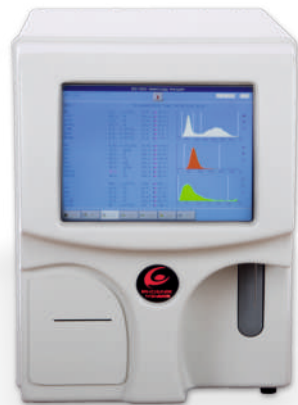


# HEMATOLOGY

HEMATOLOGY REAGENTS .....	Pg 4
HEMATOLOGY CONTROLS & CALIBRATORS .....	Pg 10
3-Diff AUTOMATED HEMATOLOGY ANALYZERS .....	Pg 12
5-Diff AUTOMATED HEMATOLOGY ANALYZERS .....	Pg 16



**THE BEST QUALITY  
IN THE WORLD  
YOU CAN GET...**

**HEMATOLOGY**  
*For Life*



**NEOMEDICA** develops, reaserches, manufactures and markets a complete range of high quality dedicated hematology reagents for 3-part and 5-part differential hematology analyzers.

Our compatible hematology reagents reach the level of quality, stability and shelf life of the original reagents, supplied by the instrument's manufacturer.

By using Neomedica hematology reagents, you meet good performance and get the same accurate results.

Our hematology reagents are manufactured in an ISO 13485 certified facility, they are CE marked and meet the requirements of the IVD Directive 98/97/EC.

We offer a wide range of hematology reagents compatible with most known blood cell counters from:

**ABBOTT, ABX, NIHON KOHDEN, SYSMEX, BECKMAN COULTER, MINDRAY, MEDONIC, SWELAB, DIATRON, URIT, HYCEL, ORPHEE, RAYTO, etc.**

Note: If the catalogue involves any third-party name, it's instruments, models and so, used strictly for describing Neomedica's product uses.

Beside standard reagents offer, OEM and ODM customers are welcome.

3-diff reagents

5-diff reagents

Veterinary reagents

Control blood

OEM reagents

DRYPACK (Powder reagents)

Liquid concentrates

## UNIQUE FEATURES AND BENEFITS

Completely compatible with original reagents - no readjustment and recalibration needed

Excellent shelf life and long open-vial stability

Cyanide-free, eco-friendly substances

Cost-effective

We use the high quality chemistry to prevent microbial growth during the long shelf life

We use extra strong cardboard boxes to prevent damage and collapsing of heavy diluent containers



## Reagents for NEOMEDICA hematology analyzers

### Phoenix NCC-2310

N117105	Neo-Diluent AC	20L
N117103	Neo-Diluent AC	5L
N117313	Neo-R-Cleaner	5L
N117201	Neo-Lyser AC	500mL
N117401	Neo-EA-Clean	50mL
N117400	Neo-EA-Clean	100mL
N11411	Neo-Probe Cleaner	50mL
N114100	Neo-Probe Cleaner	100mL

### Phoenix NCC-3300

N128105	Neo Diluent C	20L
N128103	Neo-Diluent C	5L
N128305	Neo Detergent C	20L
N128303	Neo-Detergent C	5L
N128201	Neo Lyse C	1L
N128202	Neo Lyse C	500mL
N239301	Neo-Cleaner 100	100mL

### Phoenix NCC-5500 / NCC-51

N117145	Neo-U-Diluent	20L
N117143	Neo-U-Diluent	5L
N117325	Neo-Cleanser	20L
N117323	Neo-Cleanser	5L
N117125	Neo-U-Sheath	20L
N117123	Neo-U-Sheath	5L
N117212	Neo-Lyser-WHP	1L
N117211	Neo-Lyser-WHP	500mL
N11411	Neo-Probe Cleaner	50mL
N117222	Neo-U-Stain	4mL tube (reticulocyte)

### Phoenix NCC-61 / NCC-51 with autoloader

N117505	Neo-Diluent E	20 L
N117535	Neo-Cleaner E	20 L
N117525	Neo-Sheath E	20 L
N117502	Neo-Lyse E	1 L
N117500	Neo-Rinse E	100 mL

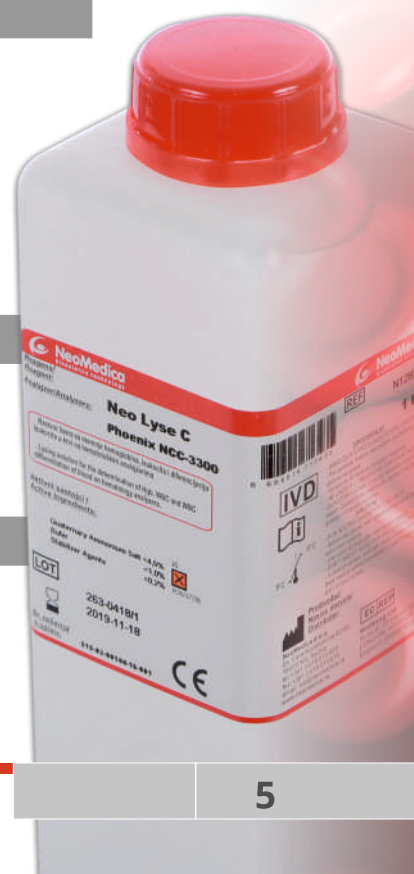
## NEOMEDICA Reagents for veterinary use

### Phoenix NCC-VET30 3-diff

N19105	Neo DW Diluent	20L
N19202	Neo DW Lyse	1L
N19415	Neo DW Klenz 1	20L
N19400	Neo Cleaner L	100mL

### Phoenix NCC-VET60 5-diff

N5250105-V	Neo Diluent B	20L
N5250201-V	Neo Lyse B	1L
N5250505-V	Neo Sheath B	20L
N5250305-V	Neo Detergent B	20L
N239301	Neo Cleaner 100	100mL



**Reagents for ABBOTT® hematology analyzers**

**CD3000, CD3500, CD3700**

N12145	Neo-Diluent CD5	20L
N12325	Neo-Detergent CD5	20L
N12233	Neo-WIC/HGB Lyse	3,8L
N122331	Neo-WIC/HGB Lyse	5L
N12164	Neo-Sheath	10L
N12165	Neo-Sheath	20L
N12400	Neo-EZ-Cleaner	50mL

**CD3200, Ruby**

N12125	Neo-Diluent/Sheath	20L
N12212	Neo-WBC Lyse	1L
N12213	Neo-WBC Lyse	5L
N12223	Neo-HGB/NOC Lyse	3,8L
N122231	Neo-HGB/NOC Lyse	5L
N12400	Neo-EZ-Cleaner	50mL

