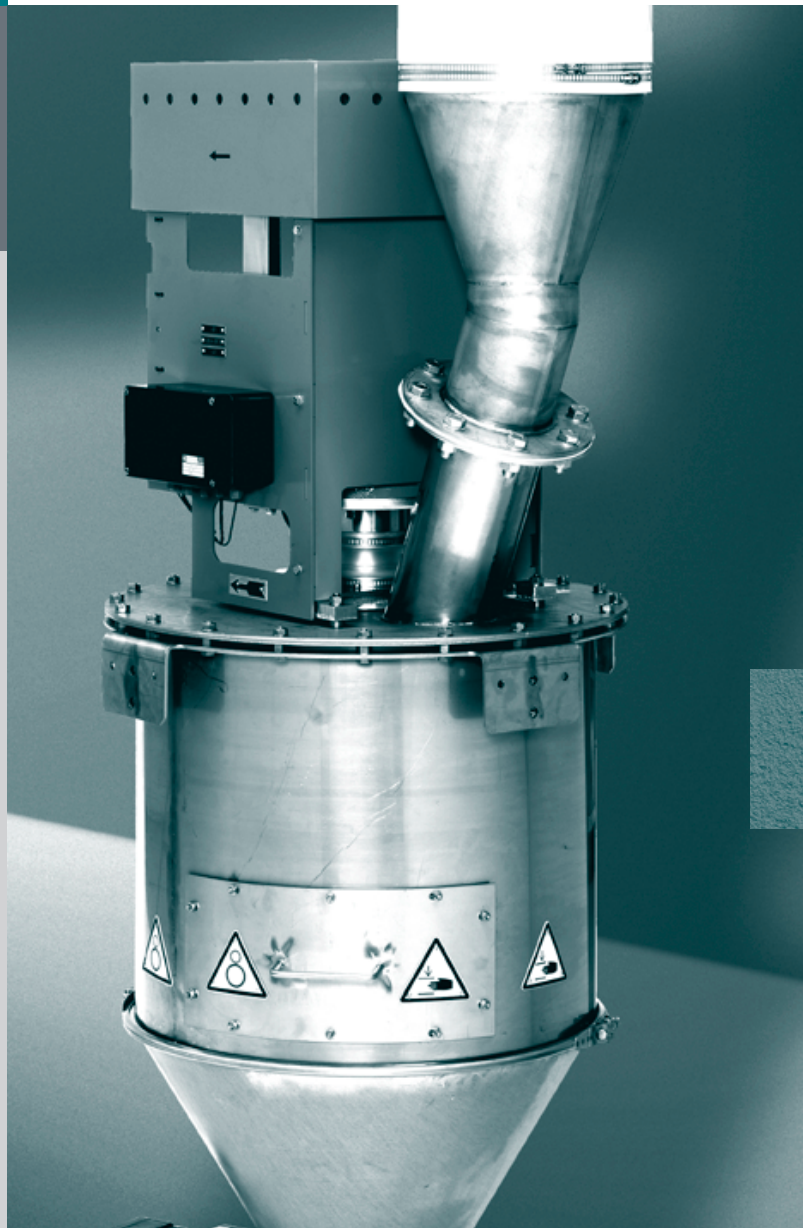


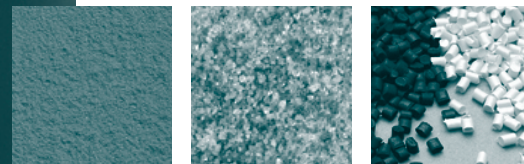
MULTICOR® S

Mass flow-rate feeding device according to the Coriolis principle for numerous applications



Active principle of the Coriolis force

The bulk solids hit a rotation measuring wheel. Due to the centrifugal force the bulk solids particles on the vane are moved outward. On the measuring wheel – by the acceleration in direction of the circumference – the bulk solids are subject to the Coriolis force. This force as measurable size is seized proportional to the gravimetric feed rate even with changing bulk density or different grain size.



