



FORM FILL & SEAL PACKAGING SYSTEMS



CELEBRATING 20 YEARS IN BUSINESS

Vertical Form Fill and Seal Packaging Systems

RMGroup specialise in packaging larger bag sizes, offering the perfect solution for bagging sand, gravel, powder, animal feed, peat/compost, bark, cat litter, pet litter, pet food, seed, chemicals and fertilizer.

Packing capabilities range from 500g to 50Kg at rates of up to 3600 bags per hour.

RMGroup have been installing form fill and seal machines since 1997 and can boast an impressive client reference list.

Advantages of using vertical form fill & seal machines over automatic bagging machines for pre-made plastic bags

Form, Fill & Seal systems are more reliable, allowing the operator to leave the machine unattended and perform other duties.

There is no need to re-stack an empty bag magazine. The FFS machine has a large diameter roll of flat film offering a far greater bag capacity than any traditional magazine.

Our systems produce bags from a roll of flat printed film, providing you with the most cost effective packaging solutions compared to other methods.

The bag is held throughout the filling and sealing cycle and cannot be dropped, whereas an open bag travelling on a filled bag conveyor towards a heat sealer has the potential to collapse before entering the heat sealer.

Principle of operation

The film is shaped around the forming tube shoulder, it is then pulled downwards by rubberized belt pulling units, fixed on either side of the forming tube. The pulling action is initiated by Servo Motors. The length of rotation is controlled using a variable cam or PLC System, which will increase or decrease the length of the bag. The system can also allow for varying widths of packing, a changeover process that can be done in very reasonable time. Once the tube length reaches its pre-set length, horizontal sealing takes place. The sealing unit is attached to a special two way cylinder and hardened sealing jaws. Between the sealing jaws, a cutting blade and hole punch is working independently. Air extraction and Nitrogen flushing can also be provided if required.

- **Highly recommended for those looking to bag large volumes of product**
- **Greatly reduces cost of film for those looking to bag over 1,000 tones of product.**
- **Ideal for long production runs**
- **Easy to operate**
- **Low maintenance costs**
- **No bag pick up or presenting issues**
- **Bag size change times can be reduced to a couple of minutes**

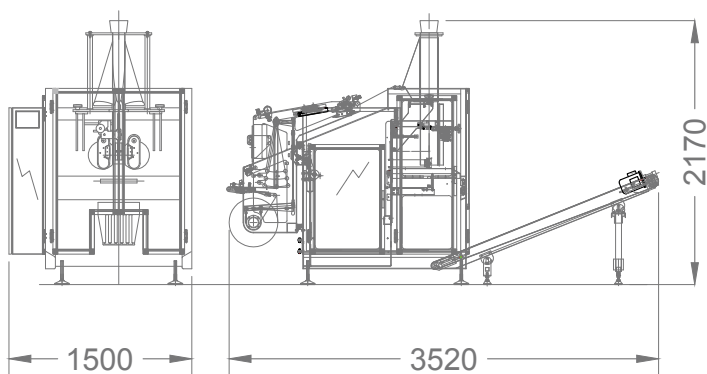


FPK 42

The FPK 42 is the smallest packaging system in the form fill & seal series. It is ideal for those looking to pack 1 - 5Kg bags. Together with a multi-head weigher, the system is capable of achieving up to 60 bags a minute, depending on the product type.

Technical Data

Sack Dimensions	270 x 380mm
Maximum Reel Width	600mm
Maximum Reel Diameter	400mm
Designed Speed	60 Bags P/Min*
Power Input	4Kw
Air Consumption	50 Litres per cycle
Weight	800Kg
Applied Technology	Electric pneumatic



