

# DEMIR FILLING AND PACKING SYSTEMS



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Best way to retain product's freshness and preserve quality by packing to reserve for long time, to keep ready for out of season and for easy transport of harvested materials, fresh maize, all kinds of silage, alfa or any kinds of cereal, crops, seed, ect... Between the range 25-50 kgs. bags as your needs. Not only farmers but also industrially manufacturer prefers for large quantity of manure, fertilizer, pulps of sugarbeet, grain, etc... Our machines not only prodvide a significant contribution in the feeding animals by preserving materials' long timesfreshness and productivity to the livestock sector but also decrease workload of industrial sectors by minimizing the cost and working times.

## DMR 50 COMPACT PACKING MACHINE



## ADVANTAGES

- 3 in 1 mobile concept (bunker+conveyor+packing unit) is economic and best solution,
- Entegrated loading bunker with foldable wings gives oppurtunity for direct loading from trailers trucks, loaders.
- Entegrated vertical conveyor band provides direct transfer of materials from the feeder bunker to the filling unit as synchronised working with motor drivers.
- High capacity output with large and comfortable working area.
- Mobile main chassis with optimum dimension of complete set allows easy international freight in container for seaway.
- Top product preparing unit allows regular flow of materials to the bag,
- Two step filling system as fast and slow filling for exact/accurate sealing,
- Air compressor supplies optimum air amount for all related units for best function.
- Weighing and filling unit with movement sensor provides slowly and regular filling the materials and perceive the bags and move the bag holders save from time,
- Entegrated bottom conveyor band provides smoothly, fast transfer and easy use,
- Strong press unit brings the packaged material's smooth appearance easy packing save from space,
- Strong air suction ability with vacuum unit, absorb the air inside the bag,
- Any kind of closing with :Hot sealing, sewing, clipping up to user demand can be entegrated,
- All system is operated by the electronic control panel with industrial type indicator or PLC automation.

## TECHNICAL SPECIFICATIONS

<b>Capacity</b>	13-15 Ton/h
<b>Filling Range</b>	25-50 Kgs/bag
<b>Power Consumption</b>	20kW/h
<b>Filling Bunker Diameter</b>	Ø28 – Ø32 cm
<b>Double Axle with Tyres</b>	Standard
<b>Stablizer and Drawbar</b>	Standard

<b>Required Power</b>	380V-50hz-3p
<b>Entegrated Bottom Band</b>	300 cm
<b>Chassis Dimensions</b>	820x220 cm
<b>Bunker Dimensions</b>	250x260 cm.
<b>Working Height</b>	320 cm.
<b>Transport Height</b>	250 cm.

# WHICH PRODUCTS

Are used for?



Silage of maize



Alfa Alfa Silage



Beet Pulp



Harvasted Plants



Manure



Corn Silage



Animal Feed/ TMR



Roughage Feed



Fertilizer



Pellet feed

# FEEDER BUNKER



- Ground level
- 2 ton capacity
- Recyclation
- Synchronize working with machine,
- Automatic loading, start/stop
- Fast material circulation,
- Regular feeding,
- Folding sidewalls up to the road and working position (close/open),
- High capacity for professionals,
- Easy loading,
- Strong Chain,
- Strong mechanism,
- Mechanical Jacklift prevents any damage by stabilizing the machine



