

EQUIPMENT

MTA SPEEDY CREATOR

Android Studio

MTA

MTA, a multinational company, headquartered in Italy, known for the development and production of electromechanical and electronic products sold to major OEMs, will showcase during Bauma Munich its full range of off-the-shelf dashboards, displays and control units, that can be quickly and easily customized according to different OEM needs.

The range consists of 6 dashboards, Spot, Quik, Quik Plus, Revo, Revo Plus and Smart; 4 displays, Zip, Giotto K, Giotto and Leonardo; 2 ECUs, Dyna and Actua.

DASHBOARDS AND DISPLAYS, TO EACH HIS OWN

All dashboards and displays feature very similar hardware and software architectures, elegant design and modern lines, but are different in shapes and sizes, number of LEDs, inputs and outputs, and screen types. Round, square, rectangular, oval or ovalized: the dashboard and display shapes meet today's OEM demands, with dimensions ranging from extremely small (107 mm outer diameter) to the high-end 310x215 mm display.

The types range from LCDs (segment or dot matrix) to TFTs (3.5" up to 4.3"), coupled with analog needle indicators, up to full color 8" or 12" TFTs, enabling the operator to constantly monitor the key parameters of the machines and any equipment they control.

ELECTRONIC CONTROL UNITS

The two control units, Dyna and Actua, are designed to drive different types of actuators and they differ from each other by the number of inputs and outputs and the processor computing power (higher for Actua).

POWER SUPPLY, 12 V AND 24 V

Most of the dashboards and displays can feature both a 12 V and a 24 V power supply, the latter meeting the needs of heavy-duty applications.

SOFTWARE

All dashboards, displays and ECUs can be programmed with MTA Studio® – a proprietary software tool that allows customers to tailor the product to the needs of the vehicle it is installed on – with the exception of Leonardo, for which customers have to use Android Studio only and Giotto with Giotto K, for which they can use both software tools.

EXCELLENCE FORM ITALY

MTA also paid particular attention to the materials and construction methods employed on Leonardo to make sure that the display remains highly robust and reliable over time, extremely resistant to vibrations and high temperatures, and ensures an IP66 degree of protection.

safety details, such as anti-reflection and anti-fingerprint treatments, thus ensuring perfect visibility even in the harshest environments. Always taking into account the presence of dirt, mud and water typical of the off-highway applications, all products consist of state-of-the-art components, with advanced materials that, together with the above treatments, guarantee high resistance to temperatures and vibrations, as well as an IP66 or IP67 degree of protection.

FOCUS ON LEONARDO

Leonardo is the off-the-shelf display whose software can be easily customized by OEMs according to the specific needs of the off-highway machines it is installed in. Leonardo can be used as a stand-alone device – in this case it also acts as a dashboard – but it can also be incorporated in an electronic system that includes other displays or dashboards. Leonardo's software can be customized using Android Studio, a software environment aimed at the most expert programmers, that allows customers to develop complex, refined graphics.

In order to ensure a user-friendly programming, MTA has developed a proprietary Android plug-in called Speedy Creator® that makes available specific functions and graphics of the construction world, allowing quick, simple development of applications.

A SPECIFIC HARDWARE FOR ALL WORKING CONDITIONS

Leonardo has a large screen, a 12.1" TFT color touchscreen with a resolution of 1280x800 pixels that makes it ideal for all off-highway applications where it is necessary to simultaneously display several parameters related to the machine and the equipment connected to it. The multitouch screen (up to 10 points) with the latest generation touch controller also makes it very reliable and extremely accurate even when the operator uses gloves.

The large size, the high resolution and the high luminous intensity give Leonardo a very high visibility, even with intense direct light. Moreover, Leonardo undergoes an optical bonding treatment that involves a special technique that completely eliminates the air between the display and the screen, thereby minimising reflection. Finally, the glass used for the screen is anti-glare and anti-fingerprint.

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The Company

MTA spais a global leader in the development and production of a wide range of electromechanical and electronic products developed internally for the primary manufacturers of cars, motorcycles, on-highway and off-highway vehicles. Founded in 1954, MTA has two production sites in Italy (Codogno and Rolo), 8 foreign sites, sales of about 205 million Euro, and 1480 employees.



MODERN INTERFACES FOR CONNECTION

Leonardo offers WiFi and Bluetooth interfaces. The former allows the display to connect to a WiFi hotspot, while Bluetooth (available from 2020) can be used for direct connection to a smartphone. Leonardo can also be used in hands-free mode, thanks to a speaker, a microphone input and an audio output connected to a possible external audio amplifier.

Like the other on-board customizable

dashboards, displays and units belonging to MTA range, Leonardo is entirely developed and produced in the company's production site in Rolo, a factory dedicated to electronic production that implements the most modern technologies meeting the latest, most stringent regulations of the automotive sector.

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