

Automatic Bag Dump Station

Minislit®
Patented system

Rate: 8 sacks/min.
Capacity: 15 to 50 kg/sacks
Manufacturing: mild steel, 304L stainless steel, 316L stainless steel

AUTOMATIC OPENING AND UNLOADING OF SMALL SACKS AND BAGS

The Minislit® automatic bag dump station uses a ribbon cutting tool to open and unload sacks of powders and dry bulk materials. It is adaptable to varying bag sizes and can be used for applications ranging from aggregates, chemicals and food products. The Minislit® sack opening system can be cleaned manually or mechanically with optional CIP – “clean in place” system, providing a complete wash and dry process (30 minute cycle for washing and drying).

Equipment

TEST CENTER

Available



Tilting blade system

TECHNICAL SPECIFICATIONS

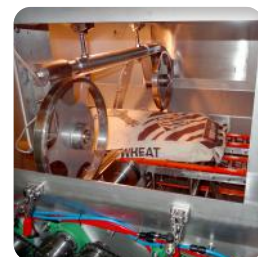
The band saw system creates a three-sided cut on the sack without tearing the material. The patented disc inversion system guarantees full discharge of the dry material. The Minislit® is suitable for the food, chemical and powder paint industries.

PALAMATIC PROCESS has designed this automated bag dump system to provide material unloading at higher rates with minimal operator intervention.

To minimize wear and tear, the mechanical gears and guiding components are located externally, offering versatility in material unloading operations and easy access for maintenance of parts.

ADVANTAGES

- Suitable for various bag materials: paper, poly-woven, lined, etc.
- Minimize operator handling
- Maximize production
- Reduce and eliminate dust emissions with connection to central dust system or built-in dust filter unit
- Integrated sack compactor for automatic waste disposal
- Ribbon saw is available in various options: carbon steel (high speed), stainless steel or diamond coated for abrasive material applications.



The belt conveyor transports the bag directly to the ribbon-saw cutting system



Vacuum sack lifter and belt conveyor



Screw compactor for evacuation of empty bags into a plastic sheath and reduction of dust emissions

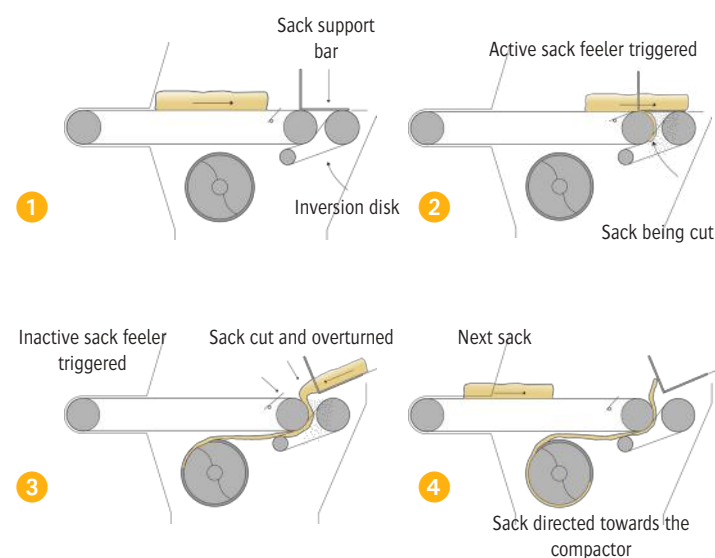


External gearing

Advantages



OPERATING PRINCIPLE



MINISLIT® THROUGHPUT CAPACITIES

PRODUCTS	Sacks per minute
Peanuts	8
Coffee beans	6
PE / LDPE granules	8
Lentils	6-8
Animal feed pellets	5
Dicalite	6-8
Sugar	4-6
Tea	5
PVC powder	4-5
Carbon black	4-6
Soya flour	4-5
Cement	5-6
Starch	4
TiO2	4-5
Aluminium oxide	3-4
Caustic flake	3-4
Ammonium sulphate	3-4
Milk powder	5-6
Filtration soil	4-5

