

MANUFACTURERS OF SEMI-AUTOMATED &
AUTOMATED BAGGING MACHINES, BAG CLOSING & SEALING SYSTEMS,
BAG HANDLING, ROBOTIC PALLETIZER, MICRO BATCHING SYSTEM
AND PLANT AUTOMATION.

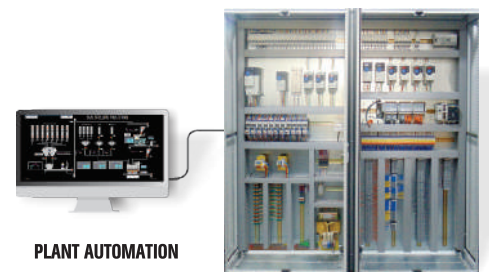


MMR Industrial Solutions Inc. is among the largest bagging machines manufacturers well known for its complete bagging solutions for small and large production houses. Its wide product portfolio includes solutions such as Bagging machines (Net & Gross), Jumbo bagging (FIBC) machines, Bag closing systems, Bag handling, Stretch wrapping, Robotic palletizer, Micro batching, and Plant automation etc.

MMR specialize in Bagging systems for powder and granules serving the Food, Feed, Agriculture, Chemicals, Pesticides, Mining, Dairy, Pharma, Sugar, Petrochemical and Fertilizer industries.

MMR Cornerstones

- Reliability and repeatability of systems.
- Innovative and cost-effective to offer customized solutions.
- Complete bagging solutions proposed.
- Excellent Customer Satisfaction Ratio.



OUR RANGE OF EQUIPMENT INCLUDES

- Bagging Machines with all accessories like sewing, sealing & all Bag Handling equipment
- Bag Dumping Stations
- Robotic Palletizers
- Stretch Wrapping
- Jumbo Bagging Machines with all accessories
- Bulk Bag Unloaders
- Pallet Conveyor System
- Secondary Packaging Machine
- Carousel Bagging Machine
- Micro Batching
- Plant Automation
- Containerized Bagging Machine



OUR CAPABILITIES

- Total solutions from a single source
- Individually developed machinery technology
- Outstanding capabilities
- Absolute reliability
- Great economy
- Comprehensive service

OUR MANUFACTURING & ENGINEERING FACILITIES

In-House Facilities

- Mechanical design using software like Autocad, Autodesk's Inventor and solid works
- Electrical Design
- Machining with CNC Machines facilities
- Fabrication
- Panel building
- PLC Programming

OUR SERVICES

CUSTOMER CARE

Our experts are there for you anytime and anywhere by phone or email and happy to assist you with regard to queries about machines and systems.

SPAREPARTS & DELIVERY

Our specially trained staff are best informed about appropriate spare parts, either manufactured by us or procured from renowned manufacturers. We deploy highly qualified and experienced service engineers on demand for customer satisfaction and therefore provided with long term reliability and operational readiness of your equipment onsite directly and continuously.

DEVELOPMENTS & IMPROVEMENTS

We are happy to share our experiences with customers from the latest product innovations and developments in the systems. We keep our customers in the loop apart from mechanical and electrical improvement and routinely update the software and machines based on customer feedback and industry demand.

CUSTOMER TRAINING

We are happy to help you get to grips with your machines and control system even better with the help of our experts. We offer one to one and customer specific training. The training results in high availability, operational safety and productivity of the plant and machine.

NET BAGGING MACHINE

Net weigher pre-weighs the material in weigh hopper & discharges it into bag. Systems is available with single & dual weigher option for weigh range from 5 to 100 kg per weighment.

We manufacture variety of machines with gravity, belt, twin screw & vibratory feeder for bagging solid products.

Simplex and duplex machine with capacities upto 1000 bags/hr.

Net weighers are versatile and suitable for wide range of products such as **Grains, Plastic, Cattle Feed, Fertilizer, Pellets, Flakes & polymers.**

FEATURES:

- Full loadcell weigher
- Three loadcell suspension.
- Weigh hopper design ensures rapid discharges.
- Micro controller controlled
- Gravity, belt, screw, vibratory or multiple feeder assembly with two or three speed feed arrangement.
- Ten programmable weigh programs selectable through front panel for packing of bags of different capacities.
- Adjustable coarse, feed rate & quantity.
- All relevant data for optimizing bagging cycle be set through the controller.
- Automatic overfill compensation.



MATERIAL FEEDERS

GRAVITY FEEDER:

- Gravity feeder is used for feeding free flowing granular materials, coarse and fine feed flaps are adjustable.
- Capacity upto 450 bags/hr





GRAVITY NET BAGGING MACHINE (Twin weigh hopper)

- Capacity upto 800 bags/hr

SCREW NET BAGGING MACHINE

SCREW FEEDER:

- Single & twin screw feeders are used for feeding fine powders like milk powder, flour, chemical etc.
- Capacity upto 300 bags/hr



BELT NET BAGGING MACHINE

BELT FEEDER

- Belt net bagging machine is ideal for semi free-flowing material or material with lumps including pellets, cake mix, flakes, animal feed, abrasive and coated sand etc.
- Capacity is up to 300-350 bags/hour



VIBRATORY NET BAGGING MACHINE

VIBRATORY FEEDER

- Vibratory feeder are used for feeding materials like cake, flakes, multi feed combination are also provided.

