STN EN 17255-1 / 2019, STN EN 17255-2 / 2020, STN EN 14181 / 2014.



Filters

Monitoring systems for the identification of defective filter elements, for the effective control of the cleaning of filter systems and the identification of leaks in air distribution systems



Flow of polluted hot air

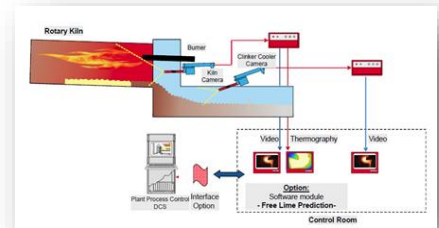
Monitoring the flow of air with a high content of coal powder, limestone or cement in air ducts with a temperature of up to 1000 ° C. The devices work on the triboelectric principle.



Thermography

Thermography for the analysis of temperatures in the furnace and zinc cooler

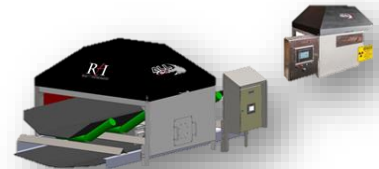
The system uses air or water-cooled probes with automatic ejection in the event of a power or cooling failure.



Mineral analysis

Elemental analysis of minerals for sorting limestone from quarries and for dosing additives into the material transported to the mill

The devices use PGNAA analysis and chemometric interpretation of the concentration of monitored minerals.



Flow of minerals and loose substances

Contactless flow monitoring of loose materials

Capacitive and microwave monitoring of mass flow, flow rate and indication of movement of loose materials



Moisture of products and alternative fuels

Humidity monitoring using microwave, capacitive, or optical measuring principle.



For detailed information on any solutions of your interest we are gladly available on our below contact:

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