

# Clinical Laboratory

Instrumentation • Parts • Consumables

Chemistry • Immunology • Hematology • Coagulation • Blood Gas • Electrolyte



## About Us

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Diamond Diagnostics is a vertically integrated manufacturer and refurbishing company specializing in Chemistry, Immunology, Hematology, Coagulation, Blood Gas and Electrolyte instrumentation, consumables and service parts. Since its founding in 1996, Diamond has placed nearly 20,000 instruments and supplied consumable products to over 10,000 medical facilities worldwide.

Our success allows us to continuously improve our quality and manufacturing systems,

increase our capacity and ensure complete satisfaction for our customers. In addition to our U.S. headquarters and European support center, we have established offices and distribution partnerships in over 100 countries around the globe.

We are grateful for the support and ongoing business we receive from our customers throughout the world. As we continue to grow and develop, we are always eager to serve you and strive to exceed your expectations. Diamond is the leading choice for laboratories seeking a cost-effective, high quality alternative solution.

## Quality

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Diamond prides itself on developing and consistently manufacturing products in conformance to the highest quality standards while meeting customer needs. We strive to meet and beat your quality expectations and will continue to improve the quality and value of our final product.

Diamond has been registered with the United States Food and Drug Administration since 2001 and regulated by its cGMP system requirements. Since 2005, Diamond has been certified to ISO 9001:2015 and ISO 13485:2016 standards and has successfully maintained since. All products manufactured by Diamond carry the necessary FDA clearance and comply to the European Union IVD Directive. Every department and function in our company is standardized, controlled and routinely audited.



# Refurbishing Process

Due to tighter healthcare budgets and increased environmental awareness, demand for high quality refurbished instrumentation at affordable prices continues to escalate at an unprecedented rate. To keep up with this historical growth and maintain a delivery on demand objective, Diamond has amassed the largest inventory of clinical laboratory instrumentation in the world.



Our world class facilities coupled with our experienced Clinical Engineering and Support staff make us uniquely capable of offering unsurpassed quality and capacity for production.

Every analyzer undergoes a systemized, rigorous and unique Down-To-Frame® refurbishment process to rebuild each analyzer to its original specification and intended use. Analyzers are decommissioned, decontaminated and removed from the laboratory, and brought to Diamond. Following complete disassembly, all outer covers, chassis and most internal surfaces are treated and professionally painted. Disposable items are replaced, assemblies are rebuilt, electronics are tested and various forms of diagnostics are conducted. Following reassembly, the analyzer is calibrated and performance validated using the highest standard of quality control materials.



Once the analyzer has been meticulously rebuilt and approved by Quality Assurance, it is packaged and released to stock. At time of shipment, all instruments along with the required peripherals, are professionally secured and crated for worldwide transit. All analyzers carry a standard 180 day parts defect warranty with the option to purchase extended warranty, installation, training and service options.





## Electrolyte Analyzers

Following success in the refurbished instrumentation market, Diamond successfully developed its own analyzers and has become a leading manufacturer and provider of Electrolyte Analyzers for both human and veterinary applications. Our family of analyzers are designed for small to moderately sized laboratory environments and are simple to operate and maintain. With over 5,000 placements worldwide, Diamond is globally recognized as a premier provider of Electrolyte systems.



**SmartLyte®**



**ProLyte®**



**UNITY™**



**CareLyte®**

Our analyzers are uniquely designed with a powerful microprocessor allowing for easy interface with external LIS systems, operation with a full keyboard and bar code scanner and storage and retrieval of over 1000 patient samples. Diamond SmartLyte® and CareLyte® analyzers measure Na+, K+, Cl-, Ca++ and Li+ and are most suitable for human and veterinary applications respectively. Our first system released, The Diamond ProLyte® measuring Na+, K+, Cl- and Li+ is the ideal option for a laboratory looking for a lower cost investment.

The recently released Diamond UNITY™ is a fast and compact ISE module measuring Na+, K+ and Cl- and designed for easy integration into any size Chemistry analyzer platform.

## Consumables

Coupled with its instrument lines, Diamond provides a comprehensive range of alternative consumable products for Blood Gas, Electrolyte and Chemistry analyzers utilized in the modern laboratories of all sizes. Its current offerings of over 300 products include Quality Controls, Calibrators, Reagents, Electrodes, and Service Accessories for over 125 manufacturers and models.

- |                   |          |              |                    |
|-------------------|----------|--------------|--------------------|
| • Alfa Wassermann | • Furuno | • Polymedco  | • Stanbio          |
| • Beckman Coulter | • IL     | • Radiometer | • Siemens          |
| • Biotechnica     | • Idexx  | • Roche      | • Tokyo-Boeki      |
| • Dirui           | • Medica | • Randox     | • Vital Scientific |





## Quality Controls

To complement its line of consumables and instrumentation, Diamond has developed and offers a full line of quality control materials for the Critical Care and Chemistry laboratory. Diamond pursues only the highest grade quality of raw materials, utilizes a fully automated packaging process and has internal access to over 100 analyzers allowing Diamond the unique capability of a producing fully assayed controls without external delays.

The CLINICHECK™ and CLINICAL™ line of assayed chemistry controls and calibrators incorporate the most popular analytes including Enzymes, Hormones, Thyroids, Lipids, Metabolites and Electrolytes. Our 55 parameter control is a dual-level, lyophilized human sera based control assayed for use with over 50 chemistry analyzers.



The MISSION line of assayed controls are designed for monitoring the performance of blood gas, electrolyte metabolite and co-oximetry instrumentation. MISSION CONTROL™ is a 9 parameter, 4 level aqueous based control assayed for use with over 50 analyzers. MISSION TRINITY™ is a 16 parameter, 3 level aqueous and dye based control assayed for use with over 30 combination analyzers. MISSION COMPLETE™ is a 10 parameter, 5 level aqueous based Linearity control assayed used Verification Materials with over 50 analyzers.

## Contract & OEM Manufacturing

With nearly 20 years of manufacturing experience, Diamond provides contract refurbishing and manufacturing services to small and large service organizations, Instrument and Consumable manufacturing companies around the globe. Diamond boasts a strong Quality Assurance team that understands the needs of the customer and ensuring protocols are established to guarantee reproducibility and equivalent process performance providing a reliable and seamless alternative to internal manufacturing.

In addition, Diamond offers a wide array of services to companies wishing to complement their existing product line with a Diamond product under its own branding. Diamond can assist interested companies with local product registrations, packaging design as well as technical, sales and support training on respective products.



## Chemistry

Abbott C4000, C8000, C16000  
Alfa Wassermann ACE, ACEAlera  
Beckman DXC 600, 800, 600 PRO, 800 PRO  
Beckman Olympus AU400, 480, 640, 680, 2700, 5400  
\*Biotechnica BT3000, 3000+  
Elan Diagnostics ATAC8000  
Furuno CA180, CA400  
Horiba ABX Pentra 400  
Hitachi 7020, 7070, 7080, 7170, 7180  
Ortho Vitros 350, 5, 1FS  
Polymedco Polychem 180  
Randox Daytona, Imola  
Roche Cobas C111, C311, C501, C6000  
Roche Cobas Integra 400 Plus, Mira Plus CC  
Roche Hitachi 902, 911, 912, 917  
Roche Modular P800  
Siemens Advia 1200, 1650, 1800, 2400  
Siemens Dimension EXL, RXL, RXL Max, Xpand, Vista  
Tokyo Boeki Prestige 24i, Biolis 12i, 24i, 50i  
Thermo Konelab 20, 20i, 20xt, 20xti, 30, 30i, 60, 60i  
Vital Diagnostics Envoy 500

## Immunology

Abbott Architect i1000, i2000, i2000sr  
Beckman Access II, DXI 600, 800  
Biomerieux Mini-Vidas, Mini-Vidas Blue  
Ortho Vitros ECi Q  
Roche Modular E170, Cobas E411, E601  
Siemens Advia Centaur, CP, XP, XPi  
Siemens Immulite 1, 1000, 2000  
Tosoh AIA360, 600ii

