<u>**MES specialist supplies solution for the increasingly complex requirements of casting companies**</u>

MES from iTAC for the foundry industry: Monitoring and documentation of complex manufacturing processes

<u>**Montabaur, 10. November 2018**</u> **– The German foundry industry is not only being confronted with greater international competition, but is also facing ever more complex requirements where quality and product serialisation are concerned. MES specialist iTAC Software AG (www.itacsoftware.com), with its iTAC.MES.Suite functions specially tailored to the industry, enables the monitoring and documentation of casting processes through to one-off products. It is practically impossible to attain the high quality standards that apply in the industry without using such a manufacturing execution system.**
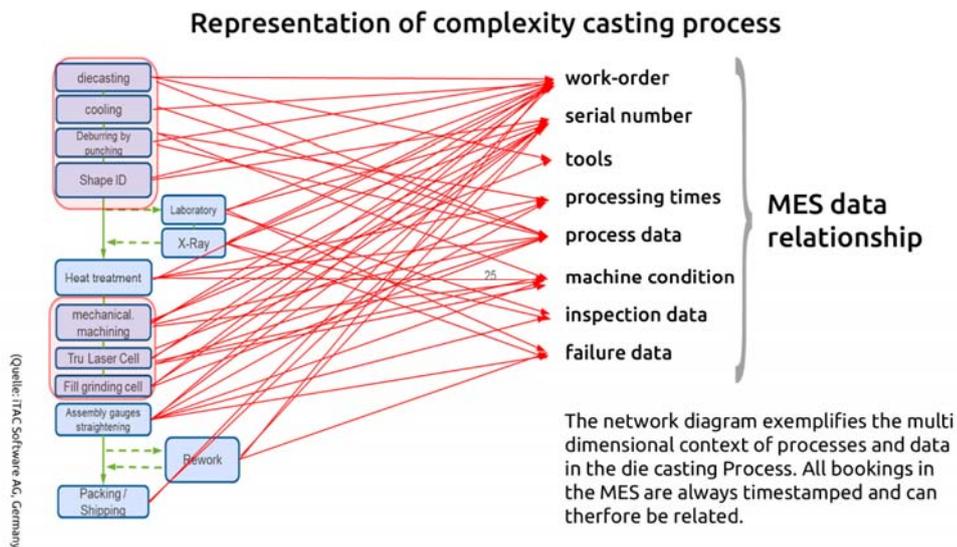
"We are seeing a greater demand from manufacturers who supply cast solutions in aluminium, magnesium and iron for the automotive and other industries. For instance, motor casings and gearboxes are becoming increasingly complex, and it is necessary to take more and more technical dependencies into consideration – while at the same time maintaining maximum precision. This is just one example of why casting processes require MES-based controls and quality assurance," says Peter Bollinger, CEO of iTAC Software AG.

The iTAC.MES.Suite is designed to meet the specific requirements of the industry. It monitors and optimises the entire casting process, and in doing so ensures a reduction in error rates and reject products. iTAC's MES integrates the entire manufacturing process, from the casting and mechanical processing through to the laboratory controls and shipping. In addition to the standard MES functions, the suite incorporates various special features for this industry. For example, a so-called "birth block" can be carried out. This means that if a defect is detected, but the casting process cannot be stopped, the corresponding cast parts are directly blocked at the serialisation stage, i.e. at "birth".

Further processing can then only take place subject to a subsequent quality inspection. Conversely, shipping of the products without being released by the MES is impossible.

As well as recording machine and labour times, the process times are also monitored, and the process itself is controlled based on parameters. Alongside the parts history with measurement and process data for one-off products, an analysis of the process data for heat treatment, for instance, can also be conducted. These and other functions set iTAC's manufacturing execution system apart from other systems in the industry, and offer an end-to-end solution from the melting process through to the outgoing goods.

Number of characters: 2,699 (incl. spaces)

Representation of complexity casting process

iTAC.MES.Suite monitors complex casting processes at casting companies

About iTAC

iTAC Software AG, an independent company of the Dürr mechanical and plant engineering group, provides internet-enabled information and communication technologies for the manufacturing industry. Founded in 1998, the company is one of the leading MES providers in Germany. The iTAC.MES.Suite is a cloud-based Manufacturing Execution System that is used worldwide by companies in different industry sectors such as automotive manufacturers and suppliers, electronics/EMS/TC, medical technology, metal processing and energy. Additional services and solutions enable the implementation of Industry 4.0 and IoT requirements. ITAC's philosophy is connecting people, data and systems. iTAC Software AG has its headquarters in Montabaur (Germany) as well as a branch in the USA and a global partner network for sales and services. The Dürr Group is one of the world's leading mechanical and plant engineering firms. Products, systems and services offered by Dürr enable highly efficient manufacturing processes in different

industries. Business with automobile manufacturers and their suppliers accounts for approximately 60% of Dürr's sales. Other market segments include, for example, the mechanical engineering, chemical and pharmaceutical industries and the woodworking industry.

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