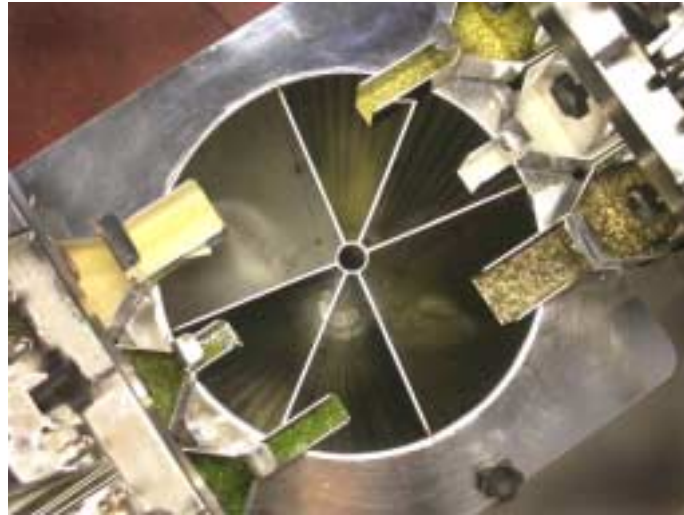


# solids *Fine dosing*

## The fine art of fine dosing



### Filling machines Fine dosing Fill-matic



**Fine dosing Fill-matic** series can fulfill a variety of unique applications when extreme accuracy and flexibility are requested.

Without any modification, each model can dispense ingredients ranging from powders to granules.

By listening to our customers and understanding their needs we can skillfully design and assemble the state-of-art custom machinery required.

The feeders are available either in volumetric or gravimetric versions.

The very small overshoot value, associated with a sharp control of extractor movement, are the key points to reach the high level of performances in terms of dosing time and accuracy.

Volumetric feeders: Controlled with motor rpm and outlet section of extractor.

For batch process MCPI offers unique control system call "Short-cut system". It consists of a mechatronic solution which ensures a perfect control of the extractor movement with repeatability below 3/100 sec, to ensure quick and accurate feeding. With short-cut system it is possible to reach very short dosing time (from 0.2 sec) and feeding quantities from 0.1 gram to kilo grams.

Gravimetric feeders: For a perfect control of production parameters with weighing system.

Design of these feeders is made in agreement with drug and food industries requests for cleaning.

**S.S.T.-Schüttguttechnik Maschinenbau GmbH**

Lechwiesenstr. 21, 86899 Landsberg / Lech

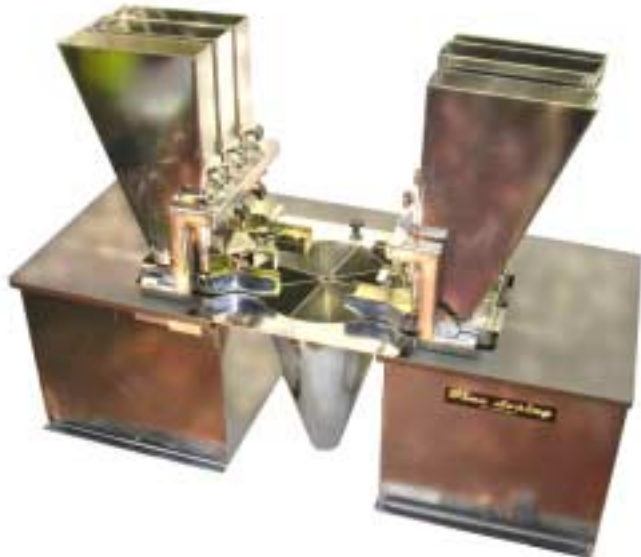
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solids *Fine dosing*  
The fine art of fine dosing



**Multi components dosing station:**

6 different ingredients are dosed simultaneously.

Dosing time: ~3 - 5 seconds.

Repeatability: Standard deviation below 5%.



**Gravimetric bag filling machine,** loading of the filler's hopper vacuum based feeder.

Accuracy <  $\pm 0, 5\%$

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1



2

**Feeder 1** : Gravimetric feeder with 1 or 2 ingredients, accuracy  $\pm 0.5$  g. **Feeder 2** : Pharmaceutical feeder, accuracy  $\pm 0.2$  g.

### Technical data :

#### Volumetric feeders

<b>Minimum lot size</b>	From <b>0.1 g</b>
<b>Accuracy (batch)</b>	Standard deviation from <b>2%</b>
<b>Min dosing time (batch)</b>	From <b>0.2 "</b>
<b>Extraction capacity</b>	Suitable products with poor flow properties Respect of sensible ingredients. Respect of particle size
<b>Cleaning</b>	Complete discharge of the feeder Dismantling for cleaning in few seconds. Safe system for operators

#### Gravimetric feeder

<b>Accuracy</b>	Standard deviation from <b>0.5 %</b>
<b>Load cell resolution</b>	Analogical load cell: resolution <b>0.03g to 5g</b> . Load cell protected in a casing
<b>Dynamic</b>	Dosing time from: <b>3"</b> .
<b>Recipes</b>	Batching control with memory storage for production run with several different products and optional weigh measures feedback.
<b>Control parameters</b>	Coarse and fine dosing controlled by scale
<b>Cleaning</b>	Complete discharge of the feeder Dismantling for cleaning in few seconds. Safe system for operators

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