

green GLUING

AX DIAMOND

Hot Melt Jetting Heads
Sturdy | reliable | safe

STURDY AND COST-OPTIMIZED APPLICATION HEAD

The sturdy jetting heads of the AX Diamond series are ideally suited for non-contact application of low- to medium-viscosity thermoplastic hot melt adhesives. Adhesive is applied in a bead pattern.

Sturdy and reliable

The compact and sturdy design makes the AX Diamond very resilient, especially under harsh conditions. Thanks to the filter integrated in the heating block, nozzle blockage is prevented. Nozzle damage as well as heat loss are minimized through nozzle protection. This results in an even better cut-off behavior and reduced operation interruptions.

Increased safety and sustainability

With CoolTouch insulation, the Diamond series increases operational safety. The jetting head insulation protects operators as well as products to be glued from heat. The heat-resistant insulation reduces energy consumption and ensures a constant adhesive temperature, even with a draft.

Integration and maintenance

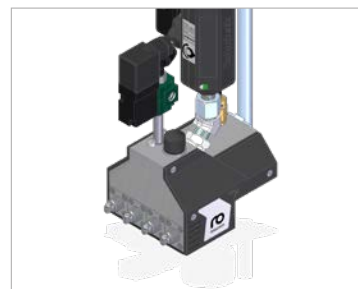
The AX Diamond can be easily integrated. If space is tight, the solenoid valve can also be mounted externally and actuated via remote control. Format conversions for 90° applications can be implemented quickly and easily using only one wrench.

Modularity and compatibility

As part of the Diamond series, the AX Diamond is compatible with most Robatech application systems. This simplifies integration into existing machines and reduces spare part costs.

Your advantages

- Resistant thanks to robust design
- Energy-efficient and safe thanks to CoolTouch insulation
- Constant temperature for highest adhesive quality
- No nozzle blockages thanks to integrated filter
- 24 VDC – actuation via PLC
- Easy format conversion for 90° nozzle



TECHNICAL DATA

Temperature range	20 to 200 °C
Adhesive pressure	Max 100 bar
Adhesive	Thermoplastic adhesives
Adhesive viscosity	100 to 5,000 mPas
Operating cycles	10 million *
Switching frequency	50 Hz/**
Adhesive outlet	12.5 ms*
Jetting element width	22 mm
Nozzles	294 / 296 / 292 (90 °)
Air connection	5 to 6 bar, cleaned and not oiled
Air consumption	Approx. 6 ml per jetting element / cycle (5 bar)
Supply voltage	230 VAC (EN60204), 50/60 Hz
Supply voltage, solenoid valve	24 VDC / 7,3 W
Attachment	For shaft ø 12mm, flat steel or M5 thread
Noise level	Approx. 65 to 70 dB(A)
Degree of protection	IP55

* For jetting element and valve. Depending on operating environment and conditions (adhesive, temperature, frequency, etc.)

** Continuous load maximum 10 Hz