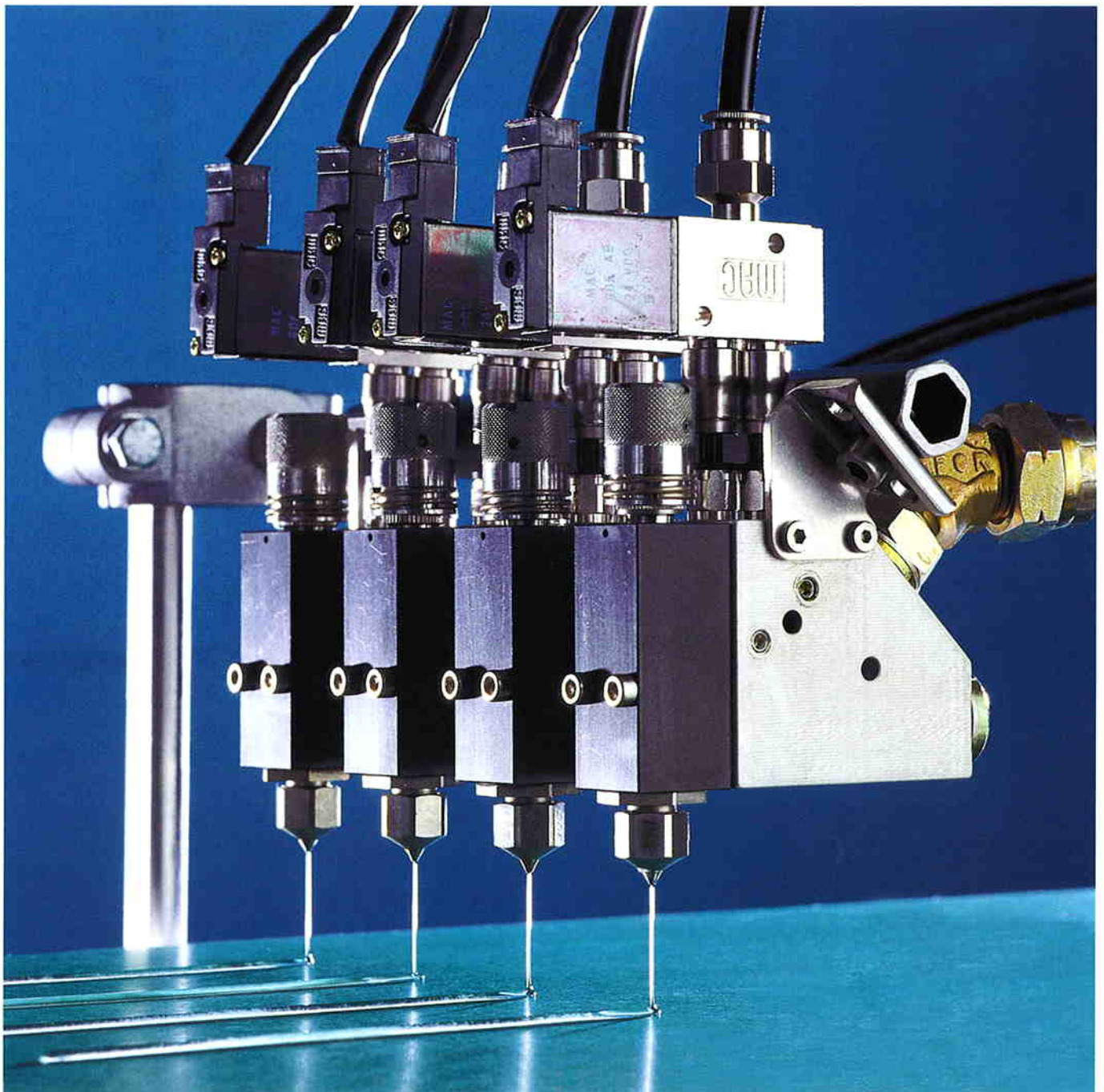


SX Series

Applicator Heads for Hotmelts

The SX applicator heads are characterized by their small dimensions, the fast and precise adhesive application and the excellent availability. Their compact and modular structure enables a simple integration in the machine at low overall costs.



Wide application range

The SX applicator heads process low- to medium-viscosity hotmelts and apply the adhesive in a dot or bead pattern. The modularly structured applicator heads offer numerous combination possibilities to satisfy a multitude of requirements in all industries. The applicator heads of the SX series can be used very individually thanks to the variable number of jetting elements with different valve heads, a variety of nozzles and different executions.



