

## AKURA M APPLICATORS

### Low add-on, uniform coatings with guaranteed streak-free finish

Valco Melton's Akura M Coating Applicators Series have been specifically designed to perform at the lowest grammages while maintaining a streak-free finish. Coating width, coat weight and adhesive patterns can be easily configured, minimizing set-up and changeover times.

### Get these immediate benefits

- **Achieve even cross-web adhesive distribution.** A stream gear pump independently meters each module for immediate hydraulic response, which guarantees a completely uniform coating while reducing waste during machine ramp-up.
- **Reduce set up times.** By featuring gear pumps every 25-50 mm, Akura M Applicators guarantee an homogeneous adhesive distribution in the full coating width without the need for individual module adjustments.
- **Minimize adhesive degradation.** All Akura Series Applicators feature one pressure relief valve per module, which allows you to select each module into recirculating mode to minimize adhesive degradation.
- **Constant pressure.** An integrated pressure transducer feeds the applicator with a constant pressure control loop.
- **Control adhesive viscosity.** Optional features include an in-line viscosity control to keep constant viscosity through a temperature control closed loop.



When not activated, modules are switched into 'recirculating mode' by a pressure relief valve

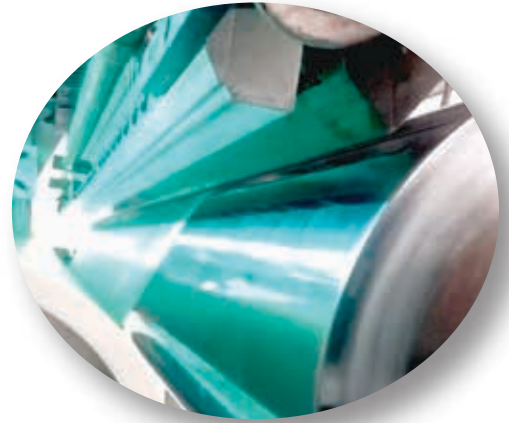


### Nozzle Options

Akura applicators allow for simple changes from one nozzle type to another. Options available include *rotating bar* (1), *continuous* (2), and *curtain coat* (3).

## 6 Reasons for switching to curtain coating

Valco Melton's Akura M Coating Applicators may feature curtain coating nozzles to apply a thin coat of hot melt adhesive without direct contact between the substrate and the coating die.



- ① **Eliminate necking effect.** An integrated air blade ensures a perfectly straight application, preventing the edges to curve towards the center of the adhesive curtain.
- ② **No product damage.** The distance between the coating die and the substrate prevent any possible damage from occurring on heat sensitive substrates such as PP, PE and PET.
- ③ **Adequate for all substrates.** By not placing the die directly in contact with the surface, Akura M Applicators achieve an homogeneous coating even on breathable, heat-sensitive and/ or substrates with an uneven or irregular surface.
- ④ **Streak-free result guaranteed.** Small particles or contaminants that may lay on the surface of the substrate are swept along by the adhesive, eliminating the risk of scratching that is sometimes associated with contact coating processes.
- ⑤ **Minimize adhesive usage.** The adhesive curtain dispensed from the nozzle is stretched with the movement of the substrate, accomplishing minimal coating weights and maintaining a homogeneous coating. Additionally, when working with porous substrates, laying the adhesive onto the substrate instead of pressing it against it, prevents the adhesive from unnecessarily filtering into the porous material, reducing the amount of adhesive needed.
- ⑥ **Improve your anchorage.** When working with acrylic-based PSA on breathable or heat sensitive materials, and/ or UV curable hot melts traditional contact applicators must apply adhesive on the release liner to prevent damaging the substrate. After the adhesive is cured, its adhesion properties are limited. This makes the transfer process less effective. Curtain applicators apply directly to the substrate for a perfect adhesion.

## Technical Specifications

<b>Akura M Series Applicators</b>	
Nozzle Options	Continuous / Curtain Coat / Rotating Bar
Adhesive Input Options	Direct / With Filter
Temperature Control	NI-120 / PT-100 / FEKO / NTC
Max Coating Width	Up to 2200 mm
Max Operating Temperature	240° C (464° F)
Max Operating Pressure	100 bar
Operating Speed	500 m/min
Coating Thickness Range*	5 - 200 gr/sqm
Dosing	1 gear pump per module every 25 to 50 mm
Max Electrical Consumption	Body Gun: 2000 W every 400 mm

\*Coating thickness will vary depending on the nozzle and adhesive type



**For more information, visit [valcomelton.com](http://valcomelton.com) or contact your local Valco Melton representative.**

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