

High Intensity **MIXER** With Fully Automatic **RAW MATERIAL** Handling System.



You are only a phone call away from **Marso Industries's** customer Support.



Keeping in tune with the company's total commitment towards quality, we take quality test at each level of production.



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About Us

Marso Industries is known as reliable and efficient partner in plastic industry. Marso Industries started its journey long ago as small scale company. Over years of hard work and customer satisfaction. Marso Industries has become trusted brand in plastic industry. Marso Industries has won its customer trust by providing a perfect and optimum solution for compounding.

Marso Industries products are highly efficient and renowned by customer after sales, still we are constantly aiming for more better quality and service improvement with the necessary and strong resources.

High Speed Heater Mixer



- Perfect height to dia ratio of mixing container
- pneumaseal / Capsule technology
- Energy efficient production without cross-contamination and free from moisture.
- Lowest compounding cost as 0.04* unit per Kg, proving with energy consumption meter in main panel.
- Mixing tools self-cleaning, adjustable in height specific to the material being mixed.
- Compact system with the highest specific throughput; 6 to 8 batches / hour with automation.
- High efficiency even with higher calcium loading.
- Programable logic control.
- Quick, easy dismantling and reassembling.

- Perfect height to dia. ratio of Cooling Mixer container.
- Precise peripheral speed of mixing tool.
- Jacketed container for cooling with forced circulation of cooling water.
- Fast and complete discharge of the cooled material.
- Proper design of impeller.
- Unique design of bottom and discharge valve.
- Best quality material of all components.
- Maintenance free assembly.
- Shorter cooling cycle time.

Cooler Mixer



High Speed Heater Cooler Mixer



- High Intensity Mixers : Capacity - 10 liters to 2500 liters.
- Single Bag / Jumbo Bag Dumping Station.
- Automatic Vacuum Conveying System / Pressure Conveying Systems.
- Automatic Weighing System.
- Liquid Metering System- Gravimetric / Volumetric.
- Aspiration System.
- Sieving System.
- Storage Silos.
- Hopper Loaders Vacuum Conveying System.
- Fully Automatic Computerized Plant.

High Speed Heater Cooler Mixer with Automated compounding plant



- Contamination / Separation free handling of all materials.
- Moisture free compound.
- Total recipe management is viewed with automation.
- No Human Errors.
- Reduce dusting / spillage of costly material.
- Less man errors and labour cost.

One Pack Weighing & Storage System with Screw Feeder



- One Pack Storage with Screw Feeder Driven by A.C. Variable Frequency Drive.
- Variable (Adjustable) Screw Speed to Control Coarse feed and fine feed to Weighing System.
- Minor components can be conveyed from Material Storage Hopper to Weighing Hopper by Screw feeder driven by geared motor
- M.O.C. SS 304 (Anti Corrosive) easy to clean and easy to open type design.
- Weighing system with 3 Nos. of single ended shear beam type load cell system.
- Coarse feed and fine feeding arrangement to achieve maximum possible weighing accuracy.
- The system can be interface to the PLC.

Small Bag / Jumbo Bag Dumping Station

- Provision to feed Small Bag or Jumbo Bag in to Dumping Station.
- Aspiration System Incorporated for dust free environment.
- Easy to opening of bags with liner / grill protection.
- Easy to handling of jumbo bag with hoist / fork lift.
- Easy to connect with vacuum conveying system.
- Pneumatically operated sack discharge with bag resting hood.
- Low level probe and emptying flap.
- Conical bottom for anti-bridging of feed material.
- Lumps Break Screw driven by geared motor is incorporated with Dumping Station.



Vacuum Conveying System



- Suitable to transfer up to 3500 Kg / Hr.
- Conveying distance up to 40 meters with long radius bends.
- Automatic filter cleaning by Reverse Jet Filter Cleaning System.
- PTFE Coated antistatic cartridge filters easy to clean.
- Compressed air externally provided with timer which keeps the system clean and maintaining the conveying efficiency.
- The batch receiving hopper with vibrator for free flowing feeding, level sensors, differential pressure switch, and pneumatically operated actuated butterfly valve.

Aspiration System

- The Aspiration System can be used in Heater Mixer, Cooler Mixer, Intermediate (Receiving Hopper) & Pressure Conveying System Directly with Butter Fly Valve.
- This Vacuum unit is directly mounted with the system in order to remove moisture content from PVC Resin as well as from the additives. This system is designed to extract volatiles and harmful gas of monomer.
- During mixing process, the temperature of the product mix gets elevated due to friction at the same time. chlorine gas is also liberated, which is efficiently removed by vacuum.
- This system also helps to reduce odor generated due to addition of metal stabilizer, plasticizer and other additives.
- This system is so designed to build up or setting of mixing powder on the heater mixer lid.
- This will eliminate contamination mixing into dry blend during discharge from heater mixer.



