



**MUEHSAM**



**AUTOMATIC BAG EMPTYING  
MACHINE DP15T**

## **DP15T AUTOMATIC BAG EMPTYING MACHINE**

### **MACHINE FOR EMPTYING PELLET BAGS**

IS A FULLY AUTOMATED  
SYSTEM THAT WILL HELP  
YOUR COMPANY ACHIEVE  
THE FOLLOWING BENEFITS:

- | Increasing production efficiency
- | Less human labour
- | Improved work and environmental ergonomics
- | Possibility to expand the system with empty bag compactor and palletizer for empty pallets
- | Possibility to expand individual segments in order to feed a second type of material with stepless adjustment of the proportions of the pellets fed





## BASIC OPERATING PRINCIPLES

After being loaded by the forklift operator, the pallet with plastic pellets is lifted up towards the machine head by means of a chain drive. The hooks, integrated in the head, dig into the bags, transferring the entire layer from the pallet to the cutting section, where the bags are cut by rotating knives and the plastic pellet falls into an intermediate hopper. In order to minimise pellet loss, the bags are additionally hit with stainless steel rods controlled by an eccentric system.

When the pallet is empty, the operator is alerted with a light and sound signal to replace an empty pallet with a full one.

## TECHNICAL SPECIFICATIONS

Output	<b>adjustable up to 15 tons/hour</b>
Accuracy of bag emptying	<b>99,98%</b>
Machine dimensions	<b>2800mm x 6000mm x 3600mm (W x L x H)</b>
Pallet dimensions	<b>1300mm x 1100mm</b>
Pallet weight	<b>max 1600kg</b>
Pallet height	<b>max 2200mm</b>
Power supply	<b>3x 400V, 50Hz</b>
Consumption of compressed air	<b>10L/cycle, 6 bar</b>
Installed power	<b>up to 10 kW</b>
Intermediate hopper for pellets made of stainless steel	
Intermediate empty bag container made of stainless steel	



## MACHINE STRUCTURE

- Carbon steel frame
- Machine head consisting of 11 grippers. Each gripper contains 4 pairs of the hooks to transport the bags
- Pallet lifting with encoder-positioned electric motor for increased component life and 4 chain drivers
- Head drive - electric drive, with encoder position control
- 3 independent eccentric sets of hitting rods driven by electric motors
- 14 rotating knives made of hardened chrome steel for cutting through bags
- A special net placed in the container prevents pieces of bags from entering the silo
- Simens Simatic PLC or OMRON procces control
- High resolution 9" colour touch panel for control and management of machine parameters
- Safety switch on the control cabinet
- Guards to restrict the area with moving pallet lift and machine head

## MACHINE CONTROL SYSTEM

Manufactured entirely by Muehsam Rozwiązania Dla Przemysłu to the highest standards