Applicator head SX 3N with individual valves

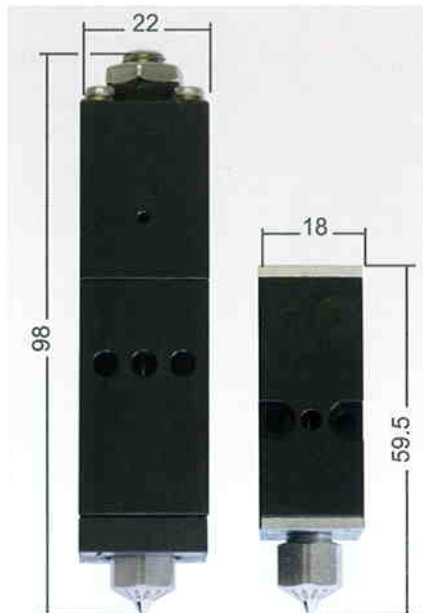
Simple installation

The electropneumatically actuated, small-size applicator heads in different versions and with various nozzle types enable an easy installation in any machine while offering optimal accessibility.

- Small dimensions for installation
- Wide selection of versions
- Convenient integration in the machine
- Good accessibility
- Special versions fast available



Slim applicator head SX 1 with nozzle type 296



Jetting elements AX100 and SX in comparison



Applicator head SX 1N of standard execution

Precise adhesive application

The precise temperature control in the applicator head and the resulting constant adhesive viscosity, the optimized manifold and the precise nozzles guarantee a fast, precise and reliable adhesive application without stringing or drooling.

- Short switching times for high speeds and short glue lengths
- No drooling or stringing
- Double-acting jetting elements
- Excellent tear-off behaviour



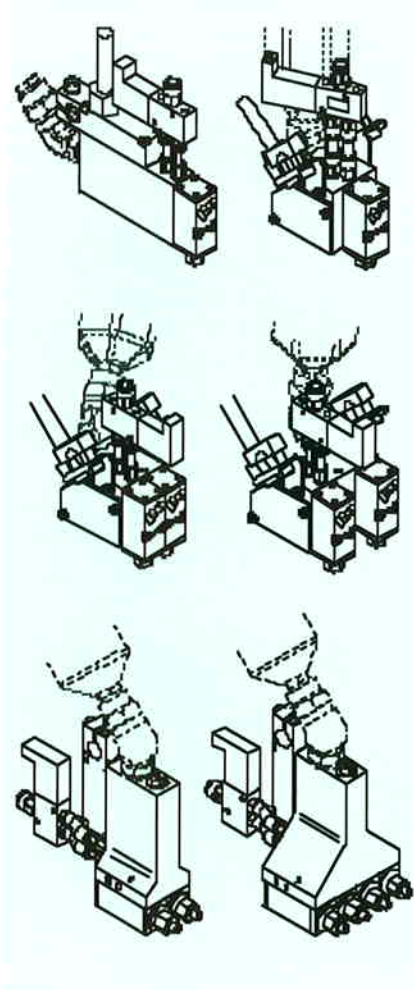
SX 2 LP EL with space-saving profile

Low price, low costs

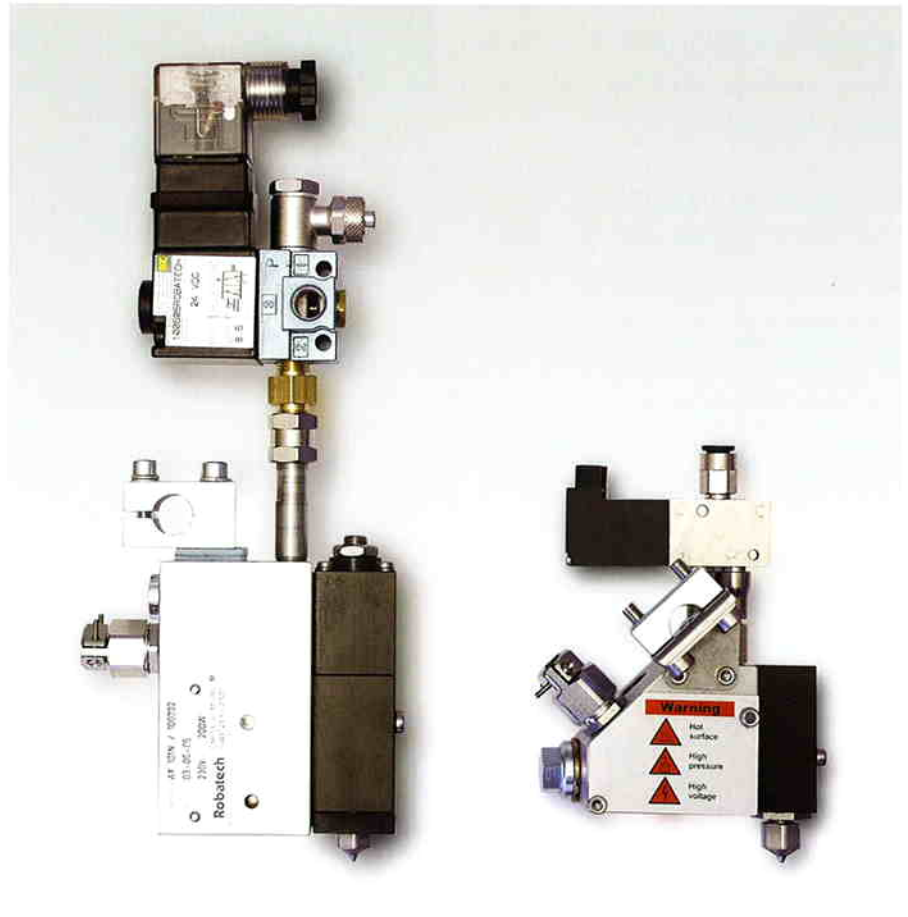
The use of well-proven and operationally safe components, the simple design with few wear parts and the exchange service for defective jetting elements result in reduced investment and operation costs while ensuring a high reliability.