Mechanical Jacklift



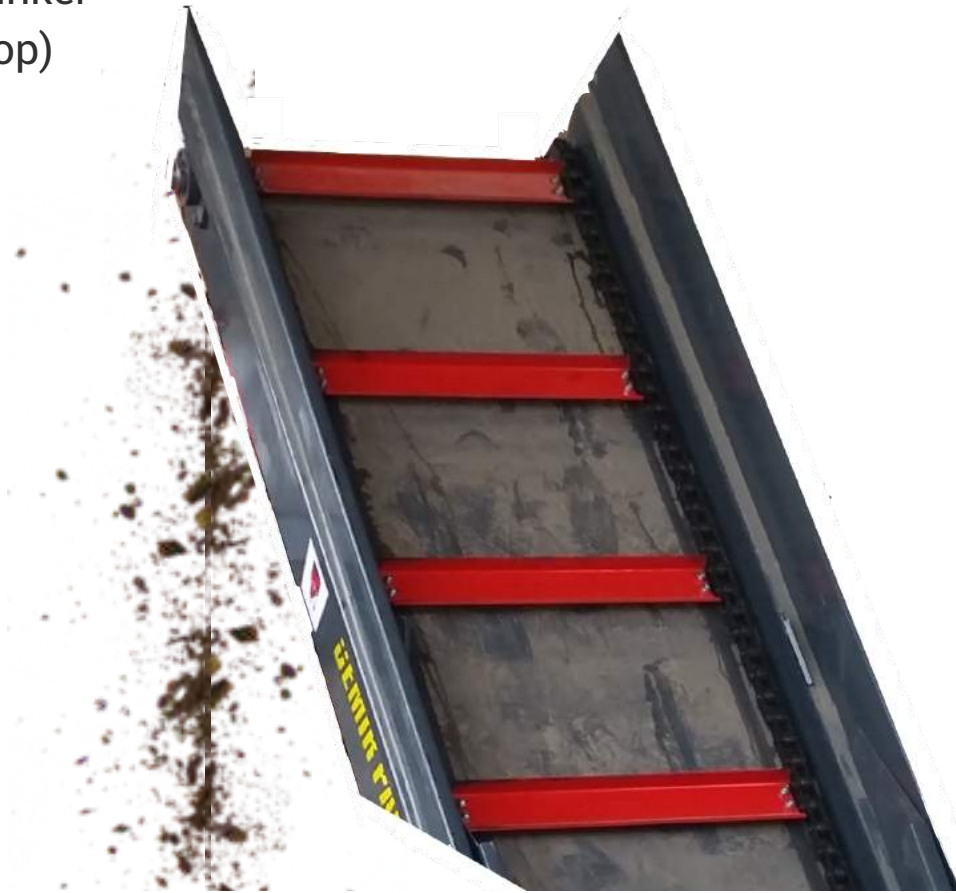
Anti-Blocage auger/spiral



Adjustable material circulation speed with D700 SC Mitsubishi drivers

# VERTICAL CONVEYOR

- Direct transfer of materials from feeding bunker to weighing scale
- Automatic controlled
- Continuous working
- Synchronize working with product preparing bunker and feeder bunker
- Self control (start/stop)



# PRODUCT PREPEARING BUNKER



Provide regular feeding and filling,  
Prevent blockages and damages,  
Accurate & sensitive weighing (2% accuracy),  
Fast filling & slow filling.

Synchronize working with feeder bunker and conveyor band.  
Self control (start/stop)

2

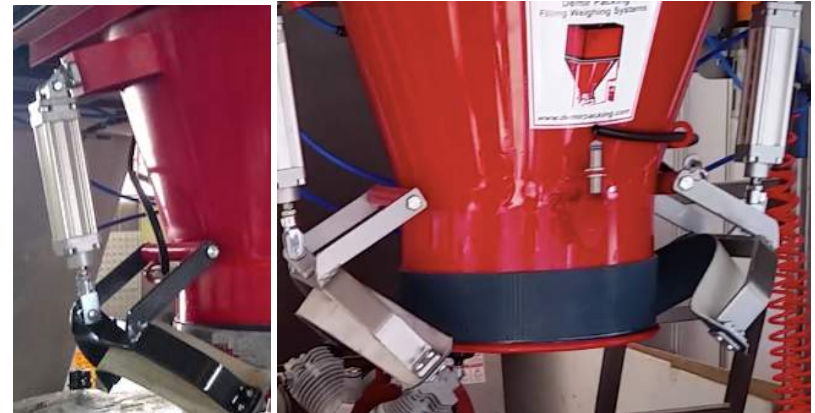


## FILING UNIT

Best design for filling  
 Steel sheet or Chrome material  
 Changeable filling throat (2 in 1)  
 Diameter Ø28 or 32 cm,  
 25-50 Kgs



