



Analytical
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VERSATILE HPLC AUTOSAMPLERS

compact,
easy to use autosamplers from
HTA, the innovative
automation
provider





HPLC AUTOSAMPLERS



The HTA HT 300L autosampler offers superior reliability and performance for all common HPLC applications.

The sophisticated system will improve the productivity of all HPLC laboratories.

The HPLC autosampler is designed to operate with most common HPLC instruments; it is easy to use and robust in operation.

Furthermore it can be configured with a range of tray sizes and injection volumes to offer flexibility and versatility to the HPLC user.

The HPLC autosampler offers many advantages to HPLC users wanting to upgrade their HPLC systems:

- compatible with most common HPLC instruments
- small footprint- saving valuable bench space
- sample tray can be mounted on the left or right of the autosampler- allows maximum flexibility in installation
- tray capacity 10 or 110 2ml vials, or 40 10ml vials
- syringe sizes 1, 10, 25, 50, 100 or 500ul for standard version
- syringe sizes 1 or 10ml for large volume version
- 70ml syringe size option
- variable injector depth for use with vial inserts
- swivel head design frees injection port for manual injections
- simple programming via front keypad or external PC
- up to 10 different methods can be stored
- the filling speed of the syringe can be varied to optimise for different sample viscosities
- direct syringe injection eliminates tubing, reduces carry over and improves reproducibility





Large Volume Samples

For those analyses where large sample volumes are needed, a large volume autosampler is available. This allows volumes of up to 10ml, and can accommodate 40 samples. This is ideal for semi preparative HPLC or small volume flash chromatography applications.

For even larger volumes, there is a very large volume model for samples up to 70ml.

This is ideal for preparative or flash chromatography applications

Sample Injection Accuracy

Autosamplers make life easier for the analyst by allowing unattended operation of the chromatography system. However, they are only of use if they can be relied upon to constantly deliver accurate and reproducible injection volumes.

The HTA autosamplers have been designed and extensively tested to ensure that they can deliver this key need. The autosamplers do this by:

- precision syringe injection offering accurate full or partial loop fill
- Pull up strokes to eliminate air bubbles in the syringe during loading
- Programmable viscosity delay means that the autosampler can be optimised for most routine samples

The HTA autosamplers offer ease of programming using either the simple keypad on the front of the instrument, or via the Comsoft PC software.

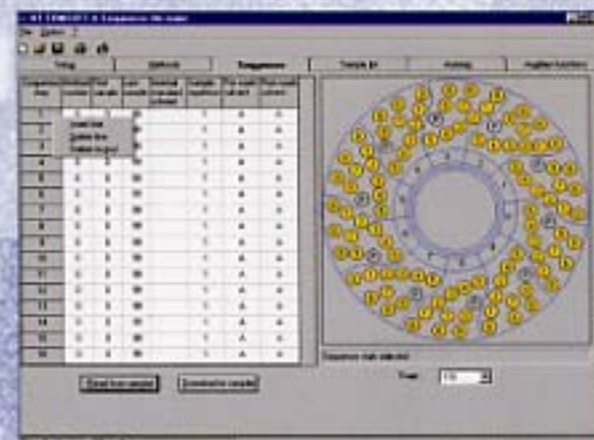
Graph showing the excellent linearity of the HT300L. To test the linearity of the system 4 samples were injected and the total areas calculated to measure the injection volume. The sampler shows excellent linearity (0.999999) in the range tested.



Autosampler program options

- number and volume of pre-washes
- number and volume of post-washes
- pre-wash mode- after every injection / sample or step
- post-wash mode- after every injection / sample or step
- number and volume of flushes of injection port
- syringe wash emptied into loop or to waste
- derivitisation volume and time
- sample volume
- injector fill speed
- number of pull up strokes
- viscosity delay
- injection speed

Comsoft is a graphical user interface for programming the HTA autosamplers. It can be used to set up and store method and sample sequences, generate sample lists, print autosampler parameters





HPLC AUTOS



HT300L System Specifications

Specifications	Syringe Sizes	1, 10, 25, 50, 100, 500 ul (standard version) 1 or 10ml (large volume version) 70 ml (very large volume version)
	Tray capacity	10 or 110 2ml vials, 40 10ml vials
	Standard deviation	0,8%
	Cross Contamination	Less than 0,025%
Syringe washing	Volume	Steps of 0.1ul
	Mode	Every injection, sample or step
	Washes	Up to 15
Loop washing	Volume	Steps of 0.1ul
	Washes	Up to 15
Washing with sample	Volume	Steps of 0.1 ul
	Mode	On waste vial or on loop
	Washes	Up to 15
Filling	Sample volume	Steps of 0.1ul
	Fill speed	0.1 100 ul/sec
	Air bubble removal	Up to 15 pull up strokes
	Viscosity delay	0 to 15 sec
Injection	Injection Speed	0.1 to 100 ul/sec
	Dwell time	Pre/post injection 0 to 99 sec
Derivatisation	Volume	Steps of 0.1ul
	Time	0.1 to 25min
	Repeats	Up to 15
Dimensions	L 600mm, H 520mm, D 400mm, Wt 13kg	

HTA is currently focused on applications and solutions for analytical chemistry and life science automation. Our latest products include robotic systems for sample handling and preparation in the following fields:

- life science automation
- laboratory automation
- analytical instruments

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HTA - the company

HTA is an Italian design and engineering company, based in Brescia. HTA design and manufacture scientific instruments, military equipment and industrial automation. It is currently focused on applications and solutions for analytical chemistry and life science automation. In addition, HTA offers engineering consultancy services for research, development, pre-production and manufacturing.