## Coagulation

Diagnostica Stago STA-C, STA-R, Satellite  
IL ACL 100-3000+, 7000, 8000, 9000, 10000  
IL ACL Elite, Elite Pro  
IL ACL TOP 500 CTS, 700, 700 CTS  
Sysmex CA540, CA560, CA1500, CA7000

## Flow Cytometry

Beckman Coulter Epics XL MCL4, MCL5

## Hematology

Abbott Cell-DYN Emerald, Ruby, Sapphire  
Abbott Cell-DYN 1800, 3200SL, 3700SL  
Beckman Coulter ACT Diff, ACT Diff2  
Beckman Coulter ACT5 Diff, HMX-AL  
Beckman Coulter LH500, LH750, LH755  
Horiba ABX Micros 60, CRP, CRP200  
Horiba ABX Pentra 60, 60C+, 80, 80XL  
\*Nihon Kohden MEK6400, 7222, 8222  
Siemens Advia 60, 120, 2120  
Sysmex KX21, KX21N  
Sysmex XE2100, HST, Alpha, XE5000  
Sysmex XT1800i, XT2000i, XS1000i

## Blood Gas

Radiometer ABL 5  
Roche Cobas B221  
Siemens Rapidlab 248, 348  
Siemens Rapidlab 840, 845, 850, 855, 860, 865

## Electrolyte ISE

Diamond Diagnostics CareLyte®  
Diamond Diagnostics ProLyte®  
Diamond Diagnostics SmartLyte®  
\*Diamond Diagnostics UNITY™

## HPLC

AB Sciex API 3200, 4000, Qtrap 3200MD  
Agilent 1100, 6100, 6200  
Tosoh G7, G8  
Waters Acquity UPLC, Alliance 2695, ZQ2000, ZQ4000

## Molecular Biology

Abbott M2000RT  
Biomerieux Nuclisens EasyMag  
Roche AmpliCor

## Urinalysis

Beckman Iris IQ200  
Roche Cobas U411, Urisys 2400  
Siemens Clinitek Atlas Rack, Disk  
Sysmex UF1000i

\*Not available for sale in the USA





## Product Offerings

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Diamond offers a wide selection of products and services as listed below:

### Refurbished Instrumentation

Diamond offers over 250 Chemistry, Immunology, Hematology, Coagulation, Blood Gas, and Electrolyte systems from over 25 manufacturers. Each system undergoes our signature Down-to-Frame® refurbishing process and carries warranties to ensure post-installation support.



### Electrolyte Analyzers

Diamond offers 3 Stat Electrolyte Analyzers measuring Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>, Cl<sup>-</sup> or Li<sup>+</sup> in whole blood, serum, plasma and urine utilizing Ion Selective Electrode (ISE) Technology. These analyzers are ideal for stand-alone analysis, while our ISE module is ideal for integration into any Chemistry Analyzer platform.



### Consumables

Diamond offers a product range of over 300 consumables for use on Blood Gas, Electrolyte, Chemistry and Coagulation systems. Products include a wide array of Quality Controls, Calibrators, Reagents, Electrodes, Hardware and Service accessories for over 125 manufacturers and models of instrumentation.



### Quality Controls

Diamond offers a complete line of quality control materials for Chemistry and Blood Gas laboratories. Our CLINICHECK™ line of Chemistry controls is an assayed, dual-level, lyophilized human sera based control. Our MISSION™ line of Blood Gas, Electrolyte, Metabolite, and Co-oximetry controls is an assayed, multi-level aqueous and dye based control.



### Contract & OEM Manufacturing

Diamond offers a broad range of services to both small and large manufacturing and service organizations. Its range of services include contract refurbishment, decommissioning, logistics, depot service, contract manufacturing and assembly. Dependent on the requirement, Diamond can either utilize manufacturer specifications or can develop protocols either independent of or together with the customer. For those companies interested to complement, subcontract or expand their existing product line, Diamond offers all of its products under private label or OEM bulk basis.







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