

# ProFlex® C Loss-In-Weight Feeder

- Feed System for Volumetric and Gravimetric Feeding of Powders and Granulate Materials
- Rapid and Simple Disassembly for Cleaning and Changing Feed Material
- Asymmetric Construction allows a Space-Saving Arrangement in Pairs of up to 8 Feeder Stations
- Flexible Feeder Container with External Agitation
- Integrated Measuring, Control and Regulation Electronics
- 



## Properties

The ProFlex C feed system is used for the continuous volumetric and gravimetric feeding of bulk materials such as powders and granulate materials.

The ProFlex C is specially designed to meet the requirements of the compound and masterbatch industries: the components can be easily disassembled to adjust the feed rate or to be cleaned with just one tool.

The asymmetric constructions of the ProFlex C allows for a space-saving arrangement in pairs of up to 8 feed stations. The orientation of the discharge side can be changed with just a few movements to enable the greatest possible flexibility.

There are three basic ProFlex C modules and a variety of extension hoppers, screws and spirals for adaptation to the bulk material characteristics and the flow rate.

## Design

The ProFlex C operates using the principle of external agitation: the feeder trough, of different elastomers, is filled extraneously and thus facilitates a material flow that is gentle on the material in the container and an even filling in the feed organ.

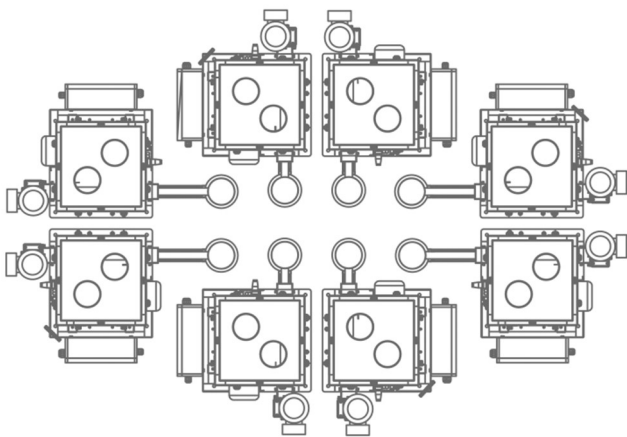
The geometry of the ProFlex C discharge pipe creates a low-pulsation discharge at lower screw rotations and thus enlarges the utilizable adjustment range at higher feed constancy.

The ProFlex C is non-sensitive to lateral shocks or oscillations thanks to the MULTI-POINT weighing system. The straightforward transportation safety device allows the scales to be transported securely.

All load or signal cables between the weighing and stationary sections of the ProFlex C are laid in the interior of the weighing module and are not affected by shunt forces.

## Technical Data

| Series   | C500   | C3000                         | C6000                         |
|--|--|-------------------------------|-------------------------------|
| Volumetric feed rate                                       | 1 ... 500 l/h  | 10 ... 3000 l/h               | 100 ... 6000 l/h              |
| Single spiral / Single screw                               | 19 / 25 / 35 / 44 mm   | 35 / 44 / 57 / 76 mm          | 57 / 76 / 89 / 102 mm         |
| Double screw   | 22 mm  | ---                           | ---                           |
| Length discharge nozzle from center of feeder              | 350 / 500 mm   | 450 / 650 mm                  | 600 / 800 mm                  |
| Extension hopper   | ca. 50 dm <sup>3</sup>                                       | ca. 100 / 150 dm <sup>3</sup> | ca. 200 / 400 dm <sup>3</sup> |
| Feed hopper  | EPDM / 20 dm <sup>3</sup>                                    | PUR / 60 dm <sup>3</sup>      | PUR / 100 dm <sup>3</sup>     |
| Weight empty   | ca. 70 kg  | ca. 170 kg                    | ca. 220 kg                    |
| Feeder drive (three-phase motor)                           | 0,25 kW  | 0,75 kW                       | 0,75 kW                       |
| Agitation drive (three-phase motor)                        | 0,12 kW  | 0,37 kW                       | 0,37 kW                       |
| Ambient temperature  | -10 °C ... +50 °C (ATEX: +40 °C)                             |                               |                               |
| Bulk materials temperature                                 | -10 °C ... +50 °C (higher temperatures on request)           |                               |                               |
| Bulk material density                                      | 0,1 bis 1,2 kg/dm <sup>3</sup> (higher densities on request) |                               |                               |
| Grain size   | bis 5 mm   |                               |                               |
| Flow properties  | frei bis mäßig fließend                                      |                               |                               |
| Stainless steel components in contact with the bulk solids | 1.4301   |                               |                               |



8-fold view



Paired arrangement of two ProFlex C devices

Schenck Process Europe GmbH  
 Pallaswiesenstr. 100  
 64293 Darmstadt, Germany  
 T: +49 61 51-15 31 0  
 F: +49 61 51-15 31 66  
 sales-eu@schenckprocess.com



<https://www.schenckprocess.com/contact>

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