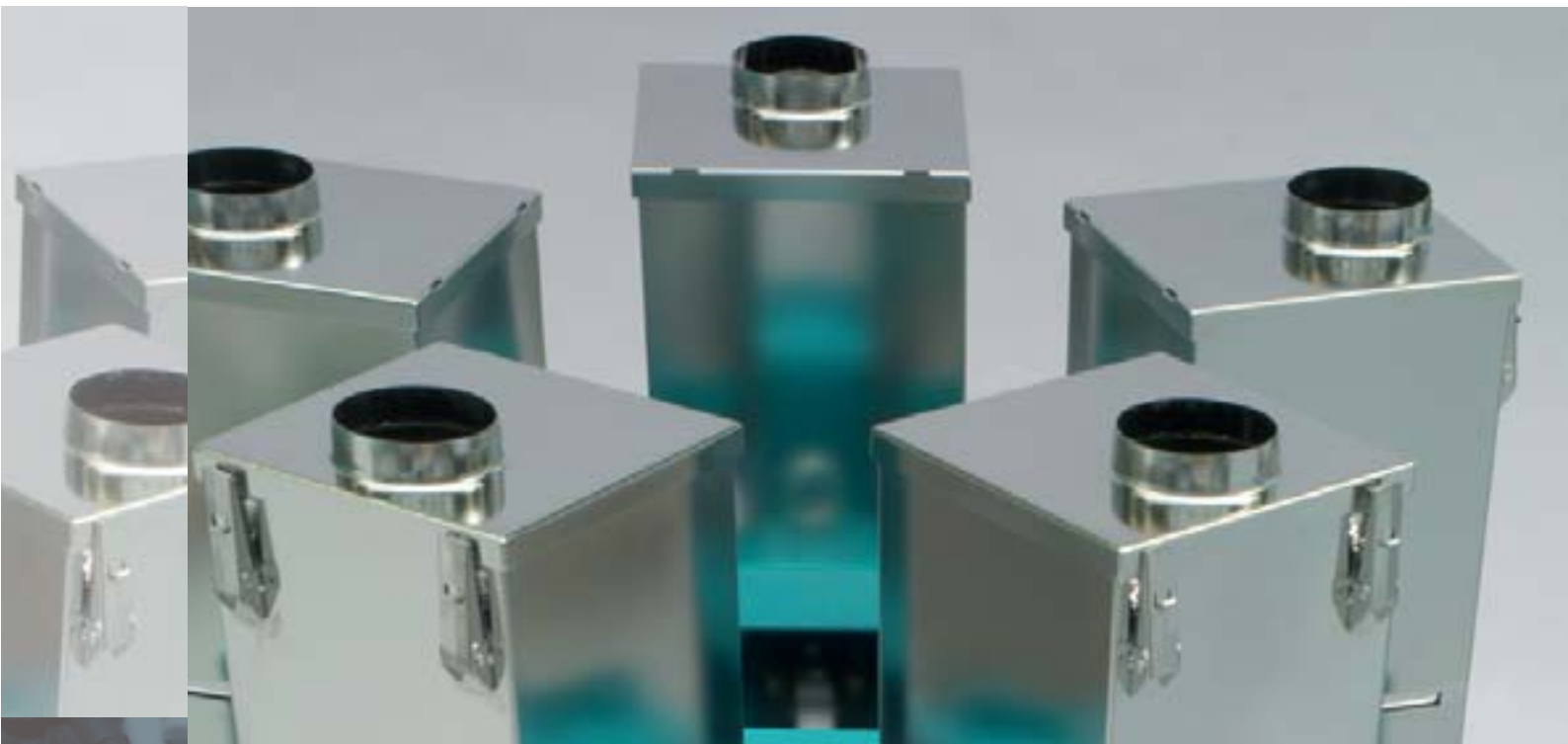


MULTIGRAV[®] – Multiple Accurate Feeding.



MULTIGRAV[®] – The Multi-Station Feed System for Granules.

we make processes work

Schenck Process – a company that has made a name for itself by designing and supplying state-of-the-art weighing, feeding and screening systems. The MULTIGRAV® Multi-Station Feed System is used for the continuous feeding of free-flowing granules.



