

solids *Fine dosing*

The fine art of fine dosing



Filling of test tubes with high accuracy

Objectives of the project:

For the fabrication of water test kits, this major company was looking for an accurate and stable solution to fill test tubes with a powder chemical reagent. Despite rough particle size ($\sim 400 \mu\text{m}$) of the powder, a very high filling precision was requested.



Main targets:

- **Accuracy requested: +/- 5 mg**
- **Short dosing time < 10 sec (for 330 mg)**
- With possibility to dose up to 1000 mg with same precision
- Reliable system
- Short cleaning time
- Hygienic system, GMP conform
- Low maintenance needs



Solution:

- The new Micro feeder **Fine dosing SPAc** was selected for accuracy and flexibility.
- Balance: electrodynamic forces compensation
- Readability: 0.1 mg.
- The load cell and the generator are integrated in separated stainless steel housings. The feeder is mounted in a hood with 2 doors.
- The batch controller, integrated in the control cabinet, optimizes coarse and fine feeding with automatic tolerance control.
- The ratio between coarse/ fine feeding is over 100 (adjustable).
- The system is designed according GMP rules for fast cleaning and maintenance operations. The part in contact with powder (storage) can be dismantled within few seconds.

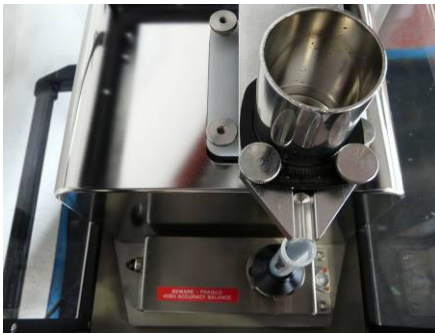
S.S.T.-Schüttguttechnik Maschinenbau GmbH

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

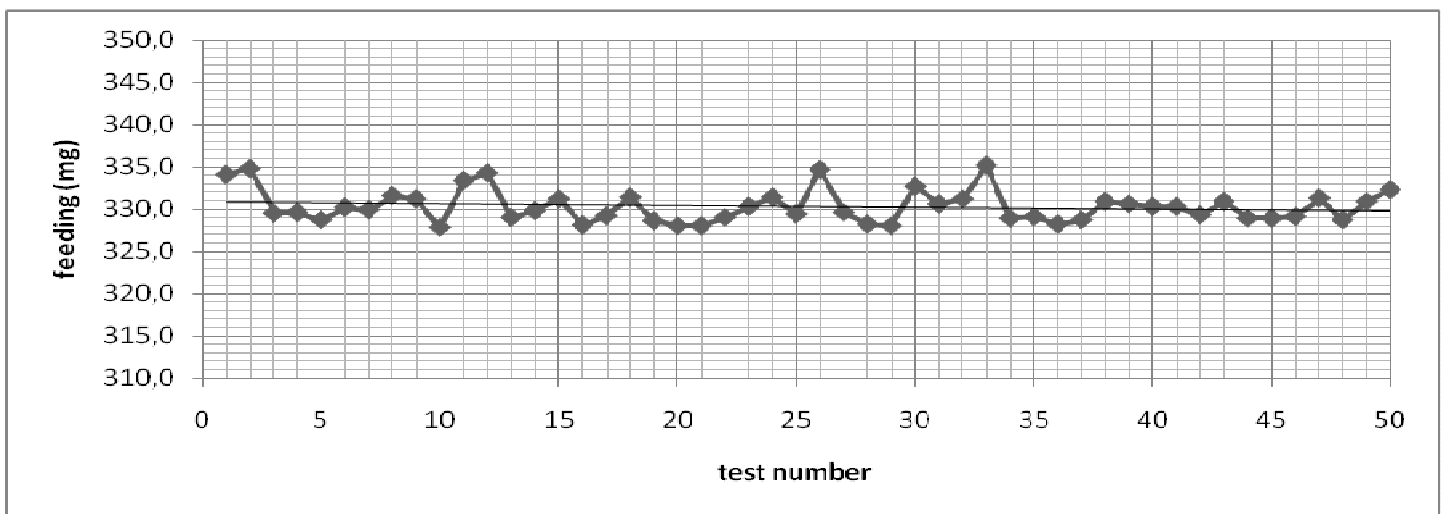


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Feeding accuracy and stability: Set point: **330 mg**, standard deviation: **1.9 mg**, dosing time : **9.0 sec**



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 e-mail: sst@solids-service.de
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