Case Study 0347

BATHGATE
SILICA SAND

Webster Griffin
packed with know how

SILICA SAND

Turn Key Bagging System





THE CLIENT

Rising fuel costs and environmental issues were the principal reasons for the decision by Bathgate Silica Sand to replace their old bagging plant at Congleton with a state-of-the-art plant in Arclid, Cheshire. The plant eliminates the need for transportation to Congleton, reducing the operation's carbon footprint.

Bathgate Silica Sand asked Webster Griffin to supply a versatile Form Fill Seal (FFS) line for bagging their kiln dried sand/top dressing/grits/moist sand/wet sand products into small gusseted/pillow bags of 10kg, 20kg and 30kg and gusseted/pillow Big Bags of 500kg to 1500kg.

THE CHALLENGE

Bathgate Silica Sand wanted to increase their output with a 360 degree solution for their new production system, this presented a range of challenges including:

- They required a fully automated system to maximise efficiency.
- Flexibility to automatically adjust for different bag sizes.
- The capability to fill varying bag sizes from 10-30 kg utilising Form Fill Seal technology.
- Lower cost of consumables.
- Automation to give more scope for redeploying labour.
- A system capable of continuous production around the clock.

THE SOLUTION

Having discussed the requirements with key Bathgate representatives, Webster Griffin proposed a turn-key integrated system comprising a Velocity FFS CV 3025, an Okura A1600 robot palletizer and a Uniwrap 200 AE fully automatic pallet stretch wrapper.

- Velocity Form Fill Seal CV 3025- Gusseted or pillow bags made from the same roll of flat film.
- Okura A1600 bag palletizing robot- with 'OXPA' self teach system.
- OXPA windows based software – allows operators to create new palletizing patterns and optimise exiting patterns in order to produce symmetrical palletized stacks.
- Hi Tech Okura bag hand – to provide precise palletising of fattened bags.
- High speed dosing system.
- Uniwrap 200AE fully automatic pallet stretch wrapper.
- Integrated control system with operator touch screen panel.

THE RESULT

Bathgate's solution was tailored according to their criteria. Outcomes of the project included the following:

- High speed FFS bagging – 10kg or 25kg bags can be filled at a rate of 1000 bags per hour.
- Satisfied customers – the high performance plant means bagged product is delivered to the customer more efficiently and promptly.
- Built in flexibility and quick changeover - able to deliver bagged product, whatever the grade, bag size or palletizing format.
- Bathgate Silica Sand now operate one of the most versatile, fully automatic, high speed sand bagging facilities in Europe.
- Bathgate can now keep pace with demand and have the capability to respond promptly while minimizing bagged products held as stock.
- Reduced labour input – the fully automatic system reduced labour input.

Linkedin.com/Webster Griffin Ltd
Youtube.com/Webster Griffin Ltd
www.webstergriffin.com

Webster Griffin Ltd. Brooklands Park,
Farningham Road, Crowborough
TN6 2JD England (UK)

