

PLASTIC CONTROL



DOSING UNITS

Endless Opportunities

FUNCTION 4

PLASTICOLOR 1500.....7

PLASTICOLOR 2500..... 8

PLASTICOLOR 3500.....10

PLASTICOLOR 5000.....11

COLOUR CHANGE SYSTEMS..... 12

DOSING STATIONS14

MATERIAL FEED HOPPER.....16

Subject to alterations, even without advance notice.
Measurements and data without obligation.



PLASTICOLOR dosing units are designed and used for the dosing of granular, free flowing and non-sticky materials, such as masterbatch, regrind materials, virgin materials and PVC dry blends.

The fields of application cover all extrusion, blow-moulding and injection moulding manufacturing processes.

The PLASTICOLOR modular system has four dosing unit sizes with a performance between 70 g/h and 4,800 kg/h.*

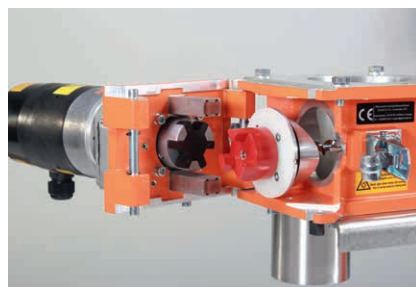
Dosing units can be used as individual dosing units, but can also be used in colour change systems, dosing systems, volumetric mixing stations, gravimetric mixing stations and gravimetric dosing-/mixing stations.



* All figures are only guidelines.
Individual outputs depend on the material and must be checked.

FUNCTION

Based on our many years of experience, PLASTICOLOR dosing units are designed in an optimum way to provide quick and easy changing of material, colours, or screws / cylinders.



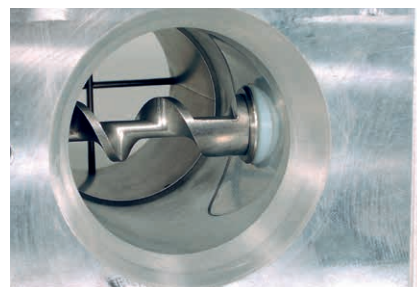
Quick acting latches

Quick acting latches make it possible to open PLASTICOLOR dosing units quickly and easily. Pressing bolts press the sealing washer of the screws into the housing and ensure good sealing and prevent backpressure onto the motor and gearbox.



