



**SIEMENS**

Siemens Solutions for Hematology

# ADVIA 360, ADVIA 560, and ADVIA 560 AL Systems

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**Answers for life.**

## The ADVIA Hematology Family



Siemens can now offer a total solution with the  
ADVIA® 360, ADVIA 560, ADVIA 560 AL and ADVIA 2120i Hematology  
Systems.\*

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2016-06-09

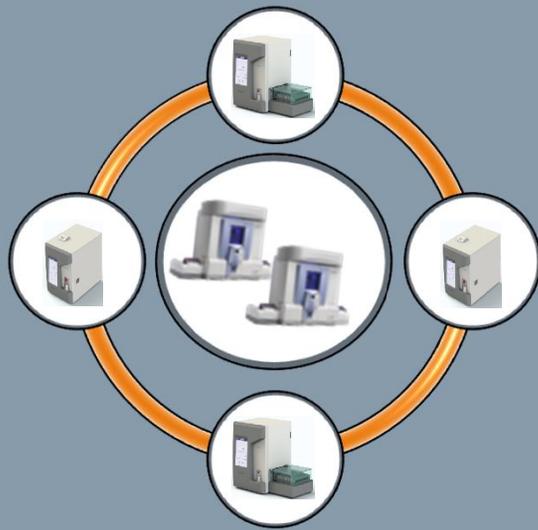
A91DX-HHS-150057-GC1-4A00

\*Product availability varies by country

François Richir / BM / BA LD HH

# The ADVIA Hematology Family

## The ADVIA Hematology Family



Solutions for all laboratories of all sizes

Safe, reliable, easy to use

Accurate, comparable results

Siemens service and support

Underscores Siemens' commitment to hematology

# ADVIA 360 System Specifications

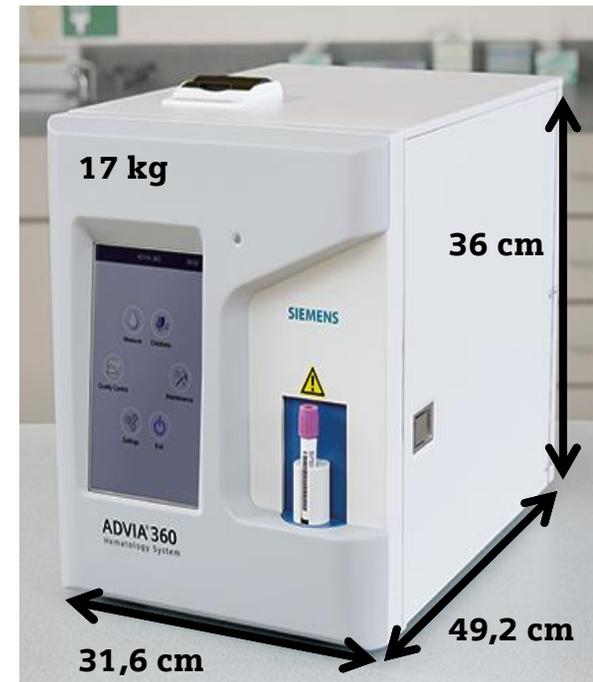
<b>Throughput</b>	Up to 60 tests/hr
<b>Parameters</b>	22,* including 3-part WBC differential
<b>Technology</b>	Impedance for CBC Absorbance for HGB
<b>Samples</b>	100 µL sample volume Closed- and open-tube manual modes
<b>Reagents</b>	Three cyanide-free reagents
<b>Quality Control</b>	Quality-control database Levey-Jennings graphs
<b>IT</b>	Storage capacity: 10,000 records Easy-to-use multilingual user interface HL7 connectivity



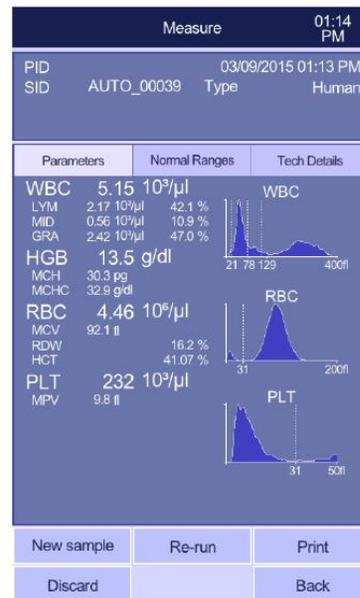
\*OUS only; 18 parameters in the U.S.

