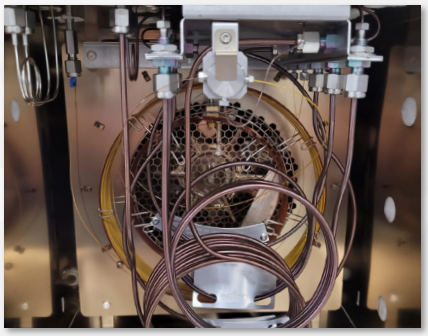
SCION INSTRUMENTS

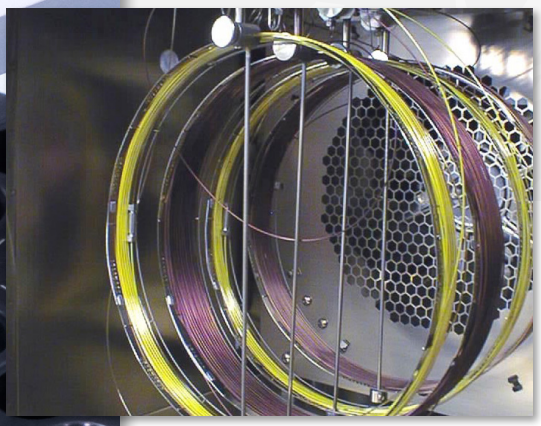
A Techcomp Company











CUSTOM GC SOLUTIONS

BESPOKE SYSTEMS

Custom designed and set up to meet your specific needs

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INTRODUCTION

SCION INSTRUMENTS DESIGN AND MANUFACTURE A RANGE OF GAS CHROMATOGRAPHY AND MASS SPECTROMETRY INSTRUMENTATION FOUND AT THE HEART OF COMPLEX ANALYTICAL SOLUTIONS IN EVERY INDUSTRY, WORLDWIDE.

Our core GC platforms (SCION 8300 GC & SCION 8500 GC) are uniquely designed to enable extensive flexibility and combined with our in-house expertise and experience, this makes SCION your ideal partner to deliver a fully pre-configured system ready to meet your specific needs.

Work with SCION to create your own specific Custom GC Solution

SCION has been working closely with customers to deliver customization solutions for many years, across a wide range of industries all with varying needs.

Our pedigree in delivering custom GC solutions dates back to our Varian legacy stretching back 25 years. And since we manufacture our Gas Chromatography instruments at our headquarters in Netherlands, we have full control over system design and integration. Here we have dedicated resources with extensive experience and expertise in designing and producing Custom GC Solutions to meet specific analytical requirements.



Working with us will accelerate the specification and development of your specific GC system, saving you time and money.

Custom GC Solutions

When a Standard Method GC System does not meet specific needs, or if you need something completely different, SCION can work with you to specify and produce a Custom GC Solution:

- Custom GC Solutions to meet the needs of different industries
- Custom GC Systems that are configured and tested per specific customer requirements
- Configuration provided via custom factory modification
- Complete performance testing performed by factory in accordance with customers' request
- No need for you to do method development/ optimization*
- No setting up a new system with columns for the first time or making an application
- You get the system fully set up and designed to meet your specific needs
- Making it easy to use and robust

* This is an additional service, please speak to your local sales representative



Example Standard Method GC System – RGA Analyzer

WHY CHOOSE A CUSTOM GC SOLUTION?

REDUCE YOUR COST PER ANALYSIS WITH A CUSTOM GC SOLUTION:

