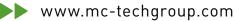


# Metallurgical & Steel Industry.

One of M&C's Core Markets. Since 1985.





### **v** Focussing On Your Key Challenges

Gas analysis is an important tool in the process management of steel and metals industries - from furnace and conversion processes, to casting, finishing and rolling mills. Associated processes are energy distribution, sintering and decoking production. The main function of process control is to optimize the whole process with regard to energy and material usage as well as product quality. Important parameters for this are:

- Evaluation and management of a production process
- Influence of measured parameters on key operational performance
- Critically important gas compositions i.e. for energy consumption (fuel/air ratio)
- Risk and hazard management associated with toxic gases
- Knowledge of reaction yield through by-product analysis
- Information about corrosive gases for plant asset protection
- Gas emissions from raw materials, caused by contaminants in the ore, which need to be measurable, i.e. sulfur dioxide







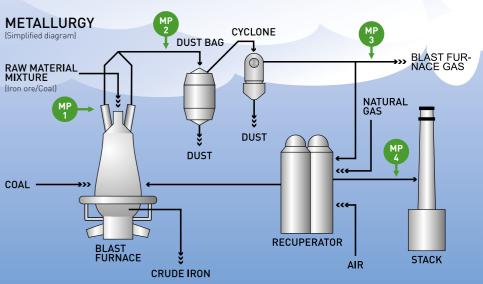
### M&C Product Performance

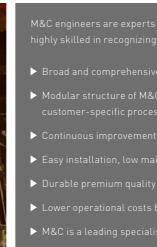
- Fulfilment of all requirements for cooling
- Management of water vapor and acid dew points
- Associated optimization of sample gas pumps

# Experts in Steel industry

- Steel plants with experience of all site requirements are one of the core markets of M&C since 1985.
- M&C successfully supplies single products and emission monitoring systems and process gas analyzing systems for more than 35 years.
- M&C's customized activities include worldwide experienced technical consulting and highly qualified technical service.
- Activities involve very challenging applications for blast furnace, direct reduction. converters, electric arc furnaces.

### METALLURGY (Simplified diagram)







## Additional Customer Benefits

- Broad and comprehensive range of products with a wide variety of configurable options
- Easy installation, low maintenance, safe and reliable operation
- > Durable premium quality products and systems with cost benefits because of extended life cycles



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