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MAX, The first autonomous vehicle for heavy loads transportation integrated in industrial environment

Liberty Aluminium Dunkirk has become the first company to introduce MAX, an anode transportation hybrid autonomous vehicle in an industrial environment. The vehicle designed by Rio Tinto and developed by ECA Group will first undergo a test and commissioning phase within the facility of Liberty Aluminium in Dunkirk.

MAX is a safe and environment-friendly transportation solution aiming at optimizing aluminium production operations. Its name refers to its key robotic features: M for Modular, A for Autonomous and X (cross) for its capability to operate between the different parts of the plant.

Connected to the LISA-FM (Logistic Integrated Solution for Aluminium – Fleet Management) intelligent workflow system, MAX can continuously and autonomously circulate within the plant, whether indoor or outdoor, safely operating and transporting heavy loads up to 12T.

Thanks to its guidance technology, MAX can be integrated to existing operations without any additional equipment. Its effective implementation is scheduled for the first quarter 2020.



Learn More about the partners

ECA Group

The ECA Group is renowned for its expertise in robotics, automated systems, simulation and industrial processes.

Ever since 1936 it has been developing complete innovative technological solutions to perform complex missions in hostile or restrictive environments.

Its products are used by a demanding international clientele requiring the highest levels of safety and efficiency, mainly in the sectors of defence, maritime, aerospace, simulation, energy and industrial equipment.

À propos de Liberty

Liberty is a member of GFG Alliance, an international group of energy production, mining, metals, engineering, logistics and financial services companies located in London, with offices in Dubai, Hong Kong, Singapore, Sydney, Paris and New York. The company is present in around 30 countries across the world. The Alliance includes industrial and metallurgical companies integrated under the name of "Liberty" ; a group of resources, energy, transport in infrastructures named "SIMEC"; Wyelands, a branch of banking and financial services as well as JAHAMA Estates, a branch responsible for the building stock.

Rio Tinto

Pioneers in mining and metals, we produce materials essential to human progress.

Our long history is filled with firsts. We have developed some of the largest and best quality mines and operations in the world, and our employees work in approximately 35 countries across six continents. Aluminum, copper, diamonds, gold, industrial minerals and iron ore: our materials make up the world around us. You'll find them in smartphones, planes, cars, hospitals and all over your home.

Contacts

ECA Group

www.ecagroup.com

Meliha Boucher
+(0)4 94 08 80 79
+(0)6 99 31 45 29
boucher.m@ecagroup.com

Liberty Aluminium Dunkerque

www.aluminiumdunkerque.fr

Florence Bayart
+33 (0)3 28 23 60 23
florence.bayart@aluminiumdunkerque.fr

Rio Tinto

www.riotinto.com

Stéphane Prodent
+33 (0)4 76 57 89 84
stephane.prodent@riotinto.com

Bernard Allais
+33 (0)4 76 57 86 11
bernard.allais@riotinto.com