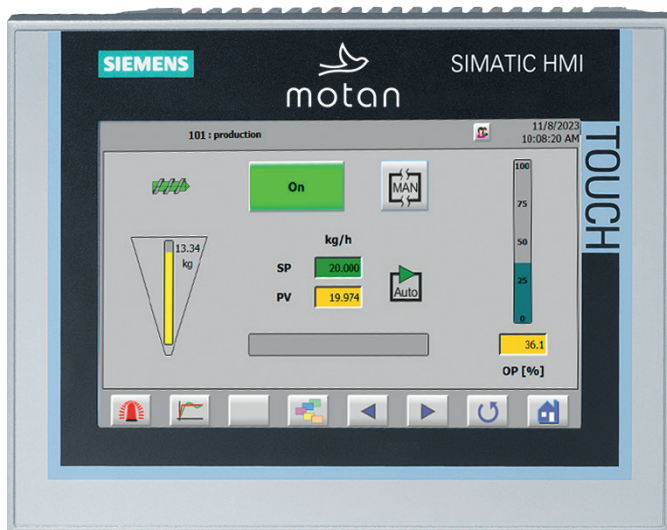


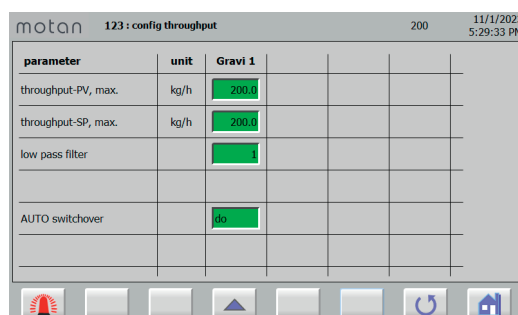
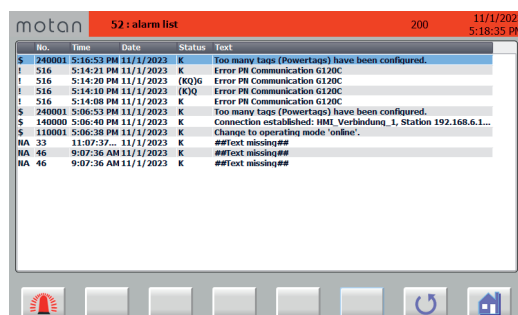
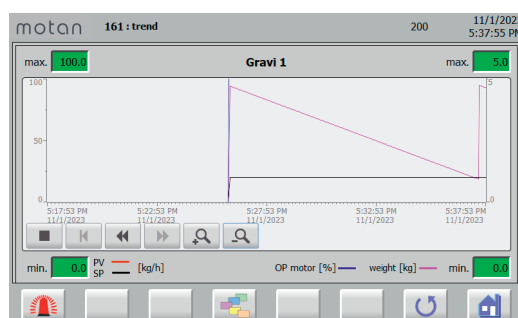
The GRAVIMASTER control system regulates the throughput of an extruder or a dosing screw. It uses gravimetric throughput measurement with the help of a GRAVIFLOW weighing hopper to precisely adjust the throughput of an extruder.

The throughput measurement method is based on the weight loss measurement over a time interval (loss-in-weight). The GRAVIMASTER control supplies the weigh hopper and in turn records the weight signal with little interference, even over a longer distance.

A clear and easy-to-use user interface distinguishes the GRAVIMASTER control. A special feature of this operation is that the extruder can be started via the speed and the gravimetric control can be activated at the operating point. This means that when the system is started, everything is still under manual control. The control has a modern full colour touch display.



- Compact Siemens S7-1200 / S7-1500 control unit
- Operating unit 7" with full colour touch display
- Display size 214x158 mm, resolution 800x480
- Digital and analog interfaces
- Dedicated measuring module with ± 4 million parts and an accuracy of 0.05 %
- Processing of the converted weight every 100 ms
- Configurable to different load cells
- Supply voltage 230 V AC (with control cabinet)
- Control cabinet 380x380x210 mm
- Network interface (for remote maintenance or communication)



GRAVIFLOW with swing flap									
Capacity (l)	2	3	4,5	9	12	15	30	40	60
Max. throughput of polyolefins for bulk density = 0.55 kg/l (kg/h)	40	60	90	175	250	300	600	800	1500
Max. throughput of polyolefins for bulk density = 0.35 kg/l (kg/h)	-	-	-	-	-	200	400	500	1000
Dimensions (mm)									
Diameter D	150	240	240	240	240	240	400	400	550
Breite	340	380	380	380	380	380	505	505	660
Tiefe	200	300	300	300	300	300	430	430	580
Höhe	520	547	580	716	781	846	901	1018	1158

TECHNICAL DATA

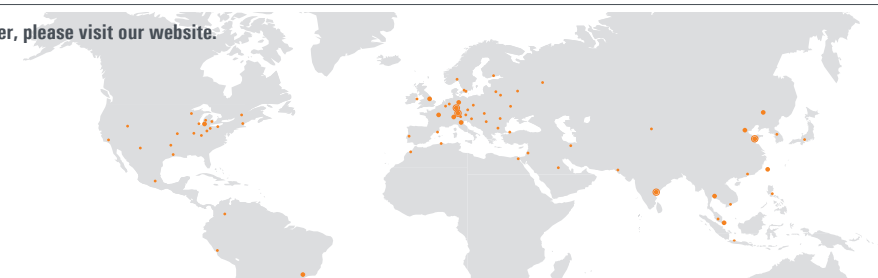
SPECTROFEED					
Screw type	yellow	brown	red	green	black
Throughput range (kg/h)	0.1 - 6	3 - 25	10 - 60	20 - 180	50 - 500
Diameter (mm)	8/15	13/20	17/25	25/34	40/50

