

Loss-In-Weight Feeder EAD-21/3,0



Features

- Weighing range: 3,0 l / max. 3 kg.
- Dosing rate from 0,05 to 1,0 dm³/min feasible.
- In batch mode, dosing and weighing accuracy approx. ± 0.5 g (dependent on material).
- Dosing material hopper made of stainless steel, material (1.4301).
- Convenient design concept, well-proven in many cases, the result of a long years, always requirement adapted, development
- High dosing and weighing accuracy even with very small set values.
- Strain-gauge sensor 7 kg.
- Optimal tare / net ratio.
- Absolute operating safety even under harsh operating conditions due to robust construction
- No recirculating air and / or aspiration problems.
- Includes stirrer unit that is driven by the screw.

Application

- Wherever the precise dosing of powdery or granule type products in compliance with the related laboratory accuracy standards - even under harsh operating conditions - is required.
- Can be applied to loss-in weight applications (batching) or continuous (differential) dosage application.
- Also suitable for badly flowing and / or bridging types of products and materials due to integrated stirring device.

Operating principle

- The device operates in accordance with the gravimetric dosing principle realised with a screw feeder integrated in a full load weighing system. Bulk material and tare load are being weighed both at the same time.
- The dosing material hoppers are either filled manually or all automatically, e.g. by means of dosing devices of the DSR 25 series. It must be made sure that no bulk material follows into the hopper while the dosing procedure is in process.
- Optimum control sequences are achieved when applying a digital weighing and dosing system of the MWS series (see separate description).

Standard equipment

- Two-way shaped screw with a degressive core of stainless steel (1.4301); diameter D=30 mm.

Power transmission effected via rigid coupling that runs on ball bearings, sealed by means of a shaft sealing ring.

- Feed screw driven via DC gear motor (24 V_{DC}).
- Speed dependent stirring device, which also cleans the screw.
- Strain gauge transducer with mechanical overload protection to protect against pressure and tensile loads.
- Down pipe provided with connection option for extension.
- Casing frame made of alloy and stainless steel with sideward polycarbonate. Base plate provided with 4 x M8 mounting threads.
- Electrical connection via two coded plugs (included).
- Electric light bulb inclusive to prevent moist effects

Accessories / Options

- Automatic Check weight 1kg with pneumatic cylinder to operate by solenoid valve
- Ø 60 mm stainless steel down pipe, different lengths available in accordance to customer requirements.
- Fast flap closure to prevent in-flight material.
- Material touching parts made of stainless steel (material no. 1.4571).
- Shut off valve to protect the scale from dust which can rise by overpressure in the down pipe.
- Rotation speed control DRI02 for direct current drive (signal input 0-10 V).

Technical Data

- Electrical connection of the strain gauge transducers and the gear motor via two coded plug-connections provided at the back wall of the casing.
- Transducer output signal: 2 mV/V.
- DC motor supply voltage: 24 V_{DC}.
- Nominal speed of feed screw: 72 RPM. Impulse sensor for feedback of speed. Recommended speed control facility > DRI02.

Standards and norms

- Declaration of conformity according to the valid European standards
- CE-label
- Devices in ATEX version on special request

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Dimensions of standard equipped batching scale EAD-21/3,0 with option flap closure

Unit of measurement: mm.