# ADVIA 360 System Specifications

<b>Throughput</b>	Up to 60 tests/hr
<b>Parameters</b>	22, including <u>3-part WBC</u> differential
<b>Technology</b>	<u>Impedance</u> for CBC <u>Absorbance</u> for HGB
<b>Samples</b>	100 µL sample volume Closed- and open-tube manual modes
<b>Reagents</b>	Three cyanide-free reagents
<b>Quality Control</b>	Quality-control database Levey-Jennings graphs
<b>IT</b>	Storage capacity: 10,000 records Easy-to-use multilingual user interface HL7 connectivity



# ADVIA 360 System User Interface



# ADVIA 560 System Specifications

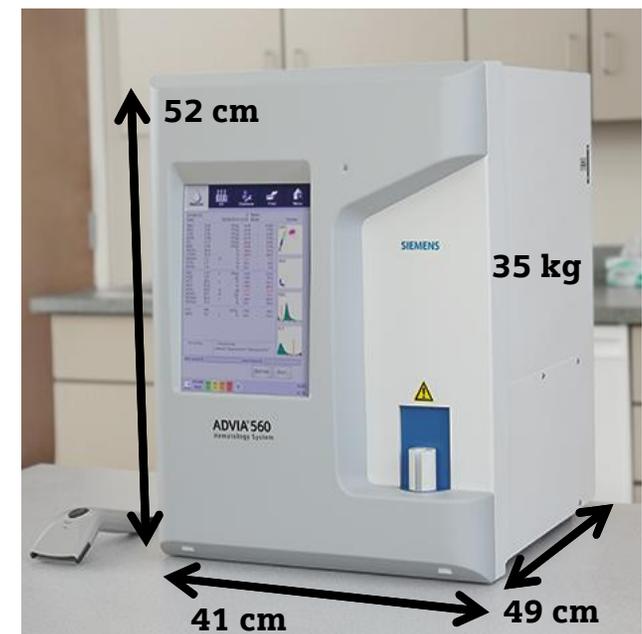
<b>Throughput</b>	Up to 60 tests/hr
<b>Parameters</b>	26,* including 5-part WBC Differential
<b>Technology</b>	Laser light scatter for 5-part Differential Impedance for CBC Absorbance for HGB
<b>Samples</b>	110 µL sample volume Closed- and open-tube manual modes
<b>Reagents</b>	Three cyanide-free reagents
<b>Quality Control</b>	Quality-control database Levey-Jennings graphs
<b>IT</b>	Storage capacity: 100,000 records Easy-to-use multilingual user interface HL7 connectivity



\*OUS only; 22 parameters in the U.S.

## ADVIA 560 System Specifications

<b>Throughput</b>	Up to 60 tests/hr
<b>Parameters</b>	26, including 5-part WBC Differential
<b>Technology</b>	Laser light scatter for 5-part Differential Impedance for CBC Absorbance for HGB
<b>Samples</b>	110 $\mu$ L sample volume Closed- and open-tube manual modes
<b>Reagents</b>	Three cyanide-free reagents
<b>Quality Control</b>	Quality-control database Levey-Jennings graphs
<b>IT</b>	Storage capacity: 100,000 records Easy-to-use multilingual user interface HL7 connectivity



# ADVIA 560 AL System Specifications

<b>Throughput</b>	Up to 60 tests/hr
<b>Parameters</b>	26, including 5-part WBC Differential
<b>Technology</b>	Laser light scatter for 5-part Differential Impedance for CBC Absorbance for HGB
<b>Samples</b>	110 $\mu$ L sample volume Closed- and open-tube manual modes <u>Autoloader holds 100 samples (10 racks, 10 samples per rack)</u>
<b>Reagents</b>	Three cyanide-free reagents
<b>Quality Control</b>	Quality-control database Levey-Jennings graphs
<b>IT</b>	Storage capacity: 100,000 records Easy-to-use multilingual user interface HL7 connectivity



