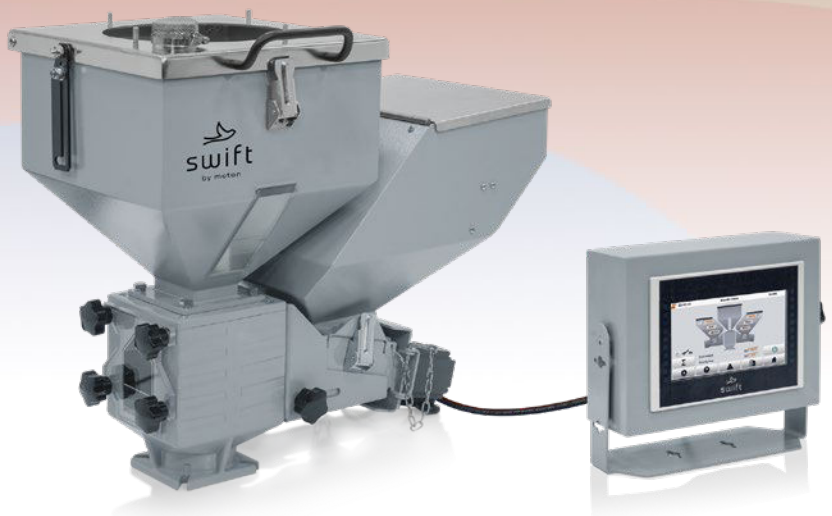
swift
by motan

DOSING AND MIXING

sCOLOR V

VOLUMETRIC ADDITIVE DOSING UNIT



ZERO LOSS

sCOLOR V

VOLUMETRIC ADDITIVE DOSING UNITS

swift - simple units, combined with state-of-the art control technology

The new swift product family comprises the most cost-efficient models of the motan product portfolio. swift products are quick and easy to operate. Whether for standardised injection moulding, blow moulding, or extrusion applications – they are always the right choice. The swift product family not only represents value for money, quick delivery and our usual motan quality, but also state-of-the-art control technology.

Dosing on the processing machine

With the volumetric dosing unit sCOLOR V, plastic processors can achieve excellent mixing quality and the highest dosing and repeat accuracy. This dosing unit is used for dosing additives into a free-flowing material stream of a main component. The compact sCOLOR V saves space by being installed directly on the intake flange of the processing machine.

sCOLOR V with screw dosing

Three variants of material hoppers

For free flowing main components, depending on the application and combination, there is a choice between three sizes of material hoppers. They are available with a flange for mounting a material hopper loader.

sCOLOR V control

sCOLOR V control

The micro-processor control of the sCOLOR V can either be used for injection moulding applications or extrusion operation. The modern 7" graphic display visualizes the dosing rates and supports calibration. Dosing speed is calculated automatically according to the calibrated weight and the recipe.

One control can operate one to two dosing modules and 16 user interface languages can be selected.

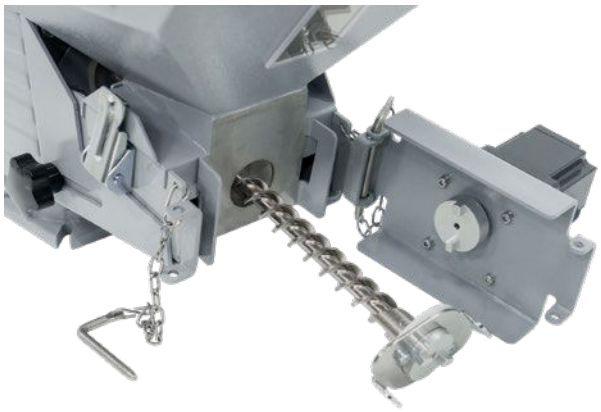
- Simple operation via a 7" graphic display with touchscreen
- 128 MB RAM, 128 MB Flash
- For injection moulding and extrusion applications
- Throughput monitoring with report function
- 16 user interface languages
- Possibility of automatic adjustment of dosing time according to plasticisation time of the processing machine

Volumetric dosing

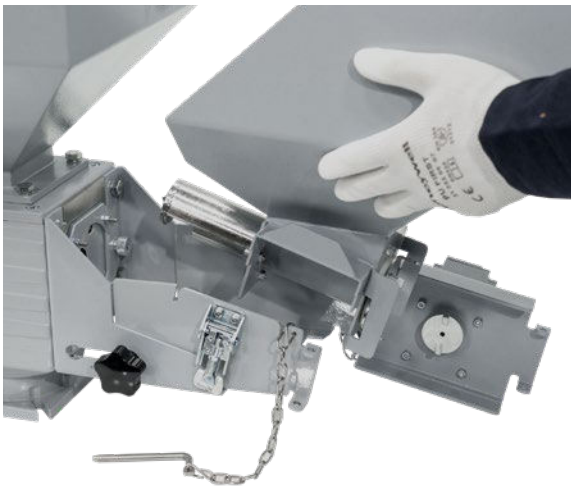
A decisive characteristic of synchronous dosing units is the simultaneous discharge of all material components, whereby the mass flow corresponds to the recipe at all times. This is why synchronous dosing systems usually do not require an active mixing unit.

