

Accuspense

Electronically Controlled Metering & Dispensing Systems



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Hydrotech[®]
Motion Control Solutions

Accuspense systems are designed to dispense all types of materials including; Single & multiple component, filled/unfilled, thin liquids/thixotropic paste epoxies, silicones, polyurethanes, polyurea, polyacrylate and polysulfide rubber.

Typical Applications

-**Composite Resin Infusion** -- RTM & VARTM, Filament Winding, and Pultrusion -

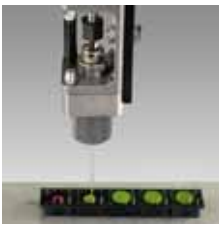
-**Filter Manufacturing**-- End cap and Seam sealing -

-**Laminating and Flexible Packaging**-- Automated Adhesive Dispensing –

-**Electronic components** -- Potting and Encapsulation-

-**Automotive and Assembly** --Precision Bead, FIP Gaskets, variable shots-

-**Print pads & Pressure Sensitive Adhesive** --Up to 5 component dispensing-



Controls

- Automatic ratio calibration software
- Automatic ratio monitoring and alarm functions
- Password protected security levels and maintenance functions
- System controls custom designed for your application and needs
- Variable dispensing speed controlled by your process output.
- Custom modal and fatal alarm functions
- Easy to use soft key operator interface and information outputs available
- Library menu for your part numbers to automate system settings
- Automatic shot size selection
- PLC independently controls from 1 up to 5 metering pumps
- Closed loop metering control based on precision flow meters
- Custom controls for heat, degassing, refilling, process & pot life timers
- Actuation from footswitch, trigger, push button, 24V input or controllable from your robot.

Gear Pump Metering



All gear pumps are custom made for each material.

Variable gear tolerances depending on viscosity.

Metering pumps sized based on flow rate and material viscosity.

Surface coatings available for, corrosive and filled materials.

Shaft sealing systems available for moisture sensitive materials and high pressures.

Rod and Progressive Cavity Metering Pumps

- ✓ Electrically driven rod displacement and progressive cavity metering pumps provide precision shots or variable speed metering of difficult materials
- ✓ Plasma treated components are ideal for low maintenance dispensing of highly abrasive materials.
- ✓ Many sizes and styles of single and double acting rod displacement metering pumps available.

Electronically controlled Drive Motors

- ✓ Servo motors are used for precision shots and bead dispensing
- ✓ Frequency inverted motors for high flow and lower cost systems.
- ✓ Independent drive motors for all materials
- ✓ Speed controlled from your motion control platform

Material Feed



- Gravity feed Accuspense systems from pails, drums or totes
- Pump from central drums or totes
- Pressure feed from process vessels
Meter directly from the follower plate for highly viscous materials

Material feed processing options

- Heating, Recirculation, Agitation, & Vacuum degassing
- Modal and fatal Low level alarms for vessels and central supply pumps
- Automatic Vessel controls for refilling and all processes.
- Automatic pump crossover controls & Automatic switching to/from back up vessels

Mixing Systems



Solventless Static Mixing

Dynamic/Static mixing



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