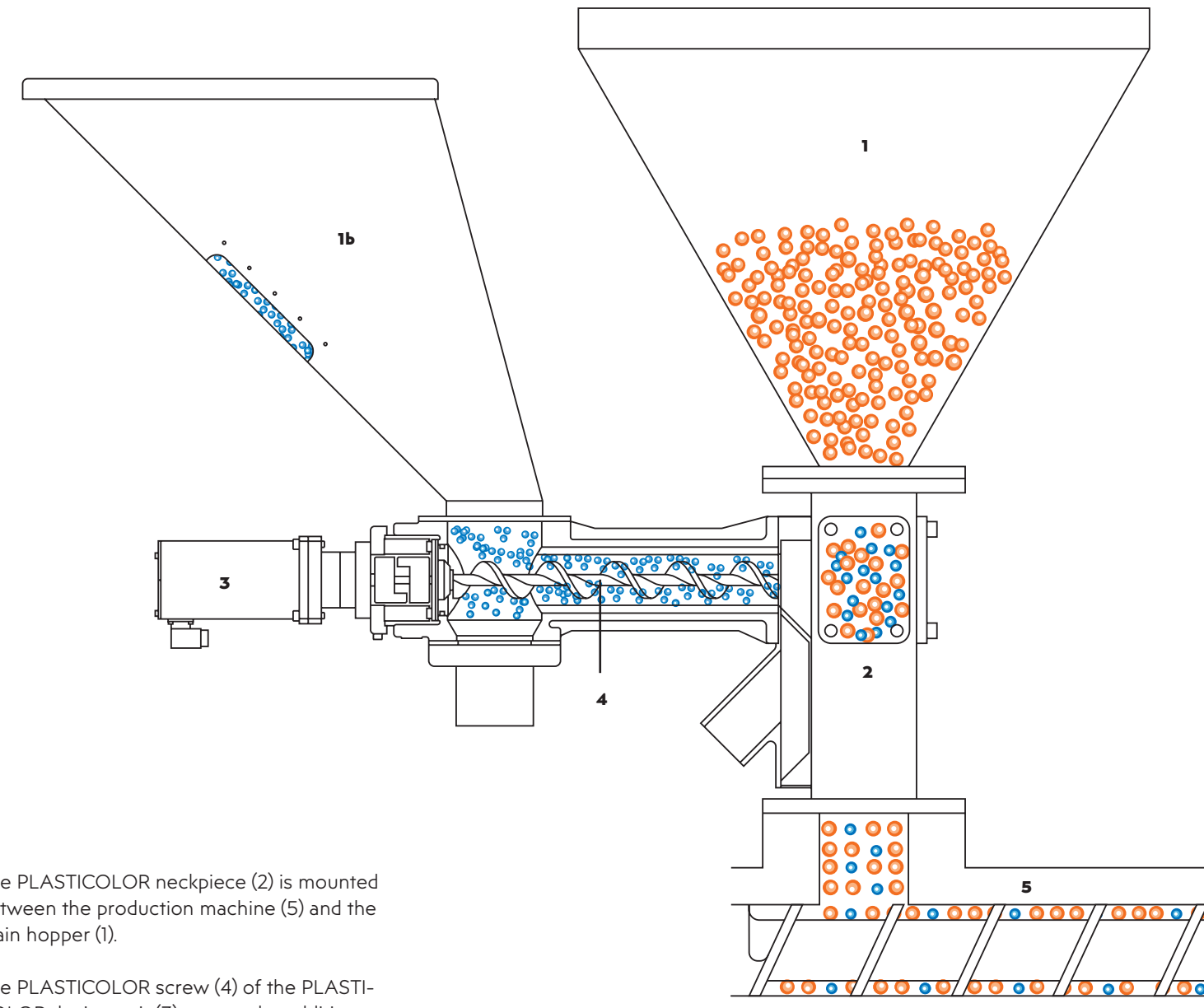
Quick discharge

As standard, all dosing units have fitted a manual quick discharge facility. With just a few simple steps, you can discharge PLASTICOLOR dosing units and the hopper. Pneumatically operated quick discharge facilities are available options.



Round filling zone

The completely round design of the hopper discharge, filling zone and discharge slide makes virtually residue-free discharge possible.



The PLASTICOLOR neckpiece (2) is mounted between the production machine (5) and the main hopper (1).

The PLASTICOLOR screw (4) of the PLASTICOLOR dosing unit (3) meters the additive into the main material stream passing through the neckpiece (2).

The short distance between dosing and actual processing eliminates any risk of material separation.

Controls for PLASTICOLOR dosing units

- Serie PC 90-04
- Modular Controls Serie PDC
- PPM-Control-System

- 1 Main hopper
- 2 Neckpiece
- 3 Dosing motor
- 4 Screw
- 5 Production machine

PLASTICOLOR 1500

**Additives for all processing machines,
Main materials for small processing machines**

Dosing capacity

- 0.08 – 77 kg/h
(PVC Granules 3.5 mm)*

Standard equipment

- Quick acting latches
- Quick discharge
- Manual neckpiece slide

Accessories, optional

- Pneumatic neckpiece slide
- Pneumatic quick discharge
- Level sensors
- Sensor adapter under hopper
- Manual hopper slide
- High capacity insert in the neckpiece
- Hopper adapter on the neckpiece
- Screw identification
(via the PPM control system)
- "EASY TEST" test bottle kit
(see page 8)

Hopper

- see page 16

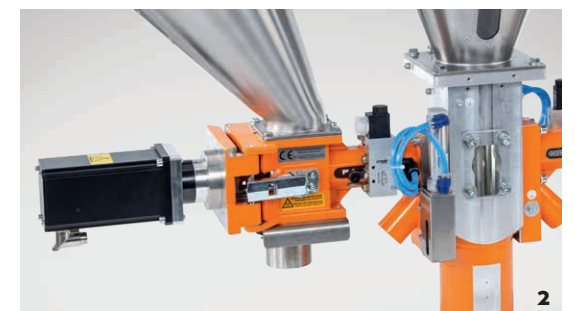


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German Patent Number: DE 10 2008 055 756
European Pat.-Nr. 09778545.5
Countries: AT, BE, CH/LI, DK, ES, FR, GB, IT, NL, PL

1 PC 1500 with manual neckpiece slide

2 PC 1500 with pneumatic neckpiece slide



2

* All figures are only guidelines.
Individual outputs depend on the material and must be checked.

