



Let's get to the point

Time pressure offers many advantages over positive displacement

TIME-PRESSURE

Accuracy / Performance

Dispense all fluids.

Real-time display of air pressure and dispense time reflect actual dispensing parameters.

Simple adjustments maintain accuracy as barrel empties.

Components made in USA by Nordson EFD under stringent quality control.

Ease of Use

Fast and easy setup. Teach function allows operator to quickly approximate shot size, then fine tune with precision timer.

Lightweight syringe barrels are ideal for both manual and fixtured applications.

Production Efficiency

Fast cycle rate for higher output.

No electrical components near fluid to generate heat.

No moving parts to wear and degrade accuracy.

Many fluid packagers already package their materials in Nordson EFD syringe barrels. Time-pressure dispensers are compatible with syringe barrels from different manufacturers.

Precision pistons available in several styles for optimum results with different fluids.

VS

POSITIVE DISPLACEMENT

Accuracy / Performance

- Mostly dispense 2-component epoxies.
- Difficulty with reactive fluids including cyanoacrylate

Displacement value on display is a mathematical computation of how far the lead screw travels - not how much fluid is displaced.

As barrel empties, lead screw pullback does not change so there is less fluid compression and deposit consistency suffers.

Components outsourced to multiple manufacturers with varying degrees of quality control.

Ease of Use

Time-consuming programming. When changing shot size, pullback must be reset.

Motorized hand piece is bulky and heavy, causing hand fatigue in manual processes.

Production Efficiency

Mechanical lead screw requires time to extend and retract, slowing productivity.

Motor on top of syringe generates heat that can affect fluid viscosity.

As drive motors wear they start to slip, causing inconsistent shots. Delicate wires are prone to break.

Proprietary syringe barrels must be loaded on site (wasteful & time-consuming with risk of air pockets).

Piston fit is very tight and difficult to load without trapping air. Requires skill and wastes time. Air bubbles in fluid cause short and skipped shots.



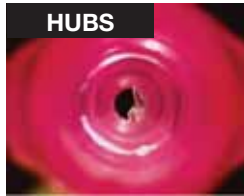
For ultra-critical applications, the Ultimius V™ dispenser automatically adjusts dispensing parameters as fluid viscosity changes.

The Optimeter™ maintains consistent full-to-empty pressure on the fluid by automatically increasing air flow as the syringe barrel empties.

COMPONENTS MAKE A BIG DIFFERENCE

The quality of dispensing components impacts the quality of your fluid deposit. Nordson EFD components are manufactured in the US from quality materials and subjected to stringent quality control.

Photos on left are magnified to show common flaws in poor quality tips. Flash, burrs and other defects create inconsistent deposits and lead to more rejected parts.



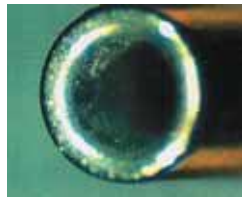
HUBS
Others. "Flash" inside tip hub restricts flow and reduces accuracy.



Nordson EFD hubs provide unrestricted flow and produce accurate, consistent deposits.



NEEDLES
Others. Burrs and flaws inside reduce accuracy.



Nordson EFD needles are carefully polished and burr-free.



For Nordson EFD LLC sales and service in over 30 countries, contact EFD or go to www.nordsonefd.com

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