# ADVIA 560 and ADVIA 560AL System User Interface



# Quality Control on ADVIA 360 and ADVIA 560 Systems

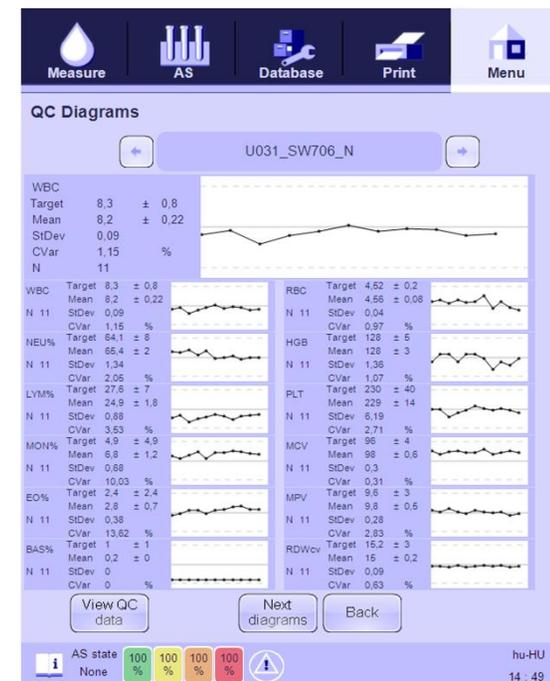
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## QC Database and 24 QC files

Target values can be scanned

Levey-Jennings graphs



## Manual Closed-Vial Sampling

### Closed- or open-vial sampling

Suitable for various cap-pierceable tubes

110  $\mu$ L sample volume

Available on the ADVIA 360,560, and 560 AL Systems

Manual bar-code reader for positive sample ID



# Tube management



- **External Barcode Reader**  
Code 128; Code 39; Interleaved 2 of 5;  
Codabar; EAN-8; EAN-13

- **Supported Sample Tube Types**
  - K2- or K3-EDTA 13 x 75-mm sample-tubes
  - Sarstedt Monovette
  - Becton Dickinson (BD) Vacutainer
  - Terumo Venosafe ...

# Autoloader Upgrade on ADVIA 560 System



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# Reagents Setup



## 1. ADVIA 360/560 Dil

- Color Code GREEN
- Dilution of blood sample
- **Sheat** for optical measurement

## 2. ADVIA 560 Lyse 5P

- Color code YELLOW
- **Lyses** RBCs and PLTs to determine WBC count, 5-diff and HGB concentration

# Reagents Setup



### 3. ADVIA 560 Diff-5P

- Color code ORANGE
- Stop the lysing process and prevent WBC from lysing

## Reagents Setup

### Reagents Lock System/Hardware (HW) Key

- Each ADVIA 560 Lyse reagent container comes with a reagent HW key that contains 900 measurement credits
- System count down warns operator when the remaining test is 50



# Reagents Setup

## ADVIA 360

Function	Diluent	Lyse	Cleaner	Controls	Calibration
Product Name	ADVIA 360/560 Dil	ADVIA 360 Lyse	ADVIA 360 Cleaner	ADVIA 360 Control Set (L-N-H)	ADVIA 360, 560 Calibrator
SMN	11170845	11170848	11170849	11170853	11170852
Content	20 Ltr	1 Ltr / 900 tests	1 Ltr	2 x 3 x 3 mL	2 x 3 mL
Consumption per measurement	41 mL	1,1 mL	20 mL	110 µL	110 µL
Cycle	480 tests	900 tests	50 days	80 tests	80 tests
Open vial stability	60 days	90 days	90 days	14 days	7 days

