



LIFTING & HANDLING with EASE & SAFETY

Linian Engineering Sales Limited

LINIAN CRANE & HOIST COMPANY

The Mansion House, City Road, St Helens WA10 2UE

Tel : 01744 736 330

sales@linian.com www.linian.com

PROJECT 2 – Retractable Lifting Beam



LINIAN were asked by a structural engineering consultant to come up with a means of lifting plant and equipment up to the plant room above the new Endoscopy Unit at York Teaching Hospital.

The plant room is some 9 metres above ground level and the equipment weighing up to 1500 kg would have to be hoisted up the outside of the building and then transported into the plant room through a large exterior door.

It was determined that this was an ideal application for one of LINIAN'S retractable lifting beam arrangements.

Subsequently, and following a detailed site survey with the client, a suitable system was designed, approved and manufactured.

As the lifting operation was expected to be necessary only very occasionally the client preferred something relatively inexpensive and decided that the whole arrangement should be manually operated as opposed to being electrically powered.

We were able to attach our support beam to existing roof beams and the retractable beam is underslung from the support beam by means of a plain trolley at one end and a chain geared travel trolley at the other end. The geared trolley is used to wind the retractable beam in and out of the building. Lifting is facilitated by a combined hand operated chain block and geared trolley running on the bottom flange of the retractable beam.

When not in use the whole system is stored within the building, out of sight and out of the weather, and the beam complete with hoist only needs to be extended outside when a lift is required.

Installation took only one day with proof load testing taking place on the following day.

Another LINIAN bespoke lifting solution and another happy customer.

Yours faithfully,

Ian Watson

Ian Watson
Director

