

Vessel requirement for an offshore project

Alejandro Rodríguez¹, Amadeu Deu², Joel Costa³, Marcelo Devincenzi⁴

¹ R+D Manager (IGEOTEST, Holanda 12-14 nau 3, Polígon Recinte Firal, 17600 Figueres, +34 629356336, arodriguez@igeotest.com)

² Technical Director (+34 608113970, amadeu@igeotest.com)

³ Offshore technician (+34 638828775, joel@igeotest.com)

⁴ CEO (+34 629360333, marcelo@igeotest.com)

Choosing a suitable vessel for an offshore project can lead to significant savings in both cost and time.

There are many factors that influence the choice of the vessel to be used for the development of a project, among which are:

- Type of vessel; multipurpose, multicat, tugboat, jack-up.
- Mobilization cost and daily rate of the vessel.
- The type of positioning of the vessel, either dynamic or through the use of anchors.
- Operational limits; wind, wave and tide.
- Availability of the vessel for the required dates.
- Available deck space for the equipment.
- Adequate lifting equipment for the work. It will be necessary to consider if the ship has a crane, winch or A-frame and the capacities of elevation, height and length of the cables.
- The draught of the vessel especially for shallow waters projects.

- Accommodation capacity.
- Autonomy.

Igeotest is a company specialized in the study of the ground and subsoil with a professional career of more than 20 years. During the last years, our activity has been focused on the realization of offshore projects among which we can highlight the sectors of oil and gas, renewable energies, maritime infrastructures, ports and coastal developments, dredging, cables and piping.

The aim is to analyse and provide a vision based on the experience acquired during the offshore projects carried out by Igeotest, developing the criteria used to choose the type of vessel that is most suitable for the execution of a project, whether by means of vessels or jack-up.

The different scenarios to face a project with a vessel will be contemplated and analysed how the choice of the right vessel can condition the success or failure of a project.



Fig 1. Vessel Mintis



Fig 2. Jack-up IG-IV