

SOLUTIONS FOR **ENVIRONMENTAL ANALYSIS**





AMS Alliance



MEETING THE CHALLENGES OF SUSTAINABLE DEVELOPMENT

The analytical expertise

AMS Alliance is one of the major players for analysis in the agri-food and environmental domain. This is thanks to our expertise in different complementary technologies in dedicated ranges and to our various partnerships with industrials and renowned research centers.

Today AMS Alliance can offer laboratories a wide range of modern and integrated solutions enabling them to automate their analyses whether it be for R&D, processes or quality control.

The growing awareness of the need for the protection of the planet on a world-wide scale is creating more and more rules and regulations aiming to protect the environment as well as the consumer. For example, more and more in-depth analyses of an increasing number of samples are needed in testing the quality of water with laboratories needing solutions for simple routine analyses which are cost effective and reliable. For the agricultural industries, having an in-depth understanding of the main chemical parameters means they can optimize the quality of their products and their production.

An answer for all your needs

- The analytical solutions of AMS Alliance cover more than 140 applications and 500 methods for the analysis of different types of water: drinking, waste, surface or sea water.
- From the simplest parameters (such as Nitrates and Nitrites) to the most difficult applications (as phenols, cyanides, detergents...) in all types of matrices.
- Our analytical solutions can be applied to a vast range of agricultural activities: fertilizers, plants, tobacco, cereals, soils....

Whatever your constraints, your demands or your applications AMS Alliance has a complete analytical solution including instruments, reagents, methods and services.

Our commitment

To bring you fast, simple, modular and upgradeable solutions adapted to your needs all at a competitive price, and guarantying you a quality technical support.

Our on-going innovations enable us to offer analyzers that reduce the quantity of waste to be treated to the minimum and hence, to limit the impact on the environment and on your budget.





THE RIGHT TECHNOLOGY ADAPTED TO YOUR NEEDS



Integrated Research and Development

At AMS Alliance, we invest a large portion of our turnover in R&D, to design new products and develop methods and application to simplify routine analysis and enable you to measure new parameters. We also develop very strong partnerships with universities and research centers to share their expertise and transfer their technologies into useful application.

Production and quality

Much more than a simple integrator, our own manufacturing plants located in France, Italy and USA (including a digital machining workshop) produce parts and assemble systems with a short lead time. Quality components, perfect assembly, process methods and an industrial organization which is environment friendly ensure the optimal quality and reliability of our products. All our production sites are ISO9001 certified ,as a result of our total quality management.



Applications Lab and customized developments

Water , soils, plants, tobacco... each product requires specific parameters. AMS Alliance advises you on the most adapted technique for your needs and your analytical throughput. Our hardware and software solutions have been especially designed to cover most current parameters. Furthermore, to satisfy growing demand for tailor made applications, our application laboratory is available to develop solutions which are the most suited to your needs.
New methods, new parameters, higher throughput, data treatment, integration in a specific IT environment, compliance with new standards or adequacy with sustainable development goals, our team of engineers has the experience and know-how to successfully develop your projects ... Instruments, softwares, accessories and consumables, we will develop a turn key customized solution for you.



The best Continuous Flow analysis technologies

AMS Alliance has developed automated wet chemistry analyzers, the Futura and Proxima range, based on the Continuous Flow technology (also called Segmented Flow analysis). The company is a world leader in Analytical instruments which offers state-of-the-art integrated and modular analyzers to meet the needs of laboratories which process a few samples or large volume of samples.

APPLICATIONS :
Surface, ground, drinking, waste and sea water, drinks, food, wine, soils, plants, feed, fertilizers...

ADVANCED AUTOMATION IMPROVING EFFICIENCY AND PRODUCTIVITY

- Automation of complex chemistries
- Multiple analyses up to 16 parameters simultaneously
- Choose between Micro Flow, Macro Flow, or combine them both
- Multiple accessories and modules (autosamplers, dilution, distillation, etc.)
- Very important range of parameters
- Compliance with reference methods: EPA, ISO, CORESTA, APAT,...



