CN-3000 and CN-6000 Systems

Giants on the inside

Where size, speed, intelligence, and flexibility combine to accelerate hemostasis workflows

siemens-healthineers.com/cn-systems







Small-sized solutions to overcome big lab challenges





The high-volume CN-6000 System and mid-volume CN-3000 System are both available with the optional sample handler shown above on the left.

Lab managers are under more pressure than ever. They need to deliver accurate results on time, but they're feeling the strain of rising demand for hemostasis testing and a shrinking pool of qualified staff.^{1,2} Many labs are consolidating, driving a need for compatibility and correlation of workflows, consumables, and results. And almost all labs are operating amid ever-tighter budget constraints. CN-3000 and CN-6000 Systems* were developed with the smart workflow features and compact size needed to help labs alleviate these pressures. Featuring a wide spectrum of testing methodologies—including clotting, chromogenic, immunoassay, and aggregation these flexible systems enable testing consolidation in both mid- and high-volume labs.

1. Increasing workforce productivity in the diagnostic laboratory. 2018. Siemens Healthineers.

^{2.} The laboratory personnel shortage. CLMA.

^{*}The products/features/applications mentioned here are not commercially available in all countries and are subject to local regulations. Their future availability cannot be guaranteed. Not available for sale in the U.S.

CN-3000 and CN-6000 Systems^{*} at a glance

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Smaller The smallest footprint available⁺ in the hemostasis market.



Smarter

Intelligent workflow features and artificial intelligence (AI) unite for our smartest[§] hemostasis analyzers yet.



Faster 450 PT tests per hour, the fastest[‡] throughput in the industry.



More flexible

Mid- and high-volume throughput options and a variety of automation choices.

CN Systems* leverage optical testing methodology with intelligent technologies to automate and standardize sample management for reliable results and reduced repeat testing and reagent waste.

- Simultaneous multiwavelength analysis detects and manages unsuitable samples to reduce retests and reflex testing.
- Advanced assay-based pre-analytical capabilities using proven PSI[®] technology reduce repeat testing and help deliver timely results.
- Gain-switching technology enables reliable testing and reporting of samples with HIL interferences, even highly lipemic samples.

A common user interface and multiple automation configuration options enable standardization of operations across your lab or network. Integration with Atellica® Diagnostics IT enhances workflows with robust process and data management tools to standardize testing, reagent management, and results reporting across sites.

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[†]As of January 2024. Footprint compared to competitor systems in the same volume class as listed on https://www.captodayonline.com/ and in the COBAS T 511 and COBAS T 711 coagulation analyzers brochure, Roche, 2018, and sthemO 301 analyzer brochure, Stago, 2023.

[#]As of January 2024. CN-6000 System throughput: 400 PT/APTT; CN-3000 System throughput: 215 PT/APTT. Throughput evaluated against systems in the same volume class as listed on https://www.captodayonline.com/ and in the COBAS T 511 and COBAS T 711 coagulation analyzers brochure, Roche, 2018. No throughput data available for sthemO 301 analyzer.

[§]As of January 2024.

Giant-sized performance in the industry's smallest footprint[†]



Extend your lab's productivity per square meter

At just 720 (W) x 906 (D) x 1350 (H) mm, CN-3000 and CN-6000 Systems* can easily fit in existing lab setups and free up space for lab expansion.

CN Systems* help labs drive efficient hemostasis testing with up to 13 hours of walkaway time. Large reagent and consumable capacity reduces staff intervention for a truly efficient operation.

- Reagent capacity of up to 3000 tests, with an onboard capacity of up to 38 reagents and six additional buffer positions, helps to extend walkaway time.
- Long onboard reagent stability of up to 124 hours** and antievaporation reagent caps help to increase efficiency of reagent use.
- Automatic QC and calibration with onboard refrigerated reagent storage at 10°C support extended walkaway time.
- 2D bar-code reader for reagents and consumables simplifies tracing and quality control.
- Flexible vial-type management, tilted vial sampling, and SLD mini cups decrease reagent waste.

