

solids *Fine dosing*
The fine art of fine dosing



Multi-Heads feeders
Fine dosing Opti-dose FD- MVH-P



Technical description:

The unique MCPI's Multi-head Feeder, is probably the best solution on the market, to give a simultaneous, quick and accurate dispensing of ingredient on multiple application points, with sprinkling effect.

These feeders are controlled with motor speed and outlet section of extractor. **MCPI's "Short-cut system"** is a mechatronics solution, which allow a perfect control of the extractor movement with repeatability below 3/100 sec, to ensure a quick and accurate feeding.

This range of machines is an efficient cost effective solution for high cadencies productions (dosing time from 0.2 sec, up to 60 dosing cycles / min). The feeders can be fit on a "C" shape mobile truck, to facilitate cleaning operations.

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

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Technical data :

Dosing repeatability	< 5%
Dosing time	From 0.2".
Number of dosing points	The width of each output is adjustable (1 setting for all outputs) Number of dosing point : adjustable
Cadency	Up to 60 cycles / min.

Applications :

Addition of ingredients for food industry
Conditioning with high cadence

Some results

Feeding of semolina, total width of the feeder 700 mm, 5 heads

Head 1	Head 2	Head 3	Head 4	Head 5	Average	Standard deviation	Standard deviation %
Semolina: set point 9g (results based on 50 measures), dosing time 0.58 sec.							
9.03	9.09	9.08	8.9	9.0	9.02	0.09	1.5 %
Semolina: set point 11.5 g (results based on 50 measures), dosing time 0.73 sec.							
11.42	11.58	11.45	11.34	11.49	11.47	0.10	1.0 %
Semolina: set point 13.5g (results based on 50 measures), dosing time 0.87 sec.							
13.6	13.79	13.72	13.63	13.77	13.73	0.07	1.0 %

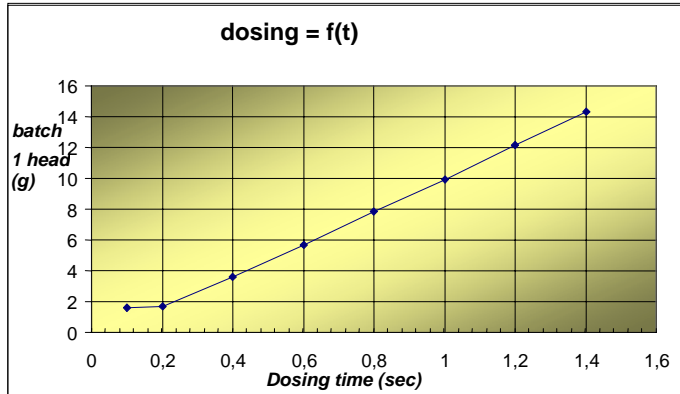
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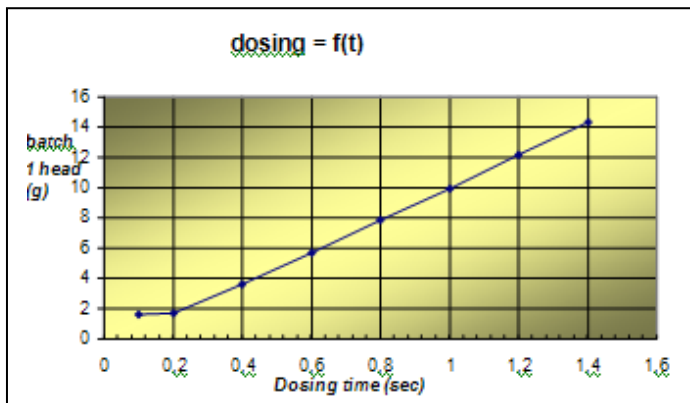


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Results versus dosing time



Relationship between dosing time and the quantity dosed

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