

A close-up photograph of an industrial labeling machine. Several clear plastic bottles are positioned on a rotating platform. Each bottle is held by a black nozzle assembly with a red ring. The machine is made of polished stainless steel. The background is slightly blurred, showing more of the machinery.

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green
GLUING

LABELSTAR M

Hot melt Nozzle System for Wrap-around Labeling

swiss
QUALITY 

GLUING SOLUTIONS **ROBATECH**

POWERFUL NOZZLE SYSTEM FOR FLEXIBLE AND EFFICIENT WRAP-AROUND LABELING

The LabelStar M nozzle system for wrap-around labeling of cans, glass, PET, and plastic containers ensures precise adhesive application and efficient production at reduced costs.

The LabelStar M consists of two hot melt gluing stations supplied with adhesives by one melter. The initial gluing is applied directly to the container using a spiral spray head. Next, the rotating containers remove the label from the magazine. At the same time, the end gluing is applied via surface coating during the removal. The label wraps around the container and is glued along the overlap.

Reduced Adhesive Consumption

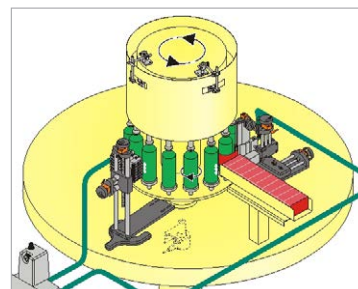
The adhesive amount can be dosed precisely and reduced to a minimum using the nozzle system. Compared to a roller system, adhesive savings of up to 60 % can be achieved. Furthermore, the adhesive is protected from ambient air and contaminations, which reduces maintenance and increases safety.

High Flexibility

Format changes of containers and labels are efficient and straightforward using the touch panel on the melter and the adjusting points with counters for the nozzles. Pattern control is integrated into the melter. A dedicated labeling software ensures a precise and uniform adhesive application – even at changing machine speeds.

Advantages

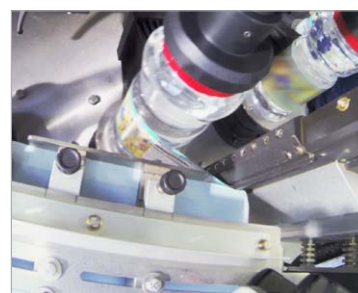
- Adhesive savings of up to 60 % compared to roller systems
- Increased productivity and flexibility through short changeover times and quick system availability after container or label change
- Operation via integrated pattern control on the melter or directly via the host machine
- Best quality with precise and uniform adhesive application – even at changing machine speeds
- Reduced maintenance effort due to durable nozzle solution with filter and high switching cycles



Nozzle system



Initial gluing



End gluing



Integrated pattern control

TECHNICAL DATA

	SX Spiral Spray Head Initial Gluing	ETV Coating Application Head Final Gluing
Adhesive	Thermoplastic pressure-sensitive adhesives	
Adhesive viscosity	800 – 2,500 mPas	
Adhesive pressure	Max. 76 bar	
Operating temperature	20 – 185 °C (68 – 365 °F) ± 0.5 °C	
Production speed	Max. 72,000 bottles/hour*	
Operating cycles: Jetting element, solenoid valve	50 million cycles*	
Air pressure, control air	6 bar	
Air pressure, spray air	0.5 to 4 bar adjustable	-
Supply voltage	200 – 240 VAC, 50/60 Hz	
Electr. connection, solenoid valve	24 VDC / 0.9 W	24 VDC / 17.1 W
Electrical energy	1,000 W incl. air heater	500 W
Distance of spiral elements	18 mm	
Label height	25 – 146 mm (other heights upon request)	
Degree of protection	IP55	

* Depending on adhesives, viscosity, temperature, and air quality