**CD1400EX,CD1600,CD1700,CD1800**

N12105	Neo-Diluent CD3	20L
N12305	Neo-Detergent CD3	20L
N12303	Neo-Detergent CD3	5L
N12203	Neo-Lyse CD3	5L
N12202	Neo-Lyse CD3	1L
N12400	Neo-EZ-Cleaner	50mL

**Emerald 3-diff (without barcode)**

N25105	Neo Diluent MT	20L
N25202	Neo MT Lyse	1L
N25402	Neo Cleaner MT	1L

**Reagents for ABX HORIBA® hematology analyzers**

**MICROS 60, MICROS ES60, 45/OT18, BAYER ADVIA 60 / Horiba LC550**

N13105	Neo Diluent-M	20L
N13202	Neo M-Lyse	1L
N13302	Neo-Cleaner-M	1L
N13401	Neo-Cleaner-C	500mL

**PENTRA60, PENTRA 80**

N13125	Neo-Diluent-P	20L
N13231	Neo-α-Lyse	400mL
N13222	Neo-EO-Lyse	1L
N13212	Neo-BA-Lyse 2	1L
N13312	Neo-Cleaner-P	1L
N13402	Neo-Cleaner-C	1L

**PENTRA60, PENTRA 120**

N13125	Neo-Diluent-P	20L
N13231	Neo-α-Lyse	400mL
N13222	Neo-EO-Lyse	1L
N13241	Neo-BA-Lyse	5L
N13312	Neo-Cleaner-P	1L
N13402	Neo-Cleaner-C	1L



## Reagents for **BECKMAN COULTER**® hematology analyzers

### AcT 5diff, AcT 5diff AL, AcT 5diff OV

N14125	Neo-5Diff Diluent	20L
N14230	Neo-5Diff HGB Lyse	400mL
N14212	Neo-5Diff WBC Lyse	1L
N14222	Neo-5Diff Fix	1L
N14302	Neo-5Diff Rinse	1L

### LH-750, GENS-S, STKS, HmX, MAXM

N14105	Neo-Isotonic Diluent	20L
N14202	Neo-Lyse Diff	1L
N14444	Neo-Lyse Pack	1900mL+500mL
N14403	Neo-E-Cleaner	5L

### ACT-DIFF, ACT-DIFF 2

N14100	Neo-ACT Pack	15L+300mL
N14403	Neo-E-Cleaner	5L
NMCC1000	Reagent Card (COULTER CARD)	for 1000 tests

## Reagents for **DIATRON**® hematology analyzers

### DIATRON ABACUS

N18105	Neo-Diluent DA	20L
N18202	Neo-Lyse DA	1L
N18402	Neo-Cleaner DA	1L

## Reagents for **MINDRAY** hematology analyzers

### BC 3000, BC 3000+, BC 2800, BC 2600, BC 2300, BC 3200, BC 3600

N11105	Neo-Diluent BC3	20L
N11305	Neo-Rinse & HGB Ref	20L
N11313	Neo-Rinse & HGB Ref	5L
N11201	Neo-Lyse BC3	500mL
N11400	Neo-CE-Clean	100mL
N114100	Neo-Probe Cleaner	100mL



DIFFERENT REAGENT PACKAGES ARE AVAILABLE ON REQUEST

Note: If the catalogue involves any third party name, its instruments, models and so, are used strictly for describing Neomedica's product uses.

## Reagents for **SYSMEX®** hematology analyzers

### XE-2100, XT-1800i /2000i, XS-800i/1000i

N16105	Neo-Diluent-ST	20L
N16281	Neo-SLS Lyser	500mL
N16282	Neo-SLS Lyser	5L
N16263	Neo-4DN-Lyser	5L
N16260	Neo-4DS-Lyser	42ml
N16283	Neo-FB-Lyser	5L
N16401	Neo-CelN-Cleaner	100ml

### SF - 3000

N16105	Neo-Diluent-ST	20L
N16281	Neo-SLS Lyser	500mL
N16282	Neo-SLS Lyser	5L
N16283	Neo-FB-Lyser	5L
N16273	Neo-FD-I Lyser	5L
N16271	Neo-FD-II Lyser	500mL
N16401	Neo-CelN-Cleaner	100mL

### KX-21, POCH 100i, XP 300

N16105	Neo-Diluent-ST	20L
N16201	Neo-Lyser-WH	500mL
N16401	Neo-CelN-Cleaner	100mL

## Reagents for **NIHON KOHDEN®** hematology analyzers

### MEK-6318, 6400, 6420, 6410, 6510, 6500

N110105	Neo-Diluent NK	20L
N110303	Neo-Rinse NK	5L
N110301	Neo-Rinse NK	1L
N110211	Neo-Lysis NK	500mL
N110403	Neo-Cleanac NK	5L
N110401	Neo-Cleanac NK	1L

### MEK-8222,7222

N110105	Neo-Diluent NK	20L
N110303	Neo-Rinse NK	5L
N110211	Neo-Lysis NK	500mL
N110403	Neo-Cleanac NK	5L
N110201	Neo-Lyse NK	500mL

## Reagents for **MEDONIC BOULE®** hematology analyzers

### CA620, CA610, CA570, CA530, M-serie 16/20, M32

N17105	Neo-Diluent CA	20L
N17203	Neo-Lyser CA	5L
N17204	Neo-Lyser CA	10L
N17403	Neo-Cleaner CA	5L

## Reagents for URIT<sup>®</sup> hematology analyzers

Urit 3000, 3000 plus, 3010, 2900, 2900 plus		
N121105	Neo Diluent 4	20L
N121202	Neo Lyse 4	1L
N121305	Neo Cleaner 4	20L
N11400	Neo-CE-Clean	100mL
N114100	Neo-Probe Cleaner	100mL

Urit 5500, 5250		
N123145	Neo Diluent F	20L
N123105	Neo Detergent F	20L
N123125	Neo Sheath F	20L
N123212	Neo Lyse F	1L
N117222	Neo-U-Stain	4mL tube (reticulocyte)
N114100	Neo-Probe Cleaner	100mL

## Reagents for RAYTO<sup>®</sup> hematology analyzers

Rayto RT-7600, RT-7600S, RT-7200		
N129105	Neo Diluent 1	20L
N129302	Neo Cleaner 1	1L
N129201	Neo Lyse 1	500mL
N239102	Neo Cleaner Strong	500mL

