



AMX-45 Series modules are the first and only modules in the world to use double interchangeable gasket cartridges. Compatible with systems designed for our previous modules, New Life and Long Life Series, these high-precision components can sustain high work speeds (up to 6500 strokes per minute). Their small size and easy maintenance contribute to ensuring cost-effective, reliable service over a long period of time. Customers can choose from a wide range of nozzles, also in special configurations and materials, to find the best solution for any gluing problem. PREO uses innovative aerospace and aviation technology to make the most revolutionary components on the global market today.

MICRO-REGULATION SYSTEM

The precise needle micro-regulation system guarantees perfect micro-dot distribution, even at very high speeds.

NEEDLE

The hard metal titanium-coated needle guarantees reliability, precision, top performance and a practically unlimited lifetime.

DOUBLE GASKET CARTRIDGES

An innovative double interchangeable gasket cartridge system is specifically developed to guarantee a perfect seal at high pressures and temperatures. Also ensures simple, cost-effective maintenance and long product lifecycle. Cartridges can be easily unscrewed and replaced with new preassembled cartridges. Modules always work properly, without compromising reliability, quality or precision.

ZERO-CAVITY SYSTEM NOZZLE

Modules come with Zero-Cavity nozzles. The Zero-Cavity closure system is an innovative self-cleaning system: the needle fits directly into the nozzle hole and breaks up any residues. Therefore, nozzles are always clean, and the whole system always works smoothly.

MODULE

Brass module casing improves thermal conduction and mechanical stress resistance. The non-stick hard oxidation treatment on the external surface expedites and simplifies maintenance procedures, and reinforces the module. Customers can choose from a complete range of models to find the right module for a specific application.

AMX-45 LL Series (interchangeable with the LONG LIFE Series): applications requiring work speeds of up to 4,000 strokes per minute.

CH Series: continuous coating applications with maximum light of 30 mm.

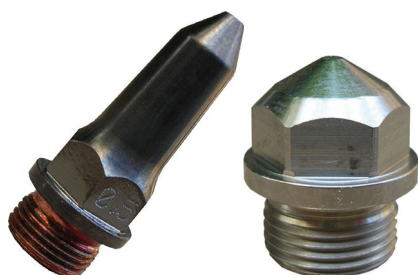
HIGH FLOW series: recommended for applying large quantities of adhesive in a short amount of time.

SPRAY and SPYRO Series: for large surfaces requiring a low glue weight. Spray version: constant nebulization of the glue. Spyro Series: applies a line of glue in a spiral pattern. Both use interchangeable gasket cartridges.

NOZZLES

A wide range of nozzles are available in different configurations and special models, depending on the customer's specific needs. Nozzles can be designed in an array of sizes, and manufactured in several different materials.

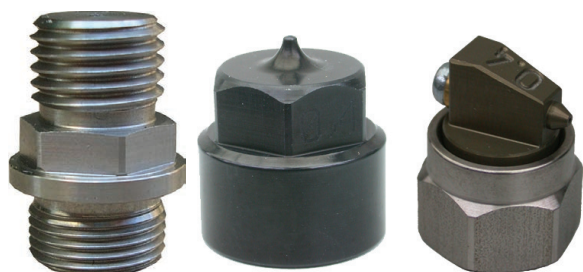
KV-LV-XLV-MVN-NDS-SP-X SERIES

**KV - LV SERIES NOZZLES**

Stainless steel nozzles mounted as a standard feature on standard modules. Nozzle hole diameters range from a minimum of 0.25 mm to a maximum of 1.2 mm. The Zero-Cavity closure system is an innovative self-cleaning system: the needle fits directly into the nozzle hole and breaks up any residues. Therefore, nozzles are always clean, and the whole system always works smoothly.

**XLV SERIES NOZZLES**

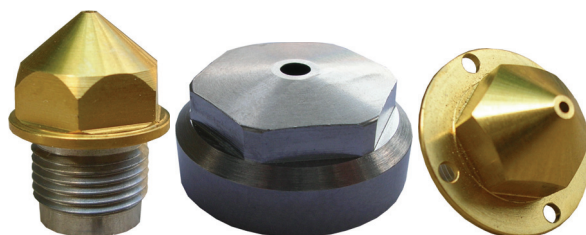
Size range up to 65 mm long: specifically designed to distribute glue in hard-to-reach places, or in narrow or deep spaces. Construction material: special aerospace alloy with thermal conduction properties eight times higher than a normal bronze alloy (nozzle maintains constant temperature along its entire length). A Zero-Cavity mini-nozzle, available in different diameters, is screwed to the adapter.

**NDS - NDS90° SERIES NOZZLES**

Construction material: aerospace alloy with increased thermal conduction properties and higher tensile strength than steel. No insert ensures a very precise flow of adhesive - even at minimum pressures. As a result, strings and smudging are no longer a problem. Non-stick external coating with the same surface hardness as tempered steel. Available in different sizes: straight or at 90° angles.

**MVN SERIES NOZZLES**

These products consist of a threaded stainless steel adapter and 1-2-3-4 way brass nozzles with different angles. Usually, they are used where it is impossible to use guns with several modules, or where several glue lines must be applied in narrow areas.

**SP - SPRAY - SPYRO SERIES NOZZLES**

Two versions are available: the Spray series provides constant glue nebulization; the Spyro series is used to apply a thin strip of adhesive in a spiral pattern. This broad range of nozzles comes in various diameters with different shaped caps for all types of uses.

**X - SPECIAL SERIES NOZZLES**

Special Series nozzles have innovative technical specifications. Construction materials provide very high resistance to wear and breakage, and thermal conductivity level higher than traditional grades of steel. Rapid heat transmission - at least eight times higher than normal - is the advantage to this type of material. Design: enhanced reliability, even for multi-way nozzles. Distribution specs are similar to Zero-Cavity nozzle specs.

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