PLASTICOLOR 2500

**Additives for large processing machines,
main materials for small processing machines**

Dosing capacity

- 0.08 – 295 kg/h
(PVC Granules 3.5 mm)*

Standard equipment

- Quick acting latches
- Quick discharge
- Manual neckpiece slide

Accessories, optional

- Pneumatic neckpiece slide
- Pneumatic quick discharge
- Level sensors
- Sensor adapter under hopper
- Manual hopper slide
- High capacity insert in the neckpiece
- Hopper adapter on the neckpiece
- Screw identification
(via the PPM control system)
- "EASY TEST" test bottle kit

Hopper

- see page 16



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"EASY TEST" test bottle kit

With the PLASTICOLOR dosing units of the 1500 and 2500 series, manual neckpiece slides with test outlet are part of the standard equipment. The PLASTICOLOR dosing units of the 3500 series can optionally be equipped with a neckpiece slide including a test outlet.

The round outlets of this neckpiece slide enable the use of the "EASY TEST" test kit. With this accessory, consisting of a connection adapter and collecting container, quantity tests can be carried out quickly and easily. In addition, the test bottles prevent contamination in the vicinity of the production machine during normal operation.



This accessory is increasing the already high user friendliness of the PLASTICOLOR dosing equipment again.



PLASTICOLOR 3500

Main materials for large processing machines

Dosing capacity

- 0.20 – 1100 kg/h
(PVC Granules 3.5 mm)*

Standard equipment

- Quick acting latches
- Quick discharge

Accessories, optional

- manual / pneumatic neckpiece slide
- Pneumatic quick discharge
- Level sensors
- Sensor adapter under hopper
- Manual hopper slide
- High capacity insert in the neckpiece
- Hopper adapter on the neckpiece
- Screw identification (via the PPM control system)
- Housing extension in connection with a longer screw/cylinder combination
- "EASY TEST" test bottle kit (see page 8)

Hopper

- see page 16



1

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2

- 1 PC 3500 with neckpiece slide
2 PC 3500 without neckpiece slide

* All figures are only guidelines.
Individual outputs depend on the material and must be checked.

PLASTICOLOR 5000

Main materials for very large processing machines specially designed for large quantities, regrind, flakes, etc.

Dosing capacity

- 23.5 – 4800 kg/h
(PVC granules 3.5 mm)*

Standard equipment

- Quick acting latches
- Quick discharge

Accessories, optional

- Pneumatic quick discharge
- Level sensors
- Manual hopper slide
- Screw identification (via the PPM control system)