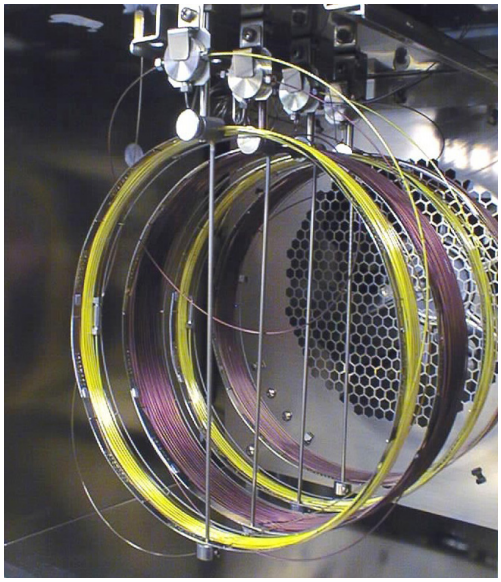
Typical Additional Value

- Simple set-up for easy operation and maintenance
- Analysis with GC method / method development
- Full solution documentation provided, including tuning manual and trouble shooting
- Pre-installation requirements satisfied
- Test results provided
- All drawings included
- Demonstrated analysis with set standards and the option of testing with your own samples on your system as part of the factory acceptance procedure*
- Provide you with a fully pre-configured system ready to meet your specific needs
- Delivering the accuracy and precision you require
- Providing you with automated analysis
- Saving you time and achieving greater throughput
- Deliver multiple applications in one Custom GC
- Providing automated injection and/or backflushing

* Requires prior agreement and specification in the custom configuration proposal

Here are just some examples of Custom GC Solutions we have successfully provided to previous customers:

- Gas purity analysis: sub ppm level determination of permanent gases in high purity hydrogen, helium, nitrogen, food-grade carbon dioxide etc
- Extreme low level (ppt) determination using SPT; environmental applications
- Sample storage/analysis using multi-stream-selectors
- Ammonia analysis
- Chlorine analysis
- Sour gas analysis systems



View inside the oven; four columns with backflush capabilities

THE CUSTOMIZATION PROCESS

SCION INSTRUMENTS HAVE DESIGNED AND DELIVERED CUSTOM GC SOLUTIONS FOR CUSTOMERS WORLDWIDE.

We have the ISO 9001 Quality Management processes in place to ensure a smooth project, with highly experience technical sales and a dedicated custom solutions engineering department located at our manufacturing headquarters in Goes, Netherlands.

Building on our world class SCION GC platforms (8300 GC & 8500 GC), we will work with you to configure and deliver a solution for your exact needs.

So, how do you work with us, and what does the process look like?

Describe your samples and analytical objectives to us

You can start the process now by completing the Custom GC Solution specification form on **www.scioninstruments.com**

Working with your sales specialist, we will help you further define your specific analytical requirements

When the proposal is accepted we will build a system to meet your objectives

To complete your Custom GC Solution (if required) we can also develop your method and demonstrate the performance according to your specifications prior to shipment

Optional factory acceptance testing where you can visit the factory to see your system performing in the factory before it gets shipped

We arrange shipping of your Custom GC Solution, installation, and any onsite validation (meeting any customer specific analysis requirements)

We can also train your staff on your new Custom Measurement GC Solution and methods

We will then propose a custom system design (including testing requirements), tailored to your specific needs

The Custom Configuration Proposal will include a quotation, system configuration, parts listing, a description of the Demonstrated Analysis that needs to be developed, and timescales for delivery and installation

SCION CUSTOM PLATFORM (8300 GC & 8500 GC)

SCION 8300 GC Gas Chromatograph

The ideal gas chromatograph for many applications that saves space without compromise on performance, productivity and functionality. Capacity for 2 injection ports, 1 GC detector plus a mass spectrometer makes the SCION 8300 GC a perfect match for your analyses.

Highlights:

- Compact footprint of only 32 cm (12.6") wide
- Fast ramping oven (170°C/minute)
- Two channel architecture, with up to 2 injection ports and 2 detectors (including MS)
- 10" High resolution full-color touchscreen, 16 languages supported
- Electronic flow control (EFC), 3 channels 0.001psi resolution
- Full automation capabilities through CompassCDS software and autosampler

SCION 8500 GC Gas Chromatograph

The SCION 8500 GC is versatile and offers flexibility. Supporting three injector and four detector positions (including the mass spectrometer) with full independent access, no other gas chromatograph system provides this capability. SCION 8500 GC is the ideal platform for a wide range of applications.

The perfect GC for any analytical challenge due to the wide array of options for configuration.

