



CONTROL SYSTEM FOR BULK MATERIAL UNLOADING

ELECTROTECHNICS

project / realization / service





CONTROL SYSTEM FOR BULK MATERIAL UNLOADING

(conveyor belts, gantry cranes) on vessels



Introduction

More than 20 years of experience

Our company boasts more than 20 years of experience in designing and constructing control systems. Design, construction, installation, startup and maintenance - comprehensive „turnkey“ solutions for all projects. Offering high quality and professional service over the years, we have earned a large group of satisfied clients.

In-house production hall and design office

All designs developed by our design office are put into life by our in-house production hall. We are also capable of completing every project based on technical documentation supplied by the client.

For land and offshore industries

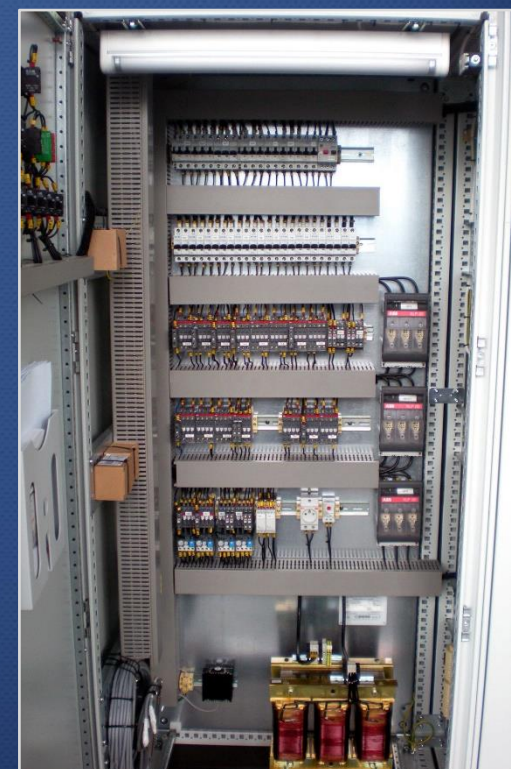
Our services are dedicated to the civil engineering and offshore industries. Our hydraulics control system will work perfectly both as part of new projects and within upgraded infrastructure.

Complete projects can be verified by a classification society, e.g. DNV.





We provide a comprehensive approach to the control of bulk material unloading. Our company designs, builds, implements, installs and commissions complete bulk material unloading systems (consisting of conveyor belts), GANTRY systems, as well as trolley systems. We have been building such systems for years for our regular client. The oldest ones have operated on ships for more than 12 years, without any major faults.



We use inverters from the former ACS800 and current ACS880 series supplied by ABB, a reliable and renowned partner, to build conveyors and gantry carriages. Of course, at special request, we can use other components to construct our systems.







We have provided comprehensive rebuilding services for many years. We have the knowledge and experience to fulfill even the strictest requirements related to PLC or Stand-Alone or Master-Follower inverter drive systems.

PLC - our last refurbishment was carried out with the use of Mitsubishi controllers, and had three equivalent control positions, three distributed input/output islands - collecting signals from the ships' cargo holds, ensuring full communication with inverters, supervising motor and transmission temperatures (continuous analog supervision/measurement). The person overseeing the unloading procedure has full access to this information, knows the current operating load of each conveyor belt and can momentarily overload each of them up to 150%. The system is equipped with a slip detection unit fitted on each belt, which initiates an adequate reaction in the event of material slippage - a notification on the operator's panel, a request to adjust the transport speed, or a complete stop of the process (when slippage is significant). The process is also started and stopped in a preset sequence, thus preventing the conveyor belts from being overfilled with material.

All systems are our proprietary solutions.



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