

The Brabender Coriolis Mass Flow Scale Type CDW 350

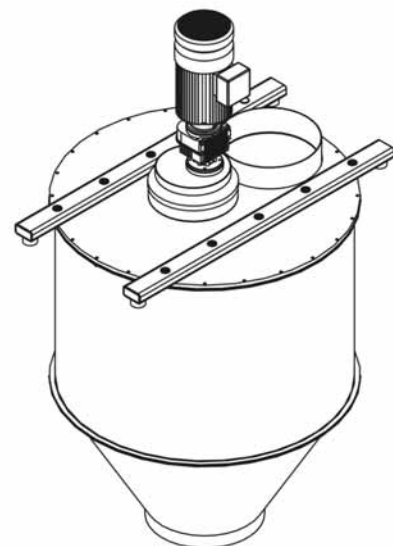
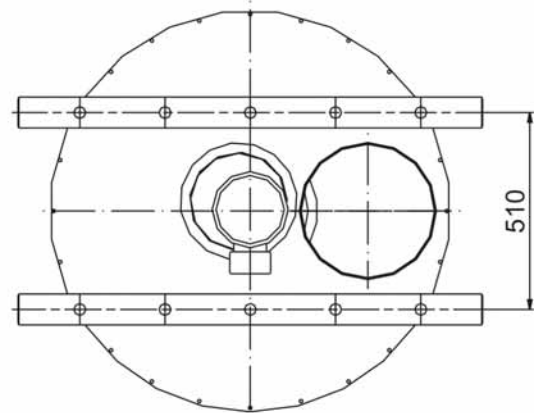
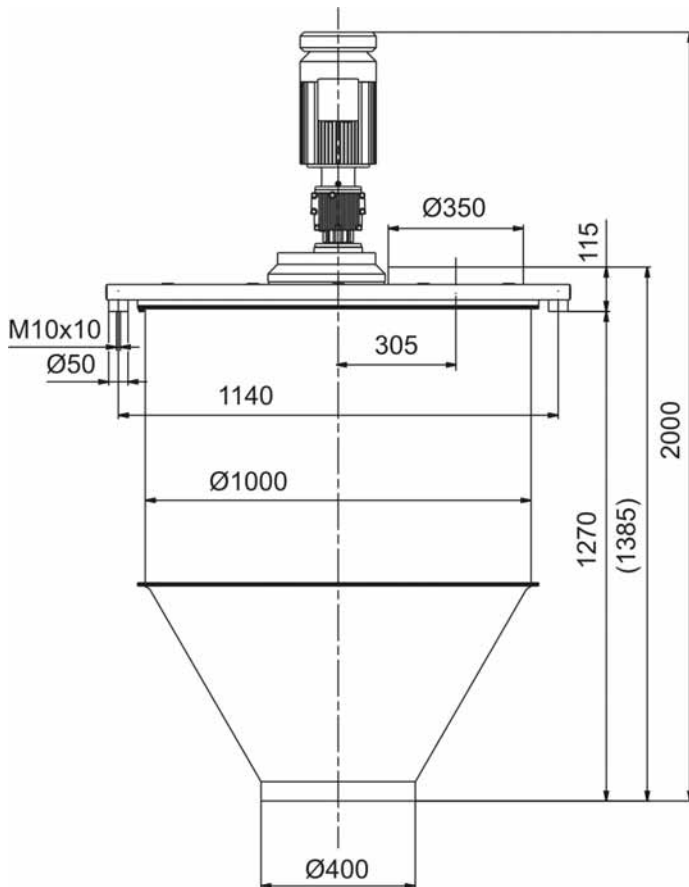
The Brabender Coriolis Mass Flow Scale Type CDW 350 is a dust-tight fully enclosed compact unit for high-accuracy metering of bulk solids mass flow up to 160 m³/hr using the principle of Coriolis force measurement. It is suitable for all non-adhesive flowable bulk ingredients at temperatures up to +70°C and is distinguished by its favourable cost-performance ratio. The compact design and the low planning-in dimensions even in case of highest throughputs save space and reduce the installation cost. Little maintenance requirement further reduces the expenses.

The working method: The bulk material is supplied from above and fed onto a constantly rotating impeller wheel driven by a three-phase current motor. The centrifugal force diverts

the material radially and conveys it forward. The tangential Coriolis force acts on the guide blades of the impeller wheel and causes changes in the torque of the drive motor, which are sensed by a load cell.

Based on torque and speed, the Congrav[®] microcomputer evaluation unit computes the current flow rate, which is both displayed and issued as a continuous actual value signal for recording or control of an upstream variable speed metering feeder (e. g. screw feeder, rotary valve, etc.). Complete proportioning configurations of this kind can be supplied.