## ① PNEUMATIC HOLDERS



- Fast & tight bag holders,
- Automatic holding & releasing
- No need to press any key

## ③ SENSOR



- Sensitive rapid sensors,
- No need to press any key

## ② LOADCELL



- 3 Units first class european steel Loadcell
- 3 x 100 kg capacity



①



②

## ELECTRONIC CONTROL PANEL WITH INDICATOR

- English Menu
- Easy and simple interface,
- Control and interfere all units,
- 220V – 380V – 440V optionnel, applicable,
- Error code, Identification
- Reporting, Counter
- Heavy Duty Industrial Type
- Data Memory
- Opimum power consumption
- Self Control

## AUTOMATION PLC WITH TOUCHSCREEN

- Easy use,
- Control and interfere all units (1 command for all units)
- Remote control system,
- Multi language options.
- 220V - 380V - 440V optional



③



## MITSUBISHI DRIVERS

- D700 SC model
- Small, cost-effective, reliable
- Compact Installation
- Freely Programmable Digital Outputs
- Simple Network Connection







Control by  
pedal



## BACK CONVEYOR BAND

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4 meters,  
Easy bag transfer,  
Minimum human power to transfer  
the bag,  
Control by food pedal,  
Adjust height,  
Easy use  
Comfort / Large working area

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# SYSTEM 1

- System 1 is used for 25-30 Kg bag filing,
- Comfortable and large working area of use.
- Easy control
- 1 year shelf life
- Long life bagging
- Easy carry / transport
- 1 PE bag ①
- Possibility to operate Vacuum/Press/Hot Sealing or Press /Hot Sealing ②
- All system is controlled by single foot pedal ③



Final Result



①



②



③

VACUUM

PRESS

HOT  
SEALING



1



## VACUUMING UNIT

- 3kW vacuuming motor for 200-250m<sup>3</sup>/h air flow,
- 190-400 m/bar pressure,
- Best air out system with bolier
- Air filter

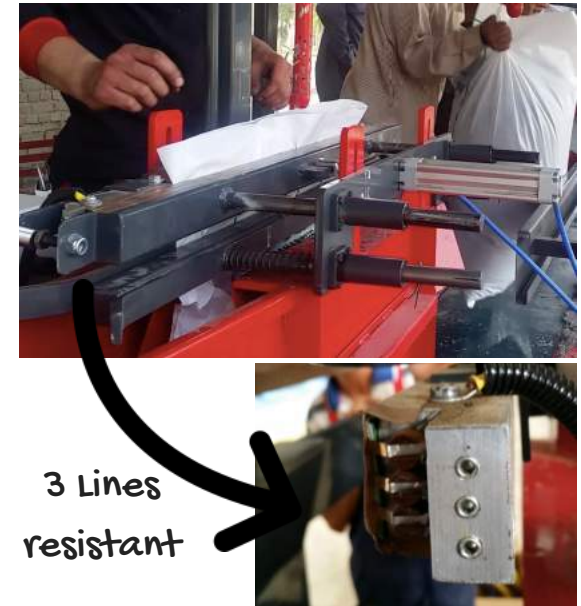
2



## PRESSING UNIT

- More product less space,
- Well shaped and tight bags,
- Min.450-500 Kgs. pressure,
- Strong system,
- Easy stock,
- Time adjustable.

3



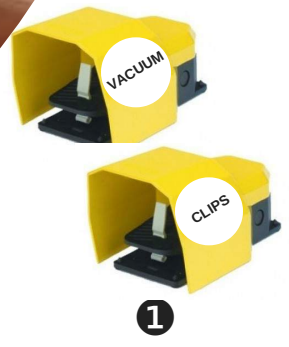
## HOT SEALING UNIT

- Strong & safe sealing,
- Easy use with foot pedal,
- 3 lines resistant,
- Adjustable heating & timing,
- Long-Life
- Perfect sealing.