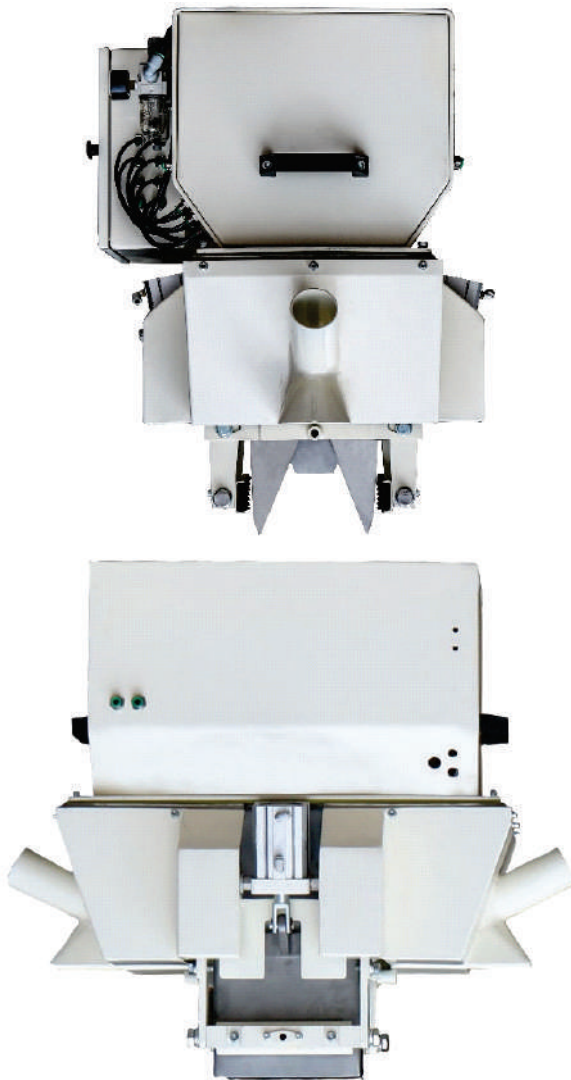
GROSS BAGGING MACHINE

Gross Bagging machines are used for bagging of solid products in which material is directly fed and weighed in the bag. Different feed systems are available for depending on the type of product to be handled.

Gross weighers are suitable for various types of industries such as **Food, Feed, Fertilizer, Grains, Sugar, Polymer, Chemical & Dairy** etc.

FEATURES:

- Full loadcell weigher
- Two loadcell suspension.
- Micro controller controlled
- Gravity, belt, screw, vibratory or multiple feeder assembly with two or three speed feed arrangement.
- Ten programmable weigh programs selectable through front panel for packing of bags of different capacities.
- Adjustable coarse, feed rate & quantity.
- All relevant data for optimizing bagging cycle be set through the controller.
- Automatic overfill compensation.



MATERIAL FEEDERS

GRAVITY FEEDER

- Gravity feeder is used for feeding free flowing granular materials, coarse and fine feed flaps are adjustable.
- Capacity upto 250-300 bags/hr

SCREW FEEDER

- Single & twin screw feeders are used for feeding fine powders like milk powder, flour, chemical etc.
- Capacity upto 250 bags/hr

BELT FEEDER

Belt feeder is used for bagging semi free flowing material or materials with lumps.

VIBRATORY FEEDER

Vibratory feeder are used for feeding materials like cake, flakes, multi-feed combination are also provided.



JUMBO BAG FILLING MACHINE

Jumbo Bag Filling Machine for dust free, efficient weighing, filling of big bags, suitable for all kind of Bulk Solids like Granules, Powder, Pellets and Flakes.

The options of using Gross or Nett weighing depends upon product characteristics and required capacity.

Jumbo Bag Filling Machine is extensively used in various industries like Mineral, Chemical, Fertilizer, Grains & Petrochemical industries, etc.



- Gravity/Screw/Belt Feeder.
- Double walled spout with nozzle for connection to dust collector.
- Pneumatic arrangement for bag shaking.
- PLC Controller.

FEATURES

- Motorized Height adjustment for different bag sizes.
- Bottom Vibration arrangement for proper compaction of the material during filling.
- Roller Belt Conveyor for automatic Feeding and conveying of the Pallets. (Optional)
- Check Weigher using for check the weight of each bag.
- Automatic Pallet Dispenser.
- Sealing/Vacuum sealing of liners.
- Bag Inflation System.
- Dust Extraction with Aspiration Unit.
- Dust Collection Connection Points are provided to ensure dust free loading.