FPK 44

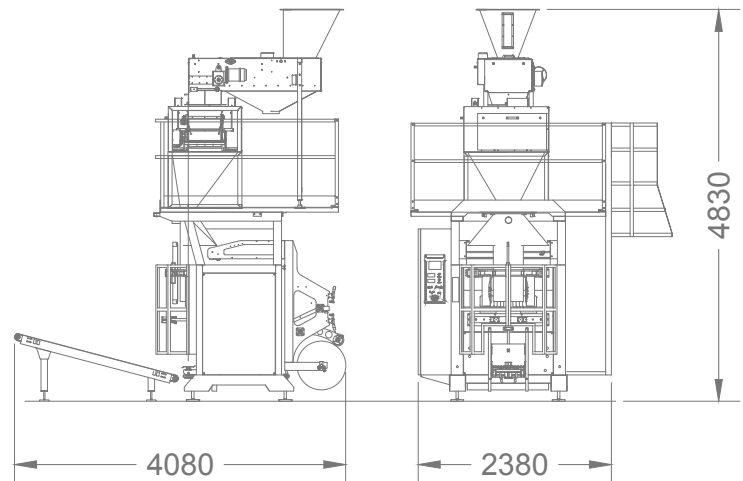
The FPK 44 is one of the most popular Form Fill & Seal vertical bagging systems. It proves to be extremely versatile to handle most applications. Previous installations include packaging lines for wood pellets, animal feeds, rock salt, wet sand and other aggregates.

This particular model can be manufactured specifically for bagging rock salt. It comes fitted with stainless steel contact parts to counteract the abrasive qualities of the product, thus providing a robust bagging line for the customer for years to come.



Technical Data

Sack Dimensions	680 x 480mm
Maximum Reel Width	1000mm
Maximum Reel Diameter	600mm
Designed Speed	30 Bags P/Min*
Power Input	6Kw
Air Consumption	50 Litres per cycle
Operating Pressure	6 Bar
Weight	2200Kg
Applied Technology	Brushless Motor



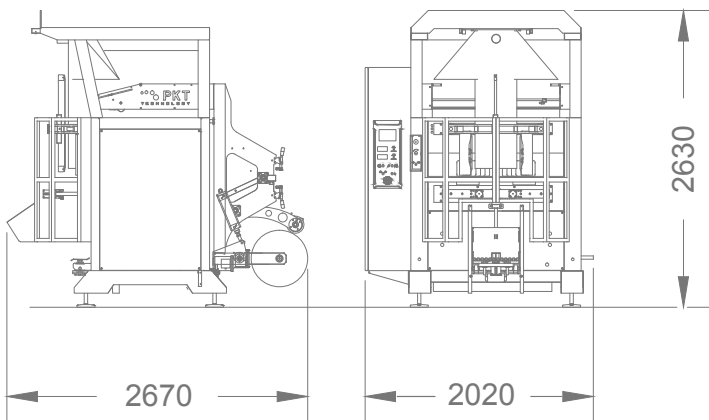
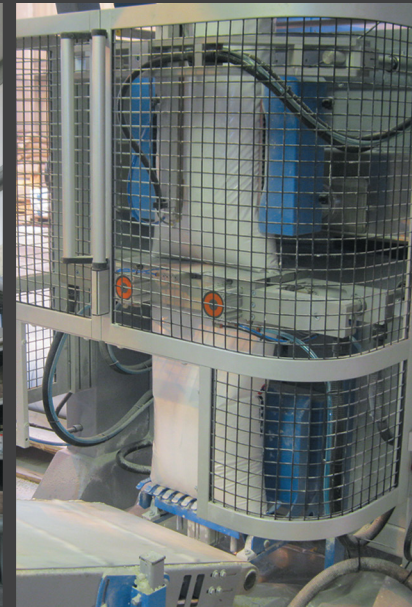


FPK 46

The FPK 46 provides the perfect solution for those looking to bag Animal feeds, cat litter or wood pellets. It has the ability to reach a throughput of 16 bags a minute, depending on product type and bag size. The FPK 46 is one of the most popular Form, Fill & Seal machines available, due to its versatility to lend itself to many products along with its robust mechanical components.

