



Electronic Supplier for Crawler Aerial Working Platforms

ECUs and I/O Modules for IMER Access



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“ With the collaboration of TTControl we have been able to realize the new electronic concept for our new self-propelled aerial platform product line, satisfying the new legal requirements from EN ISO 13849 regarding electronic control units and application software. ”

Roberto Arioli
Technical Manager at IMER Access



TTControl, a joint-venture company of TTTech and HYDAC International specializing in robust and flexible control systems and intelligent displays for mobile working machines, has been selected by IMER Access, a leading manufacturer of access platforms, as electronic supplier for their next generation of self-propelled crawler aerial working platforms. The IM R13, IM R15 and IM R19 platforms of IMER are equipped with EN ISO 13849 PL d certified electronic control units by TTControl.

TTControl provided IMER Access with HY-TTC 94, a robust control unit, and HY-TTC 48XS, a safety certified I/O module. TTControl specifically developed the application software based on the principle that IMER Access will be autonomously able to modify, customize and enhance it. The software is also the basis for further projects since IMER Access can transfer it to new larger or smaller aerial platforms with little effort.

The production of the crawler aerial working platforms started in 2013.

“ We are pleased to win IMER Access as a partner for our solutions and to be part of the development of a new line of self-propelled crawler aerial working platforms, contributing to their electronic safety with our products. We are looking forward to further deepen our partnership in the future. ”

Roberto Ferrari
Director Services and Operations at TtControl



High Safety Controller HY-TTC 94

HY-TTC 94 is a robust control unit compliant with the international IEC 61508 and EN ISO 13849 standards on functional safety. This control unit meets all safety requirements of the platforms and fulfills SIL 2 (Safety Integrity Level) and PL d (Performance Level) requirements, and serves as a master ECU in the platform, interfacing with the engine controller and the remote radio control.

Safety Certified I/O Module HY-TTC 48 XS

HY-TTC 48XS is a smart I/O slave module connected over CANopen to the master unit. The module is developed in accordance with EN ISO 13849, PL d. Its distributed architecture enables the design and assembly of different variants while saving cost and time. The module is delivered with a ready-to-run software, guaranteeing easy integration and usage. The compact, automotive-style housing is suited for rough operating conditions.

▶ CUSTOMER / PROJECT

IMER Access – New generation of self-propelled crawler aerial working platforms

▶ CHALLENGE

The customer needed electronic control units and I/O modules that fulfill all necessary safety requirements and can be customized and enhanced for future platforms.

▶ SOLUTION

TtControl supplied IMER Access with the HY-TTC 94 ECU and the HY-TTC 48XS I/O slave module, meeting all necessary safety requirements of the platforms. The applications were developed so that IMER Access will be autonomously able to modify, customize and enhance them for future platforms.

Constructing Efficient Working Environments With High-Performance Control Solutions

About TTControl

TTControl, a joint-venture company of TTTech and HYDAC International with locations in Vienna and Brixen, offers electronic control systems for mobile machinery and off-highway vehicles, such as fork lifts, cranes, municipal vehicles and snow groomers, construction and agricultural equipment. Being leaders in functional safety, TTControl's software and hardware platforms enable equipment manufacturers to develop highly reliable electronic control systems quickly and economically.

Further information on
TTControl available at
www.ttcontrol.com



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About IMER Access

IMER Group is a leading producer of construction equipment, mortar spraying and conveying machinery, plant and equipment for batching, transporting and casting concrete in-site and specializing in earth-moving machinery and lifting equipment. IMER Access, created after the acquisition of the business unit ITECO by IMER Group in September 2009, focusses on designing and building aerial work platforms of various types: self-propelled scissor lifts, for indoor and outdoor use, self-propelled articulated boom lifts, truck mounted aerial platforms, and now also the new range of crawler access platforms.

Further information on
IMER Access available at
www.imergroup.com

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