

# **GIBNIK**

**ANALYTICAL SOLUTIONS**



## **ANALYTICAL SOLUTIONS**

R+D, QUALITY CONTROL, EDUCATIONAL TRAINING

Environment

Food

Life Science

Petrochemicals

Pharma

Forensics



Air and water

Beverages

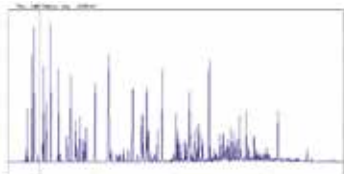
Metabolomics

Ind. Chemicals

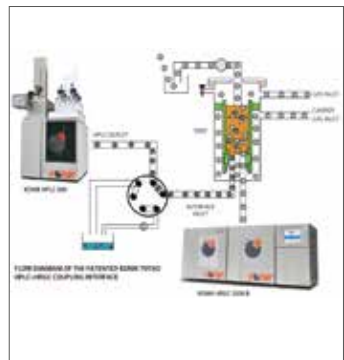
Nutraceuticals

Toxicology

# ABOUT GIBNIK



**Gas Chromatography and HPLC** are the most widely used analytical instruments in modern labs, either as stand alone, or combined to Mass Spectrometry, namely as **GC-MS, HPLC-MS** or tandem **MS-MS**.



**GIBNIK's core business** is the specialized global marketing of the latest generation of **Gas Chromatographs, HPLC, IC Ion Chromatographs, GC-MS, HPLC-MS** and the, patented and innovative, **Multidimensional HPLC+GC and HPLC+GC-MS** systems that complement nicely tandem MS-MS as allow target as well as non-target analytes determination while simplifying sample preparation. In addition GIBNIK is continuously expanding its range of specialized supplies and accessories used in Gas Chromatography, HPLC, IC, Mass Spectrometry, other **Spectroscopies (AAS, UV-Vis,...)**, **Sample Preparation Robotics, and the Vacuum and UHV products** used in KONIK Mass Spectrometers.



**Innovation, Performance, Quality, and Customer Technical Support** define the permanent values at **GIBNIK**. Value is enhanced by competitive pricing, and measured continuously by the growing satisfaction of customers, who entrust GIBNIK to satisfy their analytical needs in more than 100 countries. KONIK instruments are used in analytical laboratories worldwide, where they are known for quality, performance, ease of use and effective after sales support.



**GIBNIK is its people!** Everyone in the Company, up to the Directors, have a life long enthusiastic dedication to the development and innovation of **Analytical Instrumentation**. Hence GIBNIK activities are geared to the continuous development of chromatography and **Patented Multidimensional HPLC+GC and HPLC+GC-MS** platforms for comprehensive determination of target as well as unknown analytes. HPLC+GC-MS constitutes by itself one of the most powerful analytical platforms ever developed (please see LC-GC, [www.chromatographyonline.com](http://www.chromatographyonline.com), The Column, October 8, 2010).



**The Scientific and Corporate Development Team of GIBNIK works closely with Distributors and End Users** in key areas such as to Simplify Sample Preparation, Shorten Analysis Time, Improve Selectivity, Reduce Detection Limits, Lower all Costs, Improve Logistics, Shorten Delivery, Extend the Life of KONIK Analyzers, Upgrade Them, Train and Specialize End Users and Distributor's Staff and Ultimately Generate a Pleasant, Rewarding and Happy Personal and Professional Relationship.



GIBNIK has become the only European company with a comprehensive product programme inclusive of all those techniques. **KONIK Krom+Mass®** is the registered trade name of GIBNIK applied to the instruments designed and manufactured by the Company.