Mid-volume analyzers 97 x 73 cm

Stago STA Compact Max

110 x 81 cm / Instrumentation Laboratory ACL TOP 550

128 x 93 cm Roche COBAS T 511 - 72 x 91 cm CN-3000 and CN-6000 main unit, including computer 🖾 🔡

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High-volume analyzers

168 x 80 cm

122 x 81 cm

Stago STA R Max

151 x 76 cm

Instrumentation

Laboratory

ACL TOP 750

174 x 93 cm

Roche COBAS T 711

Stago sthemO 301

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Competitive system dimensions exclude computers, monitors, and computer carts. CN System dimensions do not include monitor. †



Expand your testing capacity with the industry's leading throughput[‡]

Though they have a small footprint, CN-3000 and CN-6000 Systems* don't compromise on performance. Continuous sample and consumables loading supports rapid throughput and delivers the fastest throughput[‡] available on any hemostasis system in the market today.

Intelligent technologies for fast, dependable results

Smart sampling technologies use secure aliquot technology to enable multiple tests per sample and avoid debris from the cap piercer for rapid, reliable results. Sophisticated cap-piercing technology reduces dead volume and streamlines workflow, especially for pediatric samples.



- Loading capacity is >120 samples, and system can simultaneously process up to 64 samples.
- Multidilution analysis (MDA) detects inhibitors during factor assay analysis and sample identification.
- Flexible loading of primary and pediatric tubes on the same sample rack increases productivity.

Throughput comparison per hour			
	CN-3000 System	CN-6000 System	
PT	225	450	
APTT	217	450	
PT/APTT	215	400	
PT/APTT/AT/DD	129	304	



- Automated repeat, redilution, and reflex testing reduce hands-on time and provide confidence in results.
- Long-lasting cap piercer processes up to 120,000 samples before a replacement is needed.

[†]As of January 2024. Footprint compared to competitor systems in the same volume class as listed on https://www.captodayonline.com/ and in the COBAS T 511 and COBAS T 711 coagulation analyzers brochure, Roche, 2018, and sthemO 301 analyzer brochure, Stago, 2023.

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^{**}Test thrombin.

[‡]As of January 2024. CN-6000 System throughput: 400 PT/APTT; CN-3000 System throughput: 215 PT/APTT. Throughput evaluated against systems in the same volume class as listed on https://www.captodayonline.com/ and in the COBAS T 511 and COBAS T 711 coagulation analyzers brochure, Roche, 2018. No throughput data available for sthemO 301 analyzer.

CN-3000 and CN-6000 Systems:^{*} Gigantic performance and flexible options



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#‡The products/features are not commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details. In the U.S., platelet aggregation testing is for research use only, not for use in diagnostic procedures. §§Research use only.













Small footprint with rapid throughput enhances productivity per square meter

- Smallest hemostasis testing system available.[†]
- Fast throughput of up to 450 PT tests/hour.^{††}
- Simultaneous sample loading from both track and front of system for flexible testing options and enhanced STAT management.
- Optional sampler increases capacity.

Advanced preanalytical sample quality checks and smart sample management provide confidence in results

- System detects and manages unsuitable samples to reduce retests and reflex testing.
- Optical methodology displays clot formation for evaluation of fragile clots.
- Smart PSI technology detects and uses common aliquot to avoid sample waste.
- Gain-switching technology enables precise testing and reporting of samples that have high levels of interferences, e.g., highly lipemic samples.

Sophisticated operating system detects potential issues before they become problems and guides troubleshooting

- System detects impending issues and guides the operator on corrective actions.
- Intelligent sample flag management and guidance help technicians quickly identify and resolve issues.
- Advanced audit trail enhances traceability, including for consumables and errors.

Smart workflow features help staff plan daily requirements and reduce interruptions

- System provides algorithmic calculation of number of tests onboard and scheduled per day for smarter workflow and fewer interruptions.
- Reagents and consumables home screen consolidates daily workload information into one easy-to-understand, actionable dashboard.
- Smart LED light source has a lifespan of up to 5 years for continuous, uninterrupted multiwavelength scanning.

