HEMATOLOGY RANGE

www.erbamannheim.com

Making Automation Affordable
for Labs Everywhere

WHY CHOOSE ERBA MANNHEIM

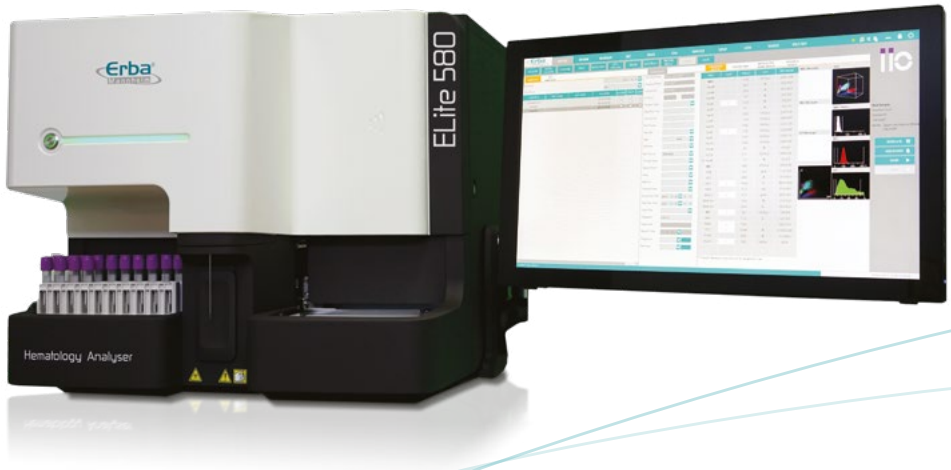
Backed by over 40 years of industry experience, Erba Mannheim is a leading player in the IVD industry.

Specialising in emerging markets, Erba understands the needs of small to medium laboratories and has designed a range of hematology systems that enable laboratory staff everywhere to produce high quality results. The range covers three and five-part differential systems all of which have been designed to be easy to use, efficient in operation and reliable.

HEMATOLOGY RANGE

EASY. EFFICIENT. RELIABLE.

These three words are the core theme of our hematology design process. We understand that any new system must be economical to run and available to use as much as possible. By minimizing the number of reagents and using high quality components, we have made a range that is a great fit for laboratories everywhere.



WORKFLOW ADVANTAGES

The best way to produce high quality results is to make the analytical process as simple as possible. With this in mind, we have enabled ‘one click’ analysis on all systems, LIS connectivity using HL7 protocols and 60 sample autoloader capacity on the Elite 580.

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Success

3000+ INSTALLATIONS

The Hematology range has been a great success story. Thousands of users are benefiting from the combination of great design and affordable price. The Hematology range can serve as a primary or backup system and can be installed in the main laboratory or outpatient clinic setting.

Functionality

EFFICIENT

All the design features of the Hematology range come together to give users the best possible experience. The complex technology and quality components combine to allow users to focus on what is important – the patient.

Software

JUST LIKE A TABLET

Interacting with the Hematology range is made easy with large screens and clean software design. Sample results to QC records - everything is just tap away.

3-PART DIFFERENTIAL

ΛΞ

H360

5-PART DIFFERENTIAL

ΛΞ VΞ

H560

Elite 580

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H360

3-Part Differential

Reporting the essential CBC parameters, 3-part differential analysers give the requesting clinician the key clinical parameters like hemoglobin and platelet count quickly and affordably.

The H360 from Erba Mannheim features class leading design and ease of use. The large display and ‘one click’ analysis make it a pleasure to use, while the advance platelet parameters give real clinical insight.

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H360

FULLY AUTOMATED 3 PART HEMATOLOGY ANALYSER

The H360 from Erba Mannheim is a next generation fully automated 3-part differential analyser designed for ease of use and premium analytical quality. With an aspiration volume of only 9µL and the benefit of automatic diluent dispensing for pre-diluted samples, the H360 can report excellent results on the smallest of samples.