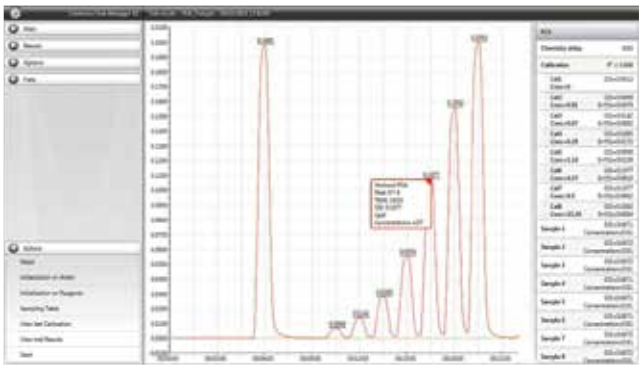






INTEGRATED MODULARITY FOR SIMPLE AND EASY ANALYSIS

- Fully automated instruments (dilutions, distillations, digestions, extractions, dialysis, start-up and more)
- Easy analytical manifold change over (Futura)
- Very low consumption of reagents
- High performance 3 speeds pump
- Integrated reagent drawer (Futura)
- Automatic handling of external modules and accessories
- New user-friendly analytical software



THE RANGE

- New Futura3: multi-parameters CFA analyzer (up to 16 consoles)
- New Futura Duo/Trio: CFA analyzer with 2 or 3 channels for combined analysis
- Futura: multi-parameters CFA analyzer (up to 12 consoles)
- Proxima: modular CFA analyzer with 5 integrated channels

New Futura Duo/Trio: 2 or 3 channels for combined analysis



With its two or three integrated channels, the Futura Duo/Trio can run simultaneously multiple parameters in parallel for combined analysis, such as Phenols + Cyanide, TN + TP or Nitrate + Nitrite.

The Futura Duo/Trio is a fully automated instrument which can analyse from 15 to 120 samples per hour by channel. The instrument is provided with a large built-in touch screen and with a new analytical user-friendly software, including pre-installed methods and manifold.



State-of-the art automated Discrete analyzers

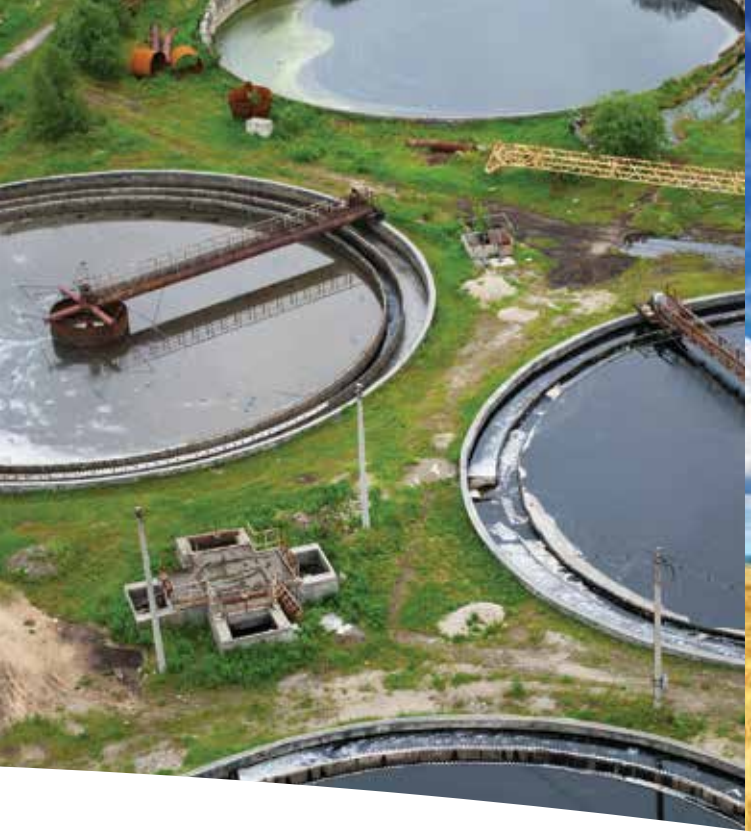
Since 25 years, AMS Alliance provides to scientists and laboratories consistent innovations to develop new analytical solutions using Discrete technology. Our high-end instruments, softwares, accessories and reagents help our customers to solve complex analytical challenges and to increase laboratories' productivity.

