

# IDI - CYBOR

## Model 610 High Viscosity Pump



### The Intelligent Pump for High Viscosity Dispense

From the pioneers of precision photo chemical dispense, the Model 600 HVP® is designed to dispense high viscosity semiconductor processing chemicals ranging from resists to polyimides, as high as 50,000 cP. The CYBOR M610 HVP combines the advantages of stepper motor technology with state of the art hardware and software control technology to deliver a superior, repeatable high viscosity pump solution.

The M610 HVP uses patented software control technology to monitor and control the dispense operation. With a simple icon selection the M610 pump auto configures the Trigger, Dispense/EOD, Ready, Error and Warning signals. The M610 has expanded the on board recipe library. Now up to 8 recipes can be user selected through the discreet wiring or RS232/485 communication. Dispense volume can be "dialed-in", and the pump will automatically compensate for any changes in the pump's mechanical operation to assure a consistent, repeatable volume. All this with no operator intervention!

In addition, the M610 HVP Quick Prime/Quick Purge features allow the track to be up and running and ready for production in a fraction of the time that other high viscosity pumps are capable of offering.

What the M610 HVP can do that no other high viscosity pumps can do:

- Dramatic reduction in time to prime and purge
- Automatic setup with minimal operator intervention
- Software feedback provides real time diagnostic information of the pump's operation
- SSED - Software Source Empty Detection
- Significant reduction in waste during fluid change overs and PMs

Dual trigger capability allows for pre-dispense and process dispense volumes. Each can be individually programmed.

In addition, you'll find the benefits of dependable, trouble-free operation. IDI's modular design of the M600 allows for the quick and easy separation of the entire pump chamber assembly from the mechanical portion of the pump. Efficient maintenance can be performed without breaking into the fluid path of the pump, thus eliminating the risk of introducing air into the lines.

Using the Model 610 HVP ensures that you'll be using the most well designed and technologically advanced high viscosity dispense unit in the industry.

## CYBOR

INTEGRATED DESIGNS, LP

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# Introducing a Breakthrough in High Viscosity Chemical Dispense

## The CYBOR Model 610 HVP

### Features:

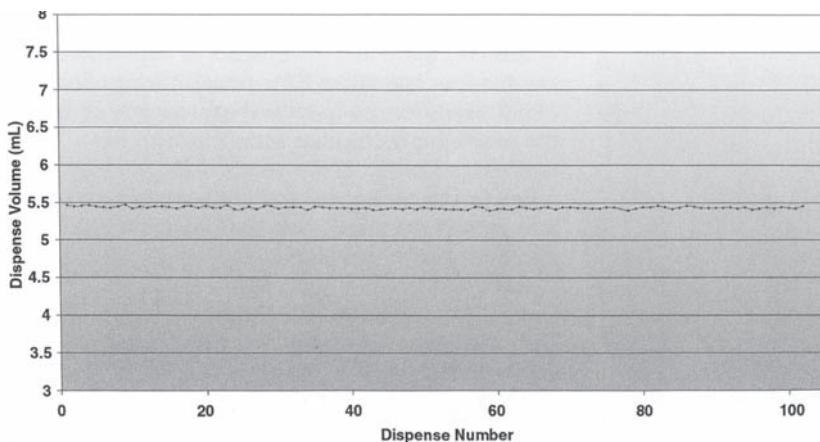
- Variable Rate Dispense
- Teflon enclosed seamless diaphragm pump chamber eliminates the need for hydraulic fluid and O-rings, reducing the possibility of contamination due to wear of moving parts
- Patent pending technology
- QuickPurge & QuickPrime features
- Straightforward design with a minimal number of fittings
- All Teflon fluid path
- Built-in leak detection
- CE certified
- Eight recipe select capability
- Discreet Wire or RS232/485 Recipe Selection
- Programmable suckback
- SSED - Software Source Empty Detection
- Optional filtration system
- Software feedback of real time diagnostic information
- Automatic setup
- On-board controller
- RS232/RS485 communications to host computer
- Windows/Windows NT software
- Programmable auto vent

### Model 610 HVP DATA SHEET

Dispense Volume Range	0.1-20 ml
Dispense Volume Repeatability	<0.1 ml (at 3
Dispense Rate	0.01-10 ml/sec*
Viscosity Range	Up to 50,000cP (500P)
Dispense Pressure Range	Up to 190 psi
Re-circulation	Programmable (<= 20 ml)
Dispense Mode	Constant or variable rate
Suckback Volume	0.1-10 ml
Purge Volume	60 ml
Purge Time (average)*	2 hrs
MTBF	>1,000,000 dispense
MTTR	< 2 hrs
Certification	CE
Input Voltage	24 VDC, 5A Maximum
Inlet Gas Type	Nitrogen or CDA
Exhaust	0.75 cfm
Fluid Path	All Teflon
Chemical Compatibility	Polyimides, Solvents, Resists
Size: 0.5" version	15.25"L x 5.46"W x 8.56"H
0.375" version	15.25"L x 5.46"W x 7.5"H
Filter Option	Pall or Mykrolis (5"/40 stack)

\* Dependent on one or more of the following variables: output line length and diameter, chemical viscosity, dispense pressure and time.

### HVP M610 Repeatability (Repeatability: 0.047 at 3 Sigma)



Specifications subject to change without notice. US Patent 6478547, Taiwan Patent, 146865; Other Patents Pending.  
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*The Easy Choice...  
For Chemical Management Solutions*



**CYBOR**

by

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