

# DOSING MACHINE FOR BULK MATERIALS

## „ DOZA-K “

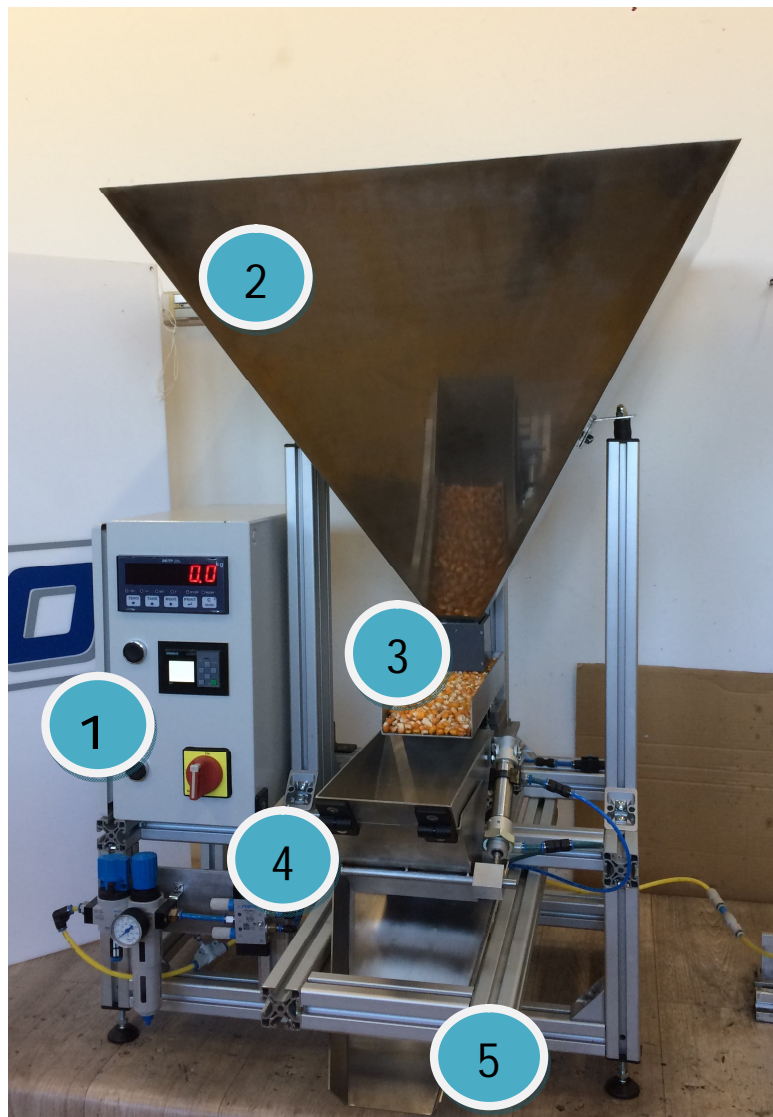


*Picture 1. Machine for dosing bulk materials*

### Main features of the device:

- *Input volume of 75 liters*
- *Transport and distribution of material by electric vibrator*
- *Transfer of material into packing bags*
- *Possibility of adjusting the dosage weight*
- *Possibility of adjusting the dosing time*

## **Device Components and Their Application:**



Picture 2. Device components

### **1. The control parts**

#### ***Components:***

- PLC
- Power
- User panel
- Contactors
- Protective elements

#### ***Description:***

- The operator over the panel defines the process parameters
- The PLC through its input and output signals manages the process

## **2. Input part**

### ***Components:***

- A funnel with a pneumatic vibrator
- Funnel holder with rubber bumpers
- Adjustable height extension of the material output

### ***Description:***

- The operator puts the material into a vibration funnel
- The free-falling material comes into the transport and distribution system
- The height of the material at the outlet of the funnel is adjusted through an extension



Picture 3. Inlet funnel

## **3. Transport and distribution system**

### ***Components:***

- Tray for transmission and distribution of materials
- Electric vibrator

### ***Description:***

- Through the transporting tray, the material moves due vibration towards the dosing system
- At this stage, the material is uniformly distributed through the transport tray
- Transport takes place at two different speeds:
  1. Faster – to satisfy dosage cycle time
  2. Slower – to achieve weighing accuracy



Picture 4. Transport and distribution system



#### **4. Dosage system**

##### ***Components:***

- Output tray for the material
- Dosage scale
- Pneumatic discharge cylinder

##### ***Description:***

- The material is charged from the transport and distribution system into the output tray until the dosage scale registers the desired mass of material
- The outlet tray opens the flap due to pneumatic cylinder and discharges the material into the outlet funnel



Picture 5. Output tray

#### **5. Packaging system**

##### ***Components:***

- Outlet funnel

##### ***Description:***

- The dosed amount of material is transferred from the output vessel through the output funnel in the appropriate packaging



Picture 6. Outlet funnel

## **6. Technical characteristics**

Machine name	<b>DOZA K</b>
Connecting el. voltage	230VAC, 50 Hz
Connecting el. power	0,4 kW
Main fuses	6 A
Type el. connection	L / N / PE
The way of protection from indirect el. contact	grounding
Mass	50 kg
Dimensions [W x H x D]	780 x 1080 x 710 mm
Accuracy of weighing	+/- 2 g
Max weighing	1 kg
Capacity	>200 charges/hour
Compressed air supply	4-7 bar
Compressed air consumption	max 20 l/min

## **7. Delivery and price**

### ***Delivery includes:***

- Complete machine with technical documentation
- Handling instruction
- Electro-pneumatic scheme
- One-year guarantee for a complete machine

### ***Price:***

Price without VAT (ex works Enso): **5.825,24 Euro**

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