

Gravimetric dosing units

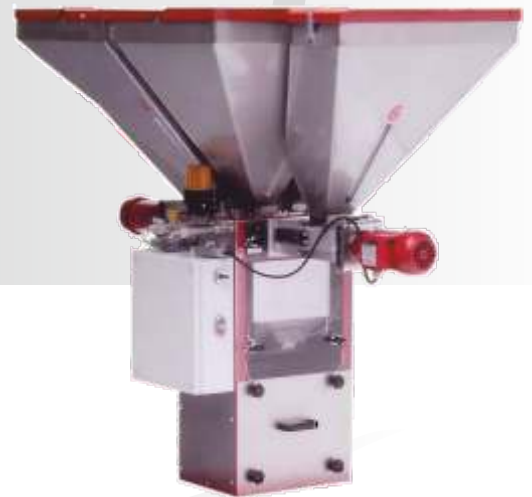


The DGS dosing-blending system is designed for efficient and accurate dosing/blending of dry, free-flowing thermoplastic materials.

The DGS is often used on injection, extrusion and blow-molding machines where consistency and high quality of the finished product is required.

DGS records the exact consumption of all materials, allowing for a precise calculation of the production costs.

Due to the high and consistent dosing accuracy, the additive percentage can be reduced to lower tolerance limits without rejects or a loss in quality.



The DGS is suited for dosing of virgins (granulate), free flowing regrind, masterbatch and/or additives.

This blending system can be installed directly on the processing machine, on a platform or next to the processing machine.

Due to simple removable parts a quick cleaning and material change is guaranteed.

Components are dosed after each other into the weigh-bin, which is supported by an accurate weigh system.

After weigh out the complete batch is discharge into the mixing chamber and the horizontal mixer provides a consistent blend.

A level sensor in the mixing chamber controls the complete blending cycle. The DGS is an economic and user friendly blending system.





Accuracy:

The system will weigh to an accuracy of 1/100 of a gram.

Dependent on the interface, the display will show the weight of each component in 1 gram or 1/10 of a gram.

Installation example:

- directly on the throat of a processing machine
- On a stand with vacuum take-off bin next to the processing machine
- With or without a stand on a platform
- if the system is not installed directly on a processing machine, an extra material control valve underneath the mixing chamber is recommended

The touch-screen handheld control, is microprocessor-controlled and can be used for either one or several DGS system.



Technical details

Model gravimetric dosing units		DGS1	DGS1.5	DGS2	DGS5	DGS10	DGS25
Power supply	V / Hz	240 / 50-60			400 / 50-60		
Batchweight	kG	0.5	1.5	2	5	10	25
Number of components	min - max	4	4	2 - 6	2 - 6	2 - 7	2 - 10
Throughput *	kG/h	50	300	195 - 420	355 - 945	750 - 1800	1000 - 2750
Capacity of material hoppers	litre	6	7,5 - 11	35 (85) - 11	35 (85) - 11	80 - 50	25 - 70 - 160
Power consumption	kW	0.05	0.15	0.45	0.45	0.55	1.10
Compressed air supply	bar	6					
Compressed air consumption	NI/h	60	60	250	250	± 250	± 250
Dimensions W x L x H	mm	450	600	950	950	950	1750
		685	805	1115	1265	1115	2150
Weight (approx.)	kG	35	60	75	80	300	400

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