

Rotary Fluid-Bed Drying Systems

Over the last years Hoopman Equipment & Engineering B.V. has developed some revolutionary new drying systems*.

Revolutionary not only because it is a completely new concept but also because it is combining two key drying technologies:

- ☐ fluidized bed technology, the preferred drying principle in sensitive, high value pharmacy products
- ☐ rotating drum technology that enables a simple continuous flow system.

Key features of the system are:

- ☐ **Can be installed in every existing coating line.**
- ☐ Very gentle handling of the seed and **absolutely self cleaning** drying drum so no down time between orders.
- ☐ **Labour saving;** no more transport between coater/dryer/de-duster and easy to automate.
- ☐ Sticky/tangled **seed will immediately start to 'free flow'** because of the combined fluidized bed and tumbling action to the rotary drum; no double seeds or clumps, even when applying high liquid rates in the rotary coater
- ☐ ☐ Running the rotary coating too dry can cause serious 'rub-off' during the last few seconds in the rotary coater; so also if drying is not the key target, it will **'condition' your seed** before going into intermediate hoppers, silos, transport systems to your packing line and helps to avoid bridging, tacking and support free flow down Stream
- ☐ **Will separate all dust/small particles from the seed.** Rotary coating has an inevitable rubbing/de-bearding effect on seeds such as carrot and beet and this debris is automatically separated from the coated seed
- ☐ Available in **different standard sizes and modular extendable** with air drying and recirculation systems
- ☐ **Energy efficient, extremely quiet and operator friendly**

Practically proven system.

This system has already proven itself in a commercial integrated coating/drying system that has been **running troublefree for more than four years** with one of the leading seed companies in Holland. Many different seed lots are being processed every day to cater JIT order processing.



RFBD connected to Rotary Coater

Demonstration and Testing Lab.

In our demo/lab facilities in Aalten (NL) we can do test runs with your product to dimension exactly the required capacity needs of the dryer as well as that of the air treatment/filtering units. We can deliver turnkey but also only the dryer. We can assist you to source local supply of the air treatment components. We can also train your staff to supervise highly automated coating/drying systems.

*patents granted and patents applied for

* Pictures used in this leaflet could be different from the machinery

Hoopman Equipment & Engineering b.v. now offers a complete line of Rotary Fluid-Bed Drying systems to cater both large existing/new rotary coating system**.



RFBD 600-12 connected to customer already in use coating system

RFBD 600-12 has a capacity of about 250 – 750 kg coated/encrusted seed per hour depending on moisture applied and capacity of the optional dehumidification/recirculation system.



RFBD 600-19 Grass dryer connected to customer already in place coating system

The RFBD 600-19 has a capacity of about 500 – 1250 kg coated/encrusted seed per hour depending on moisture applied and capacity of an optional dehumidification/recirculation system.

All systems can also be used 'in tandem' (as RFBD 600 above); this way we can allways configure a requested capacity

** There are several standard sizes available. Your seed coating process will most likely need a customized configuration of size of seed dryer and additional air drying equipment. See also comment regarding demo/test lab Aalten above.

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