

Transportation of mining modules in Kamsar, Guinea

ALE has transported 15 mining modules, including the largest and heaviest items ever transported in Guinea, from the Port of Kamsar to the new Kamsar bauxite plant in Guinea.

ALE collaborated with Bolloré Logistics, who led the project, to complete the operation in 2 stages. First, 3 car dumper modules were unloaded using 12 axle lines of SPMT in a configuration of 4 file 6. In the second stage, 12 stacker reclaimer modules were unloaded using 24 axle lines of SPMT in a configuration of 2 x 4 file 6. One of those modules, weighing 220t, was the heaviest item ever transported in Guinea, and the boom bucket, measuring 46m long and 15m wide, was the largest item ever transported in Guinea. In both cases the modules were unloaded, stored in stools in the port, and then transported to a laydown area within the plant. For the transportation of the longest and bulkiest equipment, turn tables were used together with the SPMTs.

ALE had to overcome various obstacles on the 5km transportation route, including train tracks, 2 temporary bridges, turns of up to 90 degrees, and slopes with gradients of more than 7%. The biggest challenge was the existing train tracks. ALE's solution was to design a set of link span beams. These could be assembled and disassembled quickly, which minimised the disruption to rail traffic.



Transportation of boom bucket on turn tables



Car dumper module crossing over railroad track

Project:	Transportation of minning modules for GAC project
Location:	Kamsar, Guinea
Equipment:	SPMTs, turn tables, link span beams
Weights:	Between 20t and 220t
Key Features:	Bespoke solution; new record in Guinea; minimised disruption; multi-service application