BULK BAG DISCHARGER

- Bulk Bag Unloader is fast and secure, dust free handling and emptying stations for filled jumbo bags.
- The big bag is attached to a hoist device for better handling, picked up and is manoeuvred over the vibrating bottom.
- The Vibrating bottom is suspended in the heavy steel frame by means of spiral springs.
- A sideways mounted imbalance unit generates the vibrating actions to improve the product flow.
- The discharge funnel is integrated with an vibrating bottom and is provided with large access hatch to untie the outlet spout of the big bag. Because the big bag covers the funnel completely and there is a closed system while discharging which creates a dust proof unit.
- The funnel is also provided with a flange connection for a dedusting unit that creates an air compensation while discharging.
- The heavy steel frame is a solid construction of completely closed and welded box profiles. In the funnel, beneath the access hatch, a screening-grid is mounted to intercept possible lumps. The grid is detachable if required.

FEATURES

- Space saving integral bag hoist with runway beam.
- Dispensing of contents by volume or weight.
- Integral conveyor or feeder.
- Full Dust control.



MICRO BATCHING SYSTEM

Micro Batching System is used for dosing fixed quantity of material into the system, for various recipe.

We strive to provide efficient batching and weighing systems for various industrial applications in the food, feed, baking & chemical industries.

The system consists of several storage bins having different material. The material is discharged from the storage bins to the weigh hopper is done through feeders feeding at coarse and fine feed to control the dosed material.

The recipe for the product is set in the control system. Each material as per the recipe is changed from the storage bin to the weigh hopper using feeders then batch is ready, the material from the weigh hopper is discharged for further processing.

MMR offers standard and customized micro material weighing systems to weigh materials that require accurately measured ingredients that are critical to batch integrity. These micro weighing systems can be manual, semi-automatic & automatic.

We offer a Standard or Heavy duty design for which selection is typically driven by the products bulk density and environment of the application. System typically range from 6 to 48 storage/supply bins, with an average of 24 micro bins.

We provide supply bins, feeders, automatic bin refiling, work platform, bag handling equipment, dust collection, and batched material conveying equipment.



BAG CLOSING SYSTEM

BAG STITCHING MACHINES

MMR offers high performance Bag Stitching machine for closing multi-wallpaper bags, woven polypropylene bags, jute bags and any other type of filled bags including wide variety of accessories such as bag top folders, crepe tape, thread or tape break detectors and a full range of conveyors.

OUR VARIETY OF MACHINES

- Stitching with infeed / without infeed
- Single & double Stitching
- Folding & Stitching
- Stitching with over tape
- Stitching with crepe tape



BAG SEALING MACHINES

We offer a superior quality of Bag Sealing Machine that include hot melt adhesive closures for all types of paper bag & plastic bags.

TYPES OF SEALERS

- Impulse sealer
- Continuous sealer
- Radiant sealer
- Hot air sealer

Our bag sealers are known for their durability, compact design and innovative features that includes safe low voltage control panels, over temperature shut down sensors, variable speed drives, bag jam detection and high efficiency heaters that can reduce energy requirements. The equipment has its own controls for sealing temperature and sealing time and easily integrated into semi or fully automated bagging lines. Therefore, it can seal all types of bags.

Our sealers are used widely in the food, chemical, pharmaceutical, dairy, premix and pet food sectors.

OPTIONS

- Impulse Sealer with Scoring for inner liner.
- Bag Conveyors and VFD Controls are All SS304
- Bag top cleaner for sticky or dusty products.
- Pinch closing of pre glued outer bag.
- Custom in feeds designed for bag entry.
- Modular belt conveyor



PINCH BAG SEALER

MMR manufacture Pinch bag closer for sealing & scoring of the inner liner and closing of pre-glued multi wall pinch style bag.

Pinch sealer features a bag top cleaning to remove product debris from the seal area and continuous sealing machine process that sequentially seal the bag and then folds and seals the top of the pre-glued pinch bag.

This technology is particularly used in the chemical, petfood, milk powder, bakery mixes, animal feed & pesticides industries etc.

FEATURES

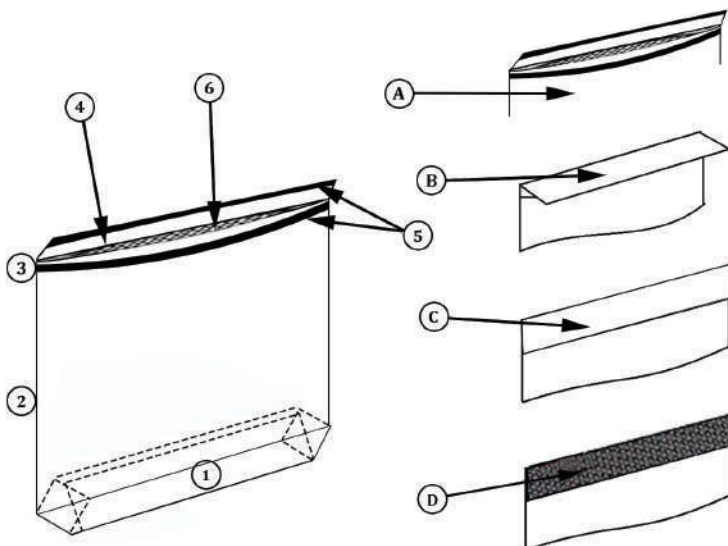
- Bag top cleaning to remove product debris from the seal area.
- Over temperature sensor shut down.
- Motorized adjustable seal height to reduce change over time.

