

# Research Vessel June Launch

The Taiwan Ocean Research Institute (TORI) is preparing the launch of the new 2.700 ton ORV, Multi purpose Oceanographic Research Vessel, Research V. The vessel that is being constructed in the shipyard Jong Shyn Shipbuilding Group in Kaohsiung will be launch in June, and will be completed by 2012.

Jong Shyn is responsible for the delivery of the complete research vessel to TORI and the Taiwanese science community. TORI is one of the National Applied Research Laboratories (NARL) in Taiwan.

Deck equipment and oceanographic winches has being supplied by Spanish companies. IBERCISA is leading the project for the supply of the scientific winches, working together with Industrias FERRI that has supply two A-frames and Arm-Telescopic-Frame.

Due the experience that's this two companies have on other oceanographic Vessels as Sarmiento de Gamboa, Miguel Oliver.... The coordination of the teams, companies and equipment designs departments was very important for the supply package.

The Oceanographic winches designed and manufactured by IBERCISA include one Deep Sea Winch for 8.500 m fiber Technora cable that works in constant tension with a traction unit. The traction unit was designed to work with individual driven sheaves that are controlled by 8 motors. They are controlled automatically changing the sheaves speed according to the enlargement produced during the cable loading. This fiber cable will work with the aft A-frame supply by FERRI. Designed for a SWL of 15 tons for working conditions up to Beaufort 6, and with a working angle of 30° to aft and 60° to fore from vertical, and 9,5 m height, which is able to work with three blocks.

The Arm Telescopic Frame from FERRI, with 15 tn working capacity and 6,5m displacement, will work with the CTD winch, with 8.000m – Ø17mm capacity electromechanical cable from Rochester. Which has a maximum speed of 100 m/min and 16 Tn pull.

A portable electrical oceanographic winch with 3.500 m capacity for EM cable of Ø8 mm was able to work even with starboard A-frame or Aft a-frame. The oceanographic winches were supplied from IBERCISA factory already with the cables spooled with tension, in order to avoid any damage and for an easy vessel installation.

The total package includes windlasses, capstans, fairlead and the supply of the power packs to drive the A-frames, Cranes and the winches The Operation of the ORV shall contribute to Taiwan's ocean exploration and research capabilities. TORI is making all efforts for a sustainable in ocean science and technology development. The operation of the new research vessel will substantially raise marine research and exploration capability and also cultivate talented marine researchers.