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INDORAMA
ELEME PETROCHEMICALS

Plastics & resins

Continued success for Webster Griffin! 9th PET Chip bagging system supplied to Indorama since 1994.



Ergonomic Filling Spout to suit tall or short operators, no bending required - empty bag placing easy and quick

CHALLENGE

To achieve reliable, high speed bagging in an inhospitable tropical environment ensuring that Indorama can provide continuity of supply to their customers.

SOLUTION

Having analysed Indorama's requirements, Webster Griffin proposed a high speed big bag filling system with ergonomic features and patented "semi-suspension" weigh-fill technology assuring production is maintained around the clock.

RESULT

Indorama PET (Nigeria) Limited concluded project on schedule and successfully commenced operation of new 75,000 tonne per annum PET Solid State Polymerization (SSP) facility in Nigeria for bottle grade PET chips.

The Client

Indorama Ventures Public Company Limited is the largest global PET producer in the world.

Indorama selected Webster Griffin's Jumbo bag filling line for their new PET (Polyethylene Terephthalate) chip SSP (Solid State Polymerisation) plant in Port Harcourt, Nigeria.

This is Indorama's first PET investment in Africa, making it one of Africa's two PET producers.

Indorama previously purchased Webster Griffin's bulk bag filling systems for their PET plants in Indonesia (x 3 lines), Thailand (x 4 lines), UK, India, Lithuania.

Benefits

- **Future proof –** high speed IBC-PF4 big bag filling line means Indorama can satisfy customer demand well into the future.
- **Efficient** - automated operation of IBC-PF4 enables Indorama to run a 30 ton/h bagging line with one operator.
- **Tailor made solution** - standard modules integrated into a system to suit their exact requirements in Nigeria.
- **Traceability** - printed ticket provides batch and bag identification

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CHALLENGE

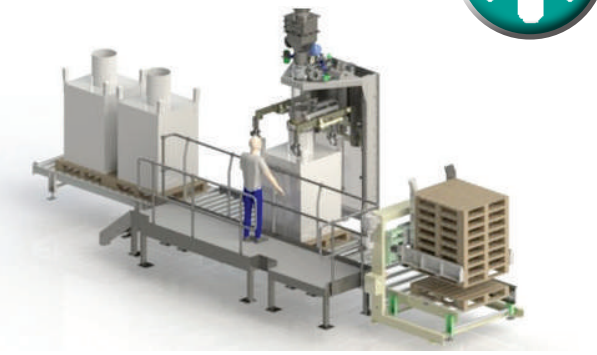


Indorama Eleme Petrochemicals manufacturing plant in Port Harcourt, Nigeria

To achieve reliable, high speed bagging in an inhospitable tropical environment ensuring that Indorama can provide continuity of supply to their customers:-

- Spare capacity to secure rapid growth in a fast-growing market.
- Reliable and consistent weighing accuracy
- Batch traceability (PET chips are a high value product used for making food packaging)
- User-friendly controls
- To function 24 hours per day in a humid, high temperature environment.
- Machinery to meet international safety standards.
- To work with a supplier who would understand their objectives, issues and problems.
- A partner with experience of integrating the bagging line into the PET production process.

SOLUTION



Bulk Bag Filling Line for Plastic Pellets

Having analysed Indorama's requirements, Webster Griffin proposed a high speed big bag filling system with ergonomic filling spout and patented "semi-suspension" weigh-fill technology, so packing rate is maintained.

The IBC PF4 bulk bag filling is patented technology manufactured by Webster Griffin in the UK. Webster Griffin operates globally having supplied over 85 big bag machines for packing plastic chips, pellets and resin powders. Indorama's solution was tailored to meet their specific requirements.

- Bag is suspended during the automatic weighing and filling process to ensure it is filled evenly and is stable when filled.
- Bag suspension system ensures loose inner PE liner is not tangled up and does not rupture during filling process
- Printing of bag identification label for batch and bag traceability
- Bag height check feature with auto adjustment/reset for different bag sizes – no manual resetting required.
- Bag filling "stabilisation technology" for high throughput bagging
- Ergonomic filling spout to suit tall or short operators –no bending required when applying empty bags
- "Overfill prevention" – full bags cannot jam under spout at filling station
- Control system with Ethernet & Modbus communication protocols.
- Check weighing of every filled bag – with feed back loop ensures consistent weight accuracy.
- User friendly - full colour operator's touch screen panel
- Low running costs/power requirement



High speed bagging – around the clock

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SOLUTION



IBC-PF4, patented bag filling technology – over 260 systems worldwide

- Simple routine maintenance with one 1 hour per month and one annual 7 hour service
- Built-in air conditioning of control panel avoiding need for separate control room.

"Indorama certainly appreciate Webster Griffin's collaborative approach and willingness to help them achieve their goals. Indorama chose the IBC PF4 for its well proven robust design, ease of operation and enduring performance"

Mark Wilson, Sales Director

RESULT



PET Chips are used to make bottles for drinking water and carbonated beverages

Indorama PET (Nigeria) Limited successfully commenced operation of its new Solid State Polymerization (SSP) facility in Port Harcourt, Nigeria. Indorama are now producing 75,000 ton per annum bottle grade PET chips. Indorama are now in discussion with Webster Griffin about future global investments

Having built and tested the line at their UK factory, Webster Griffin commissioning engineer Attila Bogadi made two visits to the factory in Nigeria. The first was to supervise the installation of the system and the second for the "wet" commissioning.

On his second visit, Attila (in blue polo shirt) gave technical training to Indorama's technicians and operations.



The Indorama team!

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