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ISSUE NO. 234 APRIL 2020



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The world's leading and only monthly magazine for the dry bulk industry

Webster Griffin
packed with know how

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Webster Griffin mobile bagging systems prove their worth in Rotterdam



UK company Webster Griffin is dedicated to the manufacture of top quality packaging machinery, and is renowned for engineering complete solutions.

The company supplies bulk bag handling and sack packing machinery, palletizing and pallet conveying units, pallet wrapping and stretch hooding equipment to all industrial sectors including food and beverages, equine and animal feeds and petfood, chemicals and plastics, waste water processing, minerals, special cements and aggregates, warehousing and logistics.

The experience that the company has gained over the past 45 years means it can provide its customers with a system tailored specifically to their individual needs.

Webster Griffin's range of equipment comprises bulk bag filling and jumbo bag loading machines, supersack packing, form fill seal (FFS) packaging machines, sack packing installations, bag palletizers, carton, case and bundle palletizers, automatic pallet stretch wrapping systems, pallet stretch hooding machines, pallet roller conveyor systems and automatic pallet handling systems.

The company's capability encompasses the engineering of integrated powder handling installations, complete bag filling lines, conveying and palletizing plants, turnkey conveying & box palletizing systems — all including PLC control panels and integration with its customers' upstream manufacturing processes and information gathering systems.

Mobile bulk bag/big bag filling systems

Webster Griffin's mobile bulk bag /big bag filling systems are installed worldwide for bagging plastic chips, granular fertilizer and various commodities like salt, sugar and chemicals.

It has installed over 280 high-speed bulk bag filling lines in the past 30 years, for a majority of the world's major chemical, plastics and fertilizer producers

The bulk bag/big bag /FIBC (Flexible Intermediate Bulk Container) — with a capacity of 1,000kg, 1,500kg or 2,000kg — provides the optimum unit load for distribution to companies which consume the packed commodity as part of their manufacturing process.



Case study: Indorama Ventures Europe BV

Webster Griffin's mobile machines are employed to 'bag from bulk silos'. One of the company's notable users is the Indorama Logistics Centre in Rotterdam, where PET (polyethylene terephthalate) bottle grade chips and PTA (purified terephthalic acid) are manufactured, stored and distributed to clients throughout

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northern Europe by road tanker and in 1.25-tonne big bags.

They are installed under the silo farms within large logistics centres – either at port locations and within large petro-chemical plants.

The portable machine is of the 'Mono-Block' design. It is an automated self-contained bulk bag weigh-fill system, which runs on a railway track under the silos — or on a large trolley which is towed into position behind a tractor.

For Indorama Venture Europe BV, the mobile unit is built on a special road trailer manufactured by Dutch Company Buiscar.

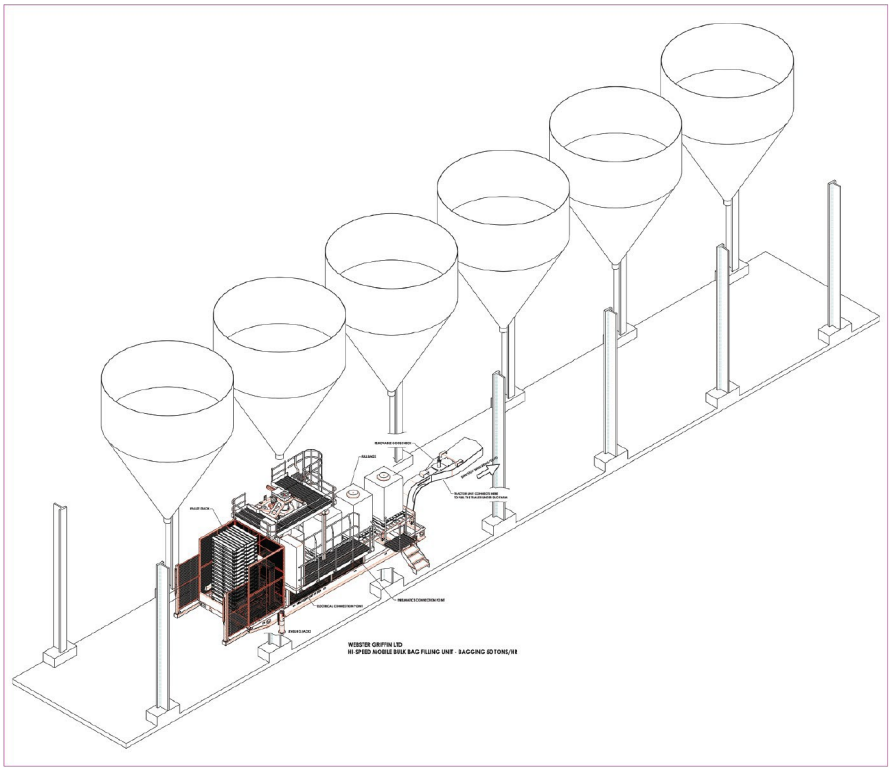
Indorama has three big silo farms at Rotterdam, and Webster Griffin's portable big bag filling unit is towed into position under the silo holding the grade of PET which it wants to ship out to the client.

- bagging PET/plastic bottle-grade chips;
- bagging rate 40–50tph (tonnes per hour);
- filled bulk bag weight 1.0–1.5 tonnes;
- bagging operation: 24 hours/day, five days/week
- special feature: build standard for corrosive, exposed marine location.

