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## Hotmelt application heads AX Diamond

# NEW

sturdy | reliable | safe | sustainable



**Robatech**  
Gluing Technology

## AX Diamond

Single acting, electro-pneumatic hotmelt application heads

The sturdy jetting heads of the **AX Diamond** series are outstandingly suitable for non-contact applications of low to medium viscosity thermoplastic hotmelts for simpler application. The adhesive is applied in a dot or bead pattern.

### Reliability

The **AX Diamond** application heads are very resilient especially under harsh conditions because of their simple and sturdy construction. And thanks to the integrated filter in the heating part, blocking of the nozzles is almost completely avoided.

### Safe and sustainable

The CoolTouch insulation in the Diamond series significantly improves personal protection and operational safety. Less heat is radiated into the environment because of the insulation, which protects the products to be glued. The heat resistant insulation also significantly reduces energy use which guarantees that production is easy on resources and sustainable. Since the application head is insulated, hot adhesive will not cool off when in contact with drafts or cold air.

### Modular and compatible

All of the application heads in the Diamond series are modularly designed. The same filter type and the same nozzle assortments can be used for the entire family of Diamond Hotmelt application heads. In addition, the jetting element AX 296 Diamond and the pneumatic valve **AX Diamond** are compatible with the existing AX 100 series, which significantly simplifies integrating it into existing systems.

### Features:

- CoolTouch insulation
- Integrated filter in the heating part
- Consistent temperature control
- Robust construction
- 24 VDC valve activation

### Advantages:

- CoolTouch body protection
- Reduced energy use
- Higher operational safety
- No changes in viscosity
- No clogged nozzles
- Resilient
- SPS control



## Technical data

Temperature range	20 to 200° Celsius
Glue pressure	max. 100 bar
Adhesive	Thermoplastic adhesives
Adhesive viscosity	100 to 5'000 mPas
Operating cycles	approx. 10 million cycles *
Switching frequency	50 Hz*
Adhesive outlet	12.5 ms**
Jetting element width	22 mm
Nozzles	294 / 296
Compressed air pressure	5 to 6 bar, cleaned and not oiled
Air consumption	Approx. 6 ml per jetting element / cycle (5 bar)
Operating voltage	230 VAC (EN60204), 50/60 Hz
Connection solenoid valve	24 VDC / 7.3 Watt
Mounting	Shaft Ø 12 mm or thread M5
Sound pressure	65 to 70 dB(A)
Degrees of protection	IP55

\* Depending on adhesive, viscosity, temperature, frequency, pressure air quality and stroke. Continuous operation max. 10Hz.  
 \*\* Refers to the jetting element and to the solenoid valves

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