



MANUAL BAGGING SYSTEMS



CELEBRATING 20 YEARS IN BUSINESS

Manual bagging systems

What you can expect from our Manual Bagging Systems

RMGroup tailor manual bagging systems to suit your product, bag type and desired throughput. All systems are built to order, so our technical sales department and design engineers work with you to create a bagging line specific to your application and budget.

RMGroup supply the complete system from bulk hoppers, in-feed conveyors and weighing systems through to the bag handling, sack closing and bag preparation machinery. Our programming engineers design bespoke programmes to suit your application. That way we can ensure that you achieve optimum outputs from your manual bagging line.

Manual Bagging systems for products with poor flow characteristics. . .

For products with poor flow characteristics (such as peat, compost and soil) Design engineers have developed an in-feed system which promotes product flow and minimises bridging in the hopper. The MB400C provides the perfect solution to such issues. Our technical engineers designed the hopper with a wide belt conveyor that feeds into a secondary feed conveyor which transfers product through to the loadcell bag clamp. This system eliminates any downtime due to poor flow of product in order to achieve greater bagging speeds.

Include a Bulk Bagging system with your manual system...

The MB400 and MB500 range can be built with integrated bulk bagging system. The system would utilise the same in-feed system used for the small bag filling operation as the bulk bag filling machine. We would supply a heavy duty steel platform to which the small bagging system is mounted. The platform is simply lifted away from the in-feed conveyor and replaced with the bulk bagging frame, weighing platform and control panel. A cost effective solution for customers looking to maximise their product range using one system.



Options & Features...

- **Stainless steel contact parts**
- **Include a robot palletising system**
- **Easy to transport and relocate.**
- **Accurate weightments**
- **Easy to operate**
- **Single or three phase power requirements**
- **12 months warranty on all new equipment**
- **Try before you buy with a model from our hire fleet.**

Products bagged with our manual bagging systems...

- Aggregates**
- De-icing Salt**
- Coal**
- Compost**
- Animal Feed**
- Wood pellets**
- Grains/Lentils/Peas**
- Decorative aggregates**
- Fertilizer**
- Peat**
- Cat litter**
- Tar**

MB300

The MB-300 is a simple, and yet robust bag filling system, capable of bagging up to 300 bags an hour. The starter model in our manual bagging range provides a suitable bagging solution for those looking to test their consumer market with packed product, a desirable investment for those who are new to the packaging industry.

The system accepts various bag sizes and is suitable for many different applications. As standard, the MB-300 comes complete with 4 tonne hopper, shaker tray, electronic twin load cell weighing system complete with weigh indicator, stainless steel pneumatic bag clamp, bag trolley and Star 66 heat sealer with pedalstool and footswitch.



Principle Of Operation:

Loose bulk product is loaded into the hopper by means of a loading shovel. Operators place a pre-made bag on the filling spout. Electronic sensors detect a bag in position the shaker tray fills product into the bag. Once the desired weightment has been achieved, the system automatically shuts off and operators press the red button in order to release the bag from the clamp. The trolley system is then used to support the bag for the impulse sealer before being presented for pallet stacking

This system is also available to hire. Please speak to RMGroup with regard to your requirements. Visit www.rmgroupuk.com for more photos and videos of this system in operation.

Options to include

- Handheld stitching units for paper/polyethylene bags
- Screening systems for fines
- Larger hopper capacity
- Option of including Auger feeding system for powdered products
- Feed conveyor for improved in-feed speed.
- Slip shot hopper lining
- Continuous heat sealer and filled bag conveyor

Technical Data

System type
MB-300

Throughput
300 bags p/hr

Weighing Capabilities
5-30Kg

Sealing Type
Impulse sealing

Air supply
7 CFM

Power supply
240v/415v 16amp



MB400

Options to include

- Handheld stitching units for paper/polyethylene bags
- Larger hopper capacity
- Slip shot hopper lining
- Bulk bag filling system
- Bag kicker and Flattener
- Upgrade with a robot palletising system at a later date

Technical Data

System type
MB400C

Throughput
400 bags p/hr

Weighing Capabilities
10-30Kg

Sealing Type
Continuous

Air supply
7 CFM

Power supply
315v 20 amp

***Product and operator dependant**

The standard MB400 serves as an ideal solution for customers looking to bag good free flowing product. As a manual bagging system with belt in-feed conveyors and variable speeds programming, operators have been known to reach speeds of up to 400 bags an hour.