EASY USER INTERFACE

RELIABLE ENGINEERED CONSTRUCTION

EFFICIENT ANALYTICS

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H360

TECHNICAL SPECIFICATIONS

Analytical Modes	Histograms
Manual, Predilute, Capillary	3 (WBC/RBC/PLT)
Total Parameters	**Sample Volume**
22 : WBC, RBC, HGB, HCT, MCV MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PCT, PDW-CV, PDW-SD, P-LCR, P-LCC, Lymph%/#, Mid %/#, Gran%/#	• Whole Blood : 9 µL • Pre-diluted : 20 µL • Capillary : 20 µL
Principle of measurement	**Linearity Range**
• RBC/PLT/WBC/ DIFF: Electrical Impedance • Hb: Cyanide Free Colorimetry • MCV: Measured • HCT: Calculated	• WBC (x 10^3/L): 0 - 300 • RBC (x 10^6/L): 0.00 - 8.50 • Hb (g/dL) : 0 - 25.0 • HCT (%): 0 - 67 • PLT (x 10^3/L) : 0 – 3000
Calibrator	**Tri-level Controls**
• ELite H Cal (3mL) • Open Vial Stability at 2-8°C: 7 Days	• Erba H3 CON L, N, H (3mL) • Open Vial Stability at 2-8°C: 14 Days
Throughput	**QC (L-J, X-BAR)**
60 Tests/Hr	Yes
Data Storage	**Dimension (mm)**
50,000 Results with Graphs	364x477x417
Weight (Kg)	**Interfaces**
25	4 USB + 1 LAN Port
Reagents	**Operating Environment**
• Erba Dil • ERBA Lyse Cyanide Free • ELite H Clean	Temperature: 15-30°C Atmospheric pressure: 70kPa~106kPa
Power Requirements	
A.C.100-240V;-50/60Hz; ≤200VA	

H560

5-Part Differential

The advantages of using a five-part differential system are clear – more comprehensive reporting of patient status on the first pass and less manual blood films. Improved differential result quality is achieved through counting thousands of blood cells in seconds and flagging for immature and atypical cell lines.

Erba Mannheim's range of systems can be paired to provide a powerful solution for the analysis of hundreds of samples per day.

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H560

FULLY AUTOMATED 5 PART HEMATOLOGY ANALYSER

The H560 from Erba Mannheim is a next generation fully automated 5-part differential analyser designed for ease of use and premium analytical quality. The H560 features tri-angle laser flow cell technology enabling the reporting of full 5-part differentials with only three reagents. This combined with a sample volume requirement of only 15µL and low cost per test, make the H560 one of the most efficient systems available.

EASY USER INTERFACE

RELIABLE ENGINEERED CONSTRUCTION

EFFICIENT ANALYTICS

www.erbamannheim.com

H560

TECHNICAL SPECIFICATIONS

Analytical Modes	Graphics
Manual, Predilute, Capillary	• 3 Histograms (WBC/RBC/PLT) • 4 Scatterplots(DIFF x3, BAS□)
Total Parameters	**Sample Volume**
32: WBC, RBC, HGB, HCT, MCV, MCH, MCHC, ROW-CV, ROW-SD, PLT, MPV, PDWCV, POW-SD, PCT, P-LCR, P-LCC, Neu%, Lym%, Mon%, Eos%, Bas%, Neu#, Lym#, Mon#, Eos#, Bas#, ALY%*, LIC%*, ALY#*, LIC#*, NRBC%*, NRBC#*	• Whole Blood : 15 µL • CBC Only : 11 µL • Pre-diluted : 20 µL • Capillary : 20 µL
Principle of measurement	**Linearity Range**
• RBC/PLT/WBC: Electrical Impedance • DIFF: 3 Angle Laser Flow Cytomtery • HGB: Cyanide Free Colorimetry • MCV: Measured • HCT: Calculated	• WBC (x 1Qil9/L): 0 - 300 • RBC (x 1Qil l2/L): 0.00 - 8.50 • Hb (g/dl) : 0 - 25.0 • HCT(%): 0 - 67 • PLT (x 1Qil9/L) : 0 - 3000
Calibrator	**Tri-level Controls**
• ELite H Cal (3mL) • Open Vial Stability at 2-8°C: 7 Days	• ELite H5 CON L, N, H (3ml) • Open Vial Stability at 2-8°C: 14 Days