Dosing occurs synchronously during the plasticisation time of the injection moulding machine, or continuously and analogue to the screw speed of the extruder.

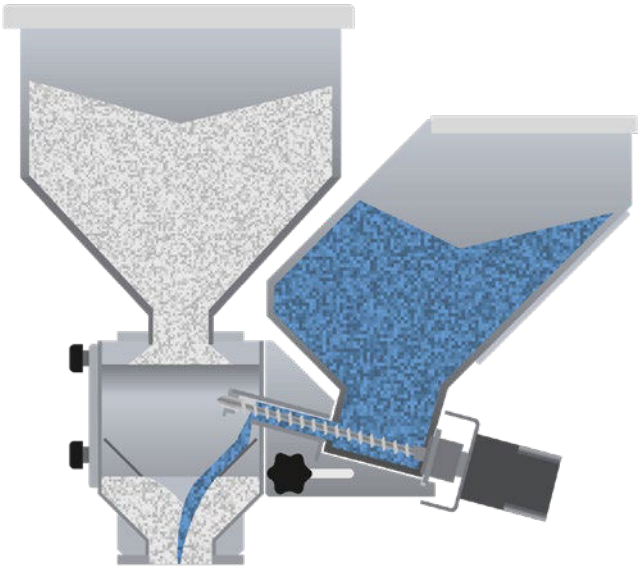
Easy screw changeovers



Quick material changeovers



Mixing neck



Mixing neck

A stainless-steel insert in the mixing neck divides the stream of the main material into two material streams. Up to two additives are dosed and added to the material centrally via screw dosing. All components then flow back together which ensures a homogenous mix.

Dosing motor

Screw dosing

The dosing motor is installed on hinges, making screw changes and cleaning quick and easy. The brushless motor ensures constant operation without the need for maintenance. The wear-resistant dosing screw is available in different variations and can be removed without tools.

The screw is installed at an inclined angle, which ensures a constant material stream and makes the screw impervious to vibrations. For calibration, the dosing module is retracted in order to collect the additive for measuring. The additive storage bins can be exchanged quickly.

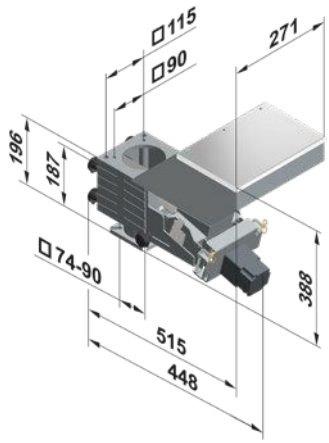
sCOLOR V

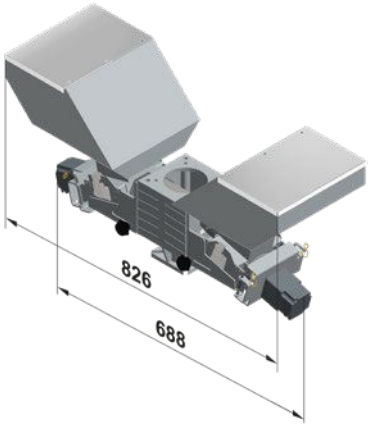
TECHNICAL DATA

Technical data			
Dosing and mixing unit		sCOLOR V	
Dosing process		synchronous	
Dosing type		volumetric	
Number of dosing modules		1	2
Dosing range main component		free-flowing	
Dosing capacity (screw dosing) (kg/h)*	G1S	0.26 - 5.2	
	G2S	1.52 - 30.3	
	G3S	2.58 - 51.6	
	G32	6.6 - 200	
Volume of supply hopper (screw dosing) (l)		12	
Power supply (V/Hz)		1/N/PE 230/50	
Connected load (W)		120	200
Control		sCOLOR V control	
External contact		potential-free	
Weight approx. (without control) (kg)		15	24
Colour RAL (grey)		7040 / electro polished	
Control		sCOLOR V control	
Timer function		•	
Manual calibration		•	
Regrind compensation function		•	
Operation: Graphic user interface / touch panel		•	
Process documentation (throughput acquisition, etc.)		•	
Extruder tachometer signal processing		•	
Most cost effective solution for colouring of masterbatch		•	

* Varies with bulk density. Indicated values for masterbatch: bulk density = 0.8 kg/dm³

sCOLOR V





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