Hopper

- see page 16



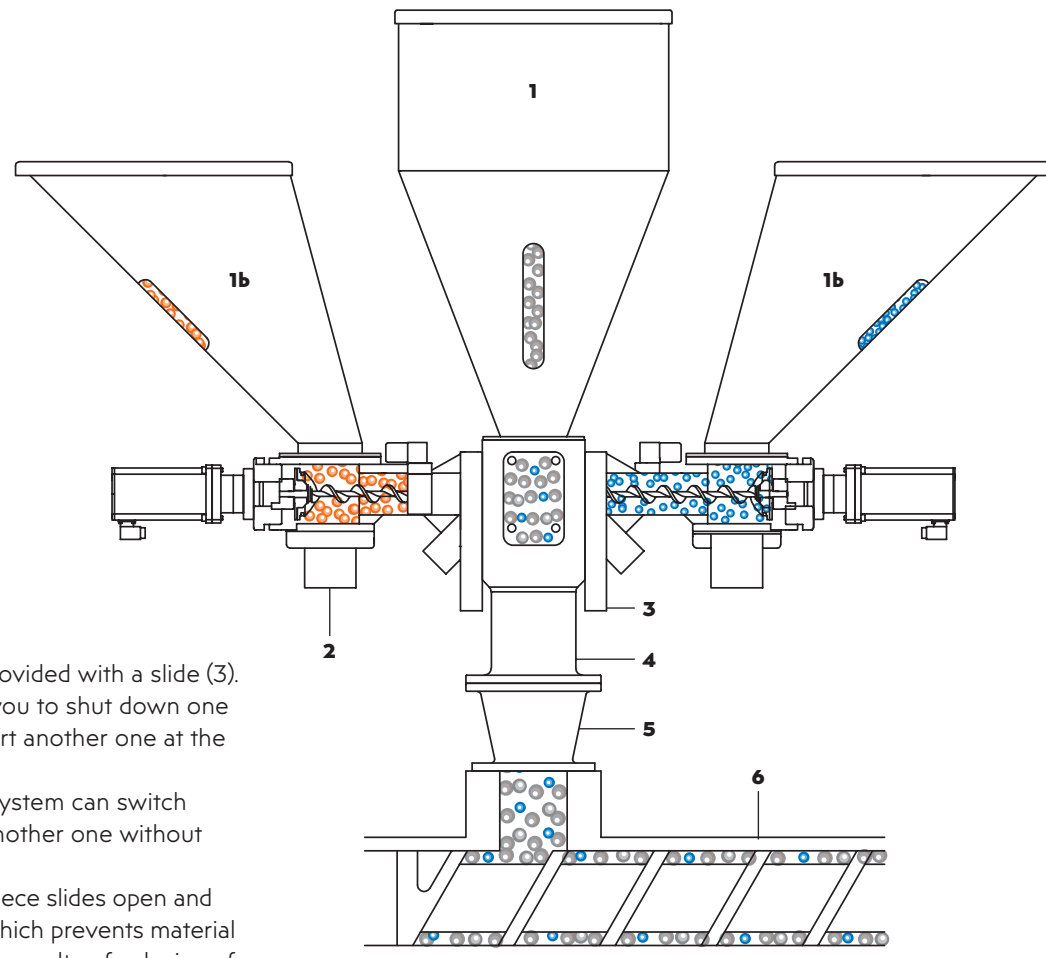
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COLOUR CHANGE SYSTEMS

Changing colours by a flip of the switch: this feature is provided by using two or more PLASTICOLOR units.

Standard colour change systems consist of two to four PLASTICOLOR units, mounted at a common neckpiece. Special colour change systems for more than four components can be designed and supplied.



Every single unit is provided with a slide (3). The control enables you to shut down one dosing unit and to start another one at the same time.

This means that the system can switch from one colour to another one without interruptions.

The pneumatic neckpiece slides open and close automatically, which prevents material from trickling out. As a result, safe closing of the dosing unit that is not involved in the recipe means that it can be prepared for the next production run. This minimises set up costs.

Controls for Colour change systems

- Modular Controls Serie PDC
- PPM-Control-System

- 1 Main hopper
- 1b Storage hopper of dosing unit
- 2 Dosing units
- 3 Neckpiece slide
- 4 Neckpiece
- 5 Adapter
- 6 Production machine

Benefits of colour change systems

- Immediate colour change during production
- Simple handling and operation
- Small amount of pre-mixed material
- Reduction in set up costs
- Avoidance of production waste and rejects



Highest accuracy by precise control

The speed of the dosing screw is synchronised with the processing machine. A membrane keyboard ensures easy operation of the system. The system shows operating status conditions, actual values and alarms on easy-to-read displays. You can optionally install the controls in desktop housings or in 19" racks.



