

HIGH SPEED BULK BAG FILLING SYSTEM FOR 4 LOOP BULK / BIG BAGS.

The IBC-PF4 is a bulk bag weigh-fill machine - the bag is weighed as it is filled, therefore, you do not need to install a weigh hopper above the filling station and you benefit from an installation with very few moving parts - only requiring one annual service.

Ergonomic & User Friendly

At Webster_Griffith we are continuously developing our machines to improve performance, reliability, safety and ease of operation and maintenance. Recent innovations include "semi-suspension" jumbo bag filling concept and ergonomic spout which automatically moves towards the operator - making the application of empty bags quick, easy and effortless.



- Touch Screen Technology provides the operator with intuitive, easy to understand machine controls. Our "user friendly", menu driven colour screen means it is simple for the operator to select different packing programmes, diagnose faults and identify the reason for any machine stoppage.
- The full bag is checked weighed after filling and the actual net weight of product in the bag is recorded and used to verify/optimize the weigh feeder control settings.
- This jumbo bag filling unit is a 'mono-block' big bag weighing and filling machine - pre-assembled and fully tested as a working unit at our factory - therefore it is quick to install and start up at site.
- With the unique "semi-suspension" filling systems bags are initially suspended, inflated and then settled down onto the pallet during filling - neat, square, symmetrical, bags are always filled, when packing aerated powders an integral vibration platform is added to remove entrained air and ensure the full bag are consolidated and stable.
- Innovative ergonomic design means this machine is easy and safe to operate. On latest models the filling spout automatically slides towards the operator so he/she does not need to lean over when applying/loading the empty bag onto the machine.
- Owing to its unique design this FIBC filling machine is automatically "self-adjusting" for bags ranging in height from 1100mm to 1900mm - which allows the machine to compensate for different bag weights, variations in bulk density and variations in bag dimensions, while ensuring that a perfectly shaped, square filled bags are produced.
- Full bags are accumulated on conveyors down-stream of the weigh-fill station and a special version with belt conveyors - instead of roller allows you to save running costs and operate without pallets.
- The machine is equipped with a dedicated control panel, including Siemens S7 PLC with integral Profibus and Ethernet. The profibus link between our weighing controller and PLC means that weightment automatic when changing from one product/bag weight to another (and one bag size to another). The weighing system is supplied ready for connection to client's DCS or weightment data logging software running on a local PC connected to clients office network.

Giving you:

- Patented protected 'semi-suspension' filling concept
- High throughput
- Compact 'integrated' weigh fill machine
- Tightly packed stable bags
- Automatic bag height adjustment
- 'Self Adjusting for variations in:-
 - o Bag weight
 - o Bag dimensions
 - o Variations in product bulk density
- Outstanding accuracy - Auto Tare - deducts weight of bag and pallet giving Net weight of product in the bag
- Clean operation
- Low maintenance
- Ability to fill - bags, boxes, bins...
- Requires low headroom
- Integral highly accuracy loadcell weighing system
- Check weighing of every filled bag
- Verification of filled bag weights analysed to optimise product feeder control
- Few moving parts - (lubricant level every 6 months, annual service)
- Modular - monoblock design for quick installation
- Ergonomic design (latest version only)
- PLC Control:-
 - o Siemens S7
 - o Allen Bradley
- Fully assembled and factory tested by our in-house inspector

Ideal for packing:

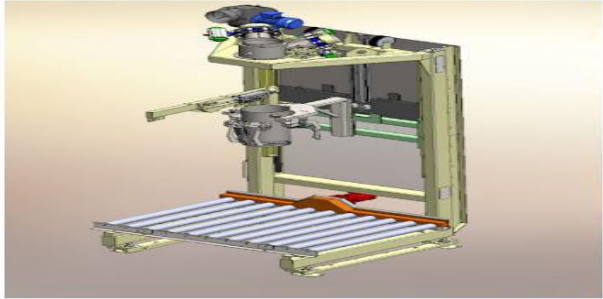
- Plastic/resin chips
- SPVC powder
- Chemicals
- Titanium dioxide
- Carbon black pearls
- Detergents
- Skimmed milk powder
- Sugar
- Salt
- Rice, lentils, grain
- Oat flakes
- Fertilizer
- Aggregates

Throughput:

- 25 - 45 big bags per hour

Standard Options:

- Product feeding and dosing device to suit clients product
- Auto bag-on-spout 'top-up'
- High speed bag inflation fan 3.5kw
- Product contact parts stainless steel 304I, 316I
- Filling spout:-
 - o pneumatically actuated mechanical clamp
 - o inflatable collar
 - o trickle proof flaps
- Product compaction/consolidation system by integral vibrating platform
- Ergonomic design for effortless bag placing
 - o Swinging bag loop hooks
 - o Auto releasing bag loop hooks
 - o Filling spout moves towards the operator
 - o Height adjustable operators platform
- Automation:-
 - o self releasing bag loop hooks
 - o swinging loop hooks
 - o sliding filling spout
 - o pallet roller conveyors
 - o full bag belt conveyors for 'Pallet-less' bag handling
 - o pallet chain conveyors
 - o empty pallet magazine with latches or retractable forks
 - o plastic sheet applied onto empty pallet
 - o cardboard sheet placed onto empty pallet
 - o auto bag neck sealing/welding
- In-chute metal detection
- In-chute metal separation by rare earth magnetic grid
- Corrosive environment
 - o General Fertilizer specification
 - o Urea specification
 - o Ammonium nitrate specification
 - o High alkaline - salt specification and caustic soda specification
- Food grade standard HACCP
- Chemical Industry Specification
- Production reports
- Data logging on remote PC (**see Weighing and Control**)
- Data output
 - o Label/ticket
 - o Report printer
 - o Plant interfaces
 - o RS 232, RS422, RS485 (ASC11)
 - o 4-20mA (via PLC)
 - o Ethernet, Profibus, Mod-bus
- HMI -operator interface panel (full colour)
- Special Environment
 - o Zone 21
 - o Zone 22
 - o DSEAR
 - o Intrinsically safe and area classification compliance
- Explosion proof
- Low head room version
- Low noise version
- Turn-key systems



Click here to see a case study on an [IBC-PF4 bulk bag filling system at Awan](#) for chemicals and [Italtet Preforme in Italy](#) for PET chips

