

YS5000 STINGER

Owner: CHINA YANTAI SALVAGE

Client: GORIZIANE GROUP

Country: China

Period: 2016 - 2017

TECON SOW: Detailed design of YS5000 stinger



Work description

YS5000 vessel is a heavy lifting vessel under construction that will be equipped with an articulated non-buoyant stinger. The stinger will comprise three sections with lengths ranging from 52.0 m to 24 m to reach a total length of 108 m, a total weight of 1540 t and a total number of 13 roller boxes. The stinger is designed to allow the installation of an optional future fourth section. Depending on the sealine size and water depth, the laying operations can be performed using the whole stinger or a shorter configuration obtained by removing section 2 and/or section 3.

Section 1 angle is adjusted by the stinger handling system (SHS) installed on the vessel deck and moved by a push-pull jacking system. Angles between stinger sections are adjusted through variable length linkages.

The stinger is designed to allow the laying operations of pipeline ranging from 6" to 48".

Tecon services

- Detailed design of the stinger
- FE structural checks of the handling system and linkages
- Laying analyses
- Material and fabrication specifications
- Yard assistance in Yantai for 10 months as structural engineer of the fabrication Project Management Team
- Yard assistance on Chang Xing island during hook up and installation of the stinger onto the YS5000 vessel (ongoing)