

Custom GC Autosampler

We have the autosampler to fit your needs

HTA's GC autosampler offering is the **widest and the most complete in the market**: we offer seven models to answer different needs in terms of injection techniques - standard liquid injection, headspace or solid-phase microextraction (SPME) - and sample capacities - from 15 to in excess of 200 samples.

Despite our wide range, **we recognize that laboratories occasionally have needs that do not find an answer in the standard autosampler models offered by HTA or their GC manufacturer.** In the past - when those special needs arose - laboratories were obliged to perform manual injections or to opt for expensive and complex all-in-ones autosamplers that - besides offering the required automation - include and charge for functionalities that are not needed. Now we offer you the final and most effective solution for your custom needs: a custom autosampler!



HTA's custom autosamplers offer **affordable pricing and the same level of robustness and reliability of a standard autosampler.** In fact, our autosampler platforms (HT2000, HT3000, HT4000) have been designed to allow us flexibility in accommodating many different requests and customizations - both hardware and software - without any major effort. Furthermore, our LEAN production system - based on cellular manufacturing - allows us to generate product variety.

Learn below how we can customize your autosampler.

HEAT, COOL OR VORTEX

Your GC autosampler can be customized to execute simple sample preparation tasks before the injection, according to your specific needs.

You may need to heat the sample to a certain temperature (for example, because it is a necessary condition for a chemical reaction). In this case, the **vial heater** module can be integrated into your autosampler: the sample is transferred into this module and the reaction can then take place.

Furthermore a **vortex station** can be included in your autosampler to perform effective mixing of samples and standards, to assist solubilization or to guarantee the representativeness of the injected sample.

The **whole sample rack can also be cooled** to preserve samples from thermal degradation and to avoid undesirable phase changes. The preparation of a sample can be executed while the previous sample is being analyzed, to optimize the timing and increase throughput.

RUN YOUR OWN VESSELS

The sample vessel market standard for GC autosamplers is 2, 10 and 20ml vials. However, you may consider using non-conventional sample vessels to avoid **the high cost of sample reformatting**: reduce error, reduce cost and improve throughput!

We have great experience of using non-conventional sample vessels for special applications: contact us and inquire about custom racks. By equipping your autosampler with a **custom rack**, you will be able to run the sample vessels as they come from your production line or sample preparation process.

If the volume of your sample vessels is larger than standard, you may also need a higher solvent capacity and a consequently higher waste capacity. Also in this case we can meet your needs offering you a solution including **larger solvent and waste reservoirs.**



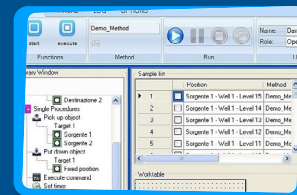
Vortex-Heater station



Infinite waste & nozzle for large solvent requirement



Transfer line



HTAPREP - Lab Automation software

FLOW CELL

Collect your sample directly from the line through the use of a flow cell. You will then be able to inject your sample at timely intervals into your GC or GC-MS system. You may also consider collecting samples from the line, injecting part and storing the remainder in a vial as double in case further tests are needed.

SIMULTANEOUS INJECTION FOR SIMDIST & OTHER APPS

Like in a synchronized swimming duet, our autosamplers can be used – without

modification - to perform simultaneous injections. You need to equip your GC with two autosamplers and to source a special mounting kit that allows for double-autosampler installation: you may use any combination of HT3000A, HT3100A or HT3200A units. For extended throughput, each autosampler has its own sample rack: therefore, you are able to inject the same or a different sample at a given time. The two autosamplers will collect the sample, then wait for each other, before performing the injection at the same time in the two different inlets. No Data System modification is required.

Please note that due to GC mechanical

constraints, the simultaneous injection mounting kit is only available for a limited range of GCs.

RUN THE MOST COMPLEX EXPERIMENT WITH HTAPREP

HTAPREP offers liquid handling and sample preparation without compromise. HTAPREP is the smartest software in the industry, supporting any complex method you could imagine. Check the HTAPREP brochure to learn more. Complex liquid handling routines and sample preparation techniques can be automated in a very convenient way.

Why you should refrain from buying complex all-in-ones autosampler platforms when a special functionality is required?

You don't want a Swiss Army knife when a good sharp blade is all you need, and vice versa. That's the general consensus of industry equipment experts.

Know Your Need. "Given the significant capital investment buying equipment now represents, you should only purchase what you truly need." Okay, so how do you know what you truly need? "First you need to know who you are, and possibly who you want to be", "When you are evaluating, don't just think about how can I do more of the same", "Really think HOW IT may make your whole operation easier, faster and more cost effective."

Evaluate All Your Options. In the end, this approach to evaluation should enable you to articulate what you need, and more importantly, why you need it. That brings us back to the original premise: you don't want a Swiss Army knife when a good sharp blade is all you need, and vice versa. Buyers are advised to ask themselves, "Do I need everything this particular piece of equipment can do?" You're going to pay for all of those features, even if you don't need them. Sometimes a simple problem only requires a simple solution.

Buy HTA with confidence: our specialists will not oversell you; they will recommend the product that better fits your needs.



HTA s.r.l.

via del mella, 77-79 - 25131 Brescia - ITALY
T: +39 030 3582920 - F: +39 030 3582930
www.hta-it.com | info@hta-it.com



Distributed by: