FAGIOLI

ITALY: SCARABEO 8 PROJECT TRANSPORT LIFTING AND INSTALLATION OF A DRILLING RIG TOWER AND LIVING QUARTERS ONTO AN OFFSHORE FLOATING PLATFORM

PROJECT	EQUIPMENT	WEIGHT
OFFSHORE	STRAND JACK AND TOWER LIFT SYSTEM / SKID SHOES AND ELEVATOR SYSTEM / SPMTS / CRAWLER CRANES	Up to 2,400 ton

Fagioli's new elevator system was the ideal solution for positioning and installing two living quarters and a gigantic drilling rig tower on top of a 50m high offshore platform. The offshore platform "Scarabeo 8" was anchored at the port of Palermo in the Mediterranean Sea. The semi-submersible offshore platform, owned by Saipem, is composed of two floating hulls with facilities supported on six columns. The lower part of the platform was built in Russia while the top section was manufactured in Italy. Fagioli was awarded by Fincantieri to install approximately 80 small modules weighing 100 to 300 tonnes, two living quarters each weighing 600 tonnes and a huge drilling tower weighing 2,400 tonnes which was to be placed 50m in height. Fagioli performed the load-out operations of the two living quarters onto a barge and the load-in operations in Palermo by means of SPMT's.

The two living quarters were positioned close to the installation area by SPMT's and installed using the new elevator and skidding system.

But it was the second part of the project, performed two months later that was the most extraordinary, the installation of the huge drilling rig tower which was an impressive 90m high and weighing 2,400 tonnes.

The new elevator system was successfully used on the Adriati LNG project and the blast furnace replacement project in China, but the Scarabeo 8 project was the most challenging, positioning a 90m item on top of a 50m high platform…in the sea!!! Detailed engineering studies, and perfect control of the system and ideal weather conditions contributed to the success of the whole operation. The Tower was positioned using more than 100 axle lines of SPMT's onto 8 skid shoes, running on two girders. The piece was than lifted and skidded to its final position.