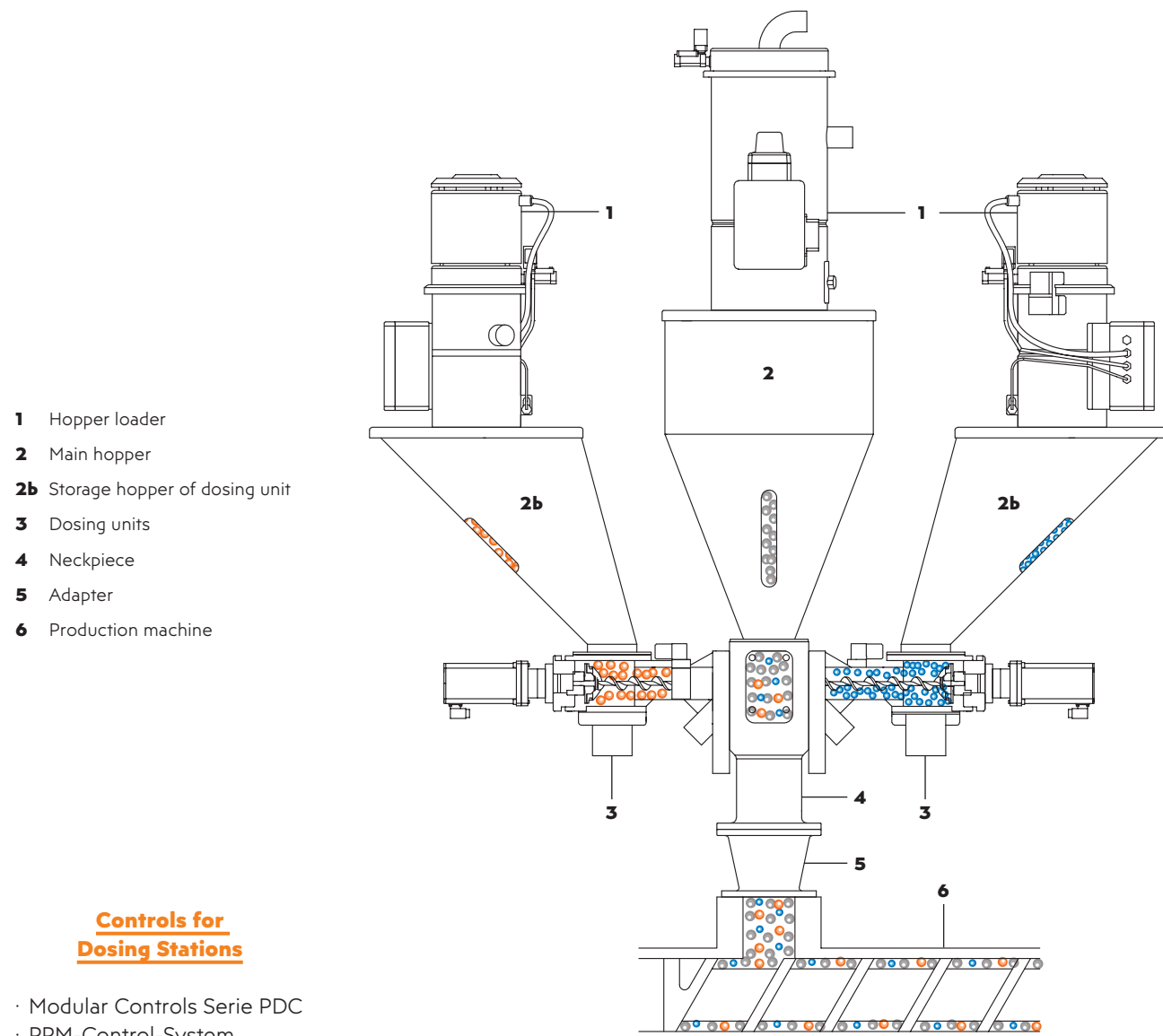
DOSING STATIONS

The scope of supply of PLASTICOLOR dosing stations includes all the components from the material intake of the processing machine onwards.

In the same way as with individual units, the main material flows freely into the extruder's screw. All the additive components are dosed into the main material flow.

The speeds of the dosing screw are synchronised with the speed of the processing machine.

Homogenisation of the materials is carried out in the production machine.



Controls for Dosing Stations

- Modular Controls Serie PDC
- PPM-Control-System

Dosing stations are designed for process machines which have a constant material consumption.



MATERIAL FEED HOPPER

The PLASTICOLOR storage hoppers are specially designed for the dosing devices. Their conical shape not only ensures a particularly appealing design, but also ensures the best possible material flow. The fill level can be easily seen at any time through the sight glass.



The PLASTICOLOR storage hoppers are made entirely of stainless steel. The polished outer surfaces ensure an appealing appearance.

Depending on the application and the available installation space, you

can choose from a large selection of standard hoppers in straight or slope shaped design.

And if our standard hoppers do not fit your application, we would be happy to design and manufacture

according to your individual requirements.

The available options include hinged or swivel lids, cutouts for hopper loaders and various options for pressure equalization.



1



2



3

- 1 Hopper with hinged or swivel lid
- 2 Cutouts for hopper loaders
- 3 Pressure compensation opening for processing granules and powder

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