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**KTG ENGELHARDT**  
WÄGE- UND DOSIERTECHNIK

*Gravimetric dosing technics adapted for your production...*



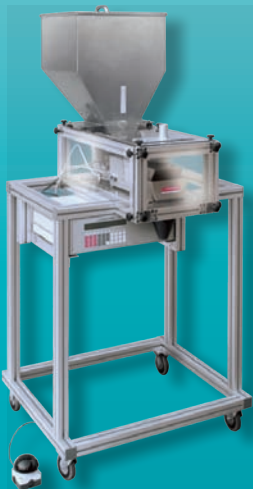
#### Batch weigher with integrated agitator drum

- Weighing range 5g - 5000g<sup>1)</sup>
- Materials: Mixing and friction materials and all kinds of difficult flowing bulk materials



#### Continuous dosing weighers as single or multicomponent systems

- Throughput: 0.05kg/h - 2000kg/h<sup>1)</sup>
- Materials: Granuals, powders, glass fibres and all kinds of bulk materials



#### Weighing and dosing processor

- Compatible with all dosing systems
- Customers specific programming
- Controlling of peripheral devices
- Communication bus to central control units



#### Batch and counting weighers as single or multicomponent systems

- Weighing range 0.01g - 5000g
- Materials: granuals, metalpowder, abrasives, glass fibre and all kinds of difficult flowing bulk materials



*Use our know-how  
for your production!*

<sup>1)</sup> Other throughput and weighing ranges upon request

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## Dosing Weighers of the Series KDW

Gravimetric dosing systems for granuals and free flowing powder

### FUNCTION:

The material will be transported out of the hopper (option with level control) by a linear dosing unit in two phases, rough and fine dosing, into the weighing pan. Then it will be emptied in batches to the conveying channel. The slightest deviation from the set weight will be registered immediately by the dosing processor DPC 3000 and compensated in the same weighing cycle.

The conveying channel equalizes the single discharges and guarantees a homogeneous outlet. As conveying systems belts, vibration channels and vibration belts are at your disposal. Especially for difficult flowing materials we recommend the use of vibration belts.

### CONTROLLER:

Dosing Processor DPC 3000

### MATERIALS:

Granuals, glass fibre, free flowing powders and bulk materials of any kind

### STOCK <sup>1)</sup>:

30 litres or 60 litres rectangular hopper

### CONVEYING SYSTEMS:

Belts, vibration channels and vibration belts

### CAPACITY <sup>1) 2)</sup>:

0.5kg/h up to 2000kg/h

### OPTIONS:

Customers specific adaption



The gravimetric dosing weighers of the series KDW are newly developed continuous dosing systems for granuals, glass fibre and free flowing powder.

The throughput capacities are between 0.5kg/h up to 2000kg/h<sup>1)</sup>, with a convincing accuracy up to 0.05%. This is based on the isolation of the weighing system (the weighing system is detached from the hopper) and the high soluted electronic weighing.

All KDW dosing systems are low-wear and almost maintenance-free. The parts which come into contact with the product are easy to clean. This feature is an advantage if you want to change the product. If requested, all parts in contact with the product will be manufactured from stainless steel.

For a more detailed offer, a sample material, specifications of the desired throughput, as well as the desired accuracy are required. If requested, we would be pleased to prepare a specific material measuring report.

<sup>1)</sup> Larger storage hoppers and throughputs upon request.

<sup>2)</sup> The capacity specifications depend on the material.

The throughput is based on material with a bulk density of 1kg/dm<sup>3</sup>.



## Batch Weigher KDW 0.1

Gravimetric dosing systems for granuals and free flowing powder



### FUNCTION:

The material will be transported out of the hopper (option with level control) by a conveying system in two phases, rough and fine dosing, into the weighing pan. Then it will be emptied in batches to the conveying channel. The slightest deviation from the set weight will be registered immediately by the dosing processor DPC 3000 and compensated in the same weight will be registered immediately by the dosing processor DPC 3000 and compensated in the same weighing cycle. On the output channel the material will be equalized to guarantee a homogeneous outlet.

As conveying systems belts, vibration channels or vibration belts are at your disposal. Especially for difficult flowing materials we recommend the use of vibration belts.