**Be part of the GIBNIK team!!**

## HISTORICAL TRACK RECORD OF PIONEERING INNOVATIONS AND TECHNOLOGICAL BREAKTHROUGHS OF THE GIBNIK TECHNICAL TEAM

**1978** WORLD'S FIRST PURPOSELY DESIGNED GC FOR CAPILLARY COLUMNS



**1985** WORLD'S "STATE-OF-THE-ART" FIRST ISOKINETIC LOW PRESSURE GRADIENT MIXING HPLC WITH BUILT IN OVEN AND COLUMN/DETECTOR SWITCHING



**1989** WORLD'S FIRST TIGHT/SEPTUM PURGE-FREE CAPILLARY INJECTOR FOR GC



**1993** WORLD'S FIRST LOW INERTIA FAST HEATING/COOLING GC OVEN



**1997** WORLD'S FIRST MULTIMODAL AUTOSAMPLERS FOR P&T, HS, SPμE, TD, GC AS, HPLC AS ... ALL IN ONE



**2002** PROTOTYPE OF FIRST DIGITAL MULTIMODAL QUAD MS



**2004** WORLD'S FIRST REMOTE CONTROL FULLY DIGITAL, QUADRUPOLE GC-MS



**2005** WORLD'S FIRST PATENT OF THE TOTAD HPLC+GC/ MULTIDIMENSIONAL COUPLING INTERFACE



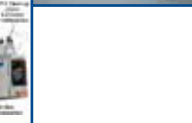
**2006** WORLD'S FIRST PATENTED MULTIDIMENSIONAL HPLC+GC AND HPLC+GC-MS



**2007** WORLD'S FIRST VARIABLE ANGLE ESI/APCI ION SOURCE FOR HPLC-MS



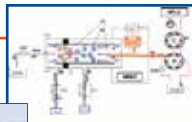
**2010** WORLD'S NEW STATE-OF-THE-ART GC 5000 B, HPLC 600 AND MS Q12 PURPOSELY DESIGNED FOR GROWTH TO MULTIDIMENSIONAL HPLC+GC, AND HPLC+GC-MS



**2010** WORLD'S FIRST ON-LINE DERIVATIZATION SYSTEM FOR POLAR COMPOUNDS



**2011** WORLD'S FIRST PATENTED ABSOLUTE/UNIVERSAL QUANTIFICATION SYSTEM



**2014** INNOVATIVE LOW COST DEDICATED HPLC-MS KONIK Q4 HPLC-MS



**2015** INNOVATIVE ION CHROMATOGRAPH KONIK IC 590 PLUS and KONIK 580HPLC

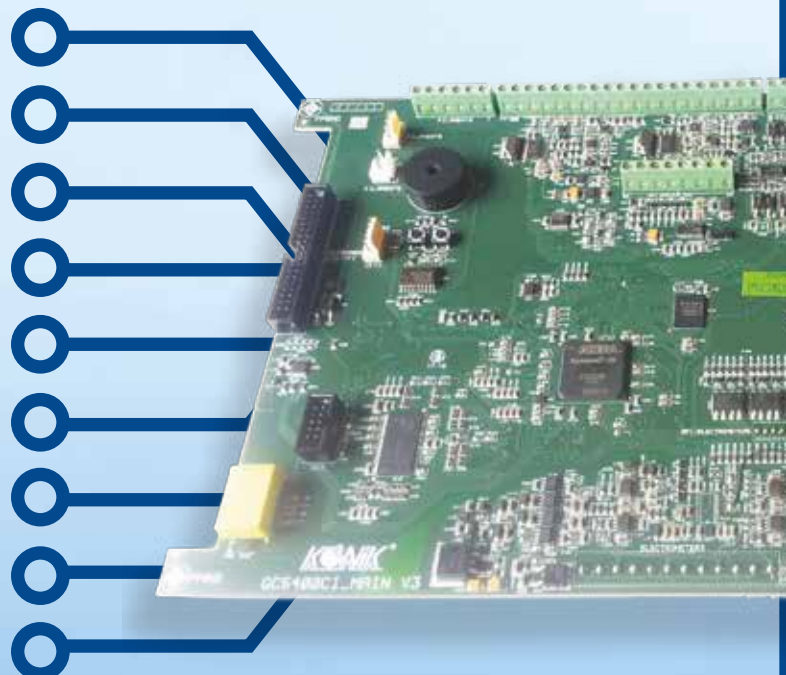




**THE**  
QUALITY OF  
RESEARCH & DEVELOPMENT  
EDUCATIONAL

## **THE PRODUCTS**

- GC & GC-MS
- HPLC & HPLC-MS
- ION CHROMATOGRAPHY
- HPLC+MS & HPLC+GC-MS
- SAMPLE PREPARATION
- MULTIMODAL ROBOTICS
- DATA SYSTEMS
- CONSUMABLES
- VACUUM & UHV



