

Case Study: 8.4m Tall Lift and Tip Units

Project: To manufacture and install 6 bespoke 8.4m tall lifting and tipping units complete with enclosures to handle 350kg euro bins.



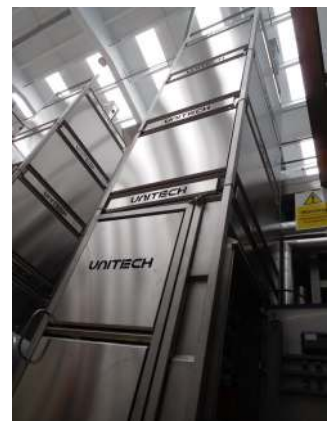
Unitech Engineering have completed a bespoke project to design, manufacture and install 6 of their tallest lifting and tipping machines yet. The client, Briggs of Burton, a specialist process engineering company, appointed Unitech Engineering to provide a simple solution for lifting and tipping 350kg euro bins containing a variety of products.

The lifts had to be manufactured to a height of 8.4m, the tallest height Unitech have ever produced. Unitech's internal mechanical design team created a reliable solution utilising a PLC driven system with variable speed, all complete with enclosures for increased safety.

The lifts, which are ATEX rated and manufactured from 304 grade stainless steel, provide a simple solution to reducing the cost and lead time of the ATEX motor, resulting in an efficient cycle time with variable tipping heights.

The lifts were installed two weeks ahead of schedule at a large production site in Lincolnshire, which produces a range of canned products including baked beans, vegetables, fruit, pulses, pasta and meatballs. Unitech's inhouse electrical controls team designed the PLCs to offer the client a choice of recipes to suit the variety of products to be tipped, all with varying consistency.

As the lifts were manufactured for a high level hygiene environment, Unitech's design team designed the lifts for low impact maintenance including low level access and a reduced number of parts, hence less routine maintenance will be required.



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