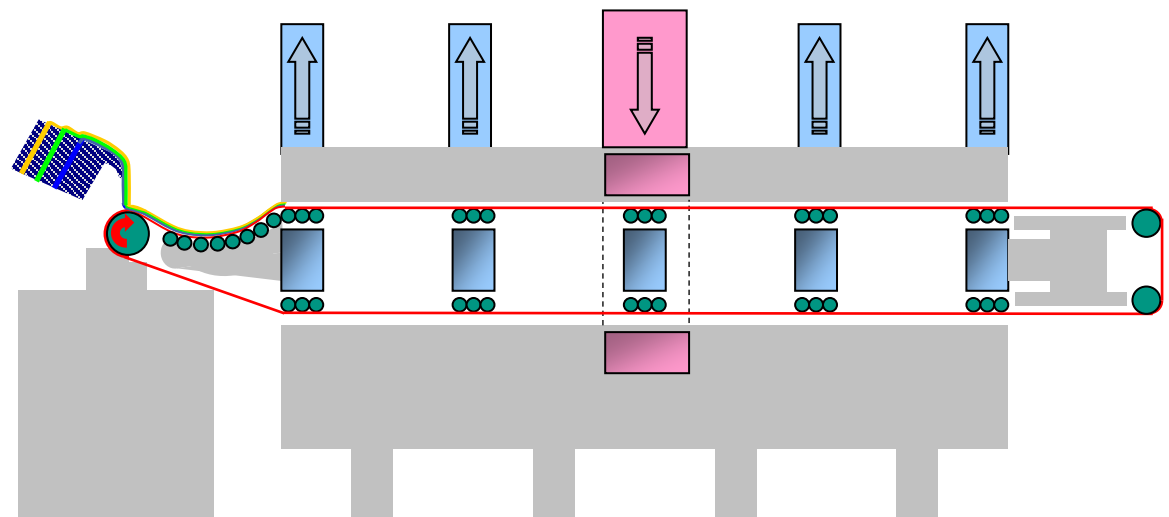
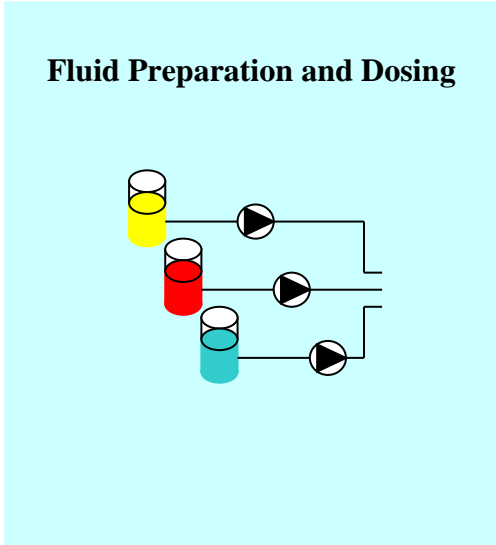


# DEXMA: Digital exploring machine

(R2R and Loop pilot line for Inkjet and premetered coating)



# Technical Specification DEXMA (Digital Exploring Machine)

---

## Wet end preparation

Different stainless steel vessels and stirrers up to 60 L are available. Access to bigger vessels and high shear mixing systems (on place) can be arranged.

## Holding vessel and dosing lines

Coating configuration

- Heated Coating/Storage Vessels, up to 60 l
- On-line cartridge filters
- Static On-line Mixers
- On-line injection possible
- Online US-degassing possible
- Work Temperature : 20 to 60°C
- Flexible configuration
- Pulse free membrane or/and gear pumps

## Base

- Material Flexible webs as Paper, RC Paper, Films (PVC, Polyester, PE, ...)
- Thickness Typically 30 to 800µm
- Width max 200 – 300 mm
- Length: 9.5 m for coating in closed loop.
- R2R: Core of 180 mm inner diameter

## Pre-treatment

- Pre-treatment currently not installed, set-ups on demand possible
- Dust removal yes
- Static discharge brush on backside

## Deposition methods

- Technology Multilayer Curtain and slide bead cascade coating (multiple coating heads); Slot Die (8 and 12 O-Clock Position); Short curtain; Inkjet Multi head
- Layers number max max 6 / pass for curtain
- deposition width Curtain/slide bead: 250mm, Slot die: 150 mm; Inkjet: as needed (different set-up can be built on demand)
- Work temperature 20 to 60°C
- Coating speed 10 to 500m/min

## Drying

- Setting zone 1
- Type Air impingement dryer, touch free coated face transport
- Zones 1, in closed loop: unlimited length simulations possible due to sequential dryer control; in R2R: 2m active
- Work temperature up 60°C, controlled per zone
- Humidity Conditioned and controlled humidity per zone

## Output

Samples: about 5-8 m coated web length for closed loop