**PROPRIETARY & PATENTED DESIGNS**



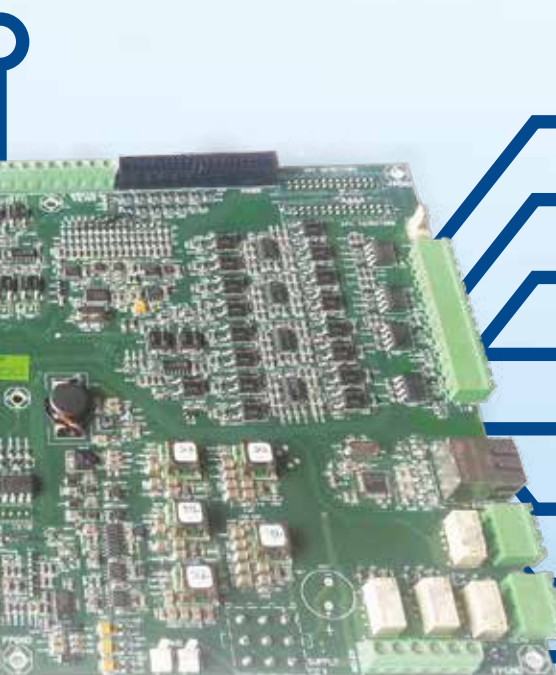
**THE ADVANTAGES**  
SIMPLIFY/ELIMINATE STEPS  
LOWER DETECTION LIMITS  
REDUCE OPERATIONAL COSTS  
FASTER ANALYSIS AND RESULTS  
WIDEN SCOPE TO TARGET ANALYTES  
TURNKEY ENGINEERED "TOTAL SOLUTION"  
UNLIMITED MULTIDIMENSIONALITY  
PERSONALIZED ENGINEERING

## **FOCUS**

CONTROL  
DEVELOPMENT, AND  
ANALYTICAL TRAINING

# **GIBNIK**

**ANALYTICAL SOLUTIONS**



## **THE MARKETS**

- FOOD
- PHARMA
- ENVIRONMENT
- METABOLOMICS
- PETROLEUM
- FORENSICS
- ENERGY
- LIFE SCIENCES
- PHYSICS & NANOTECHNOLOGY

**SPECIFIC SOLUTIONS for EACH APPLICATION**

## **ADVANTAGES**

SAMPLE PREPARATION  
DETECTION LIMITS  
REDUCED OPERATIONAL COST  
AND BETTER SELECTIVITY  
TO IDENTIFY TARGET AND UNKNOWN  
"CUSTOMER TAYLOR MADE" SOLUTIONS  
FLEXIBILITY AND MODULAR EXPANDABILITY  
AND USER TRAINING



# GIBNIK PRODUCT LINES



**GAS CHROMATOGRAPHY:** The KONIK 5000 is the 12th generation of GCs being perfected since 1978 by the GIBNIK Technical Team. The 5000 C is the only one GC in the world purposely designed for Multidimensional HPLC+GC and "turn-key purposely engineered multivalve systems" (RGA, NGA, PONA, PIANO, TOGA, Biofuels, ...) complying to ASTM, USP, ... norms.



**GC AUTOSAMPLERS AND SAMPLE PREPARATION ROBOTICS:** KONIK ROBOKROM developed in 1986 are the perfect multimode / multifunction XYZ auto sampler and autoinjector and HS, P&T, SPmE, ... A low cost XY (two axes) ROBOKROM has been recently introduced for a lower number of samples and utmost reliability and performance in all modes.