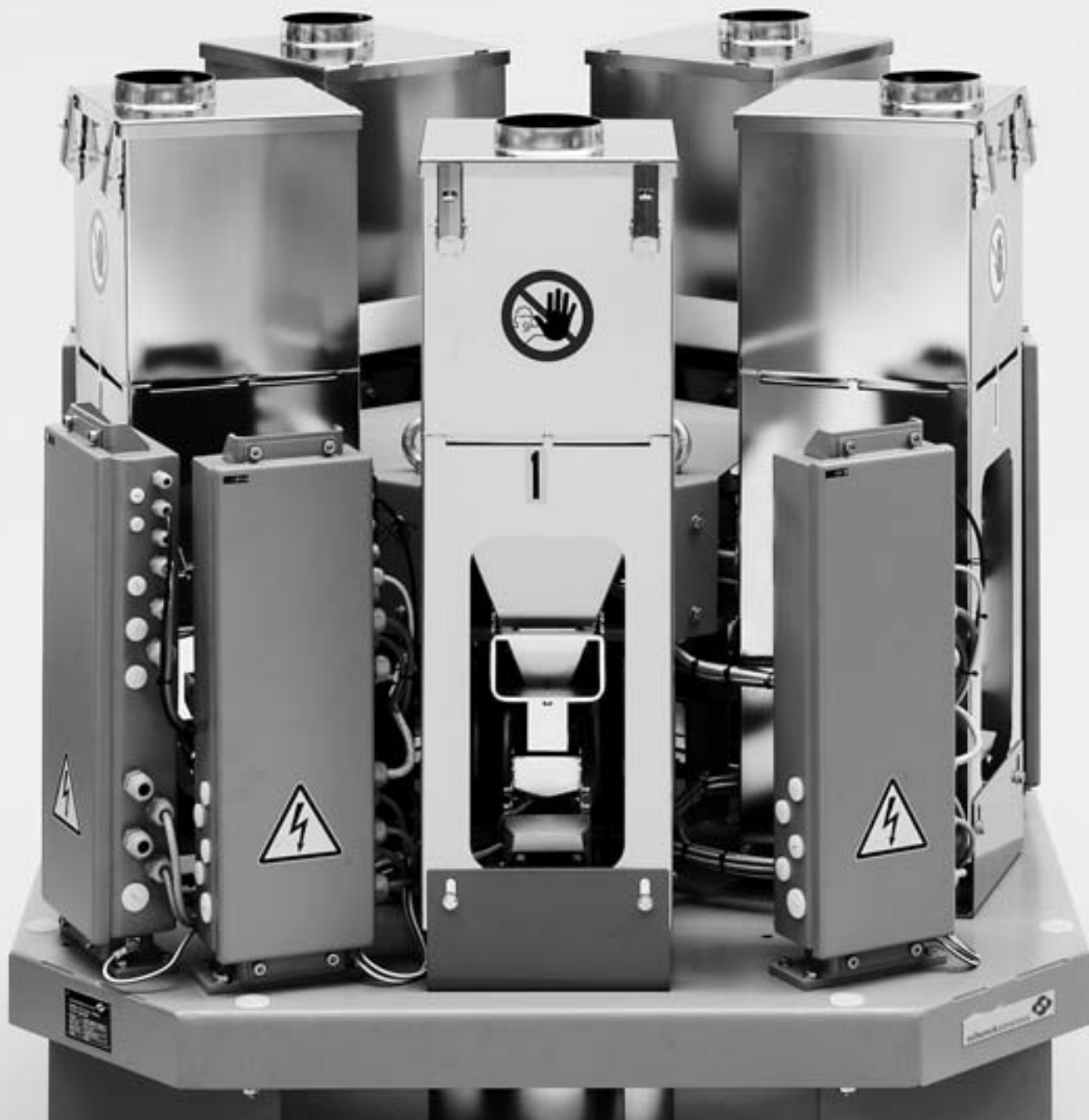
The MULTIGRAV® feed station comprises 1 to 8 system modules designed for continuous gravimetric feeding of granules. An optimised vibro feeder delivers the granules into the process. The system module is connected to a weighing module with optimised centre of gravity. The weighing module incorporates the vibration-resistant load cell.

If only one feed station is needed, the weighing module is connected with a mounting bracket.

For 2 to 8 feed stations, the system modules are centred around a blending vessel serving as buffer for the downstream process and mounted on a common bracket. A combination with MechaTron® loss-in-weight feeders is possible.

As an option, the blending vessel can be equipped with a load cell to monitor the hopper level.

In addition, the bracket serves as heat shield towards an extruder. The electronic components are integrated into the mechanical feeder system in the MechaTronic version.



Applications

Continuous, gravimetric feeding of granules in the plastics and chemical industries, typically as feeding system for extruders/compounders.