# Reagents Setup

## ADVIA 560

Function	Diluent	Lyse	Stopper	HypoClean CC	Controls	Calibration
Product Name	ADVIA 360/560 Dil	ADVIA 560 Lyse	ADVIA 560 5P Diff	ADVIA 360,560 Hypoclean	ADVIA 560 Control Set (L-N-H)	ADVIA 360, 560 Calibrator
SMN	11170845	11170846	11170847	11170851	11170854	11170852
Content	20 Ltr	5 Ltr / 900 tests	1 Ltr	100 ml	2 x 3 x 3 mL	2 x 3 mL
Consumption per measurement	52 mL	5,7 mL	0,7 mL	4mL/jour	110 µL	110 µL
Cycles	380 tests	900 tests	1400 tests	25 days	80 tests	80 tests
Open vial stability	60 days	60 days	60 days	60 days	8 days	7 days

# ADVIA 360 and 560 System Methodology

	Technologies
<b>Volumetric Impedance</b>	
<b>Photometric Measurement</b>	
<b>Optical Measurement</b>	

# ADVIA 560 System Result Screen



The Diff cytogram has same orientation and color-coding as the ADVIA 2120i System

X axis: complexity and granularity

Y axis: cell size

The baso cytogram

X axis: cell complexity

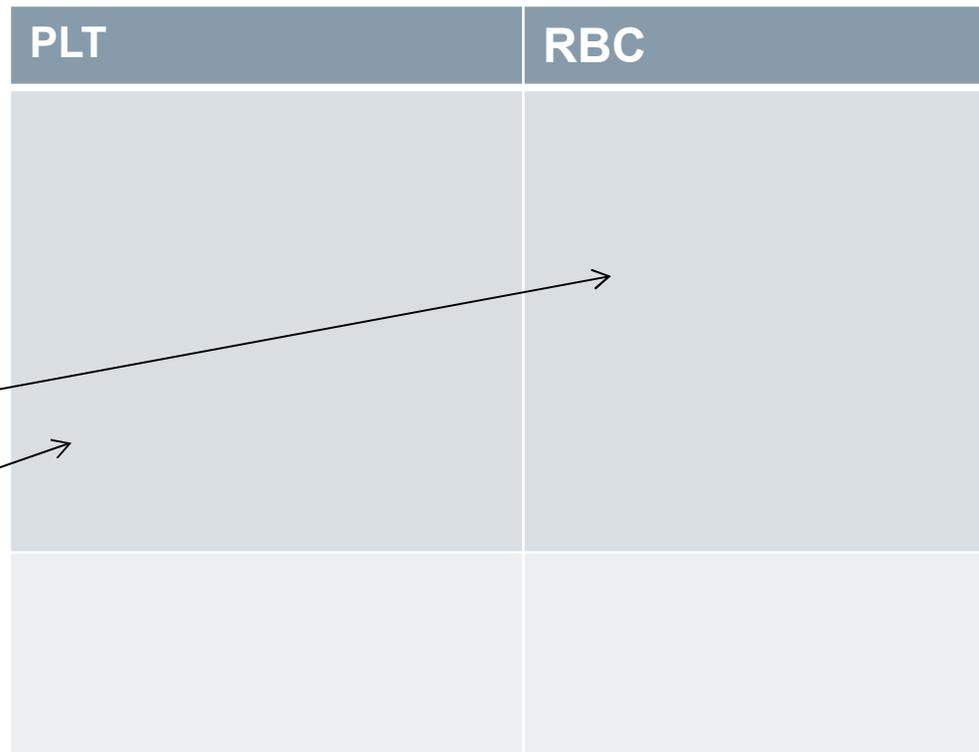
Y axis: cell size

Red cell and platelet histograms

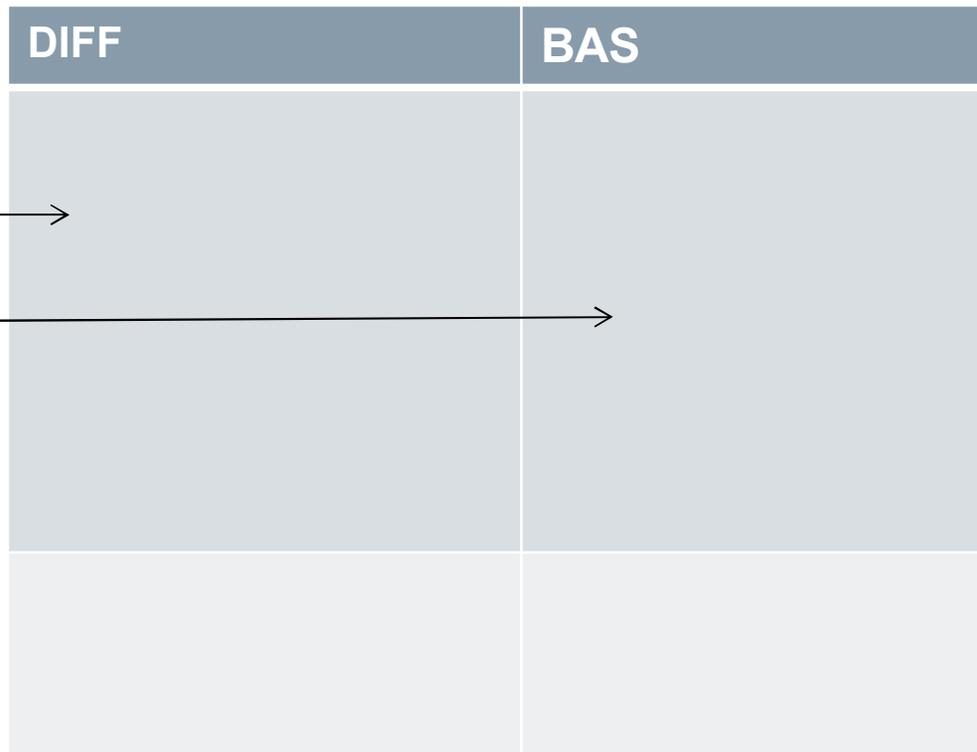
X axis: cell size

Y axis: cell number

# ADVIA 360 and 560 System Methodology



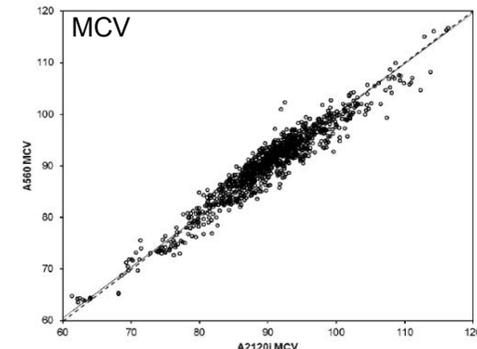
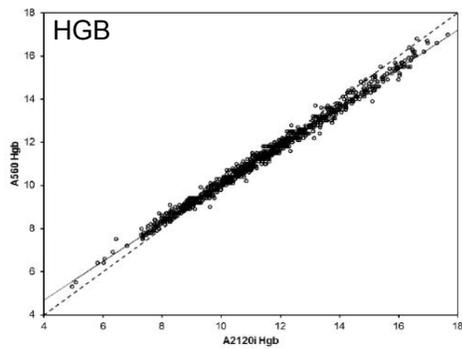
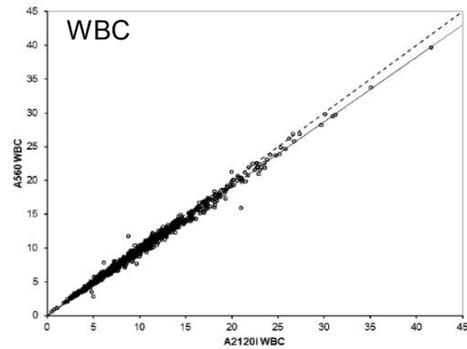
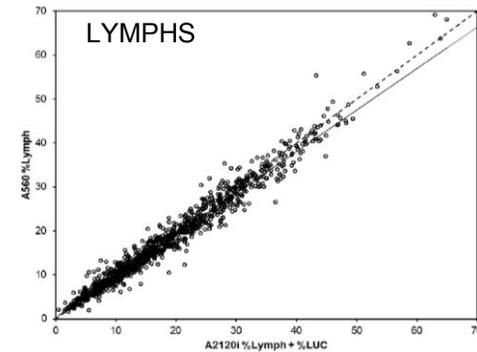
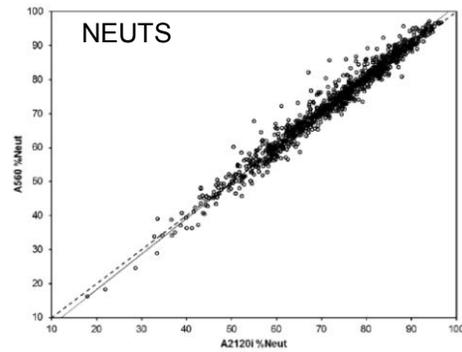
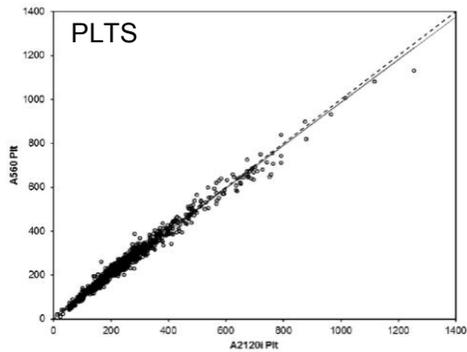
# ADVIA 360 and 560 System Methodology