Everything is accurately measured and fed

MULTICOR® flow feeding and feeding systems can be used anywhere where large amounts of bulk solids are to be continuously established, controlled, and fed.

Highly accurate feeding according to the Coriolis principle. MULTICOR® S by Schenck Process measures the material flow with an accuracy of $\pm 0.5\%$, precisely and economically. Whether it is for throughput and consumption measurement, for in-plant balancing or continuous feeding and charging of materials in a process, mass flows are accurately measured and fed in conjunction with an adjustable prefeeder. This is done regardless of the characteristics of the bulk solids and is unaffected by outside influences.



The feeders of the Low, Mid, and High Range series are suited for use in ATEX zones 1, 2 and 21, 22, depending on variant. Type examination certified to ATEX, the systems may be used for the feeding of flammable dusts (Zone 20 inside the machine).

Advantages

- ☑ Highest measuring and feeding accuracy by means of direct mass flow feeding; feeding constancy of $\pm 0.5\%$ based on the actual feed rate within the specified measurement range
- ☑ Simple installation due to the inline implementation and compact construction
- ☑ Low maintenance and repair costs
- ☑ Singular measuring principle for bulk solids by direct and quick feeding recording
- ☑ Can be delivered pre-calibrated
- ☑ Unaffected by outside influences
- ☑ High maximum material temperature up to 130°C
- ☑ Clean environment due to inline measurement in closed, dust-tight housing
- ☑ Wear-resistant due to the use of top-quality materials
- ☑ Measuring principle not affected by changes in bulk weight and varying grain sizes



Typical Applications

- ☑ Feeding of polymer powders for the production of basic plastic granulates
- ☑ Measuring of granulate flows
- ☑ Feeding of PTA powders in polyester plants
- ☑ Measuring of cereal flows in mills
- ☑ Acquisition of mass flows in in-plant transport
- ☑ Acquisition of mass flows in detergent production
- ☑ Detection of mass flows in fertilizer production

Our Solutions Package

- ☑ Dust-tight stainless steel housing with inspection opening
- ☑ Measuring wheel with vanes
- ☑ Weighing module

- ☑ AC gear motor with speed sensor
- ☑ All parts coming into contact with bulk solids made of stainless steel

Options

- ☑ Wear-resistant coating of the measuring wheel

- ☑ Rubber coating on the housing interior (max. temperature of bulk solids = 80 °C) for sound-proofing and for abrasive bulk solids
- ☑ Ceramic cladding of the housing interior for highly abrasive bulk solids
- ☑ Sound-proofing by cladding the equipment with an insulant

MULTICOR® S mass flow feeding device			
	S 40	S 80	S 160
Feed rate of measuring device	min. 0.5 t/h – max. 20 t/h (max. 40 m³/h)	min. 2 t/h – max. 60 t/h (max. 80 m³/h)	min. 6 t/h – max. 150 t/h (max. 160 m³/h)
Feed rate of feeding device Prefeeder screw or star feeder	max. 40 m³/h	max. 80 m³/h	max. 160 m³/h
Measuring/feeding range	1:10	1:10	1:10
Temperature of bulk solids	max. 130 °C (266 °F)	max. 130 °C (266 °F)	max. 130 °C (266 °F)
Grain size	max. 5 mm, individual grain up to 30 mm min. 10% > 0,09 mm	max. 5 mm, individual grain up to 30 mm min. 10% > 0,09 mm	max. 8 mm, individual grain up to 30 mm min. 10% > 0,09 mm
Bulk density	> 0.3 t/m³	> 0.3 t/m³	> 0.3 t³
Accuracy based on actual feed rate	> 0.5 t/h: $\pm 1\%$ > 2.0 t/h: $\pm 0.5\%$	> 2.0 t/h: $\pm 0.5\%$	> 6 t: $\pm 1\%$ > 10 t: $\pm 0.5\%$