Technical Data

Sack Dimensions	830 x 530mm
Maximum Reel Width	1100mm
Maximum Reel Diameter	600mm
Designed Speed	15 Bags P/Min*
Power Input	6Kw
Air Consumption	50 Litres per cycle
Operating Pressure	6 Bar
Weight	2400Kg
Applied Technology	Brushless Motor



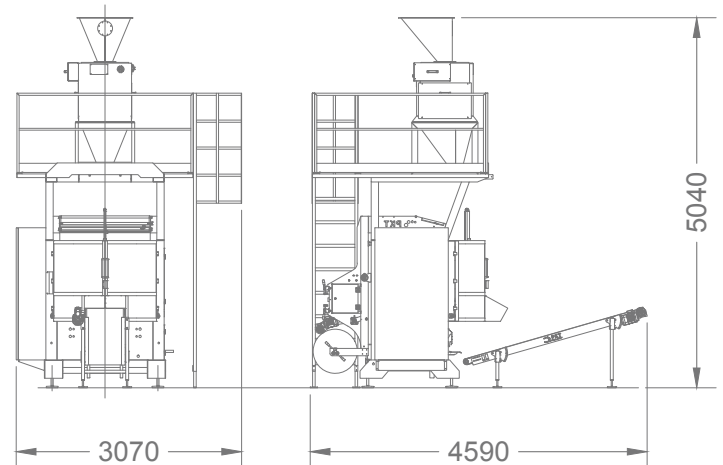
FPK 48

The FPK 48 follows the FPK 46 in the form, fill and seal range. It has a larger film reel width for production of larger bag sizes. Previous applications used with this machine include coal, animal feeds and wood pellets.



Technical Data

Sack Dimensions	980 x 580mm
Maximum Reel Width	1200mm
Maximum Reel Diameter	600mm
Designed Speed	15 Bags P/Min*
Power Input	7Kw
Air Consumption	50 Litres per cycle
Operating Pressure	6 Bar
Weight	2800Kg
Applied Technology	Brushless Motor



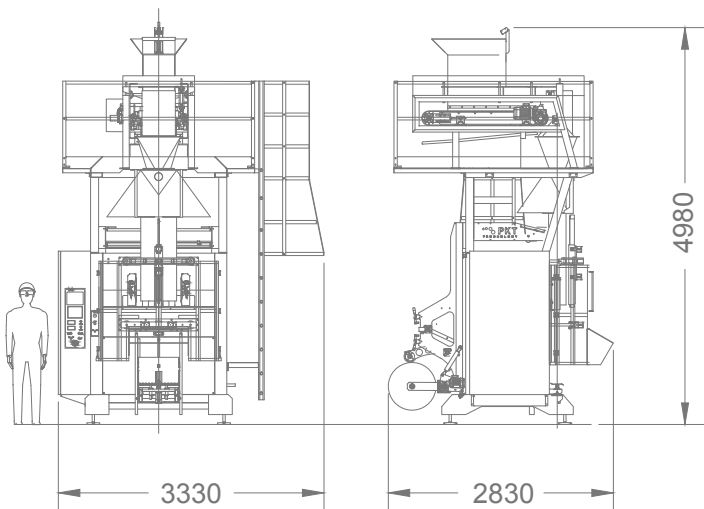
FPK 50

The FPK 50 lends itself to bulky products. However an advantage of using the FPK 50 is that it is capable of bagging in a smaller bag sizes. This system is far more suitable to those looking to use a euro pallet for bigger bags.



Technical Data

Sack Dimensions	1080 x 630mm
Maximum Reel Width	1300mm
Maximum Reel Diameter	600mm
Designed Speed	15 Bags P/Min*
Power Input	7Kw
Air Consumption	50 Litres per cycle
Operating Pressure	6 Bar
Weight	3000Kg
Applied Technology	Brushless Motor



