

Analytic Solutions for Foundries and Metallurgy



Gases

- *O₂, CO, CH₄ and H₂ concentration in furnace and coke gases*
- *Combustion process optimization*
- *Blast furnace blowdown monitoring*
- *Inertation process monitoring*
- *Flow of coke, furnace and flare gases*
- *Claus process monitoring*
- *Industrial gas purity*
- *Monitoring of HF in aluminum plants*



Liquid monitoring

- *Hydrocarbon leakage monitoring*
- *Pickling bath, emulsion control in rolling mills*
- *Galvanization monitoring*
- *Waste water treatment processes*
- *Liquid analysis for copper and other metallurgic processes*
- *Foam height on conductive and dielectric liquids*



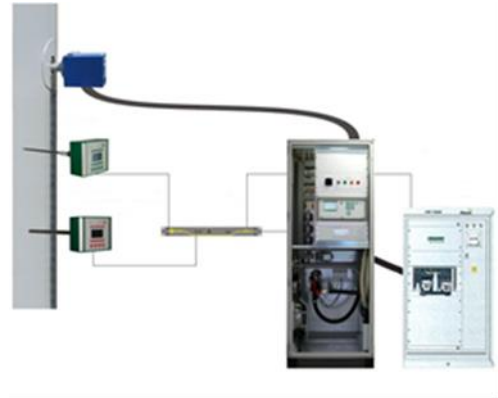
Particle monitoring

- *Identification of failing filter sleeves*
- *Performance of filtration systems*
- *Working area dust monitoring*
- *Dust emissions*



Environment and working area

- *Continuous Emission Monitoring Systems with QAL1 cert due to EN14181*
- *Ambient air and fence line monitoring*
- *Toxic and flammable gases in working area*
- *Gas detector calibrators and bump testers with internal gas generation*
- *Testing of breathing protection*
- *Waste water sewers, effluent and wwtp monitoring*
- *Dust monitoring in working area*
- *Dispersion modelling for hazardous leakages*



Others

- *Complex systems for monitoring of blast furnaces, steel plants, foundries, coke plants, aluminum, copper and other metal productions*
- *Monitoring of recycling processes*
- *Roller plant monitoring systems*
- *Lubrication oil monitoring for large gears*
- *On-line monitoring of ore and coal composition*
- *Flame detection*
- *Combustion process optimization*
- *Heat tracing and fittings*



ECM is offering consultancy, engineering and key turn delivery including sampling systems and data connection.