## ADVIA 560 vs 2120i System Results (USA)

Parameter	n	r	Slope	Intercept	Syx	ADVIA 2120	ADVIA 560	Bias
						Mean	Mean	
WBC x 10 <sup>3</sup> /μL	1009	0.996	0.96	0.09	0.05	9.72	9.38	-0.34
RBC x 10 <sup>6</sup> /μL	1009	0.995	0.97	-0.02	0.02	3.83	3.69	-0.14
Hgb (g/dL)	1009	0.996	0.89	1.1	0.02	11.3	11.2	-0.1
Hct (%)	1009	0.986	1.00	-1.2	0.03	34.4	33.2	-1.2
MCV (fL)	1009	0.960	0.99	1.5	0.02	90.2	90.4	0.2
MCH (pg)	1009	0.942	1.02	0.4	0.03	29.6	30.6	1.0
MCHC (g/dL)	1009	0.344	0.69	11.4	0.04	32.8	33.9	1.1
RDW (%)	1007	0.892	1.22	-3.4	0.07	15.8	15.8	0.0
Plt x 10 <sup>3</sup> /μL	1009	0.991	0.98	11	19.50	256	261	5
MPV (fL)	1007	0.651	2.19	-7.9	0.23	7.5	8.6	1.1
Neut %	1006	0.984	1.05	-2.7	0.04	72.0	72.6	0.6
Lymph %	1006	0.983	0.94	0.4	0.13	19.1	18.5	-0.6
Mono %	1006	0.818	1.34	-1.9	2.17	6.0	6.1	0.1
Eos %	1006	0.931	0.88	-0.1	0.53	2.4	2.1	-0.3
Baso %	1006	0.649	1.52	-0.1	0.70	0.6	0.8	0.2

# ADVIA 560 vs 2120i System Results (USA)



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# Operator Maintenance ?

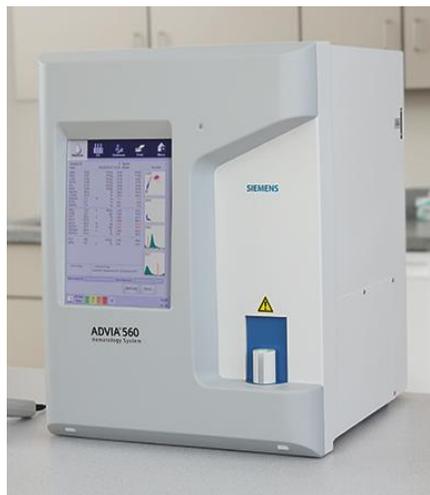


## Reduced Maintenance

Daily:	System Shut Down (automatic)
Weekly:	Na*
Monthly:	Na*
<b>On demand:</b> <ul style="list-style-type: none"> <li>- Shear valve cleaning – 5 min</li> <li>- Cleaning the Wash head – 5 min</li> <li>- Measuring chambers – 1 min</li> </ul>	

