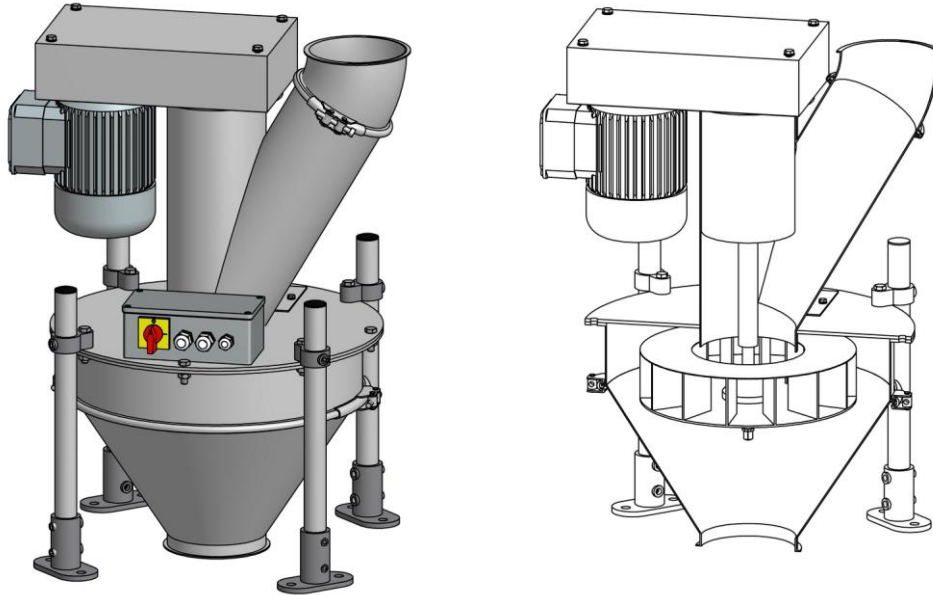


ROTOR WEIGHER RC

Continuous weighing of poor flowing bulk solids



Overview

- Sealed dust-tight and maintenance-free system
- Low installation height, easy assembly
- Largely insensitive to vibrations
- Direct mass flow measurement with high accuracy
- Patented and proven measuring system

Applications

The *Rotor Weigher RC* is suited for the following applications:

- Continuous weighing of bulk flow for implant control purpose and calculation of extraction
- Frequency controlled dosage for production of blends or additives

Applied products

A large number of poor flowing products can be measured, e.g. flour, powder and bran

Function

A horizontally aligned rotor is located inside the *Rotor Weigher*. It is driven at constant speed. The product is fed to the center of the rotor and accelerated to approx. 9 m/s. The occurring Coriolis force is gathered by a torsion spring and captured by a flux induction sensor. The system is completely proportional to the mass flow measurement. Material-specific characteristics such as flow characteristics or friction are not included in the measurement as errors.

Construction

The *Rotor Weigher* consists of housing, motor, gear transmission, driving axle, rotor plate and measurement instrumentation. The housing is dust-tight.

Sizes

The following sizes are available:

| Type | Pipe diameter | Max. flow capacity | Installation height |
|-------|---------------|----------------------|---------------------|
| RC100 | 150 mm | 20 m ³ /h | 823 mm |

The housing is made of stainless steel, the inlet is round.

Integration

Inlet and outlet are supplied with flare tube ends. Product should be fed in straight direction. Air flowing through the weigher due to pressure differences must be prevented. If necessary a bypass pipe for pressure compensation must be installed.

Accuracy

The measuring tolerance lies at +/- 0,5*, depending on feed design, product homogeneity and throughput.

Evaluation

Extern electronic type FE128

Available for panel mounting (24 V DC)

or inside wall housing (230 V AC),

- Can be installed independent from the dosing unit
- With LCD-display and keypad
- Display of capacity and total weight
- Preselection function
- Output of kg-pulses (24 V DC)
- Analogue output of capacity (0-10 V)
- Graphic registration over 48h
- RS232/485-interface, option: Profibus



Supplier information

| | |
|---------------------|--|
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Due to our policy of continuous development, given specifications and data are subject to change.

(*in relation to full-scale reading)