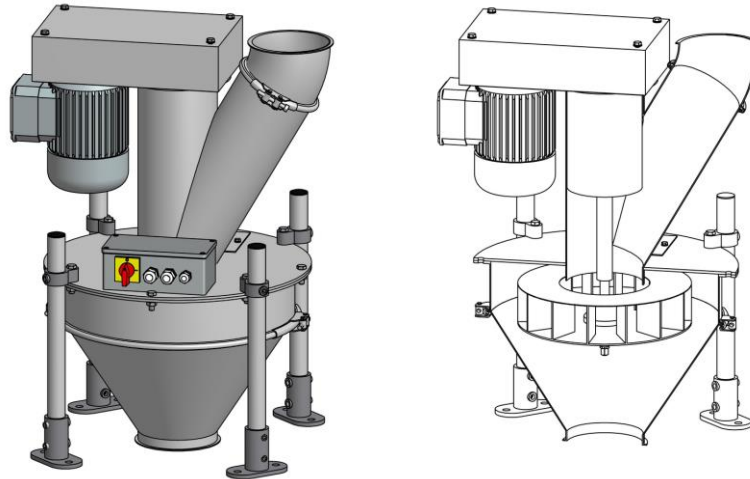




## ROTOR WEIGHER RC

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
- Widely independent from bulk density

### Applications

The Rotor Weigher RC is suited for the following applications:

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

The *Rotor Weigher RC* continuously weighs free bulk flow.

### 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. The occurring torque is gathered by a torsion spring and measured. It is completely proportional to the mass flow measurement.

### Applied products

A large number of poor flowing products can be measured, e.g. flour, shavings, chips, splints, powders, byproducts and bran

#### Address:

**FRIEDRICH electronic GmbH & Co. KG**

Holzmuehler Weg 100  
D-35457 Lollar, Germany

**Phone:** +49 6406 1509

**Fax:** +49 6406 6602

**Internet:** [www.friedrich-electronic.de](http://www.friedrich-electronic.de)

**Email:** [service@friedrich-electronic.de](mailto:service@friedrich-electronic.de)



## 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 <sup>3</sup> /h	823 mm

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

## Mechanical 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

Under practice conditions measuring tolerance is typically at 0.5%\*.

## Evaluation electronic type FE128

- Available for panel mounting (24 V DC) or inside wall housing (230 V AC)
- Can be installed independent from the weighing unit
- With LCD-display and keypad
- Display of capacity and total weight
- Preselection function, after expiry of a desired amount, an output is switched
- Output of kg-pulses
- Analogue output of capacity (0-10 V), 4-20mA optionally
- Graphic registration over 48h
- 10 product-specific calibrations possible
- RS232/485-interface (Modbus-RTU), Profibus, Profinet, Ethernet/IP optionally

*\* Related to working range of 20-100% of maximum capacity. Variations may occur caused by wrong feed pipe design, product inhomogeneity and extern disturbing sources.*

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

### Address:

**FRIEDRICH electronic GmbH & Co. KG**

Holzmuehler Weg 100  
D-35457 Lollar, Germany

### Phone:

+49 6406 1509

### Fax:

+49 6406 6602

### Internet:

[www.friedrich-electronic.de](http://www.friedrich-electronic.de)

### Email:

[service@friedrich-electronic.de](mailto:service@friedrich-electronic.de)