



# Hotmelt Guns

The last and most important part of the chain when applying hot-melt adhesives is the application valve. There are many requirements for the application valve technology. Since the adhesive is hot and is to be processed in liquid form, the application valve must be heated.

Since the temperature in the application valve must be even higher than in the hose and also higher than in the melting device, uniform heating of the entire application valve is particularly important.

On the one hand, optimal flow through the often very narrow channels of the application valve must be guaranteed and, on the other hand, carbonization must be safely excluded.

Different application valves must be used for the different applications, optimally adapted to the respective application. For example, electro-pneumatic application valves with slotted heads are used in the e-commerce sector, while fully electric valves are used in the packaging industry for dot and bead application.

The control interface of all application valves is the same, so that any of our application valves can be connected to our heated hoses.

The following pictures show possible schemes for applying the adhesive:



Dot mode gluing, the modern contactless application style.



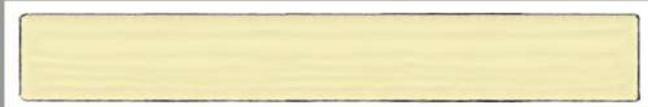
Line mode gluing, the conventional contactless style.



Multiple dot mode gluing, a very flexible and very modern contactless application style using multiple glue heads the number of guns in one block can be up to 8 guns.



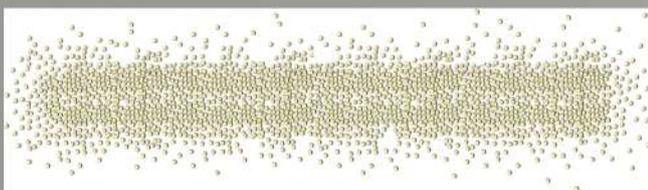
Multiple line mode gluing, a very flexible and conventional contactless application style using multiple glue heads the number of guns in one block can be up to 8 guns.



Area gluing, an application style where the glue gun applies the glue in direct contact to the surface. The width is adjustable by mechanically installed masks inside the nozzle.



Area gluing, an application style where the glue gun applies the glue while circulating a very thin hotmelt string. It is a contactless application for low speeds and low widths.



Area gluing, an application style where a spray glue gun spreads the hotmelt contactless. Heated air spray is necessary.

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dot mode, line mode, area mode