



## Features

- Weighing range 0.7 Litre. / max. 1.0 kg.
- Dosing rate from 0.03 to 0.5 dm<sup>3</sup>/min feasible.
- In batch mode, dosing and weighing accuracy up to  $\pm 0.1$  g (dependent on material).
- Dosing material hopper made of stainless steel, material no 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 3 kg (2 mV/V Signal).
- 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.

## 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 weigh in products or materials admix them to compounds or to fill them into receptacles.
- Also suitable for badly flowing and / or bridging types of products and materials due to integrated stirring device.

## Functional 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.
- A removable screen homogenizes the pulsing discharge.
- 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).

- Two-way shaped screw with a degressive core of stainless steel (1.4301); diameter  $D = 25$  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<sub>DC</sub>).
- Speed-dependent stirring device, which also cleans the volutions.
- Strain gauge transducer with mechanical overload protection to protect against pressure and tensile loads.
- Gravity pipe provided with connection option for extension.
- Casing frame made of alloy with sideward macro-lon disks.
- Base plate provided with 4 x M8 mounting threads.
- Electrical connection via two coded six-pin plugs (included).
- Electric lamp as a heater for hygroscopic products.
- Dosing screen at the end of the screw tree (removable)

## Additional and special equipment

- $\varnothing 60$  mm stainless steel down pipe, different lengths available in accordance to customer requirements.
- Aspiration nozzle to extract the casing.
- 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 (norm signal input 0 – 10 V<sub>DC</sub>).

## Technical connection data

- Electrical connection of the strain gauge transducers and the gear motor via two coded six-pole plug-connections provided at the back wall of the casing.
- Transducer output signal: 2 mV/V.
- DC motor supply voltage: 24 V<sub>DC</sub>.
- Nominal speed of feed screw: 72 RPM. Adjustable via optional speed control facility DRI02.

## Standards and admittances

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

