

GAUSSIN presents the APM “Hot Environments” and the Powerpack FULL ELEC LMP range “POWERED BY BLUE SOLUTIONS BY BOLLORÉ”

An offer 100% "Made in France" at the SITL fair from 20 to 23 March 2018

GAUSSIN Manugistique (EURONEXT GROWTH FR0010342329) will officially present the APM HE for “Hot Environments” and the new range of Powerpacks® FULL ELEC equipped with French LMP® (Lithium Metal Polymer) batteries designed by BLUE SOLUTIONS, a subsidiary of the BOLLORÉ Group, at the SITL (International Week of Transport and Logistics) held from 20 to 23 March 2018 at Paris Nord Villepinte.

The new APM HE, a solution that is 100% electric, designed for port areas located in hot climates

GAUSSIN announced on 19 February the signing of a contract with BOLLORÉ PORTS for the joint development of the 75T version of its APM vehicle.

The existing 38T HE “Hot Environments” version, equipped with LMP® batteries by Blue Solutions, will be the object of an exclusive presentation at the fair.

This version is mainly intended for Gulf countries and Africa where there is a true commitment to environmentally-oriented growth.



New APM HE presented at the SITL 2018 fair

The APM HE FULL ELEC is a true concentrate of technology, combining performance and ease of use.

Designed for working under extreme port environments where heat affects sensitive components such as batteries, the HE version can withstand temperatures exceeding 50°C.

Its intuitive drive provides unequalled driving comfort and its FOPS ROPS cabin is designed to ensure a very high level of safety.

Based on a reference set of over 50 specific standards, the APM HE is the 1st FULL ELECTRIC transport solution specifically engineered for hot climates where up to now, electrical mobility seemed impossible.

The new range of LMP® Powerpacks® “Powered by Blue Solutions”

The range of LMP® POWERPACKS®, intended for ATT, AIV, AGV, ATM and APM vehicles exists in three versions: 63, 126 and 189 kWh.



POWERPACK M
60 kWh
(4 to 6 h of autonomy)

POWERPACK L
126 kWh
(6 to 9 h of autonomy)

POWERPACK XL
189 kWh
(9 to 12h of autonomy)

When in operation, the internal temperature of the LMP® battery is between 60°C and 80°C. There was considerable work done on the battery's packaging in order to limit the impact of extreme climates. As a result, the LMP® battery is relatively insensitive to temperature conditions (from -20°C to +105°C), and offers a genuine competitive edge when working under hot climates. This technology, consisting of cells produced in France, is very solid and contains no solvents, rare earths or cobalt, thereby making it very safe.

Development schedule for contracts

1. Integration of BLUE SOLUTIONS* batteries

BLUE SOLUTIONS provided GAUSSIN with LMP® battery packs in the 1st quarter 2018. Gaussin is considering performance of tests on its vehicles as of the 2nd quarter 2018. They could be sold by GAUSSIN with the company vehicles as of June 2018.

2. Joint development of the APM 75T*

Design and engineering work on the APM 75T by the GAUSSIN and BOLLORE teams started in 2017. BOLLORE will supply LMP® battery packs that will equip the vehicles as of the 4th quarter 2018. Vehicle testing will be performed in the 4th quarter 2018 and 1st quarter 2019. Marketing of the APM 75T, designed for the port market, will only be possible as of the 1st quarter 2019.

These two contracts will not affect GAUSSIN's turnover for 2018.

A Business Unit dedicated to the Battery Integration activity*

The first Gaussin FULL ELEC self-propelled vehicle was delivered in 1995 to Airbus. At the time, it was equipped with lead batteries.

The technology transfer from the CEA has enabled Gaussin to fully control the expertise required to integrate Lithium batteries, and in particular the “BMS” Battery Management System aspect.

The consequence of this expertise is the successful development of LFP ATT, AIV and ATM POWERPACKS®.

Design of the POWERPACK® LTO for the AGV PERFORMANCE for the client PSA in Singapore and finally, BLUE SOLUTIONS’ decision to work with GAUSSIN to integrate its LMP technology have resulted in acquisition of in-depth knowledge of the main battery technologies on the market.

Thanks to its historical mastery of mechanical, electronic and thermal components, GAUSSIN can now offer its expertise to meet the various requirements in terms of customized “plug & play” energy solutions for light or heavy electric platforms required for transport of individuals or goods, but also in the case of stationary applications.

This battery integration activity, developed by GAUSSIN, already offers a variety of additional services: from Engineering to assembly of Battery Packs for partners or for leasing. It will be the object of a dedicated Business Unit, with the ambition of becoming a major actor in Europe in the field of battery integration.

Upcoming events

**SITL International Week for Transport and Logistics held from 20 to 23 MARCH 2018 in Paris
Nord Villepinte
APM HE on Stand M35**

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About Gaussin

GAUSSIN MANUGISTIQUE® is specialised in the auditing of handling processes and the development of wheeled handling systems used to install and transport heavy, bulky or fragile loads. With more than 50,000 handling vehicles worldwide, GAUSSIN Manugistique boasts a strong reputation on four fast-expanding markets: Energy, Transport, the Environment, and Raw Materials. GAUSSIN MANUGISTIQUE® is listed on Euronext’s Alternext in Paris since 16 June 2010. GAUSSIN shares are listed since 20 July 2012 on the E2 listing (public market) since obtaining AMF Visa n° 12-360 on 17/07/12 for the Prospectus, available free of charge on www.gaussin.com.



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