### CONTROLLER:

Dosing Processor DPC 3000

### MATERIALS:

Granuals, free flowing powders and bulk materials

### STOCK:

2.5 litres round-shaped hopper

### CONVEYING SYSTEMS:

Belts, vibration channels and vibration belts

### CAPACITY <sup>1)</sup>:

0.05kg/h up to 10kg/h

### OPTIONS:

Customers specific adaptions

### DIMENSIONS:

660 mm x 270 mm x 590 mm

### WEIGHT:

Approx. 25 kg

The gravimetric dosing weigher for small quantites KDW 0.1 is a continuous dosing system for granuals and free flowing powder.

The KDW 0.1 satisfies high quality requirements. The throughput capacities are between 0.05kg/h up to 10kg/h<sup>1)</sup> with a convincing accuracy up to 0.1%. This is based on the isolation of the weighing system (the weighing system is detached from the hopper) and the high soluted electronic weighing.

The totally enclosed housing is made of an aluminium profile frame with removable macrolon windows. Therefore an easy access for the cleaning and maintenance work is guaranteed. All parts in contact with the product are manufactured from stainless steel. At hopper and the material outlet installations for flange mountings are possible to allow the whole system with high or low pressure.

For a more detailed offer, a sample material, specifications of the desired throughput, as well as the desired accuracy are required. If requested, we would be pleased to prepare a specific material measuring report.

<sup>1)</sup> The capacity specifications depend on the material.

The throughput is based on material with a bulk density of 1kg/dm<sup>3</sup>.



## Batch Weighers of the Series DW

Gravimetric dosing systems for granuals and free flowing powder

### FUNCTION:

The material will be transported out of the hopper (option with level control) by a conveying system into the weighing pan. As conveying systems belts, vibration channels, vibration belts and screw conveyors are at your disposal. Especially for difficult flowing materials we recommend the use of vibration belts or screw conveyors. The material will be transported in two phases, rough and fine dosing. After reaching the given set weight the weigher waits for an external command which allows the discharge (e.g. of a press or a packaging machine). A new weighing cycle follows automatically.

### CONTROLLER:

Dosing Processor DPC 3000

### MATERIALS:

Granuals, glass fibre, free flowing powders and bulk materials of any kind

### STOCK <sup>1)</sup>:

30 litres or 60 litres rectangular hopper

### CONVEYING SYSTEMS:

Belts, vibration channels, vibration belts and screw conveyors

### CAPACITY <sup>1) 2)</sup>:

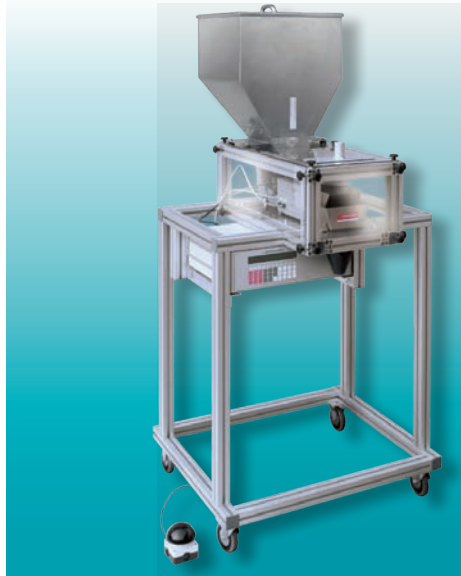
- 5g up to 5000g (depends on the volume of the weighing pan)
- 10 - 15 weighments/min

### ADDITIONAL EQUIPMENT:

Distributing systems, coordination tables, turntables, conveyor belts (upon request)

### OPTIONS:

Customers specific adaption



The gravimetric batch weighers of the series DW are newly developed discontinuous dosing systems for all kinds of bulk materials with batch weights between 5g up to 5000g <sup>1)</sup>.

The advantage of the high soluted electronic weighing is the weighing accuracy up to 0.05%.

All DW dosing systems are low-wear and almost maintenance-free. The parts which come into contact with the product are easy to clean. This feature is an advantage if you want to change the product. If requested, all parts into contact with the product will be manufactured from stainless steel.