## Reagents for HUMAN<sup>®</sup> hematology analyzers

Humacount		
N124105	Neo Diluent 5	20L
N124202	Neo Lyse 5	1L
N124302	Neo Detergent 5	1L
N11400	Neo-CE-Clean	100mL
N114100	Neo-Probe Cleaner	100mL

## Reagents for ERMA<sup>®</sup> hematology analyzers

Erma PCE-210		
N118105	Neo Diluent 2	20L
N118202	Neo Lyse 2	1L
N118205	Neo Lyse 2	500mL
N118302	Neo Cleaner 2	1L
N118323	Neo Cleaner 2	5L
N11401	Neo-CE-Clean	50mL
N11411	Neo-Probe Cleaner	50mL

## Reagents for SWELAB BOULE<sup>®</sup> hematology analyzers

SWELAB 910, 920		
N17105-1	Neo-Diluent CA	20L
N17203-1	Neo-Lyser CA	5L
N17403-1	Neo-Cleaner CA	5L

## Reagents for ORPHEE<sup>®</sup> hematology analyzers

ORPHEE MYTHIC 18		
N15105	Neo-Diluent-MT	20L
N15202	Neo-MT-Lyse	1L
N15402	Neo-Cleaner-MT	1L

## HEMATOLOGY CONTROLS & CALIBRATORS

***Do you want to set up a total quality control in your laboratory ?***

NEOMEDICA DOO offers mono and multi-level hematology Whole Blood controls with 3-part and 5-part WBC differential and calibrators for all types of hematology analyzers used on worldwide market.

***ABBOTT, ABX, NIHON KOHDEN, SYSMEX, BECKMAN COULTER, MINDRAY, URIT, HYCEL, etc.***

Level 1 / Level 2 / Level 3 controls for Phoenix analyzer, both 3-diff and 5-diff.  
Calibrator is available in a separate package.

**Mono and multi-level packages** are adopted to fulfill customers needs

**Planned deliveries** in advance

Constant and **reliable technical assistance**

**Long open vial stability**



HC 1003 Neo Control N 1x3ml Hematology control (Normal level)  
HC 3003 Neo Control N 3x3ml Hematology control (Normal level)  
HC 6003 Neo Control N 6x3ml Hematology control (Normal level)  
HC 12003 Neo Control N 12x3ml Hematology control (Normal level)

HC 1103 Neo Control L 1x3ml Hematology control (Low level)  
HC 3103 Neo Control L 3x3ml Hematology control (Low level)  
HC 6103 Neo Control L 6x3ml Hematology control (Low level)  
HC 12003 Neo Control L 12x3ml Hematology control (Low level)

HC 1203 Neo Control H 1x3ml Hematology control (High level)  
HC 3203 Neo Control H 3x3ml Hematology control (High level)  
HC 6203 Neo Control H 6x3ml Hematology control (High level)  
HC 12203 Neo Control H 12x3ml Hematology control (High level)

HC 1303 Neo CBC Timepac 1x3ml Hematology Calibrator  
HC 3303 Neo CBC Timepac 3x3ml Hematology Calibrator  
HC 6303 Neo CBC Timepac 6x3ml Hematology Calibrator  
HC12303 Neo CBC Timepac 12x3ml Hematology Calibrator

**NEO Control N / L / H**  
**NEO CBC Timepac**





***Your trusted partner  
for more than 2 decades!***



# PHOENIX NCC-3300

**Fully automated 3-diff Hematology Analyzer  
 (60 samples / hour)**



## The most advanced model of 3-Diff hematology analyzers

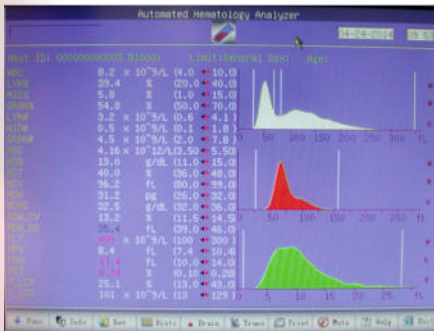
Phoenix NCC-3300 is an ideal solution for small and medium-sized laboratories with its attractive design, user-oriented software and reliable performances. This is our most advanced 3-diff model characterized by fast and precise analysis and excellent cost-effectiveness.

With one of the lowest sample volumes on the market, this analyzer displays 24 parameters with 3 histograms in just 60 seconds and the results are printed on the quiet inbuilt thermal printer. The stable Linux operating system, sophisticated and easy-to-use software and a large colour touch screen are just some of the reasons why it is the first choice of laboratory professionals around the globe.

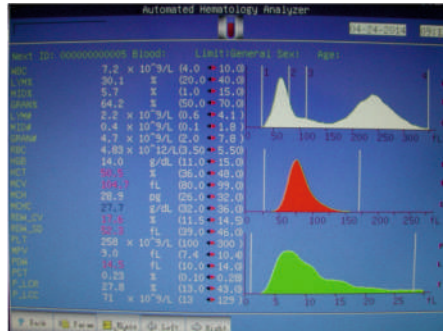
Our cyanide-free reagents with the new, improved formula guarantee low consumption and provide a great economic solution without neglecting the accuracy of the results and stability of the device.



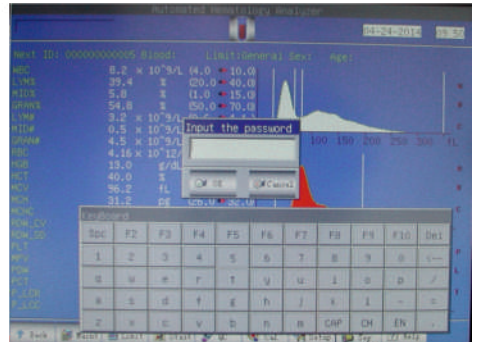
Main window



Parameters



Service input



## TECHNICAL SPECIFICATIONS

- Principle: Electrical impedance method for counting, HGB: Photoelectric colorimetry
- Parameter: 3-part differentiation of WBC
- Detected parameters as follows:  
WBC, LYM#, MID#, GRAN#, LYM%, MID%, GRAN%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW, PCT, P-LCR, P-LCC
- Mode: Whole blood, Capillary, Prediluted
- 24 parameters including 3 histograms (WBC, RBC, PLT)
- Working mode: Double counting pathway and independent HGB detection system
- Sample volume: Whole blood 10µL, Pre-diluted 20µL
- Dimension of aperture: WBC: 100µm, RBC/PLT: 68µm
- General Throughput: 60 samples/hour
- 24 hour/day running continuous
- Auto stand-by
- Easy data back-up and system upgrade by USB
- Storage: Up to 100.000 sample results including histograms
- QC Mode: L-J, X, X-R, X-B
- Calibration mode: manual calibration and auto calibration
- Linux operating system
- High Quality touch screen: 10.4" LCD large LCD screen with touch function
- Dilution ratio:
 

