

A close-up photograph of an industrial labeling machine. Several clear plastic bottles are positioned on a rotating turntable. Above each bottle is a black hot melt nozzle assembly with a red ring. The machine is constructed from polished stainless steel. The background is slightly blurred, showing more of the machinery.

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## LABELSTAR M

Hot melt Nozzle System for Wrap-around Labeling

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# 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

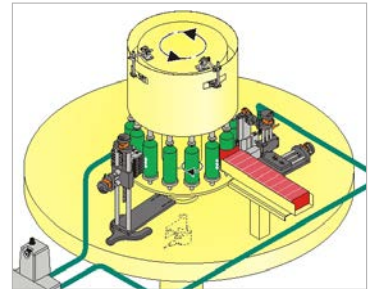
The adhesive amount can be dosed precisely and reduced to a minimum using the nozzle system. Compared to a roller system, adhesive savings of up to 60 % can be achieved. Furthermore, the adhesive is protected from ambient air and contaminations, which reduces maintenance and increases safety.

## 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

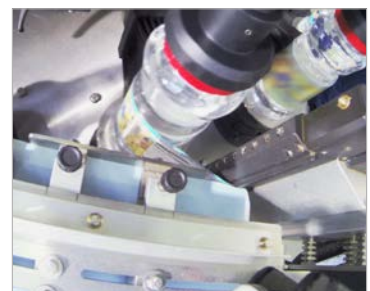
- Adhesive savings of up to 60 % compared to roller systems
- Increased productivity and flexibility through short changeover times and quick system availability after container or label change
- Operation via integrated pattern control on the melter or directly via the host machine
- Best quality with 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<br>Initial Gluing     | ETV Coating Application Head<br>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