Case Study 0408

Webster Griffin
packed with know how

Reliance

PET RESIN

Seven Jumbo Bagging Lines





THE CLIENT

Multinational Indian conglomerate Reliance has a strong presence in a number of industries including petrochemicals and telecommunications. Reliance's Jamnagar Petroleum Refinery is the largest in the world and bottle grade PET Chips are manufactured at their 'state of the art' facility in Dahej.

In the face of fierce international completion, Webster Griffin was awarded the contract in 2012 to design, manufacture and install a multi-line packing facility for Reliance's new PET 3 Resin manufacturing plant.

THE SOLUTION

- Webster Griffin proposed a Turn-Key System incorporating the well proven IBC PF4 bulk bag weigh fill machine tailored to suit the clients project specific demands.
- Inline metal detection fitted to system feeds.
- 3.5 ton capacity buffer hoppers and dosing valves for control of product moving from the main silos.
- Vibration table for maximum compaction of product & bag stability.
- Online ticket printing system accessible to the operator for application of identification label on every bag.
- Fully automatic distribution of empty pallets to the 7 Jumbo Bag filling stations. Hi speed conveying system then transports full bags to the automated warehouse

THE CHALLENGE

- All Machines had to connect at height to the customer's system of product storage silos by feed pipes.
- Machines supplied with two storey self-supporting platforms to allow operator access to buffers, hoppers & feed pipes.
- The customer had a rigorous quality assurance system involving two third party consultants and an inspection process.
- The customer wanted to be able to remotely monitor and log Bag and Weight data for analysis and traceability.
- The customer wanted to be able to run the plant 24 hours per day with minimal labour.
- An integral metal detection system would be required to snusre no contamination of product.
- Full bags must be stable and sit square on the pallet to withstand an immediate journey to the warehouse without tipping over.

THE RESULT

- The system delivers an instantaneous throughput of 40 x 1200 kg Bulk Bags per line x 7, at peak 280 bag/h (336 Tons/H).
- Excellent weight accuracy owing to gross/net weighing technology and integral 'on-the-spout' top up.
- Robust design and solid build quality ensures reliable operation 24 hrs/day.
- Full bags are stable and packed tightly-ready to be conveyed immediately into the SRS Warehouse.
- Optimum utilization of available bag volume due to patented 'Semi Suspension' filling technology – combined with high-frequency vibration – which consolidates the chips into the bag during the automatic weigh-fill process.

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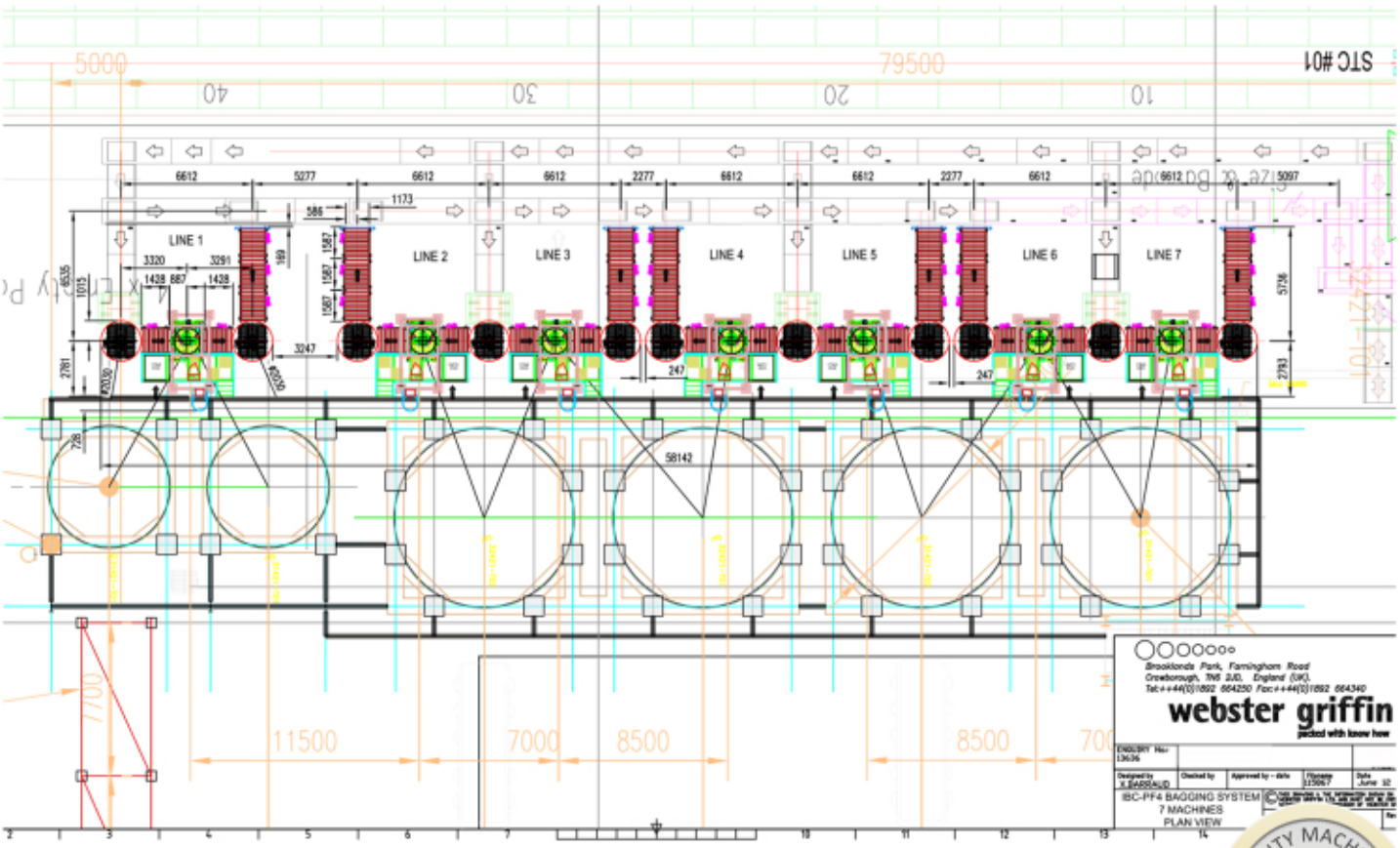
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