Highlights:

- Ultimate flexibility/configurability.
- Fast ramping over (150°C/minute)
- Three channel architecture, with up to 3 injection ports and 4 detectors (including MS)
- 10" High resolution full-color touchscreen, 16 languages supported
- Electronic Flow Control (EFC), up to 21 channels at 0.001psi resolution.
- Flexibility to add samplers, valves, valve oven, backflush and column switching capabilities, etc. Programmed and controlled through CompassCDS



The SCION 8300 GC

The SCION 8500 GC

AUTO SAMPLERS | COMPASS CDS SOFTWARE

8400 Pro and 8410 Pro

Regardless of sample type or throughput, there are two autosampler options (8400 Pro and 8410 Pro) to meet your requirements for accuracy & precision. Each can be tailored to meet specific sampling needs and workloads. Third party samplers for Thermal Desorption and Purge & Trap are easily integrated.



8400 Pro Autosampler

8410 Pro Autoinjector

Highlights:

8400 Pro Autosampler

- Capacity: 100 x 2 ml vial sample capacity
- Wide variety of syringes

8410 Pro Autoinjector

- Capacity: 10 x 2ml + 6 x 5ml + 5x 10ml vials
- Flow-through cell for continuous sampling

Both variants offer:

- Dual injection access
- Dual or duplicate injection capability
- Three solvent wash
- Sample tray heating or cooling
- Large solvent vial, Flowcell, SPME options



Compass CDS - Powerful and user friendly data system

Compass CDS is an industry-proven, feature packed and user friendly networked chromatography data system. This software solution has been developed throughout the last 20 years in response to the requirements of our customer base. Providing an application and information-rich user interface, it is also uniquely customizable. Intuitive, easy-to-use, CompassCDS provides laboratory staff with a powerful tool for a variety of operations in different analytical fields

Highlights:

- User friendly, intuitive and information-rich user interface
- Application-specific plug-ins and add-ons
- Extended custom calculations and reporting
- Multi-vendor GC and LC instrument control
- Scales from local workstation to enterprise-wide client/server installations
- Robust design for 24/7 operations
- Secure, centralized system administration and data management
- Secure, highly configurable and support redundancy
- Seamless integration with LIMS, ELN, LES, SAP/ERP, SCADA/PCS using the Sample Streamer
- Optimized for virtualized environments
- (VMWare, Hyper-V) and MetaFrame rollouts (Citrix, Window TS, RDP)
- Complies to national and international regulations and guidelines (21CFR11, ISO/IEC 17025)
- Custom variables
- Custom report templates

SERVICES & SUPPORT

Application Specific System Solutions

SCION Instruments is unique in our capability to deliver customized solutions to meet your specific analysis requirements.

At the heart of our custom solutions are the versatile 8300 GC/ 8500 GC gas chromatography instruments, which we design and manufacture at our own production facility in Goes, Netherlands. These high performance building blocks are designed to enable extensive customization. Choose from a wide variety of samplers, valves, valve oven, backflush and column switching capabilities. They can also be paired with our 8700 SQ MS / 8900 TQ MS mass spectrometry instruments, and with a range of autosampler solutions.

We have more than 50 standard, pre-configured systems available to meet a wide variety of applications, such as SIMDIST, DHA, RGA and others – built and tested - and ready to meet your analytical needs right out of the box.

And we can tailor a system solution specifically for your unique requirements, building and testing to meet your specific analytical challenges.

Our knowledgeable and highly qualified field staff can help you specify the exact system for your needs, and give you all the support and confidence you need to deploy this in your laboratory and start making immediate progress.

Service and Support Plans

To provide you with security and peace of mind for the future, we also offer a wide range of service and support plans to make sure your operations keep performing for years to come. Our support and maintenance teams are located globally, and are ready to help.

GET STARTED TODAY

Begin the journey towards specifying your own Custom GC Solution by scanning the QR code and completing the online enquiry form.

This will help you start the specification process, and one of our specialist support colleagues will then contact you personally to discuss your requirements in more detail.

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