



ArcelorMittal

news release

Blechexpo 2019 – 5 to 8 November, 2019/ Stuttgart / Hall 10 - booth 10412

Europe-wide carbon neutral by 2050

ArcelorMittal focuses on sustainable products and production processes

Stuttgart, 21 October 2019 – Sustainable products and innovative production processes: By 2050, the largest steel producer in the world wants to further reduce its ecological footprint in Europe and produce steel in a climate-neutral manner. Europe, with around 78,000 employees, a presence in 17 European countries and around 400 plants, is the continent in which ArcelorMittal has the strongest representation.

The main steps on the road to climate neutrality include the development of sustainable products and, at the same time, the change in production processes. While manufacturing is about avoiding, reducing, or using CO₂ for other products, the Group's products are driven by innovation.

At the Blechexpo from 5 to 8 November in Stuttgart, ArcelorMittal will be showing its current range of advanced products that enable the sustainable construction of machinery, plants and vehicles. "If we want to reduce the amount of CO₂ in the industry, we need to help our customers significantly increase the shelf life and longevity of steel products and make processing easier," says Jochen Grünwald, Managing Director of Flat Products at ArcelorMittal Commercial Germany. "This applies, for example, to the increased abrasion resistance, which relates to the weight reduction of steel with improved durability, which relates to the corrosion resistance of surfaces in extreme weather conditions and which concerns simpler processing such as improved weldability, which conserves further resources." For example, there are truck or excavator buckets that are in use for a longer time, cranes with lower weight, weather-resistant foundations for solar systems and cheaper washing machines. In addition, steel does not need to shy away from comparison to other materials. Because steel can be recycled up to 100 percent at the end of the life of the product. Grünwald: "The optimized products and improved processing lead to a significantly lower ecological footprint."

ArcelorMittal's product strategy goes hand in hand with new production concepts and the integration of renewable energy into the manufacturing process. One of the Group's most ambitious projects is the recently commissioned planning of a demonstration plant for the use of hydrogen on an industrial scale in steelmaking in Hamburg. The project is estimated at 65 million euros. More information about the project can be found here: <https://bit.ly/32rVhMA>



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For this reason, ArcelorMittal is presenting four products at the Blechexpo: Armstrong® Ultra, Relia®, Magnelis® and Jetskin®.

Armstrong® Ultra: longer lasting and stronger at the same weight

As a high strength steel for extreme applications, Armstrong® Ultra is a European high-end development that significantly reduces weight while maintaining the same strength. This means that payloads can be increased, that machines can become lighter, lower fuel consumption and easier handling, that higher loads can be moved and that production costs are reduced. This results in a variety of CO₂ savings.



Armstrong® Ultra: 40 percent lighter than conventional steel
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Armstrong® Ultra is a steel that contributes significantly to sustainable management.

Armstrong® Ultra offers high potential for manufacturers of construction machinery, transport vehicles and agricultural machinery, as well as their customers, to save costs by using much less material for a machine part with the same load. In the production of construction and agricultural machinery manufacturers can build up to 40 percent lighter than conventional steel with the same product properties. Additional Information: <https://bit.ly/2VPxJP2>

Relia®: high strength and low wear

Relia® is used, for example, as a material for excavator buckets, sideboards and loading areas of dump trucks and trucks, ie for construction machinery and for the transport of building materials, and then wherever it has to do with excavation and bulk handling, such as in mining, the dismantling of stones and in the mineral industry. In addition, low-wear, high-strength steel grades with high impact resistance are also used in demolition machines and in the waste and recycling sector. With three to six times better abrasion properties than normal steel, Relia® stands for significantly longer product life.



Relia®: Up to six times better abrasion properties than normal steel
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Although high strength, Relia® is easy to work with. This means, for example, that the plates can be processed with all thermal cutting processes including oxygen fuel, plasma and laser. Thanks to their high purity and uniform properties, the premium sheets have a very good formability. And because of its low carbon content, Relia® has very good weldability with any conventional fusion welding process. In short: These properties are very suitable for manufacturers of construction machinery, dump trucks and trucks.

Relia® extends the life of consumables and machine components, creates lower maintenance costs, and enables lower payload capacity.

More information: <https://bit.ly/2MU9YSe>

Magnelis®: corrosion protection under extreme conditions

As steel with exceptional corrosion protection for foundations, even in aggressive soils, ArcelorMittal offers Magnelis®, a steel with outstanding corrosion protection that is at least three times better than conventional galvanized steel. Magnelis® shows a self-healing effect that improves edge protection and surface protection on scratches. With excellent performance and versatility, Magnelis® is one of the best and most cost-effective alternatives to post-galvanized steel. Since its launch in 2012, Magnelis® has been used by many solar companies to provide long-lasting mounting structures in even the harshest environments - even in very large installations.



Magnelis®: particularly suitable for foundations in aggressive soils and the perfect solution for frames and foundations of profiles or pipes

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More about Magnelis®: <https://industry.arcelormittal.com/magnelis>

Further information about the solar offer: <https://industry.arcelormittal.com/solar>



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Jetskin®: protection with homogeneous coating

Jetskin® is a metallic coating for steel that is applied by JVD (Jet Vapor Deposition, which involves coating a moving steel sheet in a vacuum chamber). This will allow a much lower ecological footprint. Jetskin® offers a homogeneous coating on one or both sides of the steel and thus excellent corrosion protection, especially for indoor use. Jetskin® is also used in household appliances such as washing machines, dryers, dishwashers, stoves, microwave ovens and refrigerators, as well as electronics such as computers and notebooks, hi-fi and TV cabinets, also furniture such as cabinets, desks, shelves and switch cabinets as well as in air conditioners and interior ceilings.

More information: <https://bit.ly/35IImrN>



Jetskin®: Interior corrosion protection through metallic coating © JVD/Tom d'Haenens

Presentation at the Blechexpo: Jochen Grünewald: "Focus on innovation and the environment: steel production and solutions for the world of tomorrow" on Wednesday, 6 November 2019, 1:40 pm to 2:20 pm in the Exhibitor Forum / Hall 9 , Booth 9310

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Photos in print quality: <https://my.hidrive.com/share/k4co66vqv> | Login: AM@Blechexpo2019!

ArcelorMittal Germany: With a production volume of around seven million tons of crude steel, ArcelorMittal is one of the largest steel producers in Germany. The automotive, construction and packaging industries are as much a clientele as household goods. The company operates four major production sites in Germany. These include two integrated flat steel plants in Bremen and Eisenhüttenstadt as well as two long steel plants in Hamburg and Duisburg. In addition, ArcelorMittal maintains a strong distribution network in Germany and has seven cutting service centers and 16 distribution centers. ArcelorMittal employs more than 9,000 people in Germany.

<http://deutschland.arcelormittal.commagne>