MMR provides complete bag closing solutions for various industries like

- Chemicals & Minerals
- Fertilizer
- Agriculture
- Construction chemicals
- Feed
- Pharmaceutical
- Dairy etc.



PINCH BOTTOM OPEN MOUTH (PBOM)

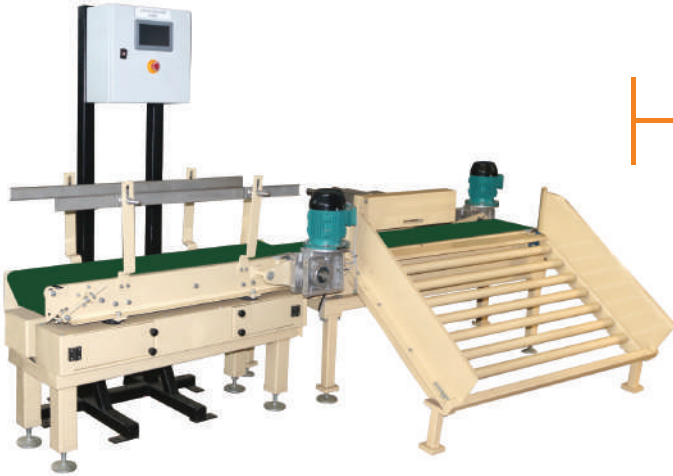


1. Multi wall paper bag & Stepped end bag
2. No gusset or gusseted bag
3. Pasted open mouth
4. Folding line
5. Hot melt glue
6. Inner surface with poly liner

OPERATIONS

- A - Press with hot-sealing
- B - Form with fold plate
- C - Press with fold plate
- D - Seal & Press with hot sealing bar and fold plate

BAG HANDLING



CHECK WEIGHER

A check weigher is a system that weighs items as they pass through the unit. Classifies the items by preset weight zones and ejects or sorts the items based on their classification. Check weighers weigh 100% of the items on a production line.

BAG KICKER

Bag kicker assembly are specially designed to aid in the 90-degree transfer of filled open mouth bags from preceding upstream bag closing conveyors to downstream conveyors when the conveying line requires an abrupt change in direction or when the filled bag must change in order to enter into a bag palletizing system in the correct orientation.



BAG TURNER

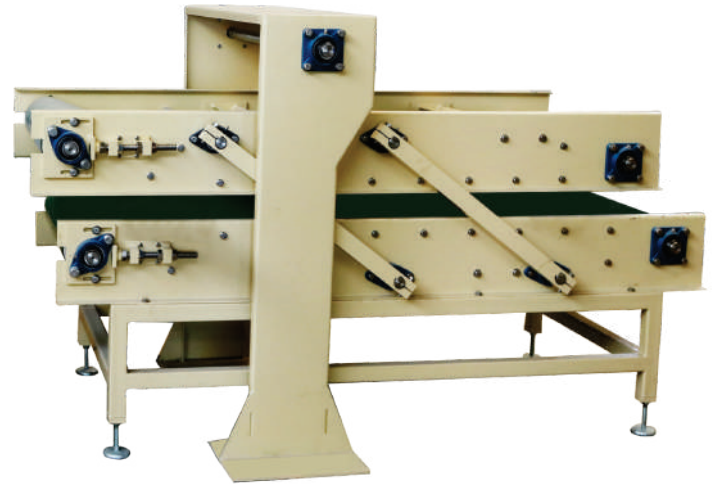
Bag Turner provide in line fall and turn unit is available and it consists of a conveyor with mechanical devices to lay the bag over and position it.



BAG FLATTENER

Bag flatteners are belt conveyors that flatten filled bags for uniform stacking.

Filled bags pass between two sets of belt conveyors that automatically compress and shape the bags to a uniform "brick-like" shape for better palletizing. Uniformly flattened bags ensure less product spillage and product damage due to uneven pallet loads.