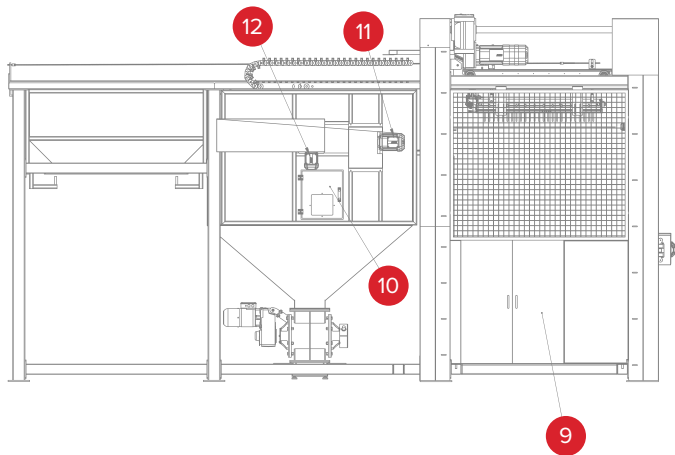
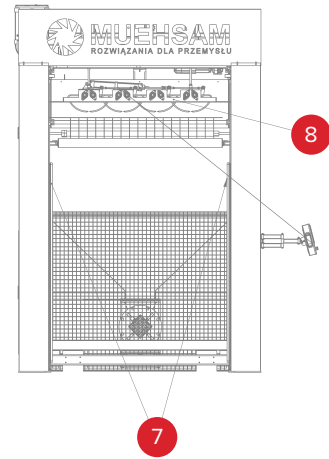
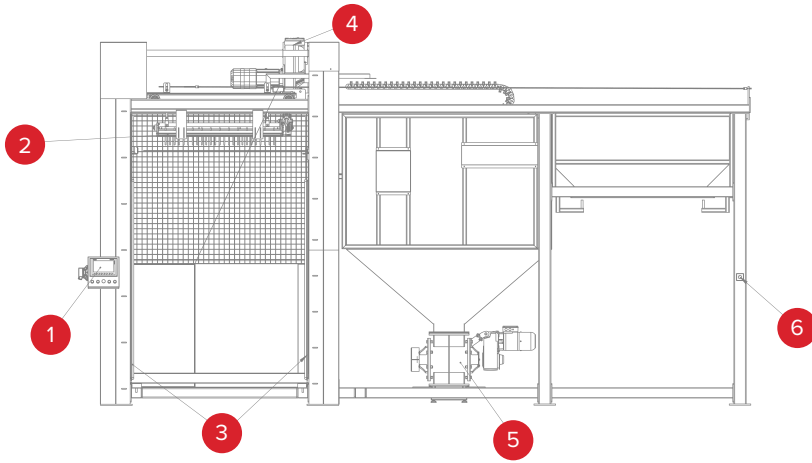
9" touch screen for system control

Siemens and Omron components used to build the control cabinet to ensure reliability in every respect

SEW or NORD motors and reduction gears

FESTO/PREMA pneumatic system





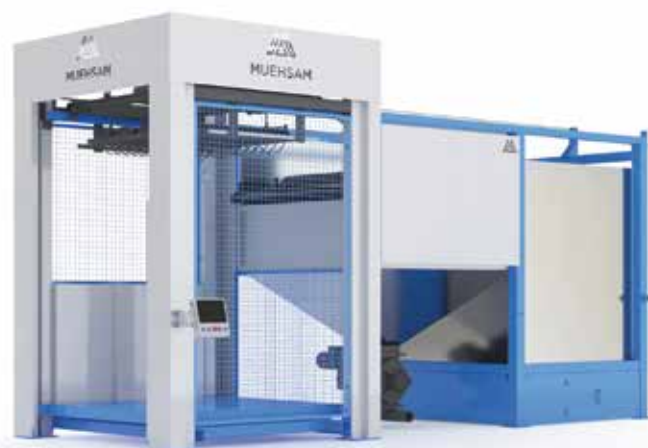
- 1 Control panel
- 2 Lift stop curtain
- 3 Curtain at the side loading entry
- 4 Lift drive unit
- 5 Dosing rotary valve
- 6 Safety switch
- 7 Front loading curtain
- 8 Bag pick-up assembly
- 9 Control cabinet
- 10 inspection doors
- 11 Knife drive system
- 12 Hitting rod drive unit

**Arrangement of components to guarantee operator safety:**



## EXAMPLES OF TWO WAYS TO CONFIGURE THE MACHINE

- The pallet is loaded from the front of the machine



- The pallet is loaded from the side of the machine

## ROTARY VALVE

The price includes the rotary valve necessary for silos loading. The valve capacity is designed for the automatic bag emptying machine output.

