

# solids *Fine dosing*

## Die feine Art der Schüttgut-Dosierung



**High accuracy micro feeders**  
**Fine dosing Opti-feeder FD- SPA**  
( A Class: resolution: 0.01 g, 3A Class: resolution: 1 mg,  
4A Class: resolution: 0.1 mg)



**Micro feeders Fine dosing SPA** are probably the first on the market to reach such levels of excellence in term of accuracy, short dosing time and flexibility.

The ingredient is dosed in a small swiveling bowl fitted on an accurate load cell. Sensitive parts as motor reducer and scale are protected with a stainless steel housing.

The integrated batch controller optimizes coarse and fine feeding with automatic tolerance control.

Fine dosing concept allows a ratio between coarse/ fine feeding flow over 30. This figure is a key point to reach fast and accurate dosing process.

In automatic version, at the end of dosing stage the bowl rotates 360°. The ingredient is then emptied to the application point.

The ingredient can be, as well, feed directly in the final container or box, positioned (manually or automatically) on the scale.

The design is made in agreement with drug and food industry requests for cleaning.



Fine dosing-SPA - AAA

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

Lechwiesenstr. 21, 86899 Landsberg / Lech  
Tel. 0049 (0)8191-3359-50 Fax 0049 (0)8191-3359-55  
e-mail: [sst@solids-service.de](mailto:sst@solids-service.de)  
[www.solids.de](http://www.solids.de)



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## Fine dosing SPA-A (process)

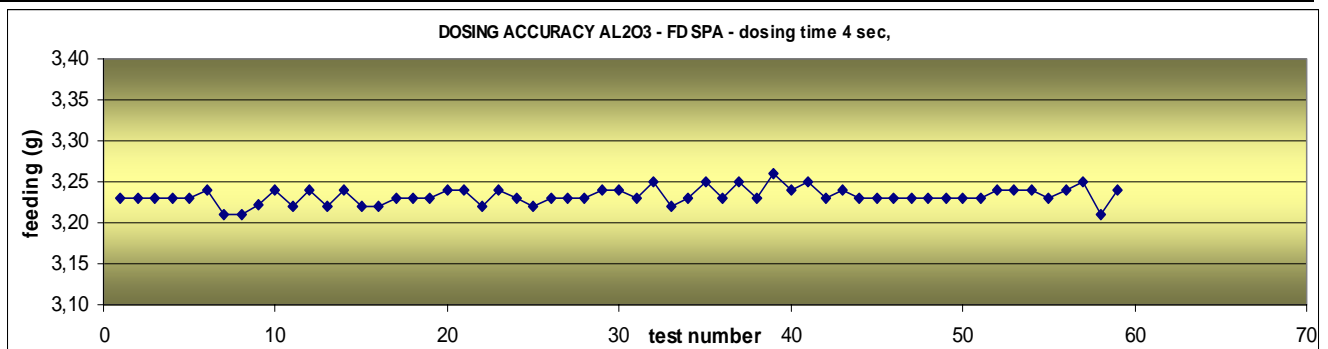
### Technical data :

<b>Dosing accuracy</b>	Standard deviation A class : 0.03 g 3A class : 0.01 g 4A class : 1 mg
<b>Load cell</b>	A class : Analogical load cell, min interval 0.01 g 3A class : Numerical load cell, min interval 1 mg 4A class : Numerical load cell, min interval 0.1 mg
<b>Min dosing time</b>	From 4".
<b>Min set point</b>	from : 10 mg

### Some results (pilot trials):

#### FD-SPA-A

Type of ingredient	Dosing set point	Dosing time	Standard deviation
Tomato seeds	0.09 g	5.5 sec	0.02 g
Tomato seeds	1 g	6.2 sec	0.03 g
Ceramic Powder	3.2 g	5.5 sec	0.03 g
Ceramic Powder	9 g	10 sec	0.03 g
Mineral pigment	500 g	21 sec	0.3 g



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### FD-SPA-3A class

Type of ingredient	Dosing set point	Dosing time	Standard deviation
Carbon	6 g	9.0 sec	0.02 g
Pyrite	5 g	7.0 sec	0.007 g
Semolina	0.15 g	4 sec	0.008 g
Semolina	0.45 g	4 sec	0.008 g
Semolina	2.5 g	4 sec	0.008 g
Ceramic Powder	3.2 g	5.5 sec	0.01 g
Ceramic Powder	9 g	10 sec	0.02 g
Aluminum powder	12 g	8 sec	0.01 g

### SPA-4A class

Type of ingredient	Dosing set point	Dosing time	Standard deviation
Lactose	10 mg	5 sec	0.8 mg
Lactose	25 mg	7 sec	0.8 mg
Lactose	50 mg	9 sec	1 mg
Talcum	25 mg	9 sec	1.6 mg
Mg Stearat	25 mg	10 sec	1.2 mg
Semolina	75 mg	10 sec	0.8 mg



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