Webster Griffin is a major supplier of equipment to Indorama. Among its other notable deliveries is its jumbo bag filler to Indorama's SSP (solid state polymerization) plan in Port Harcourt in Nigeria. Indorama has previously purchased bulk bag filling machines for its PET plans in Indonesia (three lines), Thailand (four lines), the UK, India and Lithuania.

The challenge was to achieve reliable, high-speed bagging in an inhospitable tropical environment, ensuring that Indorama can provide continuity of supply to its customers. The solution was the IBC-PF4 high-speed bag filling system with ergonomic features and patented 'semi-suspension' weigh-fill technology assuring production is maintained around the clock.

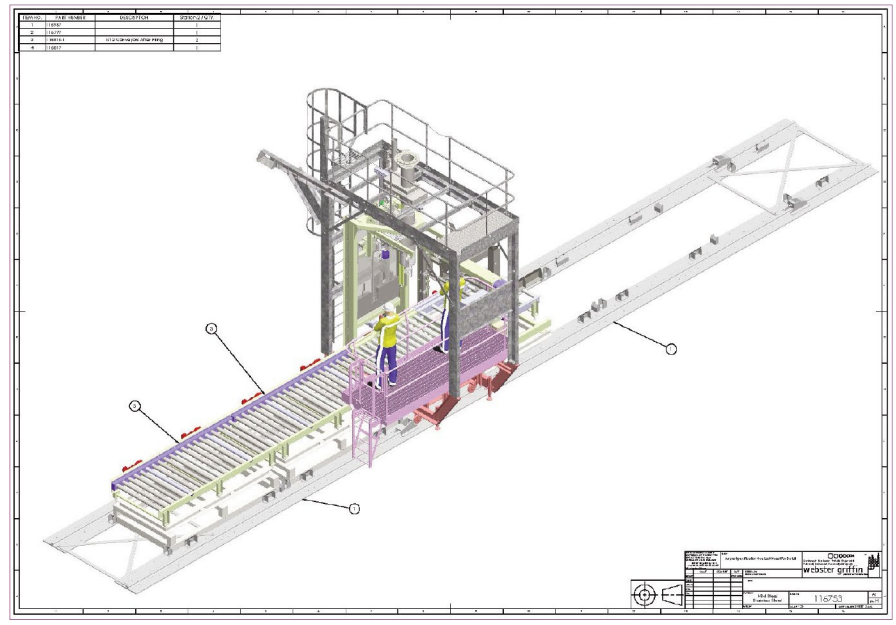
Advantages of the high-speed IBC-PF4



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big bag filling line for Indorama Ventures include:

- future proof: high-speed IBC-PF4 big bag filling line means Indorama can satisfy customer demand well into the future;
- efficient — automated operation enables Indorama to run a 30–40tph bagging line with one operator;
- tailor-made solution: standard modules are integrated into a system to suit the customer's exact requirements;
- traceability: printed ticket provides batch and bag identification.



Indorama Eleme Petrochemicals Limited concluded the project on schedule and successfully commenced operation of new 75,000tpa PET SSP facility in Nigeria for bottle-grade PET chips.

Indorama Corporation is one of Asia's leading chemical holding companies. Today, Indorama manufactures a multitude of products including polyethylene, polypropylene, nitrogen fertilizers, phosphate fertilizers, polyester, polyester feedstocks, textiles, and medical gloves. It is the largest producer of polyolefins in West Africa, the largest producer of fertilizers in Sub-Saharan Africa, and one of the largest producers of synthetic disposable gloves in the world. It is also a geographically diversified producer of spun yarns.

Along with its affiliate Indorama Ventures in Thailand, Indorama operates more than 70 manufacturing sites in over 30 countries and employs over 30,000 people worldwide. Indorama Ventures is the largest producer of polyester products in the world with plants in five continents and also one of the biggest producers of polyester feedstocks. In addition to polyester, Indorama Ventures also manufactures intermediates such as IPA and performance materials made from fibres such as polypropylene, nylon, viscose, and aramids.



Case study: Reliance Industries India

A Webster Griffin mobile machine is installed at the integrated petrochemical plant of Reliance Industries in Jamnagar, India.

This Hi Speed Jumbo Bag Filling Machine is mounted on a chassis with flanged steel wheels which run on a railway track bolted to the floor beneath the silos. (see drawing above)

- bagging — special polymers and plastic resin pellets (multiple grades);
- bagging rate — not disclosed (fast);
- filled bulk bag weight 0.75–1.5 tonnes;
- bagging operation 24 hours/day, seven days/week; and
- special features: Hazardous area Certification ATEX, 'tool-free' cleaning between grades, 'pin point' weighing technology — minimizes product giveaway.

This machine is one of 13 (thirteen) jumbo bag filling lines which Webster Griffin has supplied to Reliance since 1996, for bagging a wide range of powdered chemicals , resin chips and plastics pellets.

Reliance Industries India offers a wide range of grades of polymers for diverse applications across sectors such as packaging, agriculture, automotive, housing, healthcare, water and gas transportation, and consumer durables. Products are also exported to more than 60 countries. Driving growth is the Polymer Research and Technology Centre (PRTC), which addresses the diverse needs of Reliance's customers and facilitates value-added performance.

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