For a more detailed offer, a sample material, specifications of the weighing capacity, charge weight, as well as the desired accuracy are required. If requested, we would be pleased to prepare a specific material measuring report.

<sup>1)</sup> Larger storage hoppers and weighing ranges upon request.

<sup>2)</sup> The capacity specifications depend on the material.

The weighing quantity is based on material with a bulk density of 1 kg/dm<sup>3</sup>.



## Batch Weigher DW - T

Gravimetric dosing system for fibrous friction and mixing materials

### FUNCTION:

The weighing material will be transported out of the agitator drum (option with level control) by a conveying system in to the weighing pan. For the use of belts or vibration channels we recommend a screw conveyor and a swirl. The screw conveyor is mounted on the drum outlet and transports the material to the dosing channel. Afterwards the twirling stick equalizes it homogeneously on the dosing channel. The reached constant flow of material on the dosing unit is the basis for exact weighings. The material will be transported in two phases, rough and fine dosing. After reaching the given set weight, the weigher waits for an external command (e.g. of a press or a packaging machine) which allows the discharge. A new weighing cycle follows automatically.

### CONTROLLER:

Dosing Processor DPC 3000

### MATERIALS:

Tea or dried herbs, friction materials (brake linings and clutch facings), mixing materials of any kind as well as difficult flowing bulk materials

### STOCK <sup>1)</sup>:

24 litres or 100 litres agitator drum

### CONVEYING SYSTEMS:

Belts, vibration channels, vibration belts and screw conveyors

### CAPACITY <sup>1) 2)</sup>:

- 5g up to 5000g (depends on the volume of the weighing pan)
- 12 weighments/min

### ADDITIONAL EQUIPMENT:

Distributing systems, coordination tables, turntables, conveyor belts (upon request)

### OPTIONS:

Customers specific adaptations

For a more detailed offer, a sample material, specifications of the weighing capacity, the charge weight, as well as the desired accuracy are required. If requested, we would be pleased to prepare a specific material measuring report.



The gravimetric batch weighers of the series DW - T are dosing systems especially developed for mixing and difficult materials. Depending on the weigher type, the capacities are between 5g up to 5000g <sup>1)</sup> with 12 weighments/min and an accuracy up to 0.05%. As conveying systems belts, vibration channels, vibration belts or screw conveyors are at your disposal.

All DW - T dosing systems are low-wear and almost maintenance-free. The parts which come into contact with the product are easy to clean. The weighers are additionally provided with a dust protection.

All dosing systems of the series DW -T are also available with double weighing units DDW - T, i.e. one agitator drum charges two weighers.

<sup>1)</sup> Larger agitator drums and weighing ranges upon request.

<sup>2)</sup> The capacity specifications depend on the material.

The weighing quantity is based on material with a bulk density of 1kg/dm<sup>3</sup>.



## Batch Weigher for small Weights DW 0.1

Gravimetric dosing system for granuals and free flowing powders

### FUNCTION:

The material will be transported out of the hopper (option with level control) by a conveying system into the weighing pan. Then the material will be transported in two phases, rough and fine dosing. After reaching the given set weight the weigher waits for an external command which allows the discharge (e.g. of a press or a packaging machine). A new weighing cycle follows automatically.

### CONTROLLER:

Dosing Processor DPC 3000

### MATERIALS:

Powder ground material, granuals and free flowing bulk materials of any kind

### STOCK:

3 litres rectangular hopper

### CONVEYING SYSTEMS:

Belts, vibration channels, vibration belts and screw conveyors

### CAPACITY:

- 0.5g up to 50g
- 12 weighments/min

### ADDITIONAL EQUIPMENT:

Distributing systems, coordination tables, turntables, conveyor belts (upon request)