	WBC/HGB	RBC/PLT
Whole blood	1:232	1:40000
Capillary blood	1:400	1:45000
- Power supply: AC100-240V~50/60Hz
- Interface: RS232 , standard network port and USB, integrated graphic thermal printer  
Parallel port and USB for external printer
- Report: Built-in rapid thermal recorder, optional external printer, 8 report formats
- Alarm and warnings: Reagent empty, Waste full, Reagent temperature abnormal, etc
- Supported languages: EN, RU, SR
- Dimensions: 330x530x460mm (WxDxH), 25kg

**Color TOUCH SCREEN**  
High accuracy and Fast Analysis

**Upgraded with**  
Closed system of reagents



Coefficient of Variation	Linearity Range
WBC ≤ 2.0%	WBC: 0.0x10 <sup>9</sup> /L - 99.9x10 <sup>9</sup> /L
RBC ≤ 1.5%	RBC: 0.1x10 <sup>12</sup> /L - 7.00x10 <sup>12</sup> /L
HGB ≤ 1.5%	HGB: 0 - 300 g/L
MCV ≤ 0.5%	PLT: 0x10 <sup>9</sup> /L - 999x10 <sup>9</sup> /L
HCT ≤ 1.0%	
PLT ≤ 4.0%	

### Reagents for NCC-3300 hematology analyzers

Phoenix NCC-3300		
N128105	Neo Diluent C	20L
N128305	Neo Detergent C	20L
N128201	Neo Lyse C	1L
N239301	Neo Cleaner 100	100mL

# PHOENIX NCC-2310

**Fully automated 3-diff Hematology Analyzer  
( 60 samples / hour)**

## Redesigned well proved model of 3-Diff hematology analyzers

Phoenix NCC-2310 is a redesigned 3-diff model of Neomedica's automated hematology analyzers, user-oriented, easy to use with sophisticated software combined with large 8,4" touch screen.

High performance analysis of phoenix NCC-3300 displays 23 parameters with 3 histograms in just 60 seconds and prints results on a quiet, fast inbuilt thermal printer. Advanced electronics based on a stable Linux operating system, combined with precise mechanics ensure reliable hematology results. Cyanide-free reagents with improved formula allow low consumption, are cost efficient and require minimal maintenance.

Unique sweep flow technology to avoid recounting.

### TECHNICAL SPECIFICATIONS

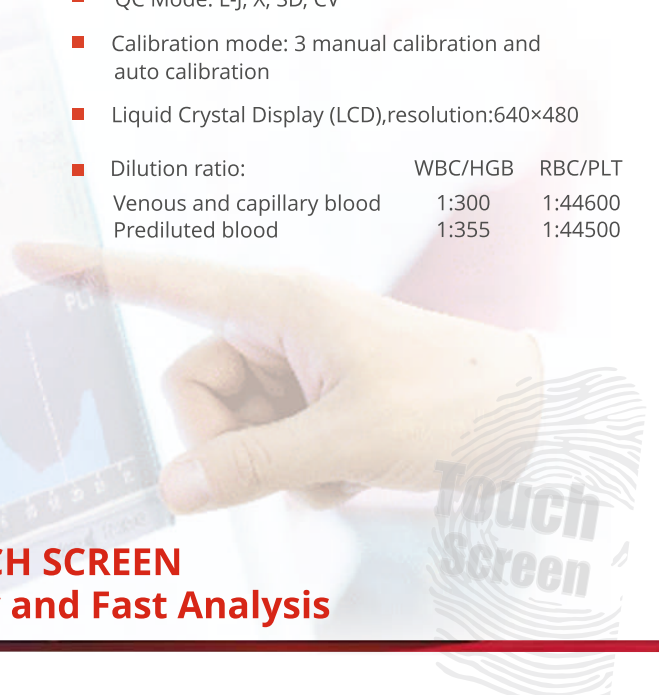
- Principle: Electrical impedance method for counting, HGB: Colorimetry method for hemoglobin
- Parameter: 3-part differentiation of WBC
- Detect parameter as follows:  
WBC, LYM#, MID#, GRAN#, LYM%, MID%, GRAN%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW, PCT, P-LCR.
- 23 parameters including 3 histograms (WBC, RBC, PLT)
- Mode: Whole blood, Capillary, Prediluted Venous Blood Mode: 9.6µL Venous Blood  
Capillary Blood Mode: 9.6µL Capillary Blood  
Prediluted Mode: 20µL Capillary Blood
- Working mode: Double counting pathway and independent HGB detection system
- Dimension of aperture: WBC: 100µm, RBC/PLT: 80µm
- General Throughput: **60 samples/hour**
- 24 hour/day running continuous
- Auto stand-by
- Easy data back-up and system upgrade by USB
- Storage: Up to **50.000 sample results** including histograms
- QC Mode: L-J, X, SD, CV
- Calibration mode: 3 manual calibration and auto calibration
- Liquid Crystal Display (LCD), resolution: 640×480
- Dilution ratio:
 

	WBC/HGB	RBC/PLT
Venous and capillary blood	1:300	1:44600
Prediluted blood	1:355	1:44500

**HEMATOLOGY ANALYZERS**



**Color TOUCH SCREEN  
High accuracy and Fast Analysis**



*Advanced technology at your fingertips...*

## TECHNICAL SPECIFICATIONS

- Interface: One power input socket, One VGA display port, One RS-232 serial port, Four USB interfaces  
One Ethernet port, Linux software
- Report: Built-in rapid thermal recorder, optional external printer, 8 report formats
- Operating Ambient Temperature: 15-35°C, Hum 10-90%  
Atmospheric pressure: 86.0 kPa~106.0 kPa
- Ambient Storage Temperature: -10-40°C, Hum ≤80%  
Atmospheric pressure: 50.0 kPa~106.0 kPa
- Operation mode: Color Linux  
touch screen interface, mouse input
- Cross contamination ratio:  
WBC, RBC, HGB<0.5%, PLT<1%

- Recorder:  
Rapid thermal Recorder, Internal printer  
External printer supported
- Electric Specifications  
Power Supply: AC 100~240V, 50±1Hz,  
The maximum input consumption is 150VA
- Dimensions: 325x380x430mm (WDXH), Weight: 23kg

**HQ large LCD Touch screen**

**Modern and reliable solution for small and mid-sized laboratories**

**Ideal for clinic labs and private practices**

**Low blood sample volume with 9.6µL**

**Linux interface, figure button, mouse input**

**Intelligent auto detection and maintenance program and intelligent float discriminator**

**Automatic cleaning of sample probe (inside and outside)**

**Automatic reagent residual alarm**

Coefficient of Variation	Linearity Range
WBC ≤2.5%	WBC: 0.0- 99.9x10 <sup>3</sup> /uL
RBC ≤2.0%	RBC: 0.00- 9.99x10 <sup>6</sup> /uL
HGB ≤1.5%	HGB: 0 - 30 g/dL
MCV ≤0.4%	40-150fL
PLT ≤5.0%	PLT: 0-999x10 <sup>3</sup> /uL

## REAGENTS

Innovative reagents with long shelf-life and improved packaging allow easy handling and extremely low consumption.