Pressure Conveying System

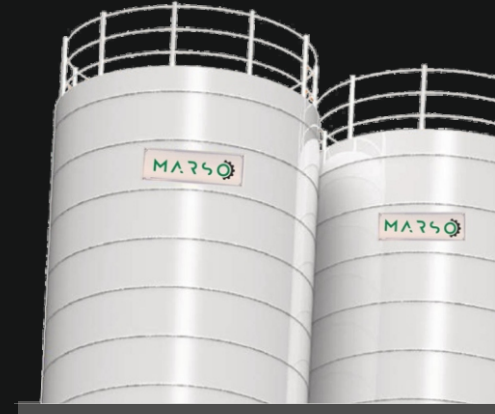
with Receiving Hopper, Screw Feeder and Vibro Siever



- This system is used for conveying of Compound from Cooler Mixer to Storage Silo.
- Level Probe for High Level and Low Level for switch off the Pressure Conveying System, when material gets empty in Hopper.
- PLC operated state of the art electric control panel.
- Conveying Distance: as per customized distance.
- Least Dusting by latest technology.
- State of the art electric control panel.

Storage Silo

- Made from SS304, MS or Aluminium with Storage capacity 3 M³ to 200 M³ with storage Silo weighing System.
- Facilities raw material storage in dust free and static free environment
- Indoor / Outdoor erection possible.
- Silo feeding from jumbo Bag or Smaller Bag can be provided by pressure conveying system.
- Multiple processing lines from silo can be provided by hopper Loader Vacuum Conveying System.



Hopper Loader Vacuum Conveying System

- Automatic loading without human intervention and easy for conveying the Material from Storage Silo or any other material source to the extruder.
- Ratio loading can be also possible for 2 different materials in single unit.
- Cost effective central blower and control to cater two or three loaders simultaneously.
- Tools free concept for ease of maintenance.
- Different Capacity to suit the Extruder.
- Least Dusting and complete cleaning of conveying pipe line.
- Level Probe for high level is incorporated in the Hopper Loader
- Vacuum Conveying System, which gets a signal of high level and switch off the Vacuum Blower.
- PLC operated state of the art electric control panel.



Computerized Plant Automation System



- Easy Control on Production, Planning Supervision and inventory control with process recipe management.
- Complete automation, right from the Jumbo bag feeding station to feed multiple processing lines with computerized control
- Daily, weekly or monthly reports of total production, raw material consumption or break down can be easily viewed online from any location.
- Integrated malfunction message system with option for manual operation.



Polyolefin Mixing



PVC Compounding



Mineral Coating



Masterbatch

High Speed Heater Cooler Mixer Combination

Sr. No.	Model	Batch Capacity (In Kgs)	Main Drive in MIHSM (kW)	Main Drive in MICM (kW)
1	MIHSM 10 MICM 40	3	3.7	0.75
2	MIHSM 50 MICM 150	15	7.5	1.5
3	MIHSM 130 R MICM 400	40	15	3.7
4	MIHSM 130 MICM 400	40	18.5	3.7
5	MIHSM 200 R MICM 400	65	30	3.7
6	MIHSM 200 MICM 400	65	37	3.7
7	MIHSM 250 R MICM 600	90	37	5.5
8	MIHSM 250 MICM 600	90	45	5.5
9	MIHSM 350 R MICM 1000	120	55	7.5
10	MIHSM 350 MICM 1000	120	75	7.5
11	MIHSM 500 MICM 1500	200	110	11
12	MIHSM 500 MICM 2000	200	110	15
13	MIHSM 750 MICM 2000	300	132	15
14	MIHSM 1200 MICM 3000	500	250	37
15	MIHSM 2500 MICM 6000	1000	450	75

MIHSM - Marso Industries High Speed Mixer
MICM - Maso Industries Cooler Mixer

Master Batch Mixer

Sr. No.	Model	Batch Capacity (In Kgs)	Main Drive in MIHSM (kW)
1	MIHSM 50 MB	15	7.5
2	MIHSM 130 MB	35	18.5
3	MIHSM 200 MB	60	37
4	MIHSM 250 MB	85	45
5	MIHSM 350 MB	120	75
6	MIHSM 500 MB	200	110
7	MIHSM 750 MB	300	132
8	MIHSM 1200 MB	500	250

- Specifications are indicative & as part of our continuous R & D, we reserve right to change specification without prior notice.
- Main drive rating of mixers are for general purpose applications.
- Output depends on type of material, formulation, processing parameters or ambient conditions.
- For Customized application the specifications can be altered.