

# Smart Liquid Supply System



*“Easy, simple and quick change between different coating mixtures, that is the simplicity of our Smart Liquid Supply System”*

With the “Smart Liquid Supply System” you can accurately dose individual components together to your coating process. This means that no premixing is required. Each component will be simultaneously dosed into the special static mixer and measured by a weigh-out system.

Each container has its own small dosing/mixing device (mixing to prevent liquids from settling inside this container). Each ‘storage container’(IBC etc.) needs to have a mixer as well. We can include 30L plastic containers for (pre-) storage of the components (see left of IBC’s on picture below). Each component will be dosed into mentioned intermediate 3L or 1L dosing/mixing container by gravity. A pneumatic valve automatically opens when re-filling is required.



(Displayed version is 1x Basic unit + 2x IBC extension and 1x extra dosing system for water)

All functions of this liquid mixer can be easily controlled combined with a Hoopman HRXXX system. We can also supply the system as an “Stand Alone” version to use with already in use systems. Each individual component can then be set in the specific coating recipe. The machine will take care of the dosing in production.

13/08/2014 Recipes ? 11:24:41

Production Process Manual Logout Recipe Alarm Previous Screen

Select Screen

Recipe: < 0 > RECEIPT 1 Copy Recipe Paste Recipe

Standard Settings:

Amount seed (WB1): 3.00 kg

Speed main disk (RT1): 50 %

Coat Step: < 1 >

	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10
time:	10	5	0	0	0	0	0	0	0	0
Speed main disk:	80	75	0	0	0	0	0	0	0	0
Liquid 1:	15	0	0	0	0	0	0	0	0	0
Liquid 2:	0	0	0	0	0	0	0	0	0	0
Liquid 3:	15	0	0	0	0	0	0	0	0	0
Liquid 4:	15	0	0	0	0	0	0	0	0	0

## Smart Liquid Supply System

### Connect, Pull-Up, Recipe and Coat!

- No pre-mixing
- No rest-slurries
- No exposure to actives

#### Standard features “Basic” Unit :

- Powder coated mild-steel frame
- Stainless steel drip collectors
- Load cells with 1gr, +-3gr accuracy for 3L dosing containers, and 0.1gr, +-0.3gr accuracy for 1L dosing containers
- PID controlled dosing, no “difficult” calibration required
- Control box with:
  - Remote IO unit
  - 4x connection for dosing unit
  - 4x connection for mixing device for IBC or smaller container
  - Ethernet connection for control by HRXXX systems from Hoopman
- Basic unit for IBC contains:
  - 1x Dosing unit 3L / +-3gr accuracy
  - 1x Liquid Pump
- Basic unit for 2x 30L contains:
  - 2x Dosing unit 1L / 0.3gr accuracy
  - 2x Liquid pump
- Water flushing line for easy cleaning
- Static mixer (to be placed near to the coater)

#### Options:

- “Stand Alone” HMI / PLC upgrade
- Extra IBC / Container locations
- Extra dosing containers with pumps
- IBC's / IBC mixing devices

#### Technical Specifications:

- LxWxH : 3800x1300x800 (Displayed version, 1x Basic unit, 2x IBC extension)
- Gross Weight: : 250kg
- Power : 3x400Vac / 16A / 50Hz  
: Standard delivered with round 5P EU 32A connector