### Reagents for NCC-2310 hematology analyzer

Phoenix NCC-2310		
N117105	Neo Diluent AC	20L
N117313	Neo -R Cleaner	5L
N117201	Neo Lyser AC	500mL
N117400	Neo-EA Cleaner	100mL
N114100	Neo-Probe Cleaner	100mL

**PHOENIX**  
NCC-2310

**Reliable and Efficient.  
Compact, Economical and Perfect.**



## PHOENIX NCC-61

**Fully automated 5-diff Hematology Analyzer  
(60 samples / hour)**

*Neomedica's newest wonder: fast and precise 5-diff analysis in the body of a 3-diff device.*

- **Phoenix NCC-61** is one of the latest achievements from Neomedica in the field of hematology which has gained great attention from the date of its launching and which has already found its way on many markets.
  - As one of the closed systems currently in our offer, this analyzer uses only 4 onboard reagents for 5-diff analysis (1 sheath) with RF cards which account for smooth operation and ensure precise results.
  - Sophisticated flow cytometry technology, intelligent detection and maintenance mechanisms that facilitate handling and troubleshooting figure as key elements in the satisfaction of the customers, whose numbers rise by the day.
  - The instrument provides a fast count and complete analysis including cell size, granularity and complexity. You only need to aspirate the whole blood samples and in only 60 sec scattergram and results are going to be displayed on the LCD screen.
- **Multi-dimensional cell classification by laser light**
  - **Resistant RBC mode**
  - **WIC and WOC for WBC counting**
  - **Up to 60 samples per hour throughput**
  - **WBC 5 part diff with sheath reagent only**

### MAIN ADVANTAGES

- **COMPACT**
- **FLOW CYTOMETRY LASER TECHNOLOGY**
- **RF CARD ensures reliable results**
- **4 Cyanide-free reagents**

*A closed system that will open many doors in small and medium-sized labs and big hospitals alike.*

### FEATURES:

- PHOENIX NCC-61 uses semi-conductor laser for the flow cytometry system.
- Automatic cleaning of sample probe (inside and outside)
  - Intelligent detection and maintenance
  - LIS
  - Resistant RBC mode
  - Automatic reagent residual alarm
  - Comprehensive QC program
  - Cyanide-free reagents



## TECHNICAL SPECIFICATIONS

- Tested parameters: 34 parameters  
WBC,LYM%,MON%,NEU%,EOS%,BASO%,LYM#,  
MON#,NEU#,EOS#,BAS#,RBC,HGB,HCT,MCV,MCH,  
MCHC,RDW\_CV,RDW\_SD,PLT,MPV,PDW,PCT,P\_LCR,  
P\_LCC,
- 6 Research parameters: ALY%, ALY#, LIC%, LIC#,  
NRBC%, NRBC#  
2 Histograms for RBC and PLT  
2 Scatter grams: 5-part differential scatter gram  
Eosinophils and Neutrophils scatter gram  
2 3D stereograms
- 3 reticulocyte** parameters:  
RETIC%,RETIC\_ABS, IRF
- Principles of operation:  
WBC/DIFF: Flow Cytometry, Semi-conductor,  
Laser light multi-dimensional cell classification  
WBC Analysis: Optical and impedance measurements  
RBC/PLT Analysis: Impedance method  
HGB test: Cyanide-free reagent colorimetry
- Sample: Whole blood 20µL, Pre-diluent 20µL
- Reagents: 4 cyanide free reagents onboard  
Diluent, Sheath, Detergent, Lyser
- Aperture diameter: WBC 100µm,  
RBC/PLT 68µm
- Throughput: up to 60 samples / hour
- Data storage: up to 200.000 results with  
grams
- Controls: LJ, X, XR, XB control mode etc.
- Double WBC counting mode (Impedance  
& Optical)
- Display: 10.4 inch with touch screen
- Error messages and pathological flagging
- Supported languages: EN,RU,ES,FR,PT
- Electric Specifications  
Power Supply: AC 100V~240V, 50/60Hz,  
Fuse 250V/3.15AH
- External printer supported
- Weight: 35kg

## REAGENTS

- Cyanide free reagents with long shelf-life and improved packaging allow easy handling and extremely low consumption.

### Reagents for NCC-61 hematology analyzers

CODE	PRODUCTS	PACK
N117505	Neo-Diluent E	20 L
N117535	Neo-Cleaner E	20 L
N117525	Neo-Sheath E	20 L
N117502	Neo-Lyse E	1 L
N117500	Neo-Rinse E	100 mL

Coefficient of Variation	Linearity Range
WBC ≤ 2.5%	WBC: 0.0- 99.9x10 <sup>3</sup> /uL
RBC ≤ 2.0%	RBC: 0.00- 9.99x10 <sup>6</sup> /uL
HGB ≤ 1.5%	HGB: 0 - 30 g/dL
MCV ≤ 0.4%	40-150fL
PLT ≤ 5.0%	PLT: 0-999x10 <sup>3</sup> /uL

4 determination methods:

- The **laser light method** for determining the quantity and Five-Part-Diff of WBC
- Electrical impedance method** for determining the quantity of RBC and PLT
- The **colorimetric method** for determining the content of HGB
- MCV,HCT,RDW,MPV,PDW,MCH,MCHC,PCT are obtained directly by calculating the stored data.

