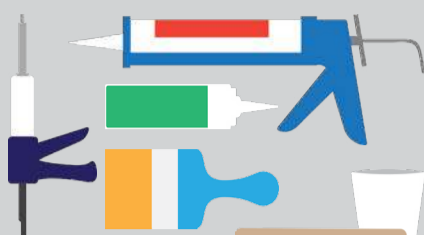


The Diversity of DISPENSING

Most of us are familiar with the standard bottle or glue stick, but the technology in dispensing adhesives and specialty chemicals has grown exponentially. Read this infographic to learn more about the different types of dispensing equipment.

Manual, Handheld Applicators

Harness the power of... your own arm. From a cup and a stick, to the commonly known "caulking" gun, manual, handheld applicators are the most popular items for adhesive dispensing. Options available for both 1 and 2 part materials.



Nozzles & Static Mixers

Nozzles and static mixers provide an accurate, clean and simple way to apply adhesives and specialty chemicals. Nozzles are used with one-part materials and can be cut to provide the preferred bead size. Static mixers are used with two-part adhesives, consisting of a plastic tube with alternating, angled elements within the tube, mixing the materials while it's dispensed.



Fun Fact:

About **40** pounds of adhesives are used for every person in America per year.



That's a lot of dispensing!

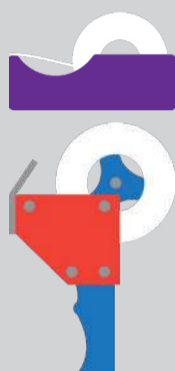
Hot Melt Handheld Dispensers

Hot melt dispensers, or hot glue guns, push cylindrical sticks of thermoplastic adhesive through the dispenser using a mechanical trigger. The adhesive is melted using a continuous-duty heating element inside the dispenser. Once melted, the adhesive comes out of the nozzle at the end of the gun.



Tape Dispensers

Most commonly known for packaging applications (including Christmas wrapping!), tape dispensers generally consist of the same parts: a roller to load the tape onto and a blade to cut the tape once the right amount is dispensed.



Pneumatic, Handheld Applicators

Pneumatic, handheld applicators attach to an air compressor that when the trigger is pulled, pressure moves a plunger to dispense the adhesive out of the cartridge. Options available for both 1 and 2 part materials.

Fun Fact:

Some tips and needles can dispense extremely tiny amounts. One tip can dispense 50 micrometers of adhesives at a time, which looks like this:



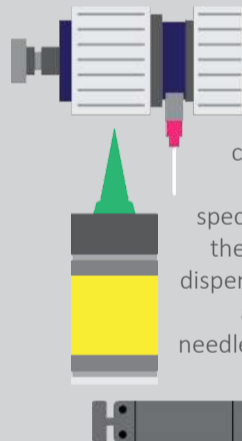
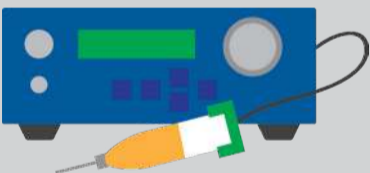
Dispensing Tips & Needles

Dispensing Tips, aka Dispensing Needles, are available in different gauges, lengths and threads. Tapered needles are used for high viscosity fluids while stainless steel tips are made for precision. There are also Teflon-lined needles for cyanoacrylates and flexible tips for hard-to-reach areas.



Dispensing Controllers

Dispensing Controllers offer accurate, controlled dispensing for the user in a wide variety of applications including microdot deposits, lines, large potting and filling. Once connected to an airline and a power source, dispensing controllers can be programmed to dispense exact amounts in a few easy steps, plus a hand or foot actuator can be attached for easy applying.



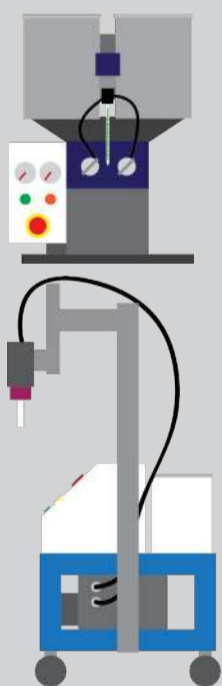
Valves

Valves are used in conjunction with automated robots and/or dispensing controllers to provide precision dispensing of adhesives and specialty chemicals. Depending on the type of adhesive and amount dispensed, there are multiple valves available including diaphragm, needle, pinch tube, poppet, positive displacement and others.



Meter Mix Systems

Meter Mix and Dispensing systems precisely measure, blend, control and dispense adhesives and specialty chemicals with uniform accuracy and reliability. They work with single and multiple component materials including epoxies, polyurethanes, silicones, acrylics, urethanes, pastes, abrasive- or microsphere-filled materials and more. Meter Mix Systems are available in benchtop, cart-mounted, or full workstation sizes.

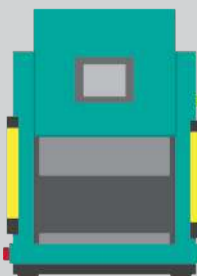
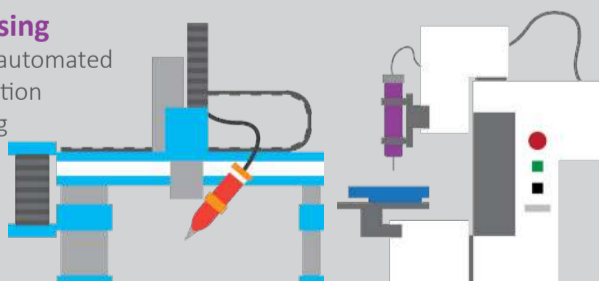


Manufacturers & Brands of Dispensing Equipment



Automated Robotic Dispensing

Robots are an economic solution automated dispensing for low, to high production environments. Types of dispensing robots include desktop, gantry-Cartesian and SCARA. Many robots can be easily integrated into assembly lines.



Specialty Dispensing Equipment: Low Pressure Injection Molding

Low pressure molding machines encapsulate electronics and mold parts used in electronics and lighting applications. Materials used include thermoplastics, silicones, epoxies and urethanes. Machines are available for high to low volume production.

The dispensing equipment options are quite extensive. Feel free to contact us to find the best dispensing process for your application.

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 Ask the
 Glue Doctor®
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