



# green GLUING

## SX DIAMOND / SX LONGLIFE

Hot Melt Jetting Heads  
Durable | precise | flexible

## FOR DURABLE AND PRECISE ADHESIVE APPLICATION

The insulated jetting heads of the SX Diamond series are ideally suited for non-contact application of low- to medium-viscosity hot melt adhesives. The SX Diamond and SX LongLife are identical and only differ in the jetting element. They can be flexibly used thanks to their small installation dimensions.

### Durable, reliable, and precise

The specially developed jetting elements and the robust solenoid valve make the application heads particularly durable. The double-acting, electro-pneumatic jetting head ensures precise and even adhesive application. Due to its electronics, the optionally available SX Fast solenoid valve achieves a higher switching frequency of up to 180 Hz and can also be mounted on existing application heads without great effort.

### Increased safety and sustainability

With the CoolTouch insulation, the operating personnel and the products to be glued are protected from heat. The heat-resistant insulation reduces energy consumption and ensures a constant adhesive temperature, even with a draft from very fast running machines.

### Modularity and compatibility

Thanks to the modular design, the application heads are available in different designs with selectable jetting elements, either as single or multiple heads. This enables us to meet customer-specific production needs precisely. As part of the Diamond series, they are compatible with most Robatech application systems. This simplifies integration into existing machines and reduces spare part costs.

### Your advantages

- Cost-efficient thanks to durability with 50 resp. 200 million operating cycles
- Precise adhesive application with clean cut-off even at high speed
- Flexible thanks to modular design
- Energy-efficient and safe thanks to CoolTouch insulation
- No nozzle blockages thanks to integrated filter
- Constant temperature for highest adhesive quality



Selection of jetting elements and nozzles



Nozzle protection against external influences



Integrated filter prevents nozzle clogging



Bottom-up cover

### TECHNICAL DATA

	SX Diamond	SX Longlife
Temperature range	20 to 200 °C	
Adhesive pressure	Max 75 bar	
Adhesive	Thermoplastic adhesives	
Adhesive viscosity	500 to 5,000 mPas	
Operating cycles	50 million*	200 million* (296 / KV) 100 million* (NV)
Switching frequency	120 Hz**/** (SX Fast: 180 Hz**/**)	
Adhesive outlet	5 ms*	
Jetting element width	18 mm	
Nozzles	296 / 294	296 / 294 / KV / NV / NV long
Air connection	6 bar, cleaned and not oiled	
Supply voltage	230 VAC (EN60204), 50/60 Hz	
Supply voltage, solenoid valve	24 VDC / 8 W (SX Fast: 24 W)	
Attachment	For shaft ø 12mm, flat steel or M5 thread	
Noise level	Approx. 78 to 83 dB(A)	
Degree of protection	IP65	

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

\*\* Continuous load maximum 50 Hz.