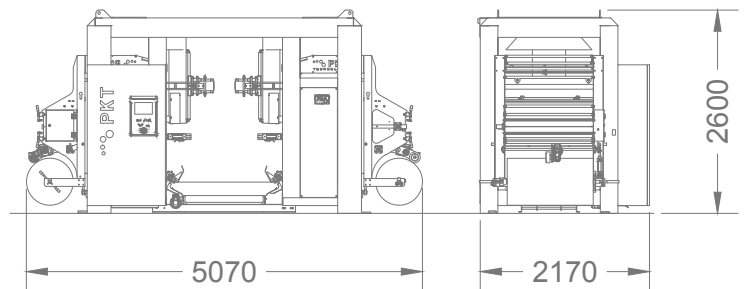
EK 66

The EK 66 combines two FPK46 machines to form a high speed system that's capable of producing 60 bags per minute. The two systems work in synchronisation, cycling alternately in order to efficiently produce and convey the bags. The system is extremely popular with coal distributors as it can pack 25Kg coal at a rate of 20 bags per minute.



Technical Data

Sack Dimensions	830 x 530mm
Maximum Reel Width	1100mm
Maximum Reel Diameter	600mm
Designed Speed	60 Bags P/Min*
Power Input	12 Kw
Air Consumption	100 Litres per cycle
Operating Pressure	12 Bar
Weight	5000 Kg
Applied Technology	Brushless Motor





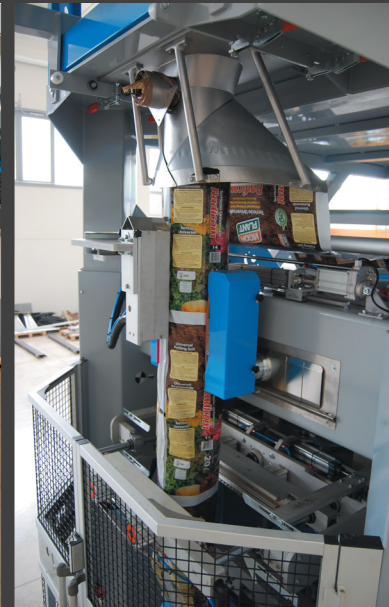
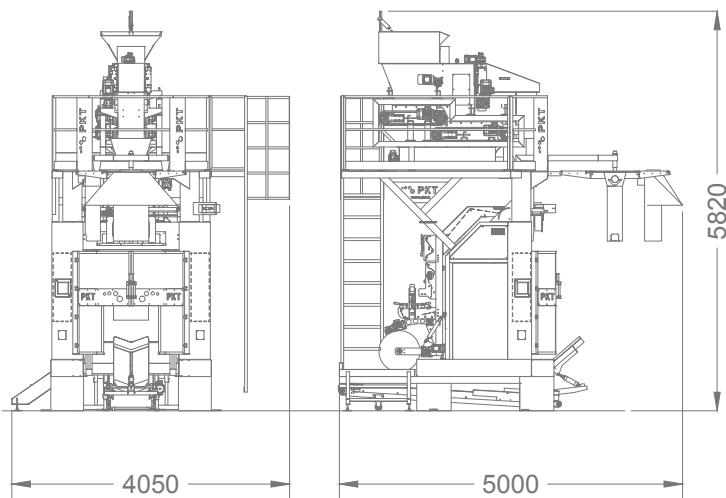
FPK 88

The FPK 88 incorporates the latest in FFS technology, its design allows for continuous product production.

The high speed 2,000+ bag-per-hour continuous vertical form fill and seal machine for large bags. Everything is contained within the machine frame, including the control cabinet. A PC multi-axis servo motion system and integrated HMI touchscreen machine controller allow for a very compact footprint.

Technical Data

Sack Dimensions	980 x 580mm
Maximum Reel Width	1200mm
Maximum Reel Diameter	600mm
Designed Speed	30 Bags P/Min*
Power Input	7Kw
Air Consumption	50 Litres per cycle
Operating Pressure	6 Bar
Weight	2800Kg
Applied Technology	Brushless Motor



Form Fill and Seal De-aeration

RMGroup are proud to present an innovative packaging solution to the cementitious packaging industry.

The Vertical form fill and seal vacuum packaging machine uses flat film on a reel to produce a waterproof bag suitable for cement, powder & food products. Before the bag is sealed the de-aeration system expels air out of the bag to create a vacuum with block bottom bag. The polyethylene bag produced is completely sealed and excludes micro perforations. This technology will inevitably displace the use of expensive paper valve sacks.