### RF ID Cards



**Reliable and Efficient.**  
**Compact, Economical and Perfect.**

# PHOENIX NCC-51

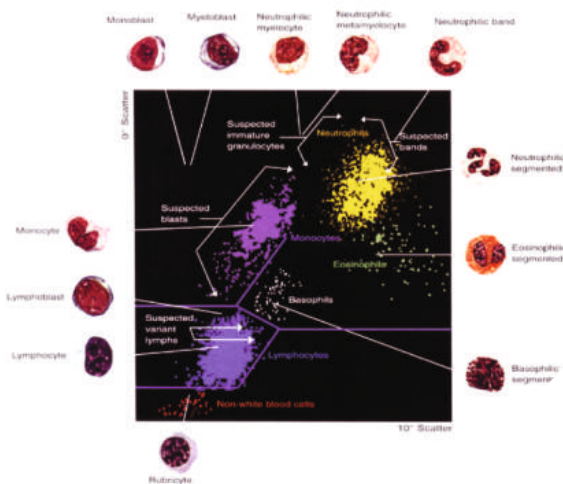
*Fully automated 5-diff Hematology Analyzer  
(60 samples / hour)*



## with RETICULOCYTE Analysis

- Phoenix NCC-51 automated hematology analyzer is one of the most advanced model in a wide range of Neomedica hematology analyzers. Characterized by simplicity in operation it provides cost-effective, precise, fast and accurate 5-part differential results.
- Through calculations of different angles via laser scatters, the instrument provides complete analysis including cell size, granularity and complexity.
- The instrument provides a fast count. You only need to put the whole blood samples and in only 60 sec. three-dimensional graphic data and results are going to be displayed on LCD screen.

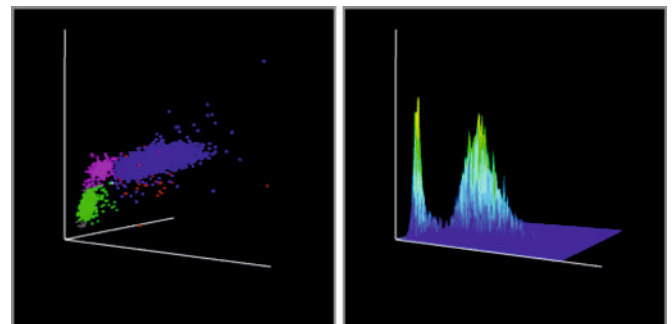
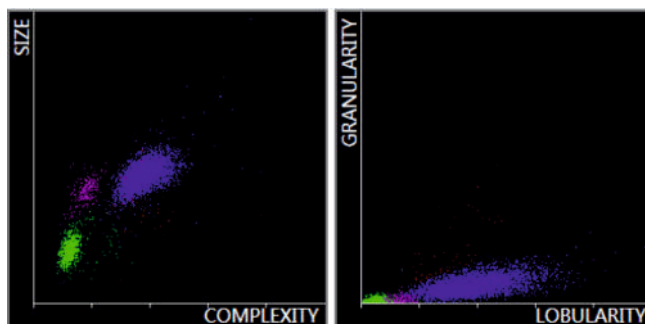
### 5-part differential scatter gram



### FEATURES:

- PHOENIX NCC-51 uses semi-conductor laser for the flow cytometry system.
- Automatic cleaning of sample probe (inside and outside)
- Intelligent detection and maintenance
- Automatic reagent residual alarm
- LIS
- Resistant RBC mode
- Comprehensive QC program
- Cyanide-free reagents

### Three-dimensional Plot



## TECHNICAL SPECIFICATIONS

- Tested parameters: 34 parameters  
WBC,LYM%,MON%,NEU%,EOS%,BASO%,LYM#,  
MON#,NEU#,EOS#,BAS#,RBC,HGB,HCT,MCV,MCH,  
MCHC,RDW\_CV,RDW\_SD,PLT,MPV,PDW,PCT,P\_LCR,  
P\_LCC,  
6 Research parameters: ALY%, ALY#, LIC%, LIC#,  
NRBC%, NRBC#  
3 **reticulocyte** parameters:  
RETIC,RETIC\_ABS, IRF
- Principles of operation:  
WBC/DIFF: Flow Cytometry, Semi-conductor,  
Laser light multi-dimensional cell classification  
WBC Analysis: Optical and impedance measurements  
RBC/PLT Analysis: Impedance method  
HGB test: Cyanide-free reagent colorimetry
- Sample: Whole blood 20µL, Pre-diluent 20µL
- Reagents: **4 cyanide free reagents** onboard  
Diluent, Sheath,Detergent, Lyser
- Windows operating system
- 2 Histograms for RBC and PLT  
2 Scatter grams: 5-part differential Eosinophils  
and Neutrophils scatter gram  
2 **3-D Stereograms**
- Throughput: up to 60 samples / hour
- Aperture diameter: WBC 100µm,  
RBC/PLT 68µm
- Controls: LJ, X, XR, XB control mode etc.
- Data storage: More than 200.000 sample  
results with grams
- **Double** WBC counting mode (Impedance  
& Optical)
- Display: PC display (14 inch color TFT)  
Bi-directional LIS and Barcode Reading
- Resistant RBC mode
- 3 Calibration modes: Automatic Calibration,  
Whole Blood Calibration and Manual Calibration
- Supported languages: EN,RU,ES,FR,PL,PT
- Electric Specifications  
Power Supply: AC 100V~240V, 50/60Hz,  
Fuse 250V/3.15AH
- Automatic reagent residual alarm
- Dimensions: 560x595x500mm (WDXH),  
Weight: 70kg, Gross weight: 145 kg

## REAGENTS

- Cyanide free reagents with long shelf-life and improved packaging allow easy handling and extremely low consumption.

### Reagents for NCC-51 hematology analyzers

CODE	PRODUCTS	PACK
N117145	Neo-U-Diluent	20 L
N117325	Neo-Cleanser	20 L
N117125	Neo-U-Sheath	20 L
N117212	Neo-Lyser-WHP	1 L
Reticulocyte:		
N117222	Neo-U-Stain	4mL

**PC DISPLAY**  
**34 parameters**  
**2 Histograms**  
**2 Scatter grams**  
**2 3-D stereograms**

4 determination methods:

- The **laser light method** for determining the quantity and Five-Part-Diff of WBC
- **Electrical impedance method** for determining the quantity of RBC and PLT
- The **colorimetric method** for determining the content of HGB
- MCV,HCT,RDW,MPV,PDW,MCH,MCHC,PCT are obtained directly by calculating the stored data.