- Continuous weight-related monitoring of the material flow
- Continuously updated display of target/actual values
- Production control through event log
- Shortest downtimes during production changeovers thanks to simple handling

- Simple retrofitting thanks to the modular system
- Simple cleaning
- Fixed scale unit
- Robust design
- High overload protection
- Simple handling
- Proven flap valve

- Parts in contact with the product are made of stainless steel
- Customized versions
- Mechanics also available without electronics

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Gravimetric throughput measurement and extrusion control

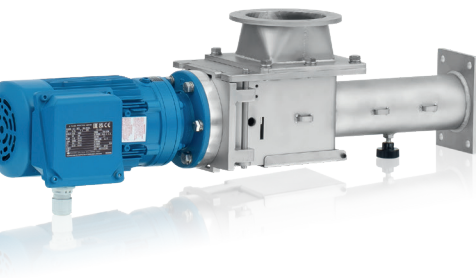


SPECTROFLOW

SYNCHRONOUS DOSING AND MIXING STATION

SPECTROFLOW is a gravimetric and volumetric synchronous dosing and mixing station for granulate and regrind materials. It combines exact dosing with efficient mixing and thus ensures consistently high product quality.

The modular design with up to six flexibly configurable dosing modules makes SPECTROFLOW one of the most versatile system solutions within the motan product world. The station is available in either gravimetric, volumetric or combined versions and offers maximum flexibility for individual applications and complex end products.



GRAVIFLOW

GRAVIFLOW is designed for the gravimetric throughput measurement of free-flowing bulk materials such as granulate and regrind. Available in various sizes, it supports throughput rates ranging from 1 to 1.500 kg/h. For use in mono- and co-extrusion lines and in combination with dosing units.

The compact weigh hopper stands out thanks to its space-saving design, robust construction, and low maintenance requirements. GRAVIFLOW can be easily integrated into existing production systems and installed with minimal effort. It is mounted either directly on the feed throat or flexibly via adapters on various discharge units.

GRAVIFLOW offers a high degree of flexibility in control integration. Depending on the application, control solutions can be customised to meet specific customer requirements.

SPECTROFEED - Screw dosing unit

Dosing capacities for individual dosing modules from 0.1 to 450 kg/h can be achieved with various combinations of screws and sleeves. This means that the dosing capacity can be quickly and easily adapted to the recipe quantity, while the dosing module always runs at optimal speed.

Quick cleaning

The swivel-mounted dosing motor allows easy access for cleaning. In addition, the dosing screw can be removed quickly and easily thanks to the practical bayonet fitting.

GRAVIFLOW

GRAVIMETRIC THROUGHPUT MEASUREMENT AND EXTRUSION CONTROL



Product variants

GRAVIFLOW is available in various sizes, allowing throughput rates from 1 to 1.500 kg/h. This ensures that the ideal unit size is available for every process.



Air outlet

The GRAVIFLOW M series is equipped with multiple air outlets with filters in the lid, which improve air release during refilling. This significantly increases the outlet area. Cleaning is possible even during operation.



Optimal filling

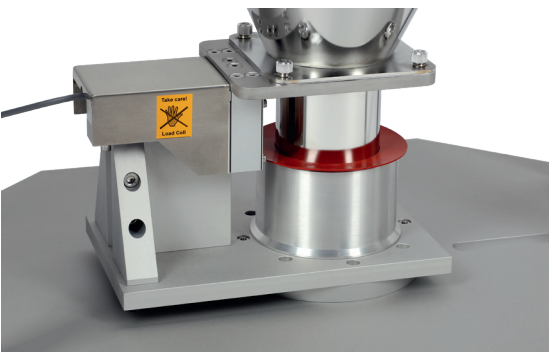
Optimal filling is ensured with the swing flap, which separates the material flow and prevents blockages. In addition, the internal filling valve enables immediate and precise weight measurement directly after filling – without any process delay.

Customised solutions

Customised solutions enable application specific integration of customer requirements into the unit and system design. This ensures the system is optimally adapted to the respective application.

Compact weighing platform

The compact weighing platform, including the electrical connection, can be easily and quickly replaced. This allows the mechanical unit to be exchanged within minutes if needed, significantly reducing downtime.

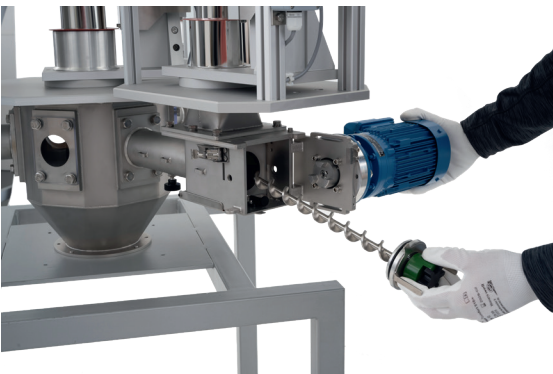


Weighing unit

A precise throughput measurement is achieved through a well-thought-out design in which only the weigh bin is weighed. This minimizes external influences and significantly increases measuring accuracy.

SPECTROFEED

SCREW DOSING UNIT



Interchangeable dosing screws

All dosing screws offered are interchangeable. The quick and easy changeover saves time and money. By changing screw-sleeve combinations, different dosing capacities can be achieved – without any time-consuming changeover using tools.