Residue Fluid Catalytic Cracker (RFCC) - Tema Refinery, Ghana

Client: SK Engineering and Construction Co. Ltd, Korea

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PETROCHEM 16

Fagioli PSC undertook both the transportation and lifting of 5 heavy components for SK Engineering and Construction Co., Korea.

The dimensions of the components were as follows:

Component	Length (mtrs)	Width (mtrs)	Depth (mtrs)	Weight (tonnes)
Regenerator	35.05	7.85	7.91	425
Reactor	28.75	6.10	5.28	194
Column	24	2	2	30
Main Column	44.5	3.2	3.2	80
O-Chamber	15.6	3.53	3.46	70

First of all the project involved transporting the heavy components from Korea to Ghana. This involved the following:

1. Sea transportation from FOB Port of Chang Won in Korea to FAS Port of Tema in Ghana with a Heavy Lift Vessel;
2. Unloading of the heavy components from the ship with ship gears onto SPMT's (28 lines + 2 ppu's)
3. Transport via public roads (10km approx) from Tema Port to Tema Refinery.

Once the heavy components had arrived at Tema Refinery they were then lifted using Fagioli PSC Strand Jacks and Towerlift masts.

Above: One of the components arriving at Tema Refinery

The Towerlift system used for this project had the following features:

1. Movement of the complete 72 metre high system using Strand Jacks and ground level skid rails.
2. Traversing of the vessels using Strand Jacks and high level skid tracks mounted on the crosshead beams.
3. Self erection of the 160 tonne crosshead beams complete with the lifting equipment.