**GC-MS:** After more than 10 years representing VG, the GIBNIK Technical Team, in cooperation with former French Ribier and Nermag specialist, developed an innovative MS that has set the bases of a the new generation of KONIK high sensitivity EI/CI MSs. The new Q2 is designed for smaller foot print and less bench space, optimum performance, robustness, easy of use and overall lowest costs. Can be upgraded to HPLC+GC-MS.



**HPLC:** The new KONIK 580 HPLC is the fifth generation of low pressure gradient forming systems after the pioneer KONIK 500 launched in 1985. Robustness, compactness, modularity, multidimensional HPLC+GC options and upgradability with attractive price/specifications are the key features of this laboratory workhorse. A wide range of detectors are available



**HPLC-MS:** The drive here has been to bring to the market the Q4 HPLC-MS as high performance, low cost, fast scanning, compact with a variation of sources: ESI/APCI/ASAP and wide flows and mass range to 2000 m/e.



**ION CHROMATOGRAPHY:** With the new 590 IC Plus GIBNIK has introduced a high sensitivity anion and cation analyzer with innovative suppression technology. All KONIK ICs are delivered as "turnkey systems" for the group of ions of interest in the chosen matrix.



**MULTIDIMENSIONAL HPLC+GC AND HPLC+GC-MS:** This is a new concept of universal analyzer that allows target as well as non-target analytes determination, while minimizing or even eliminating tedious sample preparation steps. These systems are also supplied as "total engineered packages" with tailor made turnkey solutions at customer request.



**SPECTROSCOPY AAS, UV-VIS, IR, NIR, FT-IR, FRX, ...:** To complementing GIBNIK core business in organic and ion analysis a wide range of Spectroscopic and other analyzers (CFA, FIA, ...) are under development in cooperation with other focused and specialised manufacturers. Please inquire.



**CONSUMABLES FOR CHROMATOGRAPHY AND SPECTROSCOPY:** GC and HPLC Columns, syringes, filters, vials, fittings, calibration standards, derivatization reagents, lamps, ...are available under an "stocks on time" and "smart low cost logistics" policies.

**VACUUM AND GENERAL LABORATORY EQUIPMENT:** We offer a wide range of vacuum products used in the manufacturing of our own Mass Spectrometers, as well as General and Special Laboratory Equipment of optimum price/specifications, from over 100 reputed manufacturers, as a service to our Customers and Distributors.

# GIBNIK way to customer satisfaction is based on a “Zero Risk Sales Policy”.

GIBNIK Zero Risk® is framed in the following customer-company relationship procedures:

**Step 1: Clear assessment and definition of the need(s) and/or the problem(s)** (eg: Is the required equipment to be compliant to an specific norm or standard (ASTM, Pharmacopeia, OSHA, UNE, DIN, ...)? Is to be used in a particular R&D project?, Is to be a dedicated system? Do you contemplate configuration changes/extensions to cover future needs? ...

**Step 2: Professional definition and proposal of the optimum equipment configuration** in accordance of the above by GIBNIK appointed Distributors, properly supervised by the GIBNIK Technical Experts Team. If there are any doubts a feasibility study will be proposed.

**Step 3: Evaluation of the specific training needs of the End Users** so they can make comfortably use of the proposed system configuration and target methods to be used.