Standard bagging machines usually include 5m Hopper, In-feed Conveyor, Stainless Steel pneumatic bag clamp, Electronic twin load cell weighing system complete with weigh indicator, 3m filled bag conveyor with guide panels and continuous heat sealer. This system is most suitable for customers looking to include or later upgrade with a robot palletising system.



Principle Of Operation:

Loose bulk product is loaded into the hopper by means of a loading shovel. The belt conveyor in-feed transfers product into the load cell bag clamp. An operator is required to place a pre-made bag in the filling spout. Once sensors detect a bag in position, the in-feed system starts up. Only when the desired weightment has been achieved does the system automatically shut off and the bag is released from the clamp and dropped onto the filled bag conveyor. It is then conveyed through the continuous heat sealer before being presented for pallet stacking.



MB400C

If you have a requirement to pack product with poor flow characteristics such as Compost, peat, bark or animal feeds then look no further than the MB400C. Its versatility by allowing users to pack a wider variety of products makes this system a popular choice in the manual bagging range.

Standard systems include 5m³ tonne hopper with wide in-feeding belt, secondary in-feed conveyor, stainless steel pneumatic bag clamp, Electronic twin load cell weighing system complete with weigh indicator, 3m filled bag conveyor with guidepanels and continuous heat sealer.



Principle Of Operation:

Bulk product is loaded into the hopper by means of a loading shovel. The wide belt in the main hopper drives product through and onto a secondary in-feed conveyor which transfers product into the load cell bag clamp. An operator is required to place a pre-made bag on the filling spout. Once sensors detect a bag in position, the in-feed system starts up. Only when the desired weight has been achieved does the system automatically shut off and the bag is released from the clamp and dropped onto the filled bag conveyor. It is then conveyed through the continuous heat sealer before being presented for pallet stacking.

Options to include

- Stitching units for paper/polyethylene bags
- Bag kicker and bag flattener
- Larger hopper capacity available
- USB data export from weigh indicator
- Upgrade with robot palletising system

Technical Data

System type
MB-400C

Throughput
400 bags p/hr

Weighing Capabilities
10-30Kg

Sealing Type
Continuous

Air supply
7 CFM

Power supply
315v 20 amp



MB500

Options to include

- Stitching units for paper/polyethylene bags
- Robot palletising system
- 10/15 Tonne hopper & in-feed
- USB data export from weigh indicator
- Upgrade to an automated bag placing system with heat sealing total bag control.

Technical Data

System type

MB500

Throughput

500 bags p/hr

Weighing Capabilities

10-40Kg

Sealing Type

Continuous

Air supply

7 CFM

Power supply

315v 20 amp

For customers who have an existing in-feed that they would like to utilise then an MB500 bagging system would serve as a practical system upgrade. The MB500 includes an inlet hopper which controls flow of material through to the bagging head. Bagging speeds can be altered with ease using variable speeds programming via the operator control panel. Good operators have been known to reach speeds of up to 600 bags an hour using this system.

Typically, The MB500 includes inlet hopper complete with in-feed belt, stainless steel pneumatic bag clamp complete with weigh indicator, 3m filled bag conveyor with guidepanels and continuous heat sealer. Customers can also include a Hopper and in-feed conveyor from RMGroup to complement the system. Most customers opt for a robot palletising system with their MB500, this however can be added to the system at a later date.



Principle Of Operation:

In-feed conveyors drive product through to the MB500 which transfers product into the load cell bag clamp. An operator places a pre-made bag on the filling spout. Only when the desired weightment has been achieved does the system automatically shut off and the filled bag is released from the clamp and dropped onto the bag conveyor. It is then conveyed through the continuous heat sealer before being presented for pallet stacking.



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.





Unit C
Mochdre Industrial Estate,
Newtown
Powys
Wales
SY16 4LE

☎ +44 (0) 1686 621704

✉ sales@rmgroupuk.com

🌐 www.rmgroupuk.com