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SEMI-AUTOMATIC MACHINE FOR DOSING AND PACKAGING OF BULK MATERIALS "DOZA-SD"



Figure 1. Bulk material dosing and packaging machine

Main features of the device:

- Inlet tank with a volume of 15 liters
- Transport and distribution of materials by electric vibrator
- Transfer of material into packaging bags
- Possibility to adjust the dosing weight





Device components and their application:



Figure 2. Display of device components

- 1. Control part
- 2. Entrance part
- 3. Material transport and distribution system
- 4. Dosing system
- 5. Packaging filling system





1. Control part

Components:

- System power
- User panel
- Contactors and relays
- Protective elements
- Handle for moving the bag holder
- Tare / start dosing button

Description:

- -The operator defines the dosing mass via the panel
- -Dosage to set weight
- -The operator inserts and removes the bag by turning the handle to move the holder
- -Dosing is started by pressing the "Tara / Start" button on the control cabinet



Figure 3. Control cabinet



Figure 4. Handle for holding / releasing the bag





2. Entrance part

Components:

- -Funnel for receiving material
- -Adjustable material outlet height extension

Description:

- -The operator pours the material into the hopper
- -The material enters the transport and distribution system by free fall
- -The height of the material at the outlet of the hopper is adjusted via the adjustable extension



Figure 5. Inlet funnel

3. Material transport and distribution system

Components:

- Dosing channel for material transfer and distribution
- Electric vibrator with control

Description:

- The material moves along the transport channel with vibrations towards the dosing system
- In this phase, the material is evenly distributed along the dosing channel
- Transport takes place at two different speeds:
- 1. Faster to achieve cycle speed
- 2. Slower to achieve dosing accuracy



Figure 6. Material transport and distribution system





4. Dosing system

Components:

- Funnel for directing packaging and dosing materials
- The scale sensor is located on the tube holding the bag

Description:

- The material is poured from the transport and distribution system into the directing funnel and the material enters the packaging bag through the tube
- The balance detects the weight in the bag and the dosing stops at the set weight



Figure 7. Funnel for routing

5. Packaging filling system

Components:

- Bag holding system

Description:

- The bag is placed manually by first turning the bag holder to move the bag holder and placing the bag on the tube. The bag is removed in the same way after stopping dosing
- Repeating dosing is done by pressing the "start / tare" button



Figure 8. System for holding the bag and filling the packaging





6. Technical characteristics

Machine name	DOZA SD	
Connecting el. voltage	230VAC , 50 Hz	
Connecting el. force	0,2 kW	
Main fuses	6 A	
Type of el. connector	L/N/PE	
Method of protection against indirect		
electricity. touches	by grounding	
Machine weight	50 kg	
Dimensions [W x H x D]	600 x 710 x 540 mm	
Dosing accuracy (depending on the		
material)	less than +/- 2 g	
Scale accuracy class	L III	
Minimum and Maximum weighing mass	2 – 2000 g	
Capacity (at a dosage of 250g)	>200 charging /h	

7. Delivery and price

Delivery includes:

- Complete machine with technical documentation
- Operating instructions
- User training
- Electrical diagram
- Warranty on the complete machine for one year

Price:

Price:		3.658,90 €
VAT:	25%	
Total prices with VAT:		3.658,90 €

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