Further option: explosion-proof designs complying with ATEX 95.
The unit conforms to CE directives.



Weight approx. 230 kg

Technical Data*

Components

- Casing: cylindrical hopper with discharge cone and outlet pipe
- Cover with inlet pipe
- Mounting crossbars with vibration isolation mounting pads
- Three-phase current motor, centrally arranged on the cover
- Vertical shaft with impeller wheel
- Internal guidance system feeding dry solids to impeller wheel
- Strain gauge load cell for dynamic measurement of motor torque changes
- Microcomputer Congrav®

Materials

- Parts in touch with ingredient SS 1.4301 (≈ AISI 304)
- Mild steel parts painted light grey as per RAL 7035 (textured coating)

Three-Phase Motor

- Wattage: 3.0 kW
- Voltage: 230/400 V
- Speed: 350 min⁻¹
- Protection: IP 55, insulation class F

Weighing System

- Strain gauge load cell, IP 65
- Rated capacity 100 kg

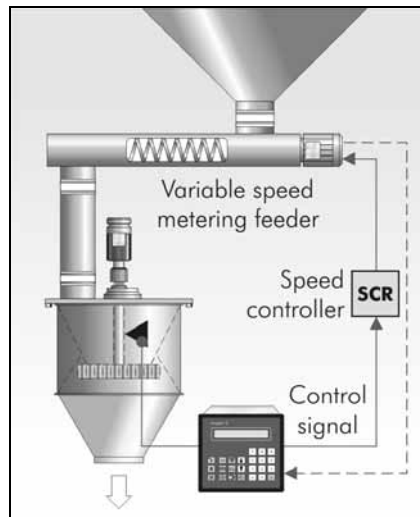
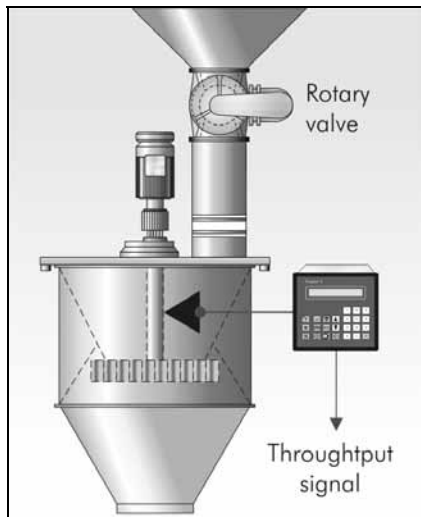
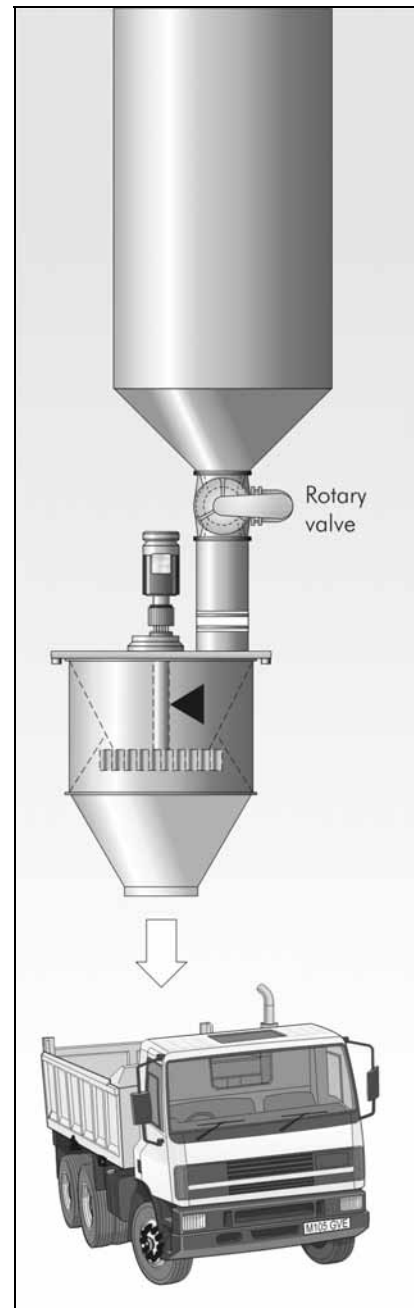
Performance Data

- Max. flow rate 160 m³/hr
- Measuring range ≥ 1:5
- Accuracy ± 0.5 % to ± 1 %

Ambience

- Temperature -20°C to +70°C

Application Examples



brabender
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 An ISO 9001/EN 29001 Certified Company

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