

## AKURA M APPLICATORS

### Metering Hot Melt Applicators for Low add-on, Uniform Coatings

Valco Melton's Akura M Coating Applicators Series incorporate single or multi-stream gear pumps on the applicator for an immediate hydraulic response. This guarantees a completely uniform coating while reducing waste during machine ramp-up. A pressure transducer integrated before the metering pumps works in close-loop to maintain a constant pressure on the applicator.

- **Homogeneous adhesive distribution.** Based on each project requirements, Akura applicators feature a number of independent hydraulic zones. Each zone is fed by a gear pump, to ensure an even distribution of the adhesive across the full web width.
- **Automatic adjustments.** By incorporating our Weight-Inspekt grammage control system, the average grammage of each hydraulic zone may be controlled in close-loop with the gear pumps. As deviations in the adhesive grammage are detected, the system will automatically adjust the adhesive flow for the specific hydraulic zone.



*Weight-Inspekt grammage control working in close-loop*



Akura M applicators with single-stream pumps feature different flow regulator options, allowing the user to fine-tune the adhesive flow within each independent hydraulic zone.

Akura M applicators with multi-stream pumps feature modules every 25-50 mm. Each of them is independently fed by a stream of the gear pump, eliminating the need for manual adjustments of the flow within each hydraulic zone.





### Nozzle Options

Akura applicators allow for simple changes from one nozzle type to another. Options available for the Akura M with single stream pumps include *continuous* (1), and *rotating bar* nozzles (2). Additionally, Akura M applicators with multi-stream pumps may feature *curtain coat* nozzles (3).

### WHY CURTAIN COATING?

- **No product damage, regardless of substrate material.** On breathable or heat-sensitive materials, as well as on uneven or irregular surfaces, the distance between the coating die and the substrate minimizes any potential damage and ensures a homogenous coating.
- **Minimize adhesive usage.** The adhesive curtain dispensed from the nozzle is stretched with substrate motion, accomplishing minimal coating weights and maintaining a uniform coating. Moreover, less adhesive is required when working with porous substrates. Laying the adhesive onto the substrate rather than pressing it against it avoids the glue from unnecessarily filtering into the porous material.
- **Improve your anchorage.** To prevent damage on the substrate, traditional contact applicators must apply adhesive on the release liner when working with acrylic-based PSA and/or UV hot melts on breathable or heat-sensitive materials. After the adhesive is cured, its adhesion properties are limited. This makes the transfer process less effective. Curtain applicators apply the adhesive directly onto the substrate for a perfect adhesion.

### Technical Specifications

Akura M Series Applicators	
Nozzle Options	Continuous / Curtain Coat / Rotating Bar
Adhesive Input Options	Direct / With Filter / Filter with Shut-off Valve
Temperature Control	NI-120 / PT-100 / FEKO / NTC
Max Coating Width	Up to 2500 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	Single Stream: 1 gear pump every 300 mm
	Multi Stream: 1 stream of the gear pump per module every 25 to 50 mm
Max Electrical Consumption	Body Gun: 3500 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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