BAG INKJET PRINTER

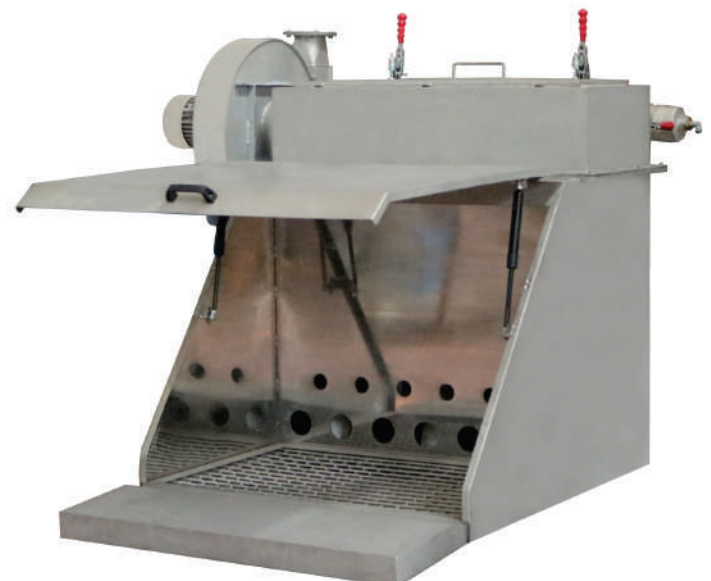
Bag inkjet printer is a type of computer printing that recreates a digital image by propelling droplets of ink onto paper, plastic and other substrates. Inkjet printers are the most commonly used type of printer and range from small inexpensive consumer models to expensive professional machines.

BAG DUMPING STATIONS

MMR manual Bag Dumping Stations provide effective dumping of small volume bags while mitigating loss of product through dusting. Improve worker safety, reduce housekeeping, and keep your material in the product flow where it belongs with a MMR Bag Dumping Station with integrated dust collection.

FEATURES

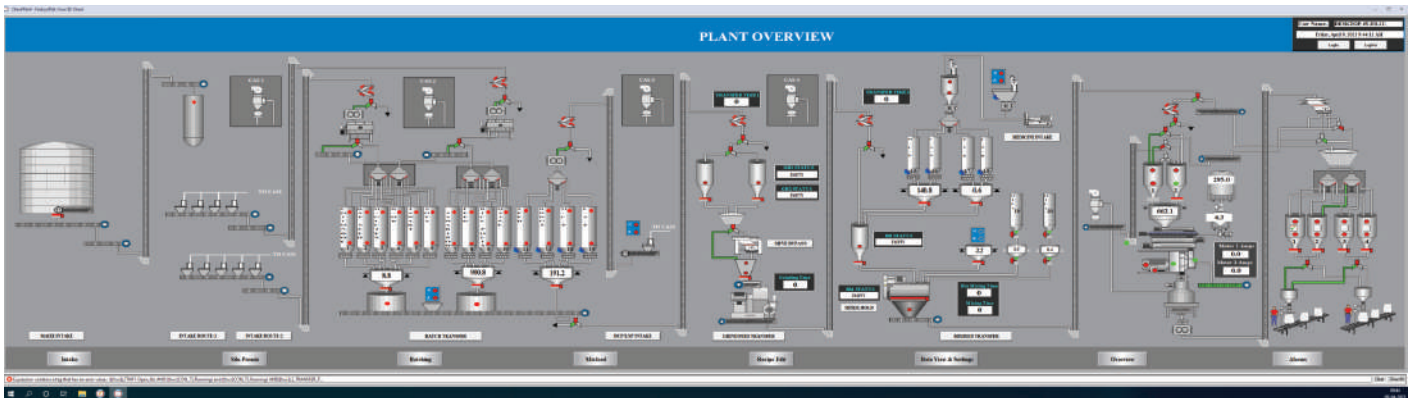
- Hinged Door on Gas Springs
- Platform for placing Sack (bag)
- Reverse Jet sequence of Bin Vent Filter
- High Low-Level Switches



PLANT AUTOMATION

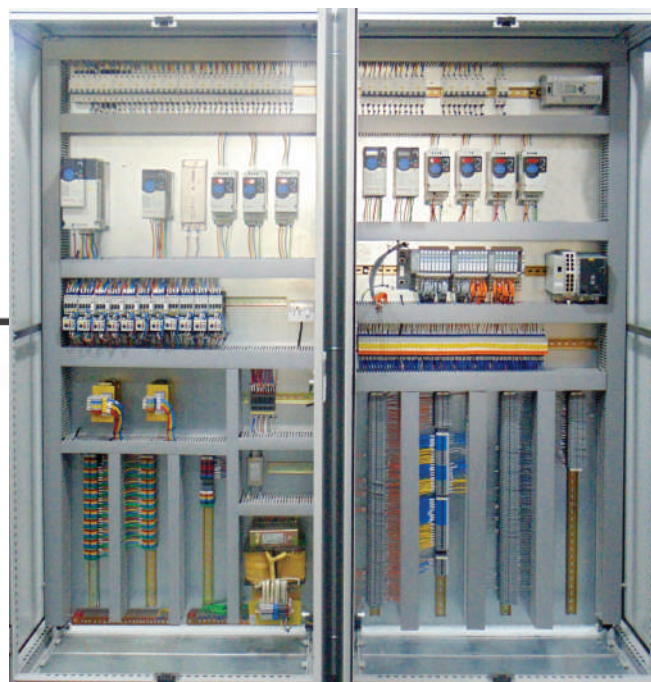
MMR offers automation solutions for various industries. We provide automation for complete plant and machinery. MMR supplied automation systems to most of the large animal feed plants in India. Our skilled team provide site support in the form of supervision of installation, integration of hardware and software with the commissioning support. MMR has facility for PLC panel building, programming and undertaken various projects involving PLC, HMI and SCADA.