Throughput	Weight (Kg)	QC (L-J, X-BAR)	Dimension (mm)
60 Tests/Hr	26.5	Yes	364 x 498 x 431

Data Storage	Interfaces
50,000 Results with Graphs	4 USB + 1 LAN Port
Reagents	**Operating Environment**
• Erba Oil (20L) • Erba H560 Lyse 1 (200ml) • Erba H560 Lyse 2 (500ml) • Elite H Clean (50ml)	Temperature: 15-30°C Atmospheric pressure: 70kPa~106kPa
Power Requirements	
A.C.100-240V;-50/60Hz; ≤200VA	

ELITE 580

5-Part Differential VE

The advantages of using a five-part differential system are clear – more comprehensive reporting of patient status on the first pass and less manual blood films. Improved differential result quality is achieved through counting thousands of blood cells in seconds and flagging for immature and atypical cell lines.

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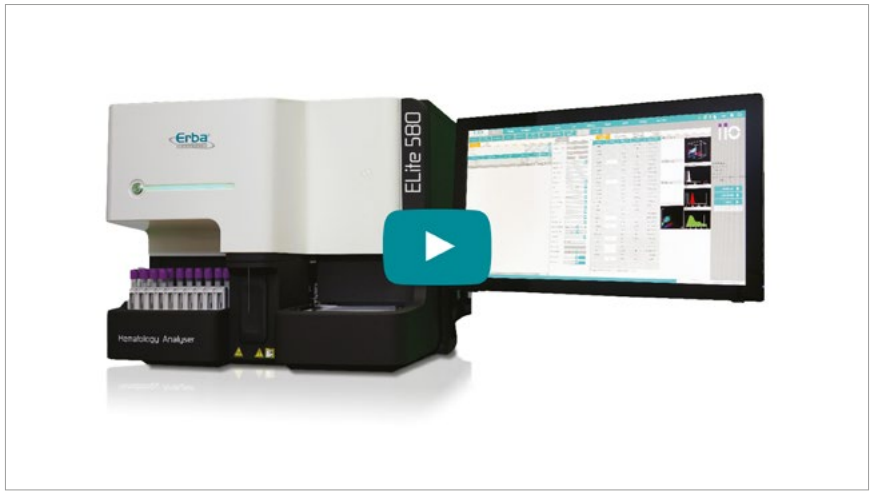

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ELITE 580

FULLY AUTOMATED 5 PART HEMATOLOGY ANALYSER

Elite 580 – Automation every step of the way. The sample analysis process could not be simpler with the Elite 580. Load up to 60 tubes on the autosampler and return 45min later to file the samples - analysis complete and results to the LIS. The Elite 580 is an excellent workflow upgrade for growing labs everywhere.