### OPTIONS:

Customers specific adaption

### DIMENSIONS:

500mm x 180mm x 450mm

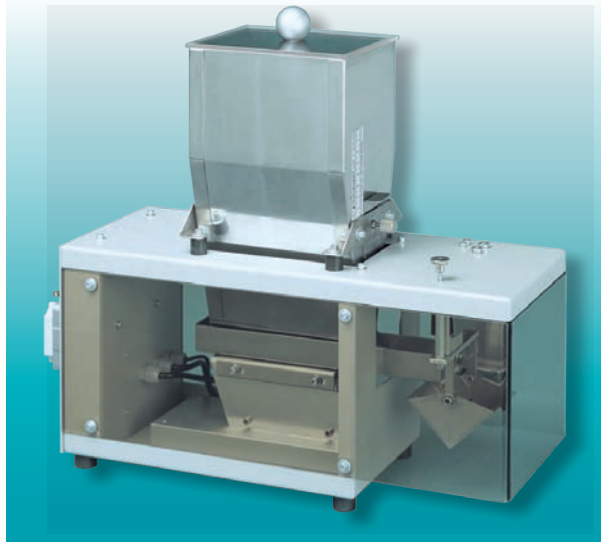
### WEIGHT:

Approx. 12 kg

For a more detailed offer, a sample material, specifications of the weighing capacity, the charge weight, as well as the desired accuracy are required.

If requested, we would be pleased to prepare a specific material measuring report.

Technical alterations are reserved.



The gravimetric batch weigher for small quantities DW 0.1 is a discontinuous dosing system for granuals, ground materials and free flowing powder of any kind.

The requirements of accuracy concerning dosing weighers are more and more important. The DW 0.1 satisfies these high quality requirements. The high soluted electronic weighing obtains an accuracy up to 0.1% for weighing quantities between 0.5g up to 50g<sup>1) 2)</sup>.

The compact batch weigher is assembled in an enclosed solid housing with a removable macrolon casing, to ensure an easy access for the cleaning and maintenance. This feature is advantageous, if you want to change the product frequently.

The conveying systems belts, vibration channels, vibration belts or screw conveyors are all easily accessible. All parts in contact with the product will be manufactured from stainless steel.

1) Smaller weighing ranges upon request.

2) The capacity specifications depend on the material.

The weighing quantity is based on material with a bulk density of 1 kg/dm<sup>3</sup>.



## Dosing Processor DPC 3000

Weighing and dosing processor for gravimetric weighers

### INPUTS / OUTPUTS :

- 12 inputs (24V +/- 30%) isolated
- 6 outputs (48V/1A/15VA) isolated contacts

### OPERATING ELEMENT:

Membrane keyboard,  
alphanumeric LCDdisplay  
and indicator lights

### INTERFACE:

RS 232 simplex  
1200 BAUD, 7 bitASCII, even,  
1 start bit, 1 stop bit

### VOLTAGE:

230V, 50CPS/max3A

### OPTIONS:

- External operator panel
- Control boxIP55
- Interfaces RS 232 (duplex), RS422, RS485,TTY20
- Voltage 110V/ 60CPS
- Overweight alarm
- Instruction of weight tolerances
- Other weighing units than gram
- Master-slave control
- Accumulation circuit, i.e. the total weight will be divided in batches
- Customers specific programming

### DESIGNS:

19"table control device 84TE:

- 450mm x 140mm x 440mm

- Weight: approx. 10kg

19" plug-in control device 84TE:

- 450mm x 140mm x 440mm

- Weight: approx. 9kg

Table control device 63TE:

- 340mm x 140mm x 440mm

- Weight: approx. 8kg

In accordance with the conventional standards for industrial products the controller implements the valid VDE and CE directives. The kind of protection corresponds with IP20according to DIN 40050.

Technical alterations are reserved.



The DPC3000 is a multifunction dosing processor for all Engelhardt dosing systems. It is fitted with a bus system which places emphasis on its modular construction. Modules for the control of several vibrators, vibration belts and screw motors are at your disposal as well as programmable inputs and outputs for peripheral devices such as collecting or conveying systems and nesting units (coordination tables, turntables).

The parameters will be put in comfortably by a membrane keyboard-protected against power breakdown-and can be read or written by external computers. It is possible to connect several controllers e.g. to set up a master-slave guidance. The DPC3000 is capable of solving each dosing problem whereby customers specific solutions will be developed by our software specialists.

Different housing designs are at your disposal as well as an external operator panel. It is also possible to integrate this panel into a central control field.



# KTG ENGELHARDT

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