

Minimize the Effects of Preanalytical Errors



The Sysmex® CS-2000i System is ideal for medium to large coagulation laboratories requiring an easy-to-use analyzer capable of running clotting, chromogenic, and immunologic assays simultaneously. The medium sized analyzer is offered with an optional cap-piercing unit, the Sysmex CS-2100i System.

Product Description

The Sysmex CS-2000i System is a fully automated coagulation analyzer for in vitro diagnostic use that can rapidly process samples with a high degree of accuracy. The system offers you the ability to streamline your hemostasis lab's processes and help produce accurate results on the first attempt. Long onboard reagent stability with continuous loading of reagents and consumables enables superior laboratory workflow. New multi-wavelength analysis technology allows preanalytical sample integrity (PSI™) checks and test reaction analysis.

Reagent Test Menu

PT	Dade® Innovin®, Thromborel® S
APTT	Dade Actin®, Dade Actin FS, Dade Actin FSL, Pathromtin® SL
Fibrinogen	Dade Thrombin
Thrombin time	Test Thrombin, Thromboclotin
Batroxobin time	Batroxobin
Factor deficiency	Factor II, V, VII, VIII, IX, X, XI, XII
Lupus anticoagulant	LA1 screening, LA2 confirmation
Protein C pathway	C1 Inhibitor, Protein C, ProC® AcR, ProC Global, ProC Global/F V Leiden, Protein S Ac
Heparin	Berichrom® Heparin
Antithrombin III	Berichrom Antithrombin III (A), INNOVANCE® Antithrombin
D-Dimer	INNOVANCE D-Dimer
Von Willebrand factor	VWF Ag®, BC™ von Willebrand (VWF:RCO)
Chromogenic	Factor VIII Chromogenic, Berichrom Factor XIII Chromogenic, Berichrom C-1 Inhibitor, Berichrom α2-Antiplasmin, Berichrom Plasminogen, Berichrom Protein C

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Sysmex CS-2000i System

Answers for life.

SIEMENS

Sysmex CS-2000i System Specifications

Measurement

Principle	Photo-optical, continuous, sequential
Method/channels	Clotting (10 single channels), chromogenic, and immunologic
Measurement channels	10
Source lamp	1 halogen lamp for measurements at 340, 405, 575, 660 and 800 nm wavelengths
Measuring frequency	10 Hz for clotting, chromogenic, and immunologic

Sample Handling

Type of sample	Primary tubes and sample cups
Sampling mechanism	Automated sample and standard predilution
Barcode identification	Automatic positive sample identification
Carrier system	Continuous-access sample racks (10 tube capacity)
Maximum load	5 racks (50 samples)
Storage temperature	Room temperature
Racks	5 sample racks, continuous loading; various specific sample holders available
Handling	Flexible mix of cups and various sample tubes: capped and uncapped

Reagent Handling

Reagent recognition	Internal reagent barcode identification		
Maximum imprecision	Sample probe	10 µl	CV < 5%
		100 µl	CV < 1%
	Reagent probe	50 µl	CV < 3%
		100 µl	CV < 1%
Minimum volume	Sample probe	min 4 µl	max 150 µl
	Reagent probe	min 20 µl	max 200 µl
Dispensing mechanism	2 probes: 1 heated for reagents and 1 for samples, controls, and calibrators		
Loading system	Manual placements of reagents, removable reagent trays		
Reagents onboard	40 reagent/control positions		
Storage temperature	40 cooled reagent positions onboard at 8 – 12°C, 5 buffer positions at room temperature		
Handling	Flexible mix of reagent positions within the reagent table, various adapters available		
Mixing position	Maximum of 10 positions available on the reagent table		

Throughput*

(approx) 180 PT tests/hour
(approx) 180 simultaneous APTT tests/hour
(approx) 180 simultaneous PT/APTT tests/hour
(approx) 95 simultaneous PT/APTT/AT/DD tests/hour

Operation

Access mode	Simultaneous random access (samples, reaction tubes)
STAT	5 priority positions

Reaction Tubes

Type	Single reaction tubes
Loading	Automatic continuous access, 500 reaction tubes onboard

System Fluid

Cleaning and rinsing	Washing solutions onboard
System containers	20 L containers for water (rinse) and waste (optional)
Liquid waste per day	Varies; dependent on test volume

Computer/Printer

Workstation	PC
Display	19" touchscreen
Printer	Graphic printer (optional)
Input devices	Touchscreen, keyboard and mouse, 2D barcode reader

Software

LIS Interface	Sysmex CA-1000, CA-1500, ASTM and CS-2000i protocols
Host connection	Bi-directional RS-232C serial port or via Ethernet-TCP/IP
Operating system	WINDOWS-based

*Throughput determined using Siemens' study protocol with PT (Thromborel S), APTT (Pathromtin SL), INNOVANCE D Dimer, and Berichrom AT III test applications.

Power Supply

Operating voltage	100 – 240 VAC
Power consumption	≤ 800 VA Main unit; ≤ 1080 VA Main and Pneumatic unit
Main frequency	50 – 60 Hz

Environmental Conditions

Operating temperature	15 – 30°C, optimum 23°C
Environmental humidity	30 – 85%
Waste heat	(approx) 4,000 BTU/h (1,040 kcal/h)
Noise level	During analysis: 60 db or less

Dimensions

Dimensions	Main unit: (approx) 775 mm (W) x (approx) 865 mm (D) x (approx) 675 mm (H)
Pneumatic unit	(approx) 280 mm (W) x (approx) 355 mm (D) x (approx) 400 mm (H)
Terminal LCD	317 mm (H) x 356 mm (W) x 129 mm (D)
Weight	Main unit: (approx) 100 kg
Pneumatic unit	(approx) 17 kg
Terminal	LCD = 5.5 kg; PC = 9.5 kg

Quality Control

X-control, Levey-Jennings control
Multi-rule (Westgard Rule) monitoring

Ordering Information

Catalog No.	Product Description	Quantity
10488583	Sysmex CS-2000i System, 230V	1 unit
10488585	Sysmex CS-2100i System with cap-piercing unit, 230V	1 unit

For more information, please contact your Siemens representative or visit our website.

Siemens Healthcare Diagnostics is the exclusive distributor of Sysmex® CA and CS Systems in the Western Hemisphere and select countries worldwide.

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Global Siemens Headquarters

Siemens AG
Wittelsbacherplatz 2
80333 Muenchen
Germany

**Global Siemens
Healthcare Headquarters**

Siemens AG
Healthcare Sector
Henkestrasse 127
91052 Erlangen, Germany
Phone: +49 9131 84 - 0
www.siemens.com/healthcare

Global Division

Siemens Healthcare Diagnostics Inc.
511 Benedict Avenue
Tarrytown, NY 10591-5005
USA
www.siemens.com/diagnostics

www.siemens.com/diagnostics