

# green GLUING

## POLARIS

Cold glue spray head  
User-friendly | precise | durable

# PRECISE, CLEAN SWIRL APPLICATION FOR DISPERSION ADHESIVES

Polaris is a durable and user-friendly spray head for solvent-free dispersion adhesives. With its precise, clearly defined swirl application ranging from 10 to 100 mm in width, the electric head is particularly suitable for the economical gluing of paper or lightweight carton, for example in paper wrapping applications, fruit tray production, or robot-assisted cold glue application.

## Precise cold-glue swirl application for reliable processes

Polaris delivers consistently uniform swirl patterns throughout the entire application period. Thanks to the consistent application width, both the substrate and the machine remain clean. The spray head's exact start and stop performance ensures swirl application without adhesive beyond the defined pattern.

## Durable and easy to integrate

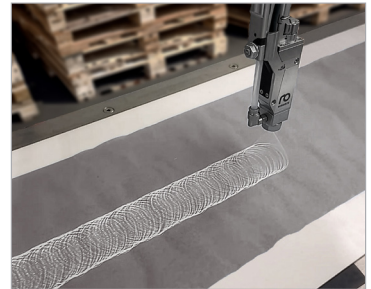
Polaris features an electromechanical drive and operates without dynamic seals, ensuring long service life. The spray head can be controlled via PLC through the 24 VDC interface or via the optional Sirius control unit.

## User-friendly

Polaris saves time in production. Thanks to the integrated dry-out protection, the usual wet cleaning of the application nozzle is not required during short application interruptions. The adhesive application volume can be finely adjusted using the manual stroke adjustment screw. For flushing and functional testing of the spray head, the optional external trigger can be activated.

## Your advantages

- Precise, clean swirl application with consistent application width
- Durable spray head thanks to electromechanical drive and operation without dynamic seals
- Easy system integration via 24 VDC interface or control via optional Sirius control unit.
- Time savings in operation thanks to dry-out protection in the application nozzle
- Quick nozzle replacement
- Flexible adjustment of adhesive application quantity and width via stroke adjustment screw and operation parameters.



Precise swirl application without adhesive beyond pattern



Nozzle with needle valve for dry-out protection



Stroke adjustment screw and external trigger



Polaris is ideal for paper pallet wrapping

## TECHNICAL DATA

Adhesive pressure	max. 6 bar
Type of adhesive	Cold glue, pH range of 4 to 8.5
Adhesive viscosity	max. 4,000 mPas
Application width	10 to 100 mm*
Operating cycles	100 million
Switching frequency	50 Hz**
Hose connection, adhesive	Low-pressure connection Ø 8 mm
Hose connection, spray air	Ø 8 mm
Supply voltage	24 VDC
Holding voltage	10 VDC***
Overexcitation time	No excitation
Electric power	16 W
Control	SPS or Sirius control unit

\* Depending on spray nozzle, adhesive, pressure, distance to substrate etc..

\*\* Depending on adhesive, viscosity, pressure, and flow rate

\*\*\* Only with lowering electronic device in continuous application mode with flow < 1 kg/h per spray element