EASY USER INTERFACE

RELIABLE ENGINEERED CONSTRUCTION

EFFICIENT ANALYTICS

www.erbamannheim.com

ELITE 580

TECHNICAL SPECIFICATIONS

Principles	Parameters
• Impedance method for WBC, RBC, PLT counting • Cyanide-free reagent for Hemoglobin test • Flow Cytometry (FCM), Semi-conductor Laser scatter chemical dye method, independent Basophil chanel	WBC, LYM, LYM%, MON, MON%, NEU, NEU%, EOS, EOS%, BAS, BAS%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, PDW, MPV, PCT, P-LCR, P-LCC; 4 research parameters:ALY, ALY%, LIC, LIC%, 1x 3D scattergram, 3x 2D scattergram and 3 histograms
Throughput	**Test Mode**
Up to 80 samples per hour	• CBC • CBC+DIFF
Data Storage Capacity	**Communication**
UP to 100.000 results including numeric and graphical informations	LAN port supports HL7 protocol
Weight (Kg)	**Dimension (mm)**
56	620 x 620 x 535
Data Storage	**Interfaces**
50,000 Results with Graphs	4 USB + 1 LAN Port
Operating Environment	**Power Requirements**
Temperature: 15-30°C Humidity: 30-85% Air Pressure: 70~106 kPa	A.C.100-240V; ≤300VA; 50/60 Hz

Performance

Carryover	Repeatability	Linearity
WB ≤ 0.5%	≤ 2.0% (4.0 – 15.0x109/L)	0.00 – 300x109/L
RBC ≤ 0.5%	≤ 1.5% (3.50 – 6.0x1012/L)	0.00 – 8.50x1012/L
HGB ≤ 0.5%	≤ 1.5% (110 – 180 g/L)	0 – 250 g/L
PLT ≤ 1.0%	≤ 4.0% (150 – 500x109/L)	0 – 3000 x109/L Whole

As an emerging player in in-vitro diagnostics, with a global footprint, Erba Mannheim has a mission to make automation affordable for labs.

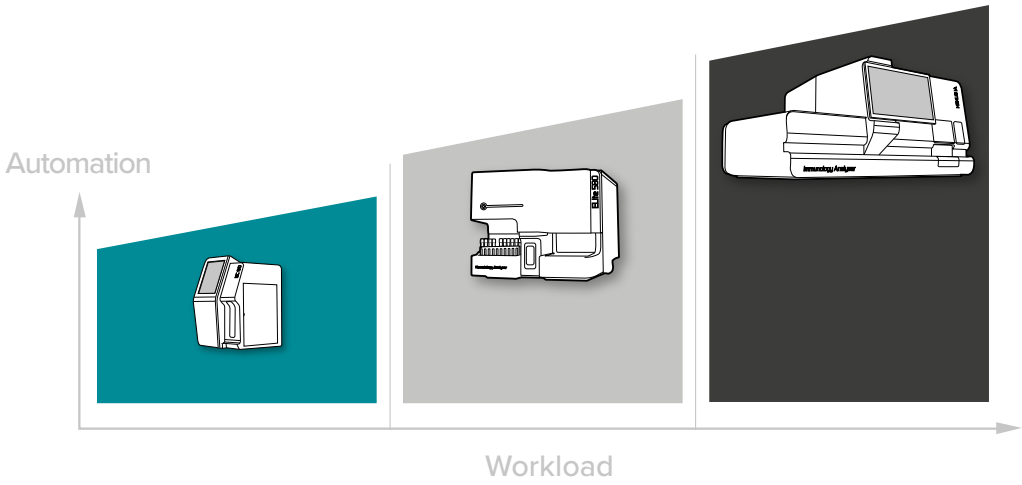
Providing hospitals and labs with a full range of diagnostic instruments, reagents and support services in more than 100 countries, our focus is on improving health outcomes in developing nations.

We believe every lab should benefit from automation, no matter how big or small. And we know that different labs have different needs, so we offer three distinct ranges of products, helping you to find the ideal solution.

Nexus Total Lab Automation Made Accessible

Vertex Powerful Automation for Mid-Sized Labs

Apex Basic Automation for Small Labs



	APEX BASIC AUTOMATION FOR SMALL LABS	VERTEX POWERFUL AUTOMATION FOR MID-SIZED LABS	NEXUS TOTAL LAB AUTOMATION MADE ACCESSIBLE
Lab size	Small	Mid-size	Large
Throughput	Low	Mid-range	Large
Automation	Semi-automation	Full automation	Full automation
Type	Bench-top	Bench-top or floor standing	Bench-top or floor standing
Footprint	Super compact	Compact	Compact/Medium
Look out for this symbol	AE	VE	NE

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