Transportation of reactors R-201 & R-202, Saras Refinery, Sardinia

Client: Saras S.p.A
Project Engineers: Parsons Group International Ltd

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PETROCHEM 15

Nuovo Pignone, in Massa Carrara, Northern Italy, fabricated the two reactors required by the MHC2 project.

R-201 is 22m high x 5.7m diameter, weighing 493 tonnes and R-202 is 21 m high x 5.7m diameter weighing 465 tonnes. The reactors were then transported by barge, from Marina di Carrara, to the Saras quay area.

Once docked at the quay, the reactors were offloaded from the barge and transported to the erection site, using SPMTs (Self-Propelled Modular Transporters). This comprised a 14 axle, 112 wheeled, modular assembly, with eack axle having independent steering capability.

Upon arrival at the erection site, the reactors being in the horizontal position, the head end was attached to the tower lifting arrangement and the tail end was landed on temporary supports. The SPMT was then removed & reconfigured, from a 14 axle to a 6 axle system, to serve as support for the tailing operation.

The SPMT was then re-positioned, below the tail lifting lug and the hydraulic system then took the load from the temporary supports. Lifting into the vertical position could then commence.

For the erection of the reactors, Fagioli PSC erected their Towerlift system.

An additional project sheet is available for the vessel lifting operation.