Coefficient of Variation	Linearity Range
WBC ≤ 1.5%	WBC: 0.0x10 <sup>9</sup> /L - 99.9x10 <sup>9</sup> /L
RBC ≤ 1.0%	RBC: 0.1x10 <sup>12</sup> /L - 7x10 <sup>12</sup> /L
HGB ≤ 1.5%	HGB: 0 - 300 g/dL
MCV ≤ 1.0%	
HCT ≤ 2.0%	PLT: 0x10 <sup>9</sup> /L - 999x10 <sup>9</sup> /L
PLT ≤ 4.0%	

**Reliable and Efficient.**  
**Compact, Economical and Perfect.**

## ***PHOENIX NCC-51 with Autoloader***

***Fully automated 5-diff Hematology Analyzer  
(up to 60 samples / hour)***

Phoenix NCC-51 automated hematology analyzer equipped with an autoloader is one of the most advanced models in wide range of Neomedica hematology analyzers.

Characterized by simplicity in operation it provides cost-effective, precise, fast and accurate 5-part differential results.

- Through calculations of different angles via laser scatters, the instrument provides complete analysis including cell size, granularity and complexity.
- The instrument provides a fast count with continuous sampling of 50 pcs per batch, and can process the emergency sample test any time. Three-dimensional graphic data and results are going to be displayed on LCD screen.

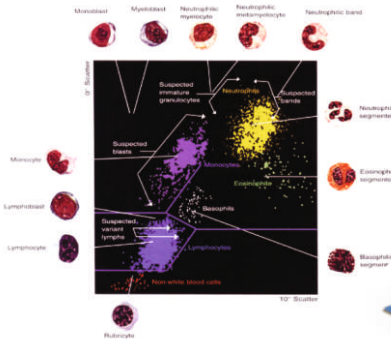


**with RETICULOCYTE Analysis**

### **FEATURES:**

- PHOENIX NCC-51 with autoloader uses semi-conductor laser for the flow cytometry system.
- Automatic cleaning of sample probe (inside and outside)
- Intelligent detection and maintenance
- Automatic reagent residual alarm
- LIS
- Resistant RBC mode
- Comprehensive QC program
- Cyanide-free reagents

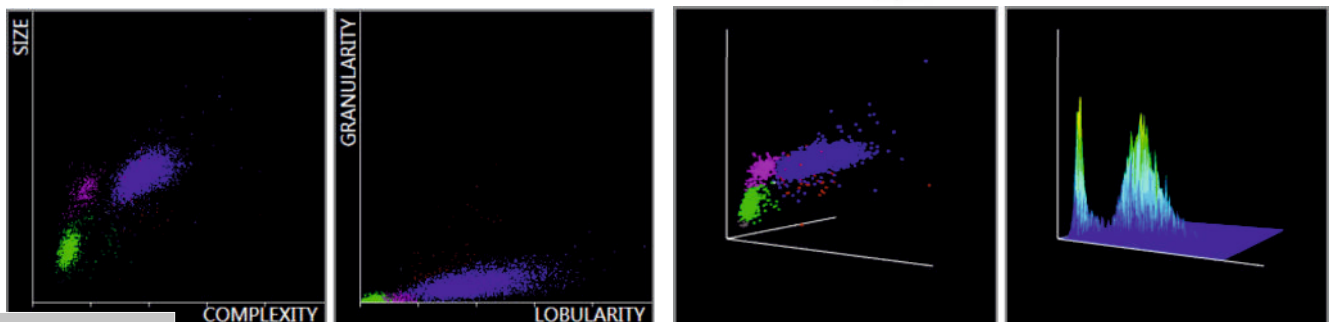
### **5-part differential scatter gram**



**RF ID Cards available**



**Three-dimensional Plot**





## TECHNICAL SPECIFICATIONS

- Tested parameters: 34 parameters  
WBC,LYM%,MON%,NEU%,EOS%,BASO%,LYM#,  
MON#,NEU#,EOS#,BAS#,RBC,HGB,HCT,MCV,MCH,  
MCHC,RDW\_CV,RDW\_SD,PLT,MPV,PDW,PCT,P\_LCR,  
P\_LCC,  
3 **reticulocyte** parameters: RETIC,RETIC\_ABS, IRF  
6 Research parameters: ALY%, ALY#, LIC%, LIC#,  
NRBC%, NRBC#
- Principles of operation:  
WBC/DIFF: Flow Cytometry, Semi-conductor,  
Laser light multi-dimensional cell classification  
WBC Analysis: Optical and impedance measurements  
RBC/PLT Analysis: Impedance method  
HGB test: Cyanide-free reagent colorimetry
- Sample: Whole blood 20µL, Pre-diluent 20µL
- Enclosed puncture sampling, continuous sampling,  
50 pcs of samples processing per batch, emergency  
sample test performed at any time
- Reagents: **4 cyanide free reagents** onboard  
Diluent, Sheath,Detergent, Lyser
- Windows operating system
- 2 Histograms for RBC and PLT  
2 Scatter grams: 5-part differential Eosinophils  
and Neutrophils scatter gram  
2 **3-D Stereograms**
- Throughput: up to 60 samples / hour  
50 autoloader positions
- Aperture diameter: WBC 100µm,  
RBC/PLT 68µm
- Controls: LJ, X, XR, XB control mode etc.
- Data storage: Up to 200.000 sample  
results with grams
- Supported languages: EN,RU,ES,FR,PL,PT
- Double** WBC counting mode (Impedance  
& Optical)
- Display: PC display (14 inch color TFT)  
Bi-directional LIS and Barcode Reading
- Resistant RBC mode
- 3 Calibration modes: Automatic Calibration,  
Whole Blood Calibration and Manual Calibration
- Output: External printer, option to print the  
histogram. Different warning alarms announce  
probable abnormalities of specimens.
- Electric Specifications  
Power Supply: 220V, 50/60Hz, 300VA  
Fuse 250V/3.15AH
- Automatic reagent residual alarm
- Dimensions: 660x560x545mm (WDXH),  
Weight: 73kg

## REAGENTS

- Cyanide free reagents with long shelf-life and  
improved packaging allow easy handling and  
extremely low consumption.

### Reagents for NCC-51 hematology analyzers

CODE	PRODUCTS	PACK
N117505	Neo-Diluent E	20 L
N117535	Neo-Cleaner E	20 L
N117525	Neo-Sheath E	20 L
N117502	Neo-Lyse E	1 L
N117500	Neo-Rinse E	100 mL

### Reticulocyte:

N117222 Neo-U-Stain 4mL

**PC DISPLAY**  
**34 parameters**  
**2 Histograms**  
**2 Scatter grams**  
**2 3-D stereograms**

### 4 determination methods:

- The **laser light method** for determining the quantity and  
Five-Part-Diff of WBC
- Electrical impedance method** for determining the  
quantity of RBC and PLT
- The **colorimetric method** for determining the content of  
HGB
- MCV,HCT,RDW,MPV,PDW,MCH,MCHC,PCT are obtained  
directly by calculating the stored data.

