For 20 years, BioDot has manufactured non-contact and quantitative fluid and powder dispensing systems for the industrial, life science, diagnostic, and medical product markets.

BioDot's dispensing technologies combined with an expertise in laminating, cutting and assembly provide a full range of equipment platforms that serve our customers from R&D through high volume manufacturing.

Our commitment to cutting edge technology, customer satisfaction and safety makes us a leader in the reagent dispensing industry.
Immunoblotting
Immunoblotting (also known as: Western blot, lineELISA, dot blot or cold blot) is an analytical technique used to detect specific proteins in a patient’s sample. The proteins to be analyzed are dispensed onto a membrane (typically nitrocellulose, nylon or PVDF) where they are probed by the antibodies of the patient. A simple secondary antibody conjugated to a reported dye forms the basis of the color reaction which can be read by eye (qualitative) or instrument (qualitative and quantitative.)

Common Applications
- Allergies
- Cancer BioMarker
- Autoimmune Diseases
- Food Tolerance
- STDs

Web Slitting
Automated slitting solution to take a large roll of material and singulate into individual smaller-width rolls. Smaller slit materials are re-rolled onto independent reels for easy transport for lamination.

- Precision slitting
- Independent rewind reels
- Tension Control
- Heavy Duty Construction

Web Lamination
Specialized continuous lamination system designed to take reel assemblies from slitting system and directly laminate them onto backing material. Laminator applies all test strips simultaneously to backing and cuts into programmable card length.

Dispensing
Customized multi-channel dispensing systems for R&D or production. Precise, quantitative dispensing in contact and non-contact formats available.

Guillotine & Matchbook Cutting
BioDot cutters can be customized with automatic magazine feeds to load assembled product into blade assemblies. Cutting systems have the option of fully singulating individual strips or performing “matchbook” style cutting for processing downstream.

BioDot has a full product line for manufacturing Immunoblots in the strip format.
- Slitting Membrane and Re-rolling
- Laminating Membrane and ID Strip onto a Backing then Cutting into Master Laminates
- Dispensing Lines onto Membrane
- Cutting the Finished Test Strip using a Matchbook Cutter
- Placing the Cut Strip into the Plastic carrier

Bringing Manufacturing Strength to the Laboratory