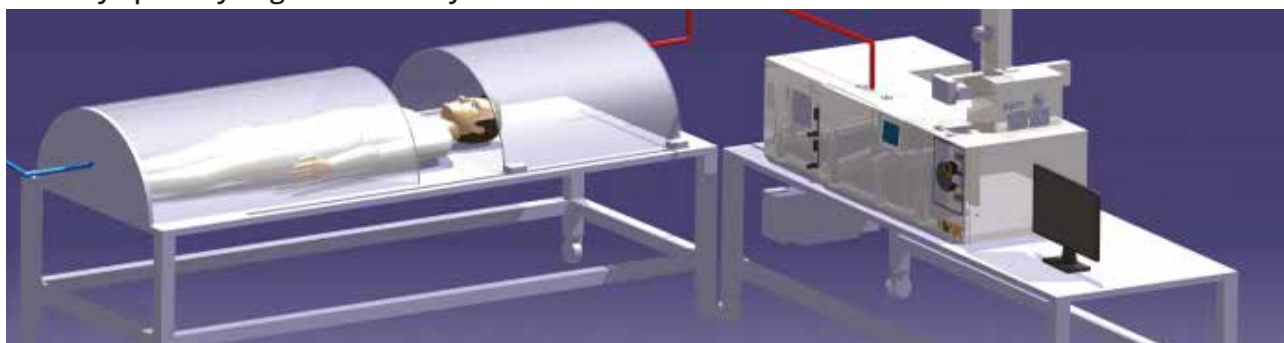
**Step 4:** Depending on all the above GIBNIK might propose an “all inclusive” package price that will encompass:

- A. Personalized training** of the End User(s) in **GIBNIK Training Centre of Barcelona**.
- B.** This will be done with their own system **prior to delivery**.
- C.** Might include **method(s) adjustment with standards for chosen analytes**, checking of any critical parameter (eg. Detection limits for any substance,...), etc.
- D. Installation and training** in the customer premises by qualified GIBNIK Engineer.
- E. Courtesy visit** (in Barcelona or in the Customer premises), in accordance of the complexity of the system purchased, in the ensuing 6 month after installation.
- F. Warranty extension and different Maintenance Service Contracts** are available.
- G.** The estimated yearly **Consumables (columns, sample filters, vials, calibration standards,..)** can be included upon request in accordance with expected number of samples to be run.

**Step 5: 24 hours support via email** with return tele or videoconference (skype) when necessary.

In addition to the above GIBNIK Special Products Department will be proud to take the challenge to develop “TurnKey Specially Engineered Analytical Solutions” based on GIBNIK core technologies and specialization. A prior feasibility study might be occasionally necessary.

## Turnkey Specially Engineered Analytical Solutions



Lay out of the “Full Body Molecular Scanner” and Metabolic Chamber being develop based on GIBNIK core technologies.

**GIBNIK cooperates with several Universities and Research Centers around the World** to contribute to the diffusion and better understanding of the GIBNIK technologies by holding regular Intensive Short Courses such as Multidimensional HPLC+GC-MS, Interpretation of Mass Spectra, On-line Derivatization to extend the application limits of HPLC+GC to non-volatile substances, Selective Detection, Characterization of New Compounds in Complex Matrix (Body fluids, foods, environment ...).

**GIBNIK welcome interested investors, as well as specific funding for particular projects.**

# GIBNIK

**ANALYTICAL SOLUTIONS... AIMING TO MAKE THE WORLD A BETTER PLACE FOR ALL!**



## Headquarters

### EUROPE, Barcelona

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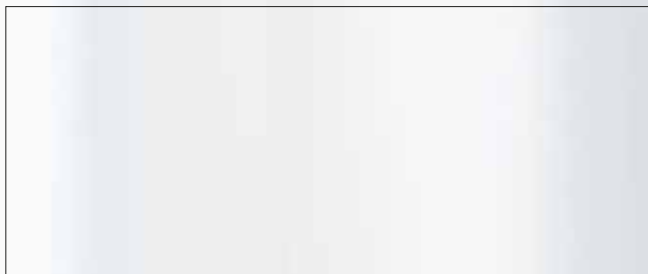
Passatge Arrahona, 33 – local 3  
P.I. Santiga Industrial Zone  
08210 Barberà del Vallès, **Barcelona**

## GIBNIK meets most quality standards

Design, manufacturing and commercialization of analytical instruments, laboratory equipment, consumables and accessories.



## Local Distributor



For more information on our products and services, please visit our website at:  
**[www.gibnik.com](http://www.gibnik.com)** or contact: **[sales@gibnik.com](mailto:sales@gibnik.com)**

## SOME CUSTOMER REFERENCES