# SYSTEM 2

- System 2 is used for 40-50 Kgs. bag filling,
- System controlled with 2 pedals **1**
- Quick pass valve from system 1 to system 2 **2**
- More capacity.
- No bag damage
- Easy carry/ transport
- 1 PP bag out **3**
- 1 PE bag in **4**



**1**



**2**



**3**



**4**

Final Result  
↙



VACUUM

CLIPPING

SEWING

1



## VACUUMING UNIT

- Wide vacuuming pipe
- Fast absorb
- 3kW vacuuming motor for 200-250m<sup>3</sup>/h air flow,
- 190-400 m/bar pressure,
- Best air out system with boiler.
- PE bag vacuuming

2



## CLIPPING UNIT

- Specially designed shape
- Tight clipping by pneumatic system,
- Easy and fast operation,
- Optimum result for big capacities.
- Clipping after vacuum

3



## SEWING UNIT WITH BALANCER

- Bag sewing in 4-7 second,
- Daily 4000-5000 bags sewing capacities,
- Comfortable & easy use with balancer,
- Manual or automatic sewing.
- Sewing PP bag after vacuum + clipping
- PP Bag cover protection for transport

# STANDART EQUIPMENT

## ① Air Compressor

- 300lt., up to model,
- 3Kw motor power ( 550lt /min air absorbant - 8 Bar- 2 Cylinder)

## ② Tent Shapes

- For indoor/outdoor working.

## ③ External Electrical Outlet

- 220V – 380V,
- For external use.

## ④ Lighting

- Front and rear lighting.

## ⑤ Control Ladder

- to control the product & machine.

## ⑥ Air Blowgun

- External air blowgun to clean the machine.

## ⑦ Vacuum Tank and Motor Shelf

- For optimum performance and best position



① AIR COMPRESSOR



② TENT SHAPES



③ EXTERNAL ELECTRICAL OUTLET



④ LIGHTING



⑤ CONTROL LADDER



⑥ AIR BLOWGUN



⑦ VACUUM TANK AND MOTOR SHELF



⑧ EMERGENCY STOP BUTTON

### ⑧ Emergency stop

- Provide a safety backup such as an emergency brake which will prevent the machine and equipment from hazardous conditions if the inverter fails.

### ⑨ Jacklift

- Jacklift prevents any damage by stabilizing the machine
- front / back



⑨ JACKLIFT

### ⑩ Mobile with Double Axle Chassis

- Easy and fast transport,
- Double tire
- Heavy duty working.



⑩ MOBILE WITH DOUBLE AXLE CHASSIS

⑪ DRAWBAR

### ⑪ Drawbar

- Drawbar for moving,
- Easy and fast transport

# AUXILIARY EQUIPMENT

INCLUDED AT THE REQUEST OF THE CUSTOMER



① FEEDER/TRANSPORT CONVEYOR BAND

## ① Feeder/transport Conveyor Band

- Between main machine and vehicle,
- Mobile, portable,
- Synchronize working with all system,
- Rubber band length :60cm ,
- Conveyor band length :80-10-12m.available,
- High adjustable.

## ② PE (Nylon Bag) - PP (Woven Bag)

- 1 Bag System PE 150-200-220 micron HDPE
- 2 Bag System PE 70-80-90 micron HDPE
- 2 Bag System PP 90-110 gram PP
- first quality
- Heat and pressure-resistant (not any deformation and tearing during sealing and stocking),
- Long shelf life/fresh as first day,
- Specially designed and produced for animal feeds.



① BAG SYSTEM PE



② 【2 BAG SYSTEM PE - PP】



③ INSIDE BAG PLACER

## ③ Inside Bag Placer

- Best dimension for silage bags
- Best design for easy labour and work
- More bags in short time
- fast workers

## ④ Metal Clips

- Special design for optimum close
- Special materials as flexible and strong
- Minimum cost and maximum function



④ METAL CLIPS

## ⑤ Newlong Industrial DS-9C with column

- Automatic sewing machine
- Max speed: 2700 rpm
- 10,5 mm Stitch Width
- Automatic crepe tape cutter
- net weight 49kg / gross weight 50kg



⑤ NEWLONG INDUSTRIAL DS-9C WITH COLUMN