



# DEMAG Cranes & Components



## Case study

**Project brief: 54 metre long Crane beams moved from Johannesburg, South Africa to Killarney, Southern Ireland**

When our clients Mannesman Dematic Limited were asked to produce a crane that featured two beams of 54 metres in length and weighing 65000 kgs each the decision of where to manufacture came into focus. A cost analysis ruled out the Mannesman factory in Banbury as moving the beam would have required a great deal of structural work.

The solution was to choose between manufacturing in Poland or South Africa. At first glance Poland might seem the most cost effective option, but after careful cost analysis, ALS were able to prove that the South Africa option offered the most cost effective solution.

The load, two crane beams each 54 metres x 2.6 metres and weighing 65000 kgs was taken by road from Johannesburg to the port of Richard's Bay, from where a liner vessel was used to ship the load to Rotterdam. In Rotterdam the beams had to be transhipped by floating crane onto 2500 DWT coaster. This smaller vessel was required as the home port of Fenit in Southern Ireland cannot accommodate large vessels.

Once again in Fenit the beams were again transhipped from the coaster using two mobile cranes.

A short road journey to Killarney finished the move, on time and in budget.

ALS working in close liaison with Mannesman Dematic were responsible for the whole journey including all documentation, loading and lashing escorts, transport, vessels and cranes.

**“We understand that these beams are the largest ever transported in Africa, usually we have to cut them into smaller units with all added costs of re-assembly. ALS demonstrated how it could be done for us in one piece and it made sense”**

**Mannesman Dematic Limited spokesperson**



1.



2.



3.



4.

1. Road from Johannesburg to Richard's Bay
2. Loading to liner vessel Richard's Bay
3. By road to Killarney
4. During transhipment to coaster at Rotterdam