MAIN PROCESS CONTROL SYSTEM



ADVANTAGES:

- Exact dosing of various products.
- Accurate temperature control.
- Detailed engineering & installation.
- Reduce Human Reliance and Errors.
- Maximum process reliability and batch tracing.
- Retention control of product.
- Customized control solutions.
- On-site services, commissioning of control systems.
- Online support directly to the system via Internet.
- Reduce waste, re-palletizing product during start/shut down.



ROBOTIC PALLETIZER

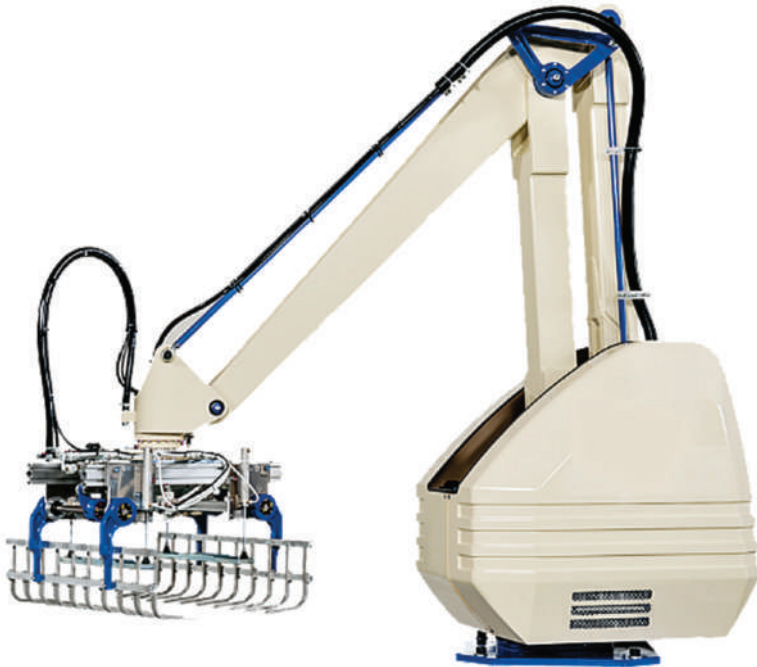
Palletizing is one of the most demanding applications of loading and unloading boxes, bags & containers to and from pallets in an industrial setup. This type of palletizer is transferable and can handle different pallet patterns.

FEATURES

Robotic Palletizer is a specially designed robot arm used in industries to palletize and depalletize the packed goods. It's potential use is where sacks from more than one filling line have to be stacked simultaneously and the advantage where bags have to be placed inside boxes or crates.

APPLICATIONS

It is widely used in almost all types of industries featuring final products in bags, boxes & drums like Chemical, Petrochemical, Dairy, Food & Feed, Grains, Pharma, FMCG, Cement, etc.



STRETCH WRAPPING

Stretch wrapping is one of the easiest and most economical ways to secure a load on a pallet for shipment that stretches the film around it. It protects the pallet from moisture and dust.

FEATURES

The machine can be equipped onto a fully automated bagging or Semi-automated bagging line to complete film wrapping after palletizing the bags.

APPLICATIONS

It is widely used in almost all types of industries featuring final products in bags and boxes like Chemical, Petrochemical, Dairy, Food & Feed, Pharma, FMCG, Electronics, Appliances, Automobile ancillary, etc



PALLET CONVEYOR & TURNTABLE

Pallet Conveyor & Turntable is designed for changing direction of a pallet turning it between 0° to 90° and that can be easily integrated into a line of industrial roller and belt conveyors.

FEATURES

- It can perform de-rotation of moved load from 90 to 180 degrees.
- It can be integrated with stretch arm of stretch wrapping
- It is mainly used for the transfer of pallets but can also be used for the transfer of boxes, bags and Jumbo bags.

APPLICATIONS

It is widely used in almost all types of industries featuring final pallets of bags, boxes and jumbo bag like Chemical, Petrochemical, Dairy, Food Feed, Pharma, FMCG, Electronics, Appliances, Automobile ancillary etc.



PORTABLE MOBILE BAGGING MACHINE

MMR Portable Mobile Bagging machine is a transportable system that provides operational flexibility and a fast return on capital investment and can be utilized either ship side, to bag directly from the vessel or warehouses.

