

press release

ArcelorMittal electrical steel data now available in the state-of-the art machine calculation tool JMAG

Berlin, 10 May 2016 – at the coil winding expo CWIEME, JMAG and ArcelorMittal announce today the availability of ArcelorMittal electrical steel data in the JMAG leading simulation software suite for electrical machines design. This offers a unique opportunity for electrical machines manufacturers to shorten the lead time of their new designs, reduce the number of prototypes, decrease their overall development costs as well as to give deep insights of physics in a machine for innovative designs.

“High quality material data is essential for our customers to make successful simulations. Obtaining genuine material information from leading steel manufacturers is one of the key-drivers of our strategy”, comments Dr Takashi Yamada, Product Leader, JMAG. “ArcelorMittal’s leading range of electrical steels, its geographical presence and its advanced engineering skills including material modelling for finite element analysis made it key for us to integrate them into our software.”

The two companies established their cooperation 2015. The new simulation data, integrated since then, allows a more efficient design of electric motors, generators and transformers.

“Among other applications, electrical vehicles development is going fast in Europe. Our electromagnetic steel data into the tool allows faster and more accurate simulations for applications such as hybrid cars or 100% electrical vehicles”, explains Sigrid Jacobs, portfolio director for electrical steels at ArcelorMittal Global R&D.

Furthermore, using JMAG fosters communication between manufacturer’s engineers and ArcelorMittal R&D specialists, who can assist them with advanced material characterization data, an in-house loss model and a number of expertise in areas such as mechanical behaviour, punching or machine assembly techniques.

Press contact: Arne Langner, arne.langner@arcelormittal.com, +49 221 5729 219

About JMAG:

JMAG is a comprehensive software suite for electromechanical equipment design and development. It is capable of quickly and accurately capturing the complex phenomena of electromechanical machines. JMAG is simulation software for electric device design and development. It accurately grasps complex physical phenomena inside of equipment and performs high-speed analysis. Since being released in 1983, JMAG has been used in industries and universities worldwide and has contributed to the development of thousands of products.

It is applied in: multiphysics simulations of motors, transformers, actuators, solenoids, induction heating, wireless power transfer, motor drives and converters. Industries include automotive, electric power facilities, home appliances and factory automation.

For more information about JMAG please visit www.jmag-international.com

About ArcelorMittal

ArcelorMittal is the world's leading steel and mining company, with a presence in 60 countries and an industrial footprint in 19 countries. Guided by a philosophy to produce safe, sustainable steel, we are the leading supplier of quality steel in the major global steel markets including automotive, construction, household appliances and packaging, with world-class research and development and outstanding distribution networks.

Through our core values of sustainability, quality and leadership, we operate responsibly with respect to the health, safety and wellbeing of our employees, contractors and the communities in which we operate.

For us, steel is the fabric of life, as it is at the heart of the modern world from railways to cars and washing machines. We are actively researching and producing steel-based technologies and solutions that make many of the products and components people use in their everyday lives more energy efficient.

We are one of the world's five largest producers of iron ore and metallurgical coal and our mining business is an essential part of our growth strategy. With a geographically diversified portfolio of iron ore and coal assets, we are strategically positioned to serve our network of steel plants and the external global market. While our steel operations are important customers, our supply to the external market is increasing as we grow.

In 2015, ArcelorMittal had revenues of US\$63.6 billion and crude steel production of 92.5 million tonnes, while own iron ore production reached 62.8 million tonnes.

ArcelorMittal is listed on the stock exchanges of New York (MT), Amsterdam (MT), Paris (MT), Luxembourg (MT) and on the Spanish stock exchanges of Barcelona, Bilbao, Madrid and Valencia (MTS).

For more information about ArcelorMittal please visit corporate.arcelormittal.com