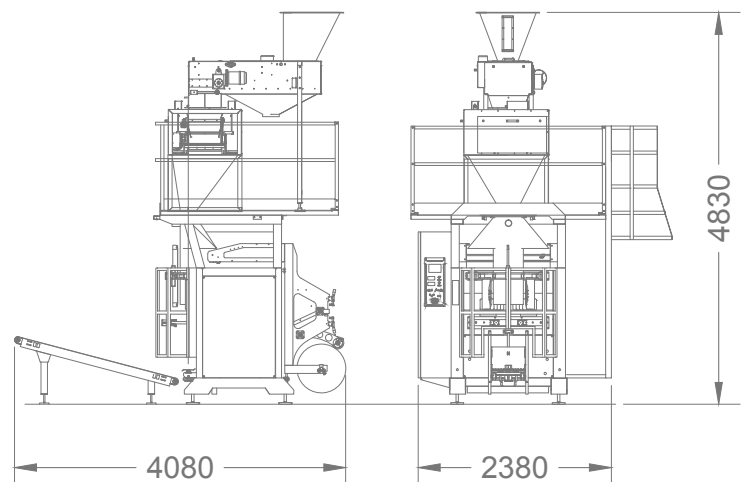
Benefits & Features

- Capable of producing up to 8 bags per minute.
- Vast cost savings on packaging: Valve sacks can cost in excess of 25p per bag as opposed to cost of a flat film bag at less than 12p per bag.
- Polyethylene bag is not affected by any form of moisture, unlike paper bags.
- Substantially cost savings on capital expenditure of machinery.



See Our Systems Operating

RMGroup have installed the FFS: Deaeration System for post mix suppliers in the UK. Please contact our sales team to arrange a viewing of the system in operation. Alternatively you could visit our website to watch the video and find out more about all products supplied by RMGroup.



Aftersales Service & Support

Here at RMGroup we understand that the availability of parts and a strict service regime is crucial to all of our customers to minimise downtime. That's why we have compiled a number of preventative measures for our customers to put in place following the commissioning period. Our highly skilled mechanical and electrical engineers are the driving force of our 'customer care team'. To book a service visit simply contact our office.

Warranty

All new equipment supplied by RMGroup is covered by 12 months warranty. Used equipment is supported by 6 months warranty. This covers any repair or replacement of defective parts from the date of installation.



As standard, all systems are installed by our engineers who stay on site until your operators are comfortable to operate systems alone. Any additional training can be provided at a later date.

Response Package

Designed to support unplanned down-time. Our priority is to resolve the problem and return you to production as soon as possible, 24 hours a day, 365 days a year, RMGroup is guaranteed to be on hand to answer technical questions and provide priority telephone and reactive response service at short notice.

Emergency call outs are based on two different rates and include an annual fee.

Spares Packages

RMGroup endeavour to hold all consumable spares for your systems in stock. Spares can be sent on an overnight delivery and can arrive with customers before 9am. (orders can be placed up to 5pm)

For every new system installed, a spares list can be provided and all consumable spares highlighted. Giving the customer an option to purchase a pack of all consumable spares to store on site.

Preventive Planned Maintenance

Preventative maintenance carried out by one of our dedicated service team is essential in allowing you to minimize the risk of equipment failure and expensive production downtime.

- Scheduled Preventative Maintenance
- Maintenance report
- Technical Support (office hours)
- Recommendations for optimising performance, longevity and safety, whilst on site
- Advice on programming, fault-finding other related work, whilst on-site.

A copy of the engineers worksheet will be sent as receipt to your office. Planned Preventative Maintenance is charged based on required visits per annum, type of systems and number of required engineers on site to carry out servicing.





Coed Y Rhos,
Mochdre
Newtown, Powys
Wales,
SY16 4JN

☎ +44 (0) 1686 621704
✉ sales@rmgroupuk.com
🌐 www.rmgroupuk.com