



A Fall Pipe Vessel (FPV) is a seagoing self-propelled vessel with a fall pipe, designed to be lowered underneath the vessel. At the lower end of the fall pipe a ROV is installed. By a dynamically positioning system, the vessel can stay in exact position or be guided along a predefined track in order to place rocks in the seabed in a proper way. This rock dumping method is typically used in deep water, up to 2000 meters.

Fall Pipe Control System

Our solutions for the FPV are:

Pipes Storage Management: The system controls the information and the location of each fall pipe piece stored onboard

Fall Pipe Assembly and Disassembly: Complexes sequences to pick-up a pipe from the storage area, transport and insert it to the already deployed fall-pipe are developed to assembly and disassembly a complete fall-pipe in a full auto mode. The CCTV is integrated in the system and the camera views shown on the mimics are selected based on the current step of the process

Access Control System: The safety status of different working zones onboard is shown using light panels. The risk of each zone is based on the current and next movements of the controlled elements on that zone.

Production Measurement and Control: System that optimizes the production based on the weight of the rocks placed on the seabed and the speed of the vessel

Communication with other systems: The control system interchanges information with many other systems (AMCS, Survey, DP, ROV, Laser Measurements System, Belts Weighing System, Gyros, Speedlog, Echosounders) in order to integrate and use the received data and send the information needed for other third parties