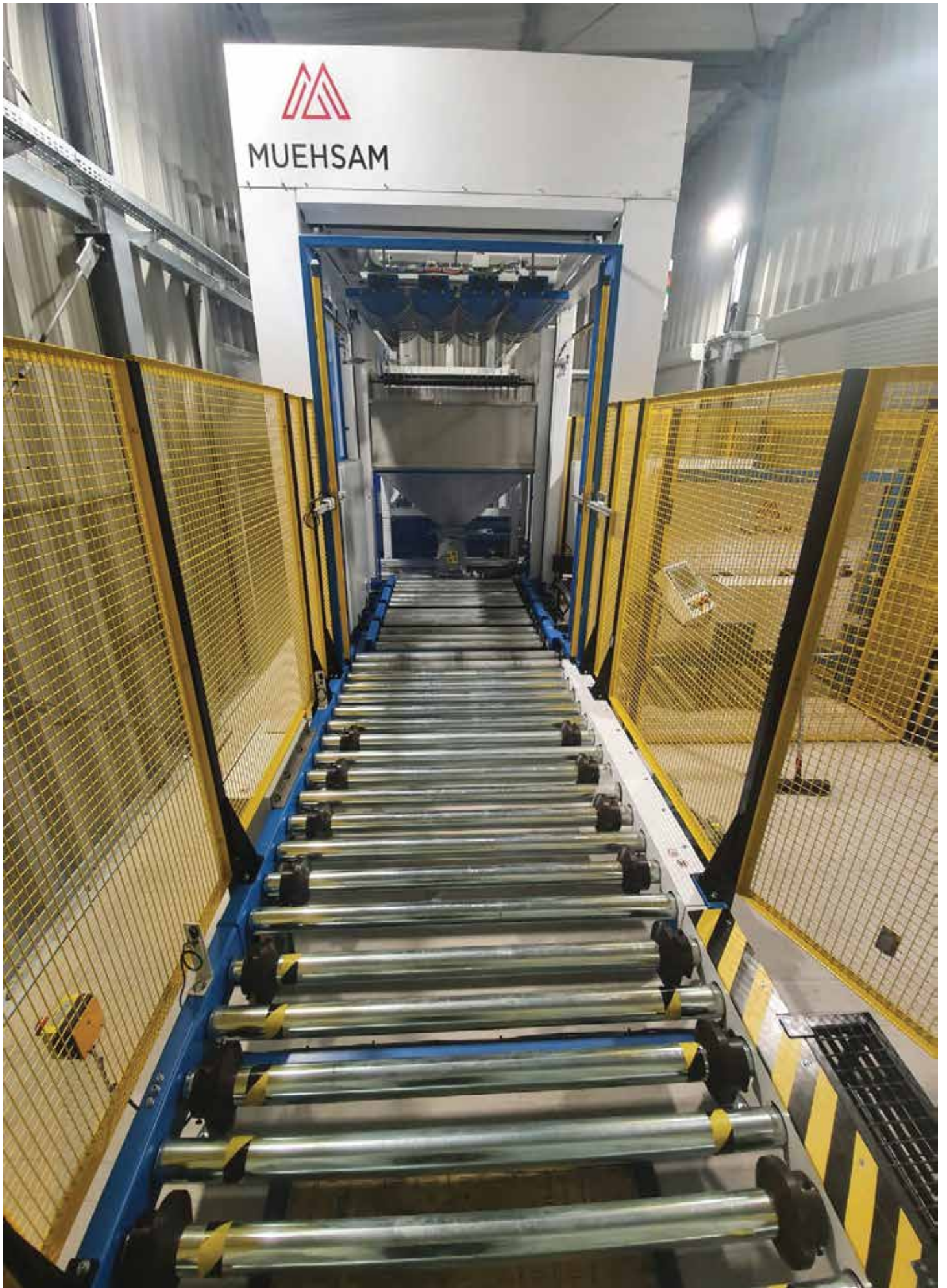








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**FROM RAW MATERIAL TO  
FINISHED PRODUCT - HIGH  
QUALITY THANKS TO  
IN-HOUSE PRODUCTION**



**MUEHSAM**

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