APPLICATIONS :
Surface, ground, drinking, waste and sea water, drinks, food, wine, soils, plants, feed, fertilizers...

HIGH PERFORMANCE DISCRETE ANALYZERS

- The first discrete analyzer to utilize a patented, dedicated sample prep module for the determination of NOx by Cadmium reduction
- A complete range of automated instruments, from 140 to 600 tests/hour
- ISE module to measure pH, conductivity and redox
- High flexibility for routine or special chemistries
- Large range of accessories
- Ready-to-use reagents for environmental analysis
- Fully automated and user-friendly instruments
- Lower running costs







DIRECT READ AND FULLY AUTOMATED INSTRUMENTS

- All analytical procedures, from working standard dilution to sample analysis, cuvette washing and system QC, are fully automated
- User friendly operating software, ASTM standard compliant, compatible with your LIMS
- Long-life cuvettes with integrated Cuvette quality insurance system
- Smartwash system to eliminate carryover during sampling
- Direct read: more simplicity and security
- Low water and reagents consumption
- Green technology



THE RANGE

- Smartchem 140 : up to 140 tests/hour
- Smartchem 170 : up to 170 tests/hour
- Smartchem 200 : up to 200 tests/hour
- Smartchem 450 : up to 450 tests/hour
- Smartchem 600 : up to 600 tests/hour

New Smartchem 600: more productivity, lower running costs and better results



Our last innovation is a fully automated, direct read, discrete analyzer to maximize productivity for routine and special chemistries, up to 600 tests/hour. The Smartchem 600 combines the latest technology in discrete analysis with an innovative and unique design that guarantees accurate and reproducible results and lower running costs.

Ready to use reagents: the best way to save time and money

REAGENTS

Developed, tested and validated by our application laboratory, these ready to use reagents will guarantee a perfect stability and reproducibility of the analysis. Bar code which includes lot number and expiration date insure a quality QC and reagent management. This ready solution greatly simplifies the preparation of the analyses, and facilitates the use and storage of reagents. It also secures the analyses with reagents adapted to each application and instrument.

- Developed specifically for the Smartchem (Discrete) range analyzers
- A full range of bar coded reagents for Environmental analysis, adapted to all parameters
- Very easy to use, they are supplied liquid, in specific bottles directly positionable in the instrument







BOD KIT

Enverdi BOD: your BOD5 results within 48 hours!



Inspired by the impressive progress in bioanalytics, AMS Alliance has developed an innovative **high-throughput technology**, which couples fluorescence detection and worldwide standard 96-well microplate format.

BOD5 (Biological Oxygen Demand in 5 days) is a critical parameter for wastewater treatment monitoring. It is used daily to control the conformity of wastewaters released from urban and industrial treatment plants.

AMS Alliance has developed and validated a strict surrogate to the reference method making it possible **to obtain BOD5 results in 48 hours** (versus 5 days) for many samples.

Sample preparation and accessories

ACCESSORIES FOR CFA ANALYZERS

- Many modules and accessories for multiplying the analyses: dilutor, UV digestion, distillation module, autoclave, flame photometer, 1uorometer...
- A large range of autosampler, from 330 to 720 samples

SAMPLE PREPARATION

Block digestor and distillation system for sample preparation.