Coefficient of Variation	Linearity Range
WBC ≤ 1.5%	WBC: 0.0x10 <sup>9</sup> /L - 99.9x10 <sup>9</sup> /L
RBC ≤ 1.0%	RBC: 0.1x10 <sup>12</sup> /L - 7x10 <sup>12</sup> /L
HGB ≤ 1.5%	HGB: 0 - 300 g/dL
MCV ≤ 1.0%	
HCT ≤ 2.0%	PLT: 0x10 <sup>9</sup> /L - 999x10 <sup>9</sup> /L
PLT ≤ 4.0%	

**Reliable and Efficient.**  
**Compact, Economical and Perfect.**

\*Information may vary among different software version of unit.



## **PHOENIX NCC-5500**

*Fully automated 5-diff Hematology Analyzer (110 samples / hour)*

**High speed, secure and accurate solution for your lab. with RETIC Analysis**

- **Phoenix NCC-5500** fully automated hematology analyzer is the most advanced model in a wide range of Neomedica hematology analyzers. Characterized by simplicity in operation it provides cost-effective, precise and accurate 5-part differential results.
- The instrument provides a fast count, all operations (including sampling, measurement and results output) are fully automated. You only need to put the whole blood samples on the test tube rack and in less than a minute three-dimensional graphic data and results will be displayed in the LCD screen.
- The instrument is able to perform sampling and rinsing of the residual blood on the sample aspiration probe, thus avoiding contact with the samples. This feature ensures maximal security for the operator.
- The unit contains the possibility to track and monitor the quantity of reagent remaining. High throughput load
- This analyzer is an ideal solution for high-end hospitals, laboratories and clinics that look for more advanced technology, reliable, safe, accurate and easy-to-use instrumentation.



### **MAIN ADVANTAGES**

- Rotary shear valve
- LED light source, 540nm wavelength colorimetry
- Just 4 cyanide-free reagents
- Automatic mixing of samples

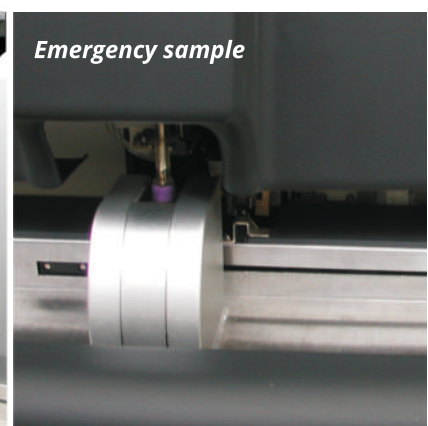
### **FEATURES**

- PHOENIX NCC-5500 uses semi-conductor laser for the flow cytometry system
- Automatic cleaning of sample probe (inside and outside)
- Intelligent detection and maintenance
- Automatic reagent residual alarm
- LIS
- Resistant RBC mode
- Comprehensive QC program
- Avoid direct contact with samples and assure safety

**HEMATOLOGY ANALYZERS**



*Auto-loader, 120 samples*



*Emergency sample*

## TECHNICAL SPECIFICATIONS

- 34 parameters  
3D plot, scattergrams, histograms
- Detected parameters:  
WBC, LYM%, MON%, NEU%, EOS%, BAS%, LYM#,  
MON#, NEU#, EOS#,BAS#, RBC, HGB, HCT, MCV,  
MCH, MCHC, RDW\_CV, RDW\_SD, PLT, MPV, PDW,  
PCT, P\_LCR,P\_LCC  
3 reticulocyte parameters: RETIC%,RETIC\_ABS, IRF  
6 Research parameters: ALY%, ALY#, LIC%, LIC#,  
NRBC%, NRBC#
- Windows operating system
- Sampling modes:  
Autoloader 50µL, manual (emergency) 50µL,  
Pre-diluted mode 40µL
- Throughput  
Autoloader: up to 110 samples per hour  
Manual mode: up to 100 samples /hour

- Autoloader: Automatic sampling device with a capacity of 120 samples
- Controls: LJ, X, XR, XB control mode etc.
- 3 Calibration modes: Automatic Calibration, Whole Blood Calibration, and Manual Calibration
- Data storage: more than 200.000 sample results with grams
- Supported languages: EN,RU,ES,FR,PL,PT
- Display: PC display with Windows system  
Bi-directional LIS and Barcode Reading
- Automatic reagent residual alarm
- Dimensions: 670mm(H)x790mm(L)x690mm(W)  
Weight: 91,5 kg, Gross weight 210 kg

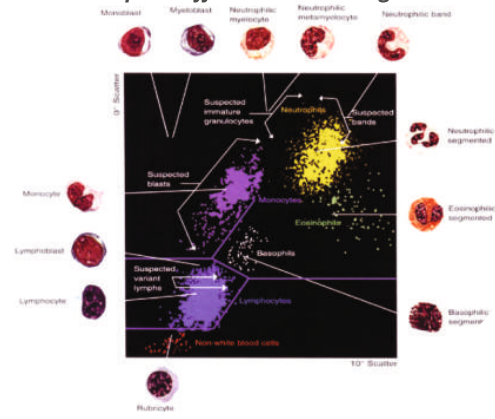
Coefficient of Variation	Linearity Range
WBC ≤ 1.5%	WBC: 0.0x10 <sup>9</sup> /L - 99.9x10 <sup>9</sup> /L
RBC ≤ 1.0%	RBC: 0.1x10 <sup>12</sup> /L - 7x10 <sup>12</sup> /L
HGB ≤ 1.5%	HGB: 0 - 300 g/dL
MCV ≤ 1.0%	
HCT ≤ 2.0%	PLT: 0x10 <sup>9</sup> /L - 999x10 <sup>9</sup> /L
PLT ≤ 4.0%	

- **Emergency sample testing**
- Special intelligent recognition test tube bar coded rack allows continuous sampling.
- Two units (WOC & WIC) for selection of WBC, RBC, HGB, PLT and other elements and parameters.
- A batch of 120 samples can be handled at a time, and the emergency sample can be inserted at any time.

4 determination methods:

- The **laser light method** for determining the quantity and Five-Part-Diff of WBC
- **Electrical impedance method** for determining the quantity of RBC and PLT
- The **colorimetric method** for determining the content of HGB
- MCV,HCT,RDW,MPV,PDW,MCH,MCHC,PCT are obtained directly by calculating the stored data.

### 5-part differential scatter gram



### Three-dimensional Plot