Platelet aggregation testing^{‡‡} supports advanced patient assessments

- Integrated platelet aggregation testing^{‡‡} simplifies and automates assessment of platelet disorders.
- Clot waveform analysis (CWA)^{§§} illustrates the optical reaction profile during PT or APTT measurement and provides qualitative, sensitive waveform patterns.
- Automated mixing studies using multidilution analysis (MDA) provide data and guidance to clinicians regarding factor deficiencies and circulating inhibitor patterns.

Streamlined security, maintenance, and user access enable operational efficiency

- Automated system startup and backup simplify routine tasks.
- Contactless smart card log-in simplifies workflow and shift changes.
- Automatic screen lock and user-defined access levels help to ensure result integrity and reduce the risk of user errors.
- Simple daily maintenance procedures (less than 5 minutes per day with ready-to-use cleaning solution) streamline workflow and extend uptime.

Our smartest hemostasis analyzers yet[§]



Streamline workflow and reduce repeat tests with intelligent technologies

Al-driven predictive analytics guide error handling, improve reagent management, and calculate requirements for the day's testing.





Smart, predictive reagent calculations

The systems use AI to predict the daily volume and types of tests needed based on historical data.

- Automatically calculates the day's likely testing requirements.
- Alerts the operator when reagents need to be loaded.

Smart reagent and consumable management Reagents and consumables home screen consolidates workload information into one actionable dashboard.

- Provides quick and easy access to reagent table information, including calibration data.
- Gives an at-a-glance overview of consumable levels, including flags where operational intervention is needed.

***Connection to Smart Remote Services (SRS) infrastructure is required. SRS has advanced security measures in place and is compliant with the ISO 27001:2017 Standard for Information Security.

†††Purchasable service option.



Smart error detection and guidance

Smart technologies help to identify origin of errors, guide resolution, and create a log of actions taken.

- Intelligent sample flag management and guidance help to quickly pinpoint and resolve sample or analyzer issues.
- Smart technologies detect impending issues and provide guidance to avoid sudden system failure.

Smart Remote Services (SRS)***

SRS is a fast, secure, and powerful data link that connects your medical equipment to our experts, who provide proactive and interactive services.

- Enables remote technical and application support for error identification, troubleshooting, and guidance to restore your system operations.***
- Supports remote hands-on training on specific clinical applications and features, according to your training needs, to help enhance the skills and productivity of your staff.^{†††}

[§]As of January 2024.

Amplify the intelligence with Atellica Diagnostics IT



Leverage data-driven innovation to simplify workflows

Connect CN Systems* to Atellica Diagnostics IT to enhance visibility, automate processes, and centralize management across instruments, automation, sites, and networks.





Atellica Process Manager helps you do more than control processes—it enables you to uncover inefficiencies and optimize clinical operations to save time and money.

- Standardize and optimize operations through built-in analytics and business intelligence capabilities.
- Identify and resolve pre-analytic, analytic, and postanalytic problems with advanced performance metrics.
- Increase workforce productivity with centralized oversight to control all systems^{##} and view reagent levels and testing exceptions from one screen.
- Deliver transparent and predictable turnaround times through the implementation of rules and at-risk sample alerts.



Atellica Data Manager provides powerful, easy-to-use rules writing, a comprehensive QC package, and the flexible connectivity needed to drive better operational and clinical outcomes.

- Increase workforce productivity by enhancing visibility, automating processes, autoverifying results, and centralizing management across instruments, automation, sites, and networks.
- Reduce errors and unwarranted variations by standardizing result testing protocols and QC management.
- Optimize clinical operations by improving efficiency and predictability, reducing costs, and sharpening your clinical focus on exceptions.

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^{###}Instruments require virtual network computing (VNC) or Remote Desktop capability. Not available on all systems.