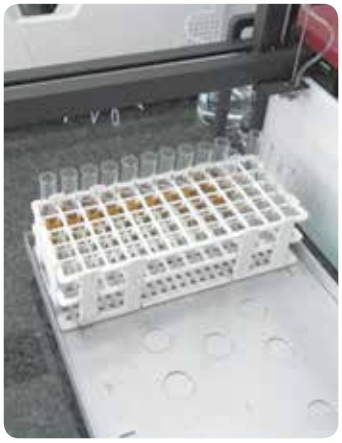
Selection Aqua: all the environmental needs

Ready to use reagents for Smartchem discrete analyzers:

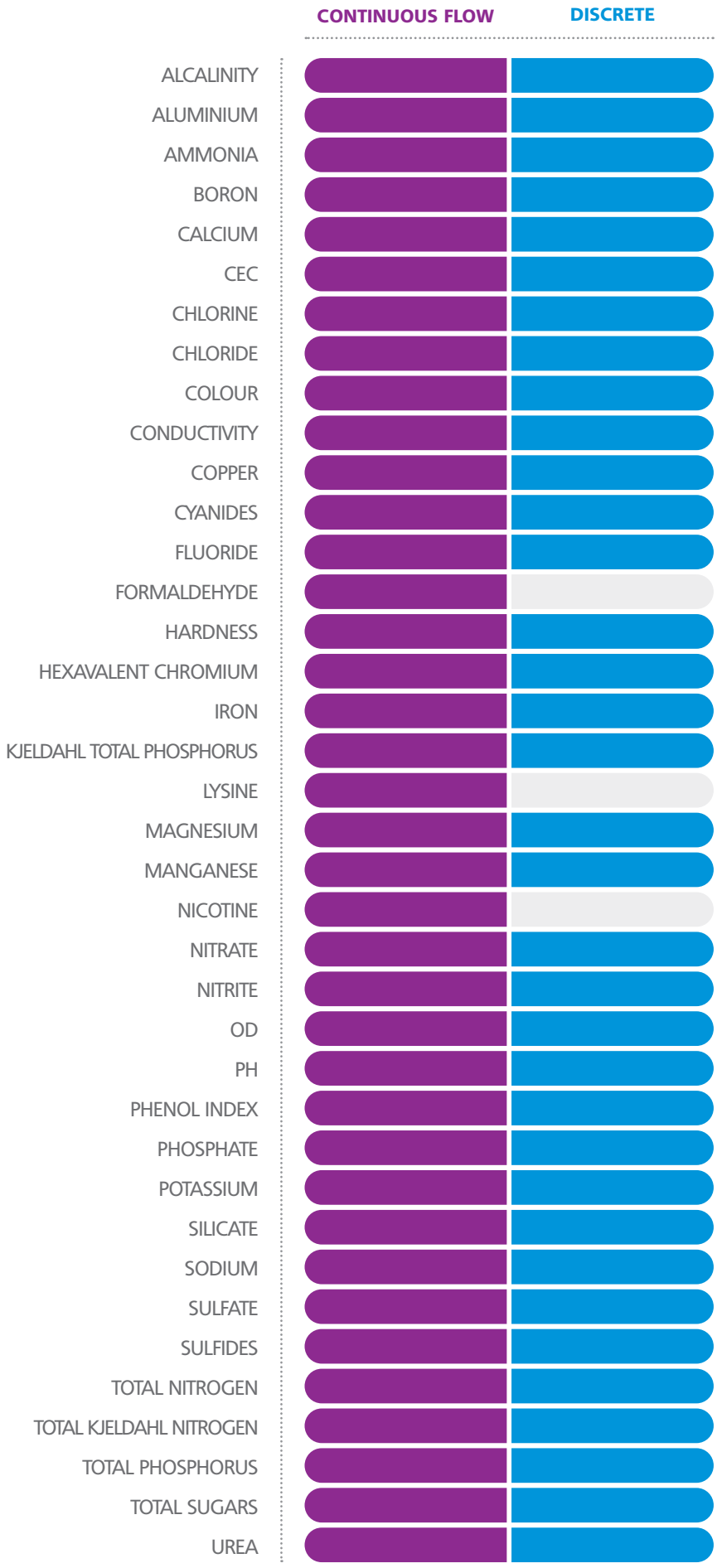
Alkalinity (MO)
Alkalinity (BPB)
Ammonia
Chromium VI
Chlorides
Fluoride
Hardness
Nitrate
Nitrite
Phosphates
Silicate
Sulfates
Total Kjeldhal Nitrogen
Total Phosphorus

Selection AQUA





MAIN PARAMETERS



This is the list of the most usual parameters, but not an exhaustive list. For specific parameters or the complete list, please do not hesitate to contact your AMS Alliance representative. Some parameters require an external pre-treatment of the sample.