❖ Fine and Special Chemicals

salts, basic chemicals, dyes, detergents, fertilizers, glass, chemical building materials, metals, printing, paper

❖ Plastics

plastics compounding, plastics granulation, polyester production

❖ Food

basic materials, baking industry, confectionary, flavours, pet food, instant food

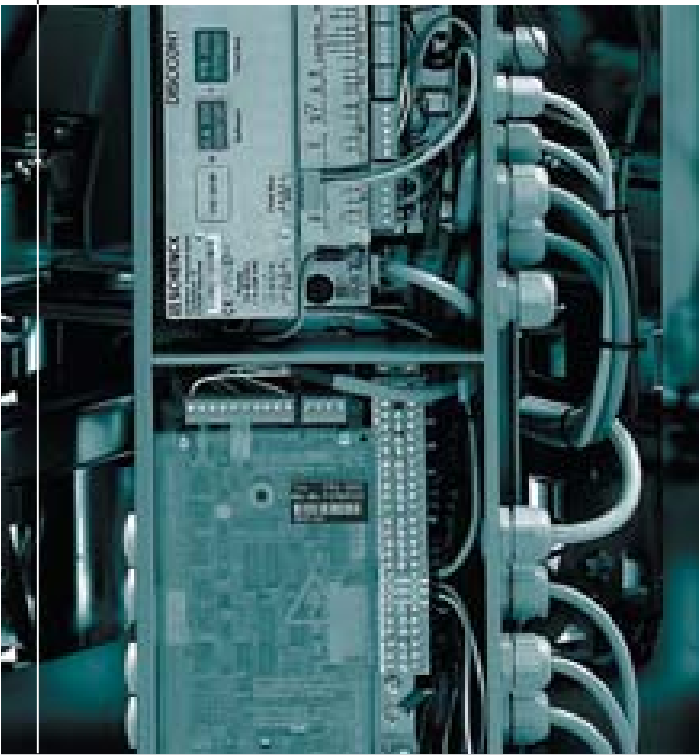
System Benefits

- ❖ MechaTronic installation reduces cabling requirements
- ❖ Easy access minimises maintenance cost

MULTIGRAV®

- ❖ Compact design: space-saving installation
- ❖ High feed accuracy and constancy (better than $\pm 0.5\%$) through optimised vibro feeder
- ❖ Easy cleaning with EasyClean
- ❖ Virtually maintenance-free
- ❖ Reduced investment costs
- ❖ Optimal accuracy over a wide setting range
- ❖ Nominal feed rate per system module between 0.3 and 400 kg/hr (max. 720 dm³/hr) without mechanical alteration with EasyAdjust
- ❖ Good blending constancy thanks to internal blending vessel

The measuring and control instruments are fitted in a freely accessible cable support. As control electronics, the reliable DISOCONT® system is used.



Quick and easy in a few seconds

Step 1:
Pull out feed bracket with two hands.

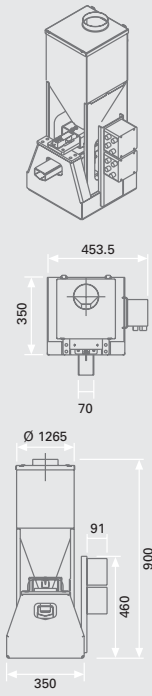
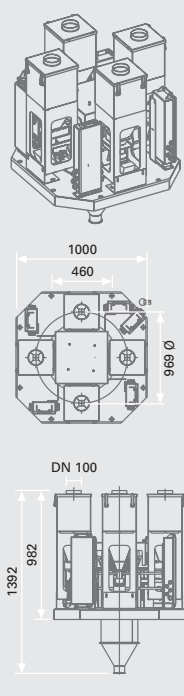
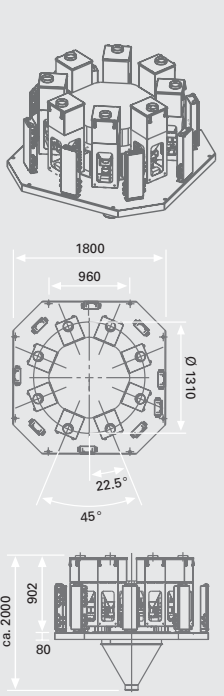
Step 2:
Attach chute without tool in no time.

Step 3:
Open chute closure. Clean in a jiffy.
Shut and start production right away. Without delay and effort!

