

AZO feeding hopper type ET...VS GA with integrated vibrating perforated sheet and coarse product discharge

**Ergonomic
bag handling**

**Low-dust bulk
material feed**

**Integrated vibrating
perforated sheet
with automatic
coarse product
discharge**

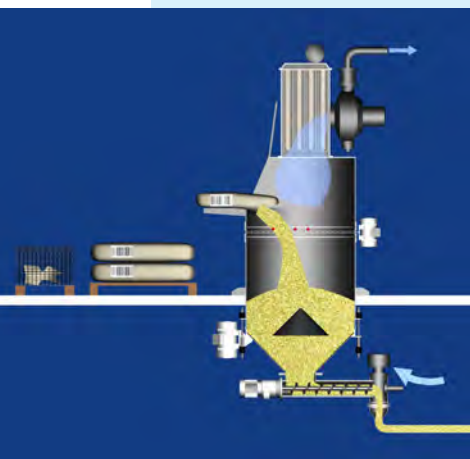
Preferred applications

Product feed of bulk solids in powdered and granular form into closed materials handling systems, respectively pneumatic conveying systems. A range of materials and surface finishes are available specifically for the food industry, chemical industry and for the plastics industry.

Special advantages

- Integrated vibrating perforated sheet with automatic coarse product discharge
- Top-mounted filter on feeding hopper or connection for central aspiration
- Suitable for bulk materials with poor flow properties
- Can be used with rappers, vibrators, vibration bottoms or aeration jets to assist discharge
- Cylindrical and stable
- Outlet optimally adaptable to downstream devices
- Available in chrome-nickel-steel with industry-specific surface finishes
- Screen insert available in polyester fabric or chrome-nickel-steel (1.4301)

THE INNOVATION



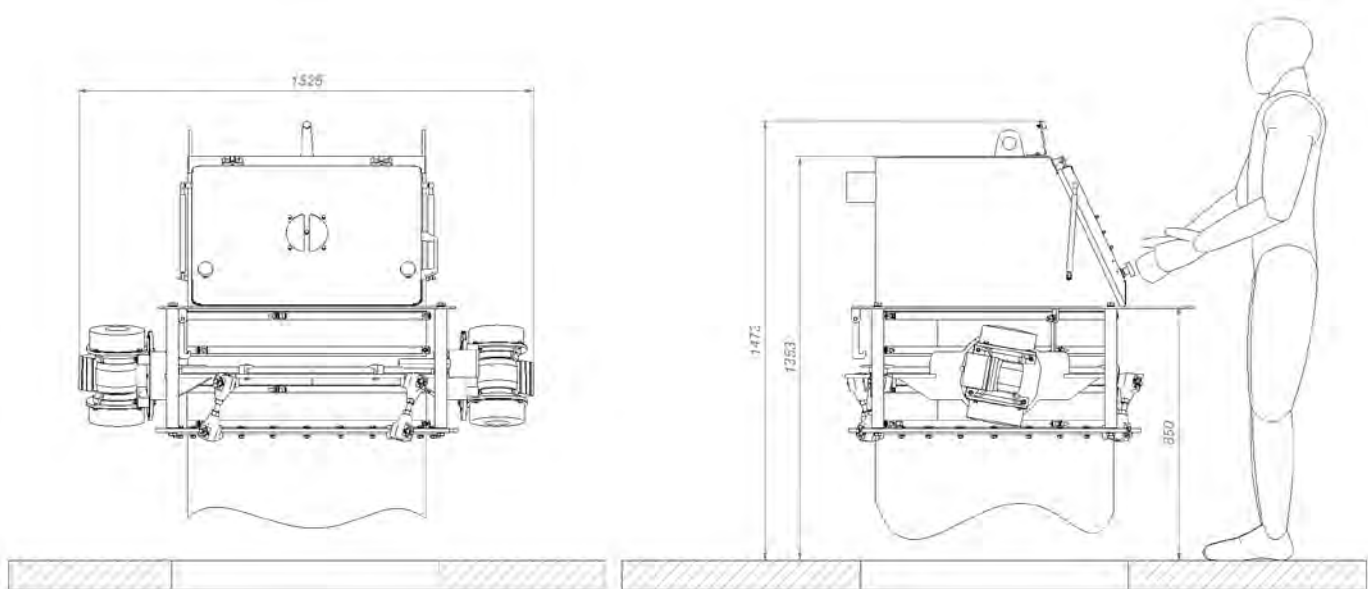
Design

The feeding hopper is equipped with a tight sealed, lockable cover with under pressure valve, gas struts to hold the open cover as well as a bag support table. Corresponding to customer requirements, the hopper is installed on support bracket, mounting brackets or in a frame and is planned according to the building layout. The feeding hopper is available with an attached filter or a connection to the central aspiration system.

The hopper outlet is equipped with a flange for downstream systems. Rappers, vibrators, vibration bottoms or aeration jets can be used to assist discharge of bulk materials with poor flow properties. The design is adapted to the customer requirements, the type of bulk material used and the installation location. An integrated vibrating perforated sheet with automatic coarse product discharge enables product intake monitoring.

The AZO feeding hopper is available in chrome-nickel-steel with industry-specific surface finishes.

Technical data



Type:	ET 800 VS GA
Weight:	approx. 260 kg (upper section of feeding hopper and vibrating perforated sheet)
Material:	Chrome-nickel-steel 1.4301 optional 1.4404
Vibrators	
Voltage:	400 V / 50 Hz
Output:	2x 0.15kW
Acoustic pressure level:	<80dB

Output

The output depends on the product and mesh size. The following output rates serve as reference values:
 4500 kg/h wheat flour with a mesh size of 3 mm,
 1700 kg/h milk powder with a mesh size of 5 mm.

How it works

Aspiration starts automatically when the cover on the feeding hopper is opened. The operator places the bag on the support table, opens it and empties the contents into the closed system with minimal dust exposure. With a built-on filter, the dust falls back into the feeding hopper during the filter cleaning process; with a central filter station small quantities of dust will be collected inside the central filter. Which concept is more efficient depends on the specific customer objectives. An integrated vibrating perforated sheet prevents packaging resi-

dues and other unwanted coarse materials from entering the production. The process arrangement of the vibration motors and the imbalance weights, as well as their direction of rotation generate a defined direction of product flow on the screen. The fine material falls through the screen into the collection hopper. Coarse particles that are larger than the mesh size of the screen are conveyed to the coarse product outlet and discharged. The angle inclination and imbalance torque of the vibration motor can be varied to adjusted in order them to meet

the products flow properties. The circular screens are available in woven polyester fabric with a mesh size of 2 to 5 mm or with special metal screens with various mesh sizes and maximum clear screen area. All jobs that need to be carried out on the new feeding hopper such as filling, screen inspection, coarse product disposal and screen change are able to be performed from one side. The screen be changed quickly and easily using standard tools.



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The design is subject to change due to our continuous improvement program.