- Exchange service for jetting elements
- Low compressed air consumption
- High process quality
- No stringing and less contamination

Numerous versions available



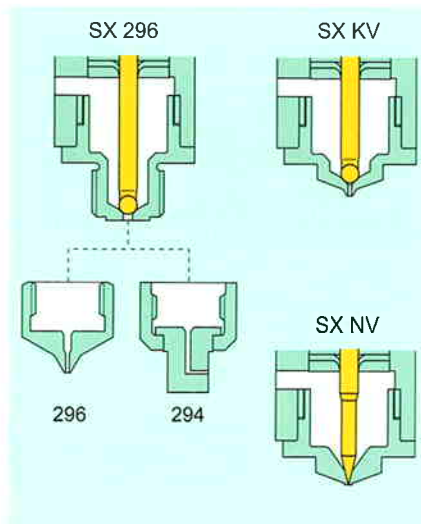
Some of the many SX versions



AX101N compared with SX1N – easier integration in machines thanks to smaller dimensions

Different valve techniques

The jetting elements of the SX-type heads come with needle or ball valves. With the ball valve technique the customer can choose between valve head 296 and the variant SX KV where the nozzle is integrated in the valve head. Jetting elements with needle valve close directly at the glue exit, they are self-cleaning and ensure a maintenance-free operation.



Jetting elements with ball or needle valves

Jetting element SX 296

Ball valve with thread onto which the nozzles 296 and 294 can be screwed. Individual adaptations are possible by means of the nozzle. To meet standard requirements.

Jetting element SX KV

Ball valve with integrated nozzle for a very precise glue application without stringing.

Jetting element SX NV

Needle valve with integrated nozzle, no maintenance, for high-viscosity and reactive adhesives.

Filters can be retrofitted

All SX applicator heads are prepared for the installation of a filter. If necessary a filter cartridge can simply be retrofitted to the applicator head. The system's availability is thus increased in minimum time without need to disconnect the heated hose.

No obstructed nozzles

The filter in the applicator heads guarantees a safe production without downtime. It stops contaminants such as foreign particles or residues of adhesive from reaching the application nozzles and prevents blockages. Deposits of plastic can form over years of operation. When they eventually come loose, they block the nozzles. The installation of filter cartridges is especially recommended for older systems or dusty environments.

- Filter installation when necessary
- No obstructed nozzles
- Higher operational safety
- Filter exchange without hose removal



Integrated filter cartridge for retrofitting



Nozzles for the different jetting elements

Exact quantity control

The quantity of applied adhesive is determined by the adhesive pressure and the nozzle size. Precision nozzles with different bores and in various versions are available for the jetting elements to cope with different production conditions. The optional fine adjustment can be used on jetting elements with ball valves. This for even more precise metering of the applied quantity, without need to exchange the nozzle.



Jetting element KV with fine adjustment screw

Technical data

Glue pressure	max. 100 bar
Glue viscosity	100...50,000 mPas
Temperature range	20...200° Celsius
Temperature control	NTC sensor, accuracy $\pm 0.5^\circ\text{C}$
Jetting element width	18 mm (minimum distance)
Reaction time	2.5 ms (200 glue dots per second)
Nozzle diameters	0.20...2.00 mm standard, others on request
Operating voltage	200...240 Volt AC, 50/60 Hz
Air pressure	5...6 bar
Fastening	Bore \varnothing 12 mm or M5 thread hole

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