The flexibility today's labs need



Automation scalability for high-performance hemostasis testing in various testing environments

CN-3000 and CN-6000 Systems* are compatible with a variety of configurations to automate middle and high volumes of hemostasis testing. For example, adding an optional sampler can further increase the systems' capacity in a stand-alone configuration. You can even integrate as many hemostasis analyzers as you need with your Aptio[®] Automation for high performance in a singleor multidisciplinary, automated lab setting.

Streamline your hemostasis testing

- Consolidate coagulation samples, eliminate manual handling, and reduce operator touchpoints to mitigate exposure to biohazardous materials and reduce motion-related injuries.
- Standardize processes and results across systems and disciplines to increase result accuracy and reduce TAT.
- Streamline STAT sample management with automatic routing and priority testing.
- Maintain option to front-load STAT samples to ensure quick processing of the most time-sensitive samples.
- Reduce result turnaround time with point-in-space sampling technology on Aptio Automation.
- Automate repeat and confirmatory testing to minimize manual processing for increased accuracy.

Chose the level of automation that's right for your lab

Whether you want simple mechanization of tasks such as centrifugation and decapping, or streamlined management of workflows that require sample mixing or proportional aliquoting, you can connect as many automation modules and single- or multidiscipline analyzers as needed in highly flexible track configurations.



- Sample configuration a: 1. Input/output module
- 2. Centrifuge Module
- 3. Decapper Module
- 4. CN-3000/6000 Systems*



Sample configuration b:

- 1. Rack Input Module
- 2. Input/Output Module
- 3. Centrifuge Module
- 4. Decapper Module
- 5. CN-3000/6000 Systems*
- 6. Sealer Module
- 7. Refrigerated Storage Module
- 8. Desealer Module
- 9. Aliquotter Module

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Standardize testing across your lab network

For lab networks with multiple locations and hemostasis analyzers, standardizing testing with CN Systems enables your lab to:

- Save time and cost with standardized reagent and consumable ordering and packaging for all hemostasis workflows.
- Reduce the need for retraining and increase staffing flexibility with a standardized interface and operating system.
- Produce standardized results across sites with excellent result correlation across CN,* CS-2500 and CS-5100, and CA-620 and CA-660 Systems.

Contact your representative from Siemens Healthineers to learn more about how you can elevate your laboratory workflow and enhance productivity with CN-3000 and CN-6000 Systems.*



Excellent result correlation across CN* and CS-5100 Systems

r: correlation coefficient

r: correlation coefficient

The trusted hemostasis partner you can count on. Let's go beyond hemostasis testing—today, tomorrow, and in the future.

Siemens Healthineers is one of the world's largest providers of hemostasis solutions. With a scalable and integrated portfolio, backed by a dedicated team, we're committed to fulfilling your current and future laboratory requirements in hemostasis and beyond.

At Siemens Healthineers, we pioneer breakthroughs in healthcare. For everyone. Everywhere. Sustainably. As a leader in medical technology, we want to advance a world in which breakthroughs in healthcare create new possibilities with a minimal impact on our planet. By consistently bringing innovations to the market, we enable healthcare professionals to innovate personalized care, achieve operational excellence, and transform the system of care.

Our portfolio, spanning in vitro and in vivo diagnostics to imageguided therapy and cancer care, is crucial for clinical decision-making and treatment pathways. With the unique combination of our strengths in patient twinning,* precision therapy, as well as digital, data, and artificial intelligence (AI), we are well positioned to take on the greatest challenges in healthcare. We will continue to build on these strengths to help overcome the world's most threatening diseases, enable efficient operations, and expand access to care.

We are a team of more than 71,000 Healthineers in over 70 countries passionately pushing the boundaries of what is possible in healthcare to help improve the lives of people around the world.

*Personalization of diagnosis, therapy selection and monitoring, aftercare, and managing health.

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Aptio Automation is manufactured by Inpeco SA and is exclusively distributed by Siemens Healthcare Diagnostics Inc.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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