



Features

- Weighing range: 3.0 l / max. 3.0 kg.
- Dosing rate from 0.05 to 1.0 dm³/min feasible.
- In batch mode, dosing and weighing accuracy up to ± 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
- $\varnothing 60$ 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_{DC}).

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

- EC declaration of incorporation in accordance with the applicable European standards.
- Devices in ATEX version on special request

Loss-In-Weight Feeder EAD-21/3.0



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

Unit of measurement: mm

