

# BURKINA FASO: TRANSPORT AND INSTALLATION OF 3 ENGINES FROM GHANA TO BURKINA FASO

PROJECT	EQUIPMENT	WEIGHT
POWER	MODULAR TRAILERS / OVERBRIDGES / GANTRY LIFTING SYSTEM / HYDRAULIC JACKS	214 TON



Fagioli were awarded the transport and installation of No. 3 engines from Ghana to Burkina Faso. Fagioli trailers were loaded in Europe onto the same heavy lift vessel at the three engines, on the vessels arrival at Takoradi, the Fagioli modular trailer was discharged and assembled in a record time to receive the three engines directly from the vessel without any vessel stand by being accrued. The engines were then delivered to the land locked Burkina Faso through the complete length of Ghana, a total distance to site of 1200 kilometers.

The challenging journey through Ghana was made even more difficult due to the terrible conditions of the road, in fact it was necessary to organize the repairing of the road with graders and various mechanical vehicles which were working literally meters in front of the convoy.



In addition to the bad road conditions the convoy had to negotiate steep slopes where it was necessary to pull the trailer with three prime movers. Due to the poor conditions of the bridges in Burkina Faso it was necessary to position 30m long jump ramps (mobilized from Italy ) over the bridges to ensure that the trailer when crossing the bridge did not come into contact with it. Once arrived at site, the engines were installed onto foundations by means of Fagioli 400 ton capacity hydraulic gantry lifting system.

The engines were coupled with their generators and then placed into their base frame prior, prior to final positioning the base frame, the springs had to be attached and then the frame was jacked down into final position. At the port of Takoradi (Ghana) the 3 engines (weighing 214 ton each) were unloaded from a geared ship directly onto a 16 axle lines modular trailer and stored at the port storage area. The engines were then reloaded onto the trailer and transported up to its final destination at Komsilga located near the capital of Burkina Faso over a distance of approx. 1100 km. The challenging journey involved the crossing of Ghana country and presented many difficulties and technical hitches such as:

steep slopes, crossing bridges, high temperature and crossing of areas with a high number of electrical cables to be lifted or removed. In Burkina Faso the convoy was forced to pass over an old bridge where it had been compulsory to position some iron ramps for a length of approx. 30 m, in order to better distribute the relevant weight of the engines on the bridge plinths. Once arrived at site, the engines were installed onto foundations by means of Fagioli 400 ton capacity hydraulic gantry lifting system. The engines were directly unloaded from the trailer and moved for about 30 m. till their final position. The installation onto suitable support springs was executed with hydraulic jacks.