MUCH MORE THAN A SUPPLIER, A COMPLETE TEAM AT YOUR SERVICE

Advice for your project from the start...

Our team will assist you in your technical choices and will be there for you:

- To present the different techniques and their importance for your needs
- To help you draw up your specifications
- To explain in detail how the machines work
- To demonstrate the repeatability, the accuracy, and the reproducibility of a method
- To familiarise you with the different functions of our software
- To give you a demonstration (on your premises or in our laboratory) illustrating the performances of our analysers

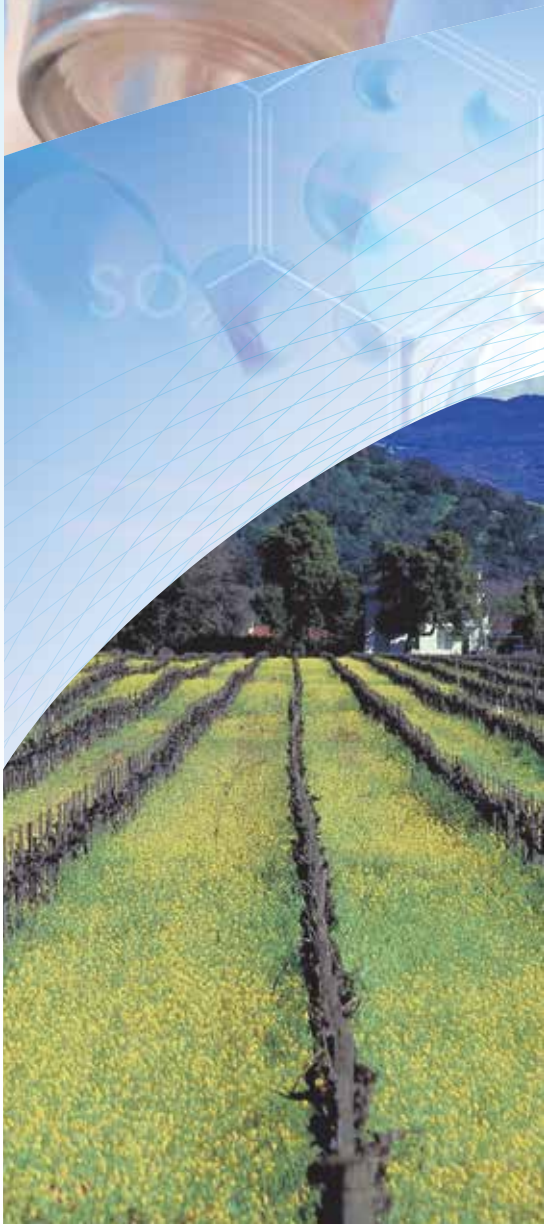
Reliability Guaranteed

Before being installed, all our machines are subjected to rigorous quality control tests in order to ensure your instrument is performing according to factory specifications. Each module is tested separately to check its good working order. Then, after the validation of each sub-unit and of the final assembly we carry out a complete new series of tests to ensure the routine use of the machine. In the last stage, samples are analyzed on the methods specific to your order.

Finally our teams carry out the complete installation of the machine on your premises. Once the machine is set up, a new validation is carried out using your samples, thus allowing you to be running your analysis before we finish the installation.

Training Courses

We want you to get the full benefit of your investment. As such, we have standard curriculum that provides both theoretical and practical training. Frequently, our customers request a tailor-made training course – we find these to be some of the most effective training and enables us to match up specific training with the customer applications. We provide training either at your facility or ours.