+44 (0) 1892 664250
+44 (0) 1892 664340
Info@webstergriffin.com

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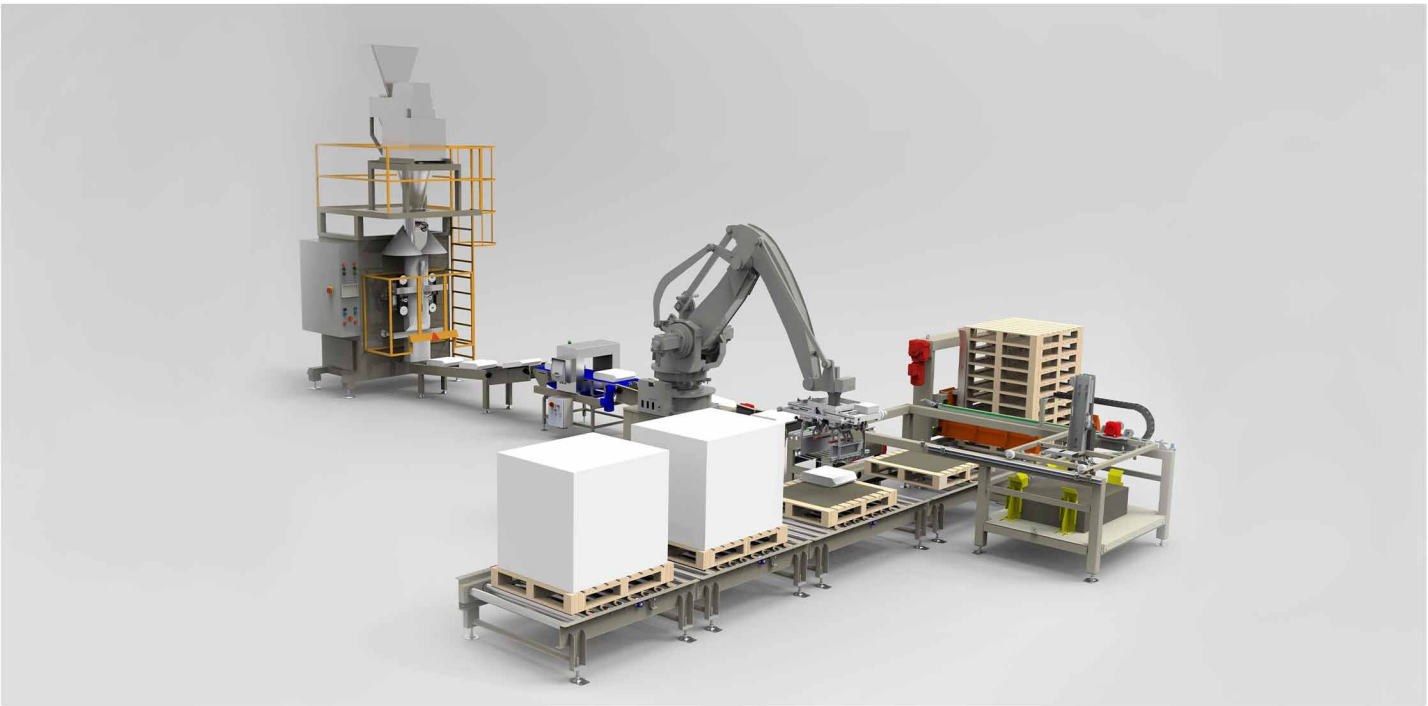
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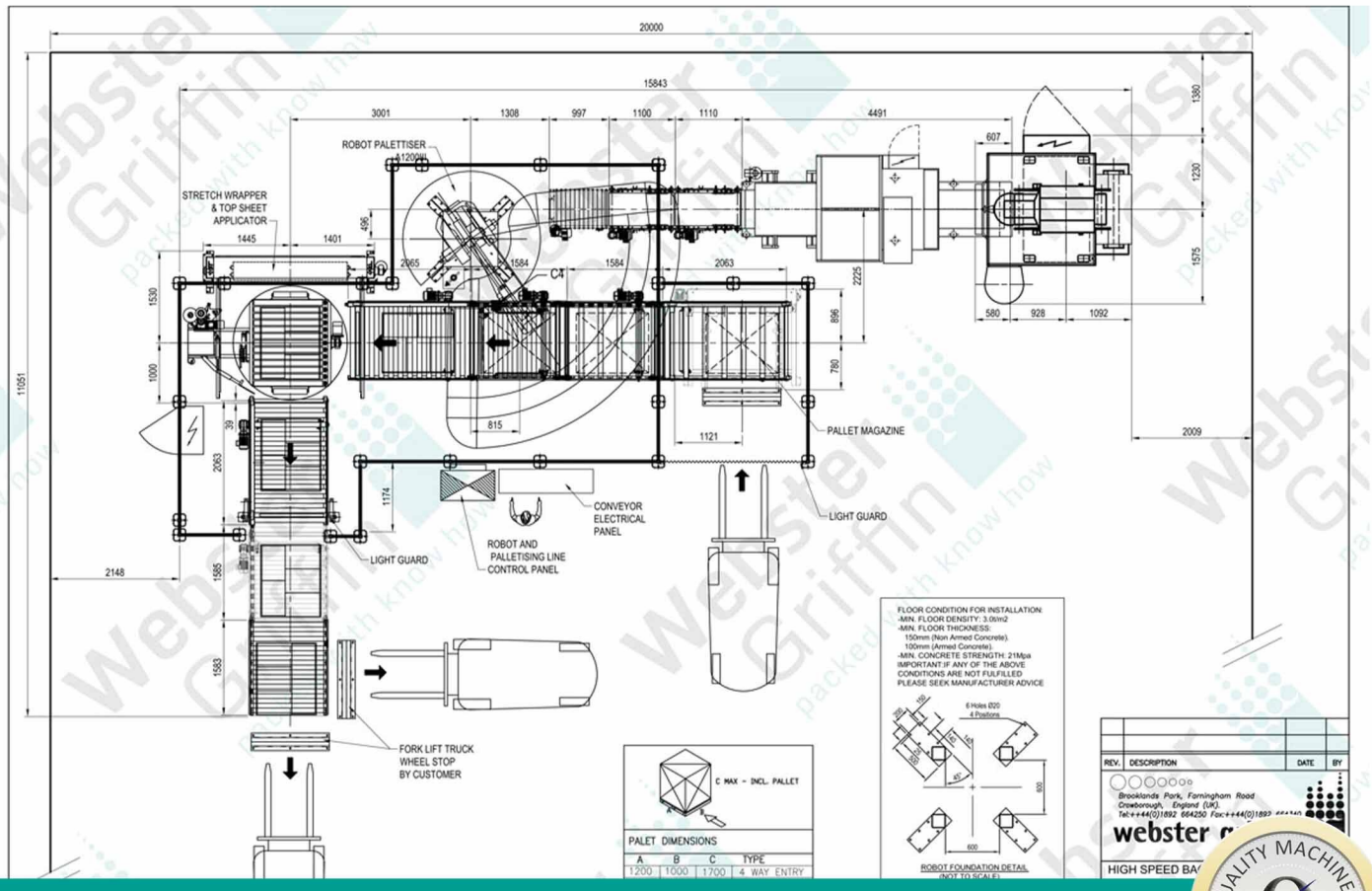
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