The transportable bagging unit comprises two shipping containers modified with side openings, flooring, and support members with weighing and bagging equipment inside. The top container houses material hopper and weighers and in the bottom container the discharge chute, bag holder, and closing line with conveyor.

Containerized bagging machines are more suitable for on-site bagging of products such as Fertilizers, Grains, Sugar, Minerals etc at ports and logistics sites.

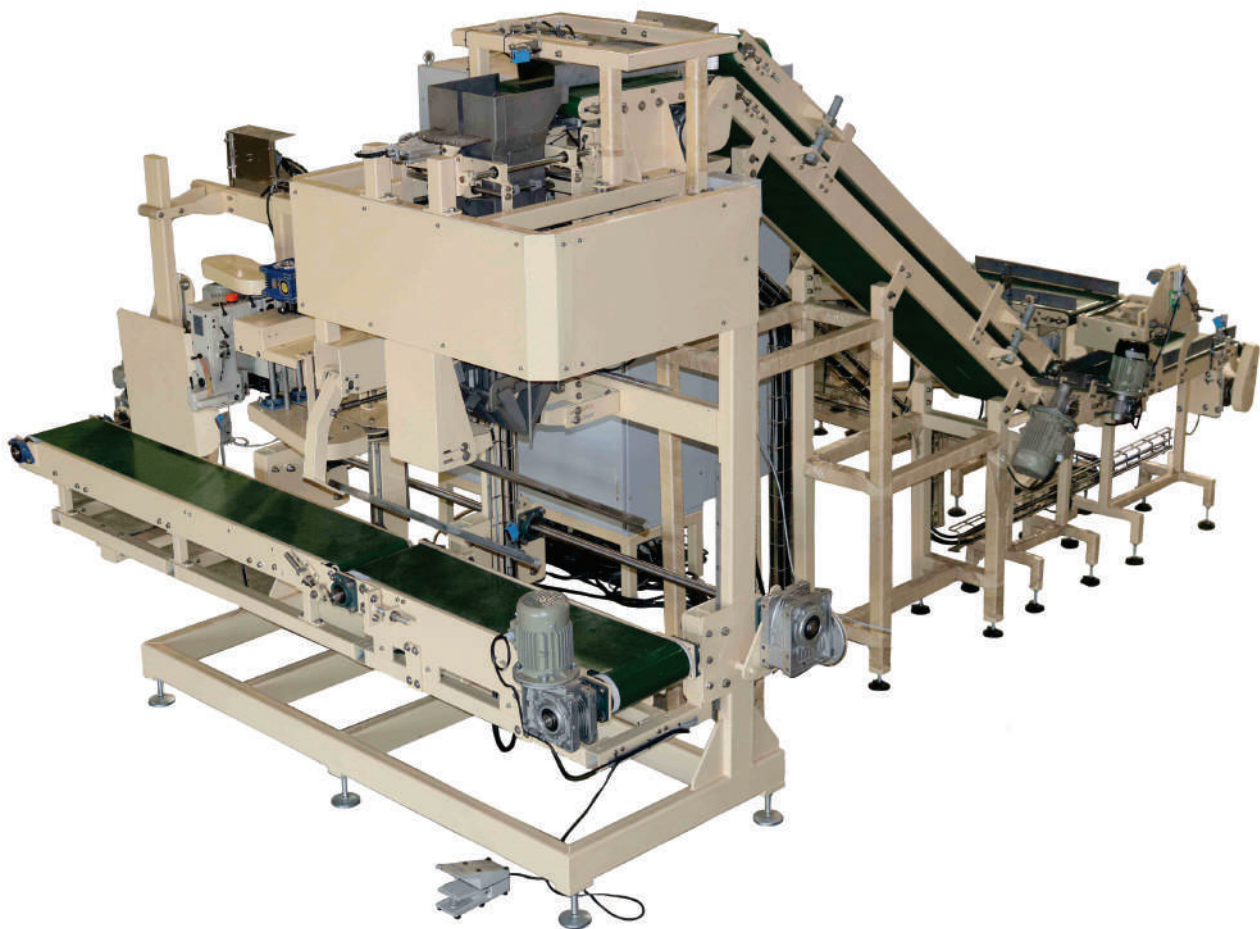


SECONDARY PACKAGING MACHINE

MMR Industrial Solutions are the manufacturer & supplier of the Secondary Packaging machines and entire operations from start to end of line packaging. We believe in providing a wide range of automated secondary packaging machine solutions that meet our client expectations for packing requirements effectively.

We offer Secondary Packaging solution for the repacking of already packed products. This ensures that the product is packed properly and therefore goods do not get spoiled or damaged packing products will help in maintaining quality and standard as well as keeping count of a number of pouches and boxes.

We supply Secondary Packaging machines to various industries like Dairy, FMCG, Sugar, Rice, Food, Pharma, Pesticides and any other industries.