Technical Support and Service

Our team of engineers and maintenance technicians are always close at hand to ensure the top performance of your equipment.

TECHNICAL SUPPORT

Call our technical support hotline for expert assistance when you have a problem. While phone support is always free, we offer a range of services to ensure that you can have the peace of mind that a 'helping hand' is always nearby.

PREVENTIVE MAINTENANCE CONTRACTS

We offer several different levels of service to ensure we can meet your requirements. Contact your local representative to define the most suitable maintenance contract according to your needs.

ON-SITE SERVICE.

We provide factory based training for our service personnel and distribution partners to ensure that you have emergency on-site support when you need it.

New service: remote maintenance

Always at the cutting edge of innovative solutions, AMS Alliance offers free access to remote maintenance for all its equipment connected to a PC (roughly 90% of the range). The principle is highly efficient and practical: via a dedicated, secure web access, AMS Alliance engineers have access to the machine and conduct remote tests, which enable them to carry out :

- Diagnostics
- Various support procedures
- Trainings
- Software upgrade



AMS ALLIANCE: SUPPLIER OF COMPREHENSIVE ANALYTICAL SOLUTIONS

With more than 30 years' experience in analytical instrumentation, AMS Alliance Group has been able to build up a global and comprehensive offer including instruments, reagents, methods and services in order to become a supplier partner of true analytical solutions for its customers.

The growth policy of the Group, that initially relies on the brands AMS (Italy) and Alliance Instruments (France), can be summarized in three words: innovation, anticipation and diversification.

Innovation

Our products are designed to effectively meet the current issues of industrialists and laboratories. For example, our **washable cuvettes** concept on our discrete devices is an ecological solution that also allows you to save money.

The high automation of our continuous flow and discrete ranges, as well as our ready-to-use reagents, facilitates the daily use of our instruments and increases the output of each laboratory.

The proven flexibility of our analyzers allows to meet a multitude of applications and parameters without investing in a new device.

The wide range of our products solves all the needs in terms of throughput, methods and parameters.

