



Rotary Coating Equipment

“From manual coating/pelleting to full automatic coating/pelleting!”

Rotary coating equipment has been developed during the last 2 decades and has become the standard for efficient and accurate coating needs in the seed trade.

The principle is based on a mixer, not using any paddles, augers or any other moving part that may have a mechanical impact on the seed.

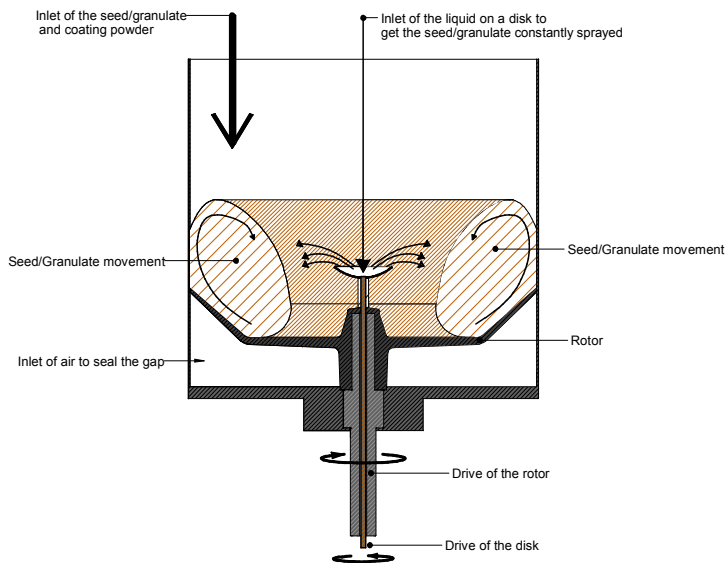


Figure 1 Rotary Coating Principle

Mode of operation:

1. Seed is being metered into the coater by a pre set batch/weight.
2. The rotating bottom-disc (rotor) of the coating machine is moving the seed to the vertical wall (stator). The seed moves up the wall and drops down again and this movement repeats itself and assures the seed is being blended actively without high mechanical impact to the seed.
3. A liquid (blend of pesticide colors and adhesives) is dosed on a rapid spinning inner disc and is being dispersed on the mixing seed.
4. Powder (for building-up or drying-off) can also be installed.
5. At the end of the process a door in the wall will be opened and the coated seed will be forced out of the coating chamber by the same centrifugal force that initiated the intensive mixing of the seed.

Why rotary coating equipment from Hoopman equipment & engineering:

Hoopman equipment & engineering b.v. has over 35 years experience of **manufacturing and using** seed processing equipment. Therefore all details are based on hands-on day to day experience and practice of seed coating.



Basic design features of Rotary Coating equipment.

- Modular configuration (from 'manual only' to fully automated 'plug & play' version).
- Various standard configurations available (see next pages);
M = manual seed feed
AS= gravimetric/automatic seed feed
FC = Film coating configuration
P = Pelleting configuration
- D = Drying connection preparations
- 100 % top access (direct bottom drive rotor- and spinning disc.).
- Connection for dust extraction with airflow control valve (to set the appropriate airflow)
- 'Off-center' liquid supply.
- Exit door opens in rotary direction (faster and cleaner emptying of machine).
- Powder feeders of different sizes available, separate from coater and in-line' configuration, The 'in-line' powder feed system assures perfect dust free powder application. Powder supply systems vary considerably depending on use and plant design. Prices available on request.
- High quality sparkle-grey powder coated.
- Hoopman engineering & equipment recommends stand alone peristaltic pumps.
- CE-European Industry standard.

Rotary equipment available in sizes

- HR350 average batch size 3,500 kg
- HR600 average batch size 15,000 kg
- HR750 average batch size 35,000 kg
- HR1250** average batch size 150,000 kg

** Only available on special request

Typical average capacity indications

Type	Bowl diameter	Average l seed per batch	" per batch	Capacity in ltr./hr
HR350AS	350 mm	4	45	320
HR600AS	600 mm	20	45	1600
HR750AS	750 mm	30	45	2400
HR1250AS **	1250 mm	100	45	8000

Typical minimal capacity indications

Type	Bowl diameter	Minimal l seed per batch	" per batch	Capacity in ltr./hr
HR350AS	350 mm	0.25	45	N.R.
HR600AS	600 mm	2.5	45	N.R.
HR750AS	750 mm	5	45	N.R.
HR1250AS **	1250 mm	25	45	N.R.

Typical maximum capacity indications

Type	Bowl diameter	Maximum l seed per batch	" per batch	Capacity in ltr/hr
HR350AS	350 mm	5	45	400
HR600AS	600 mm	20	45	1600
HR750AS	750 mm	60	45	4800
HR1250AS**	1250 mm	200	45	16000

Capacities can vary significantly depending on specie, volume/weight ratio of specie and application. (the above mentioned specifications are based rape seed with a batch time of 45 seconds, and a polymer/pesticide mix application of 35g/kg)