## ADVIA 560, ADVIA 560AL, and ADVIA 360 Systems

- Small footprint with onboard cleaning and zero daily maintenance
- Good reliability
- Full support supplied by Siemens



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# Siemens Scalable Hematology Systems to Suit Every laboratory\*



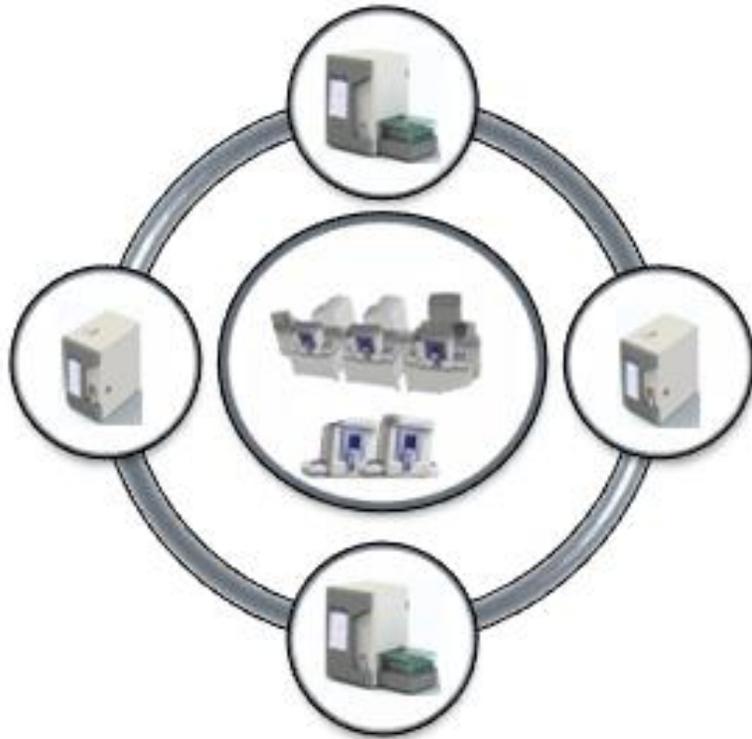
Siemens Range of Hematology Systems*	STAT Labs	Satellite Labs	Low Workload	Medium Workload	High Workload	Core Automation Lab	Backup Systems
HemaPrep Device	✓	✓	✓	✓			✓
Diff-Quick Stain Kit	✓						
Hematek® 3000 System		✓	✓	✓			✓
ADVIA 360 System	✓	✓	✓				✓
ADVIA 560 System		✓	✓				✓
ADVIA 560AL System				✓			✓
CellaVision® Image Capture System		✓					
CellaVision DM1200			✓	✓			
CellaVision DM9600					✓	✓	
ADVIA 2120i System					✓	✓	
ADVIA Autoslide					✓	✓	
Aptio™ Automation						✓	

Note: CellaVision is a trademark of CellaVision AB.

## Meeting Requirements

Your Requirements	ADVIA Hematology Family
A range of systems to meet future demands	A range of upgradeable systems
Compatible LIS or middleware systems	HL7 LIS or middleware connectivity
Opportunities for Automation and satellite solutions	Siemens can provide multidisciplinary Automation plus satellite packages
Protection from exposure to biohazards	All systems provide closed vial sampling
Potential of digital microscopy	All CellaVision systems are available
Confidence that systems are easy to use	Systems can be used by all skill levels
Fully supported systems	Siemens provides full-service support
A single supplier providing a total solution	Siemens can provide a comprehensive solution to meet all your requirements

## The ADVIA Hematology Family



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