Anticipation

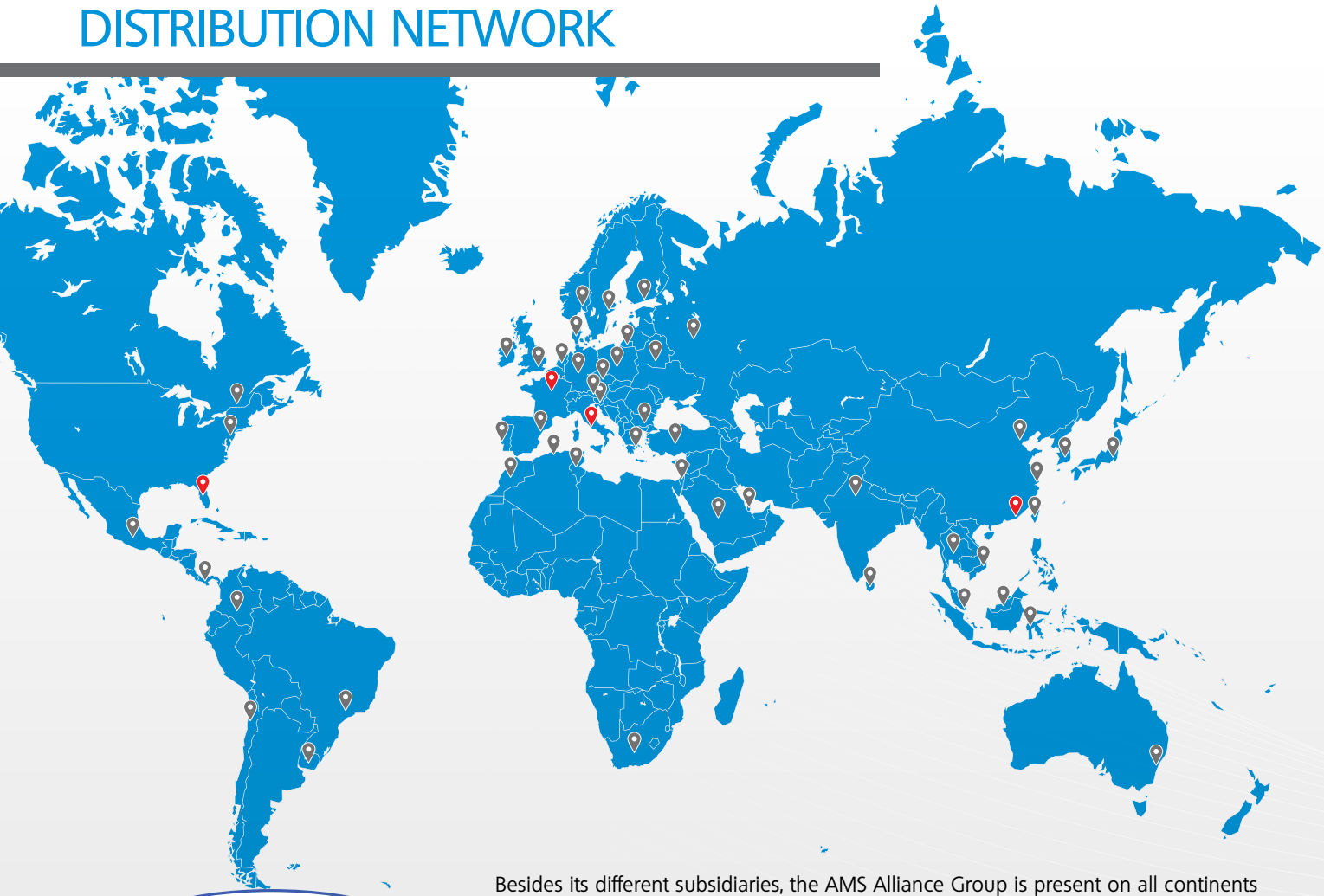
Our R&D policy takes into account the predictable evolutions of companies, markets and legislation. This anticipation policy comes true through devices that are adapted to the actual needs both on their use (speed, simplicity, flexibility, performances,...) and their answer to the budget restrictions (savings on the purchase, lower running costs). For example, for many markets such as the clinical chemistry, the water and oenological analysis, we propose ready to use solutions including instrument, reagents, software and methods. Our analyzers are in accordance with the reference methods and even anticipate legislation, like iCinac for instance, which gave the basis of ISO26323 norm.

Diversification

Since we wanted our aims to be fulfilled, we reinforced our expertise, our capabilities and our know-how through the acquisition of complementary companies such as Global Diagnostics, in the clinical chemistry reagents area, then Biogamma, for the enzymatic reagents dedicated to the oenology and, in November 2015, Envolure, a French company of biotechnologies, that created the first BOD5 kit with a result obtained in only 48 hours !

AMS Alliance is today a specialist of analytical instrumentation, providing a comprehensive range of solutions and services, as well as a European quality of manufacturing that is highly appreciated internationally, and many innovations that meet both the efficiency and output needs of our clients.

A WORLDWIDE DISTRIBUTION NETWORK



Besides its different subsidiaries, the AMS Alliance Group is present on all continents and in over 45 countries through specialized and exclusive distributors. Each distributor is carefully selected for their knowledge of the markets covered by AMS and their ability to ensure quality sales, installation, service and support in the respective territory. Our distributor teams are, of course, factory trained and supervised in order to have a thorough understanding of our products and techniques.

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ONE COMPANY, THREE MAIN MARKETS

DIAGNOSTICS



Automatic random access analyzers and dedicated reagents for Healthcare and Medical Diagnostics.

AGRI-FOOD



Automated analytical instruments for feed, beverages, wine, dairy products, meat, and all food products

ENVIRONMENT



Surface, ground, drinking, waste and sea water, soils, plants, fertilizers.

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