www.palamicprocess.com/en-us/bulk-handling-equipment/automatic-sack-discharging-minislit
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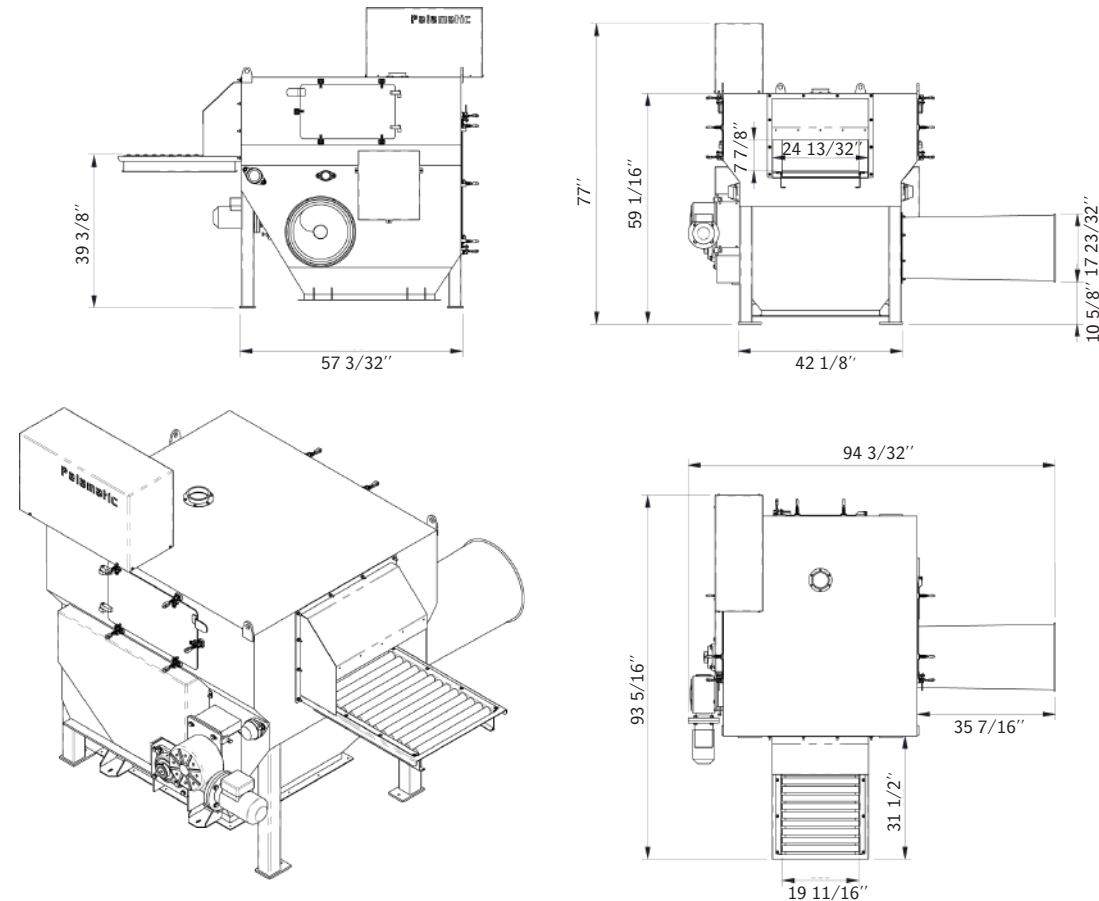
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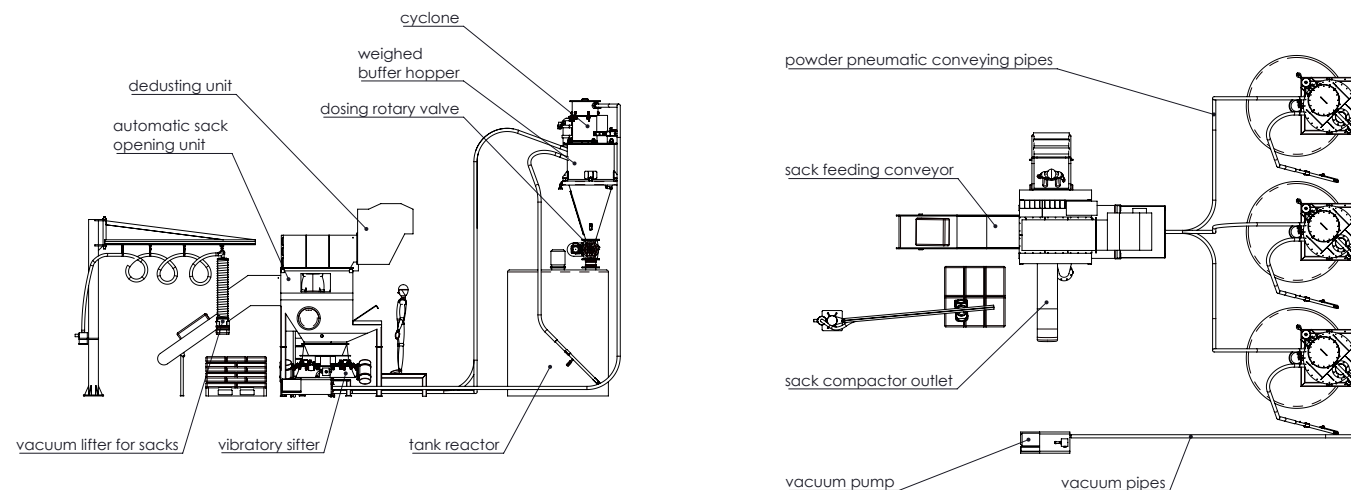
Patented system

Minislit®

▶ GENERAL LAYOUT



▶ EXAMPLE OF IMPLEMENTATION



▶ OPTIONS



Vibrating spout for dosing and homogeneous separation of your bulk materials.



Dust collector system to vacuum fine particles.



Inclined conveyor to feed the unloading station.



Vacuum lifter for sacks for effortless handling and improvement of the productivity



Integrated lump breaker enables the machine to handle powders with lumps. The blades ensure the passage of the lumps through a calibrated screen.



The MINISLIT® automatic bag dump system is a part of our test center for easy testing of any type of bags.

These industrial-scale tests are a guarantee of result and success of your project.



▶ EXAMPLES OF INSTALLATIONS



▶ Application in paint industry



▶ Application in food industry



▶ Facility for seeds



▶ Application in petrochemical industry