FEATURES

- Automatic Bag Placing & Auto-Stitch Feeder.
- Automatic Pouch Counter.
- Single machine can handle multiple product variants.
- Centralized Data Logging System.
- It can pack up to 120 pouches/min of 500gms.
- Increased output and reduced labour cost.
- High level of customizations available on demand.
- Very attractive and reliable secondary Pack.
- Online inspection systems can be integrated with the secondary packaging solutions like check weigher, metal detector, etc.

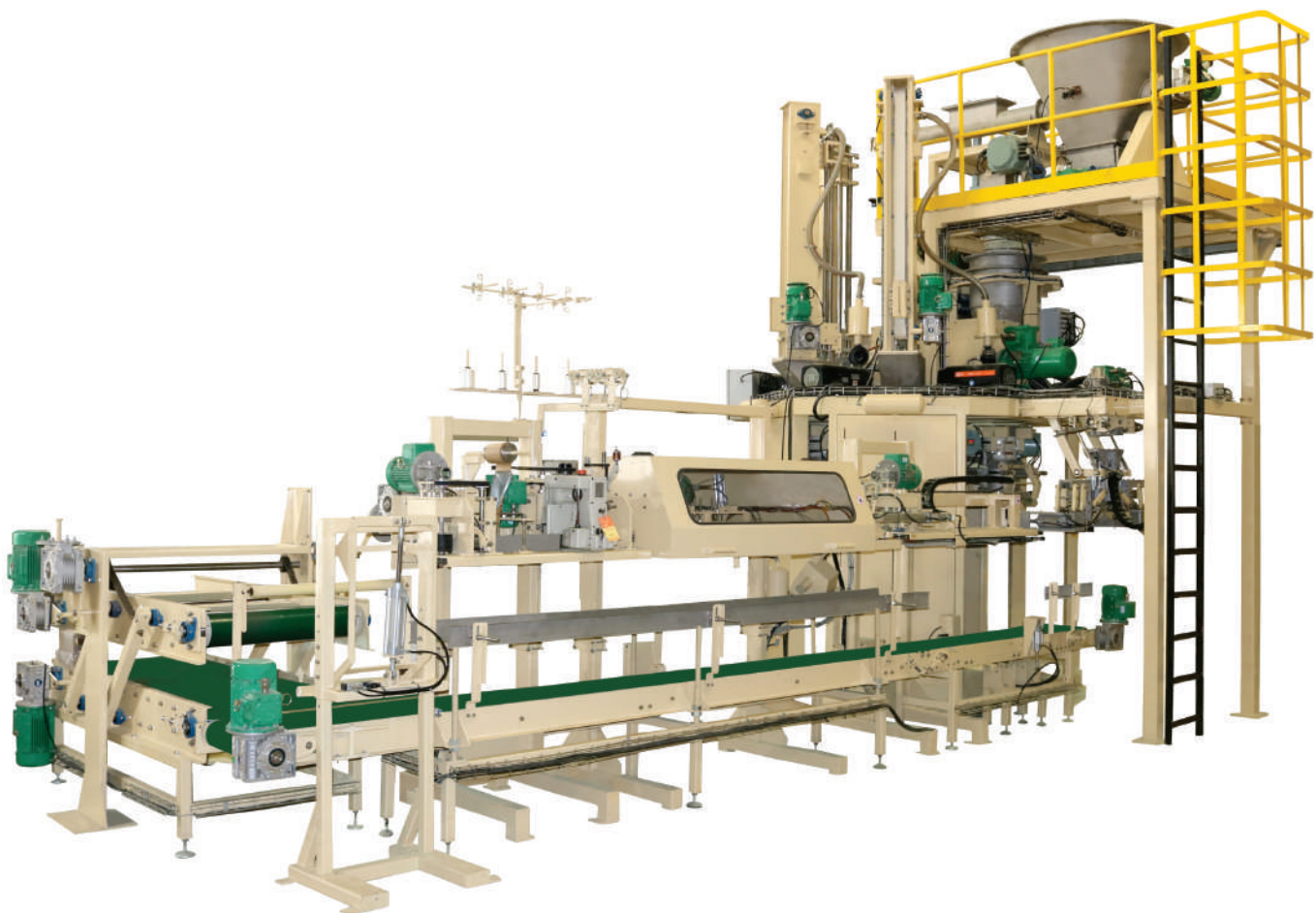
CAROUSEL BAGGING MACHINE

MMR Carousel bagging is a multi-spout system suitable for bagging of powders & aerated materials.

The bag is manually put on the pneumatically actuated bag clamp further weighing the material and discharging into the bag. Material is then settled followed by bottom vibration. The bag is transported from the carousel to the next position and the process is repeated again while the bag is continuously moved from station to station. At the last station, the bag is unclamped onto a conveyor belt and transferred in an upright position into the bag closing unit.

These bagging machines are suitable in various industries like

- Petrochemical
- Chemical
- Sugar
- Fertilizer
- Cement & Premix





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