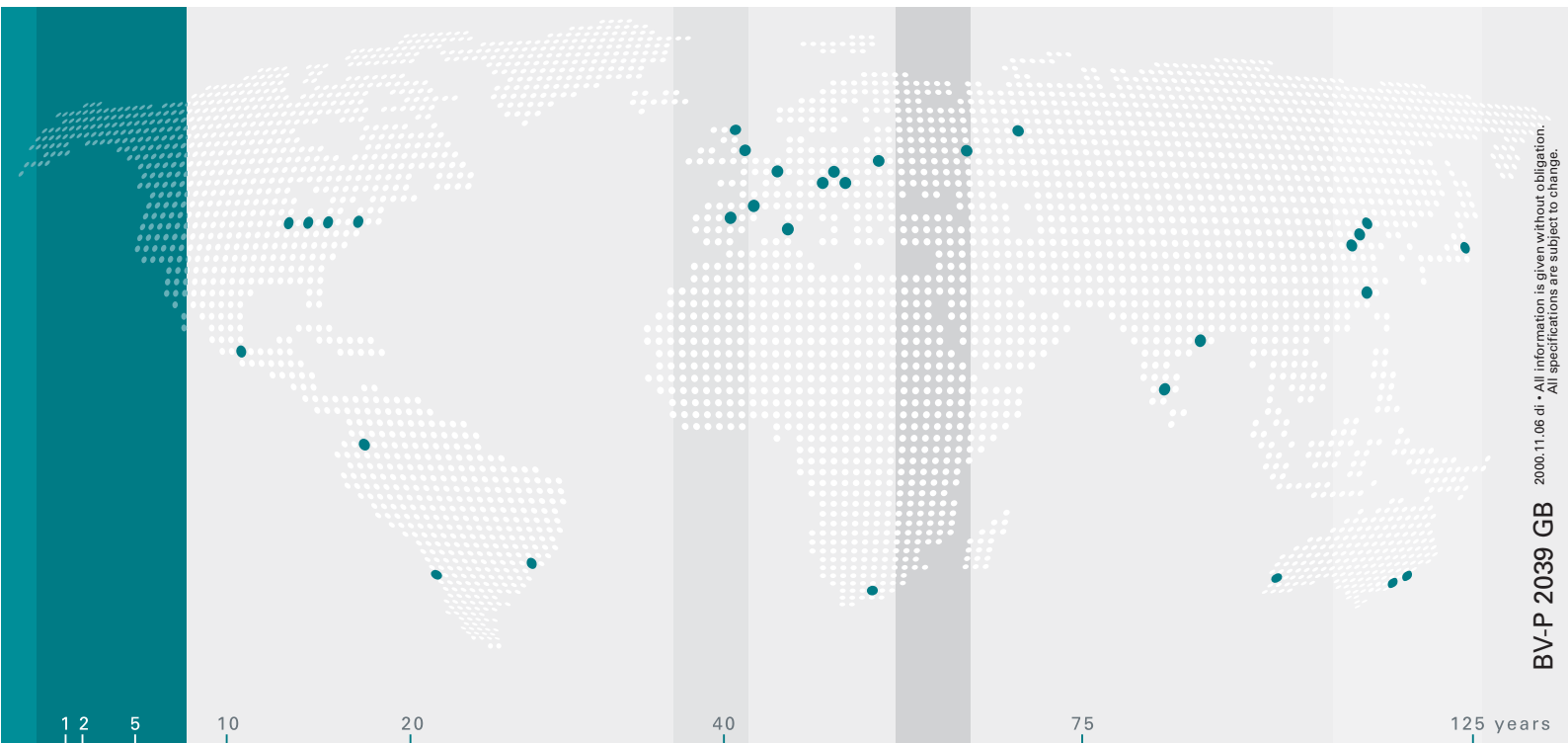


MULTIGRAV® Multi-Station Feed System

The table below gives an overview of the available variants complete with technical data.

Technical Data	Single Feed Station	2 to 4 Feed Stations	4 to 8 Feed Stations
Feed rate (single feeding)	0.3–400 kg/hr, max. 720 dm ³ /hr		
Feed material	granules		
Grain size	0.5 to 5 mm		
Flow properties	free-flowing, non-sticky		
Bulk density range	0.3–0.8 kg/dm ³		
Refill amount/feeder	12 dm ³		
Material temperature Ambient temperature	max. 100 °C max. 50 °C		
Moisture	max. 0.5 %		
Accuracy	± 0.5 %		
Feeding constancy	± 0.5 %		
Feed rate (multiple feeding)		max. 1,600 kg/h max. 5,000 l/h	max. 6,000 kg/h max. 20,000 l/h
Dimensions in mm			

weighing
feeding
measuring
automation



BV-P 2039 GB 2000.11.06 di - All information is given without obligation. All specifications are subject to change.

Schenck Process is the global market leader of solutions in measuring and process technologies in industrial weighing, feeding, measuring and automation.

Schenck Process develops, manufactures and markets a full range of solutions, products and turnkey systems on the basis of combining process engineering expertise, reliable components and field-proven technology.

Schenck Process GmbH
Pallaswiesenstr. 100
64293 Darmstadt, Germany
T +49 61 51-15 31 11 19
light@schenckprocess.com
www.schenckprocess.com

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