Specifications

XN-Series Automated Haematology Analysers
XN-1500

Simplifying Automation

Principles & Technologies

Fluorescent Flow Cytometry	WBC, Differential, NRBC, RET, IRF, PLT-F, IPF, HPC, 2 part differential for body fluid analysis
Hydrodynamic Focusing (DC Detection)	PLT-I (Impedance), RBC, HCT
Cyanide-free SLS Method	Haemoglobin

30 Standard Parameters

WBC, NRBC#, NRBC%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, MicroR, [1]MacroR, PLT, PDW, MPV, PCT, P-LCR, NEUT#, NEUT%, LYMPH#, LYMPH%, MONO#, MONO%, EOSIN#, EOSIN%, BASO#, BASO%, IG#, IG%

16 Optional Parameters

RET#, RET%, IRF, LRF, MFR, HFR, RET-He, RBC-He, Delta-He, HYPO-He, HYPER-He, PLT-O (Optical), PLT-F (Fluorescent), IPF#, IPF, HPC#[2]

Body Fluid Analysis

Sample Type	CSF, CAPD, Synovial and Serous fluids
7 Reportable Parameters	WBC-BF, MN#, MN%, PMN#, PMN%, TC-BF#, RBC-BF

Hourly Throughput

XN-1500	up to 100 samples
SP-50	30 - 75 smears (with upgrade)

Sample Aspiration Volumes

XN Series	Whole Blood/Body Fluid Mode: 88µL Pre-dilute Mode: 20µL HPC Mode: 190µL
SP-50	Cap piercing (Regular & RBT tubes) 70µL Non cap piercing (1 slide)* 38µL Non cap piercing (2 slides)* 70µL *Includes regular and microtainer tubes

Quality Control

Tri-level QC material for all parameters
Bi-level Body fluid QC materials

Staining Methods (SP-50)

Single and double stains
(Wright, May-Grünwald, Giemsa)

Design and specifications may be subject to change without prior notice due to further product development.

Note:
1. MicroR, MarcoR, RBC-He, Delta-He, HYPO-He, HYPER-He are reportable from software version 21.00 onwards.
2. HPC# is available only for XN-20.

Registered under Act 737
Registration No: IVDB17531114618

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Lighting the way with diagnostics

Simplifying Automation

The Sysmex XN-Series delivers flexible, customisable configurations and applications to meet the wide-ranging needs of haematology laboratories – today and in the future.

As an additional option to the highly varied XN-Series configurations, the new XN-1500 offers the scalable benefits of a Sysmex integrated solution within a smaller footprint.

The XN-1500 is a unique synergistic solution, consisting of a haematology analyser and slide maker.

Automating sample analysis and slide preparation improves the workflow of haematology section in the laboratory.

The XN-1500 Simplifies Haematology Automation

XN-1500 Automation

Loading of samples onto XN-1500

STEP 1

Samples are analysed on the XN analyser, NRBC and immature granulocytes(IG) are standard parameters with every CBC+DIFF analysis

Reflex testing is not required
Or
Samples do not require further testing

Reflex testing is necessary

Additional analysis such as Retic or Fluorescent platelet (PLT-F) is done on XN analyser

Or

Slide smearing and staining are done on the integrated slide maker

Collection of samples for archiving and/or collect the blood smears for manual microscopy

STEP 2

Total: 2 touch points

The XN-1500 significantly reduces manual interventions in sample processing, promoting an efficient automated laboratory environment.

Flexible Activation of Applications

Applications

As the clinical demands on laboratories change according to the needs of the patient population and the clinicians, advanced clinical parameters can be introduced for routine reporting. Optional applications such as Retic, PLT-F, Body Fluids can be introduced gradually.

CBC + DIFF

added-value **XN-CBC** added-value **XN-DIFF**

NRBCs allows the assessment of responses during extreme increases in erythropoiesis. The diagnosis and prediction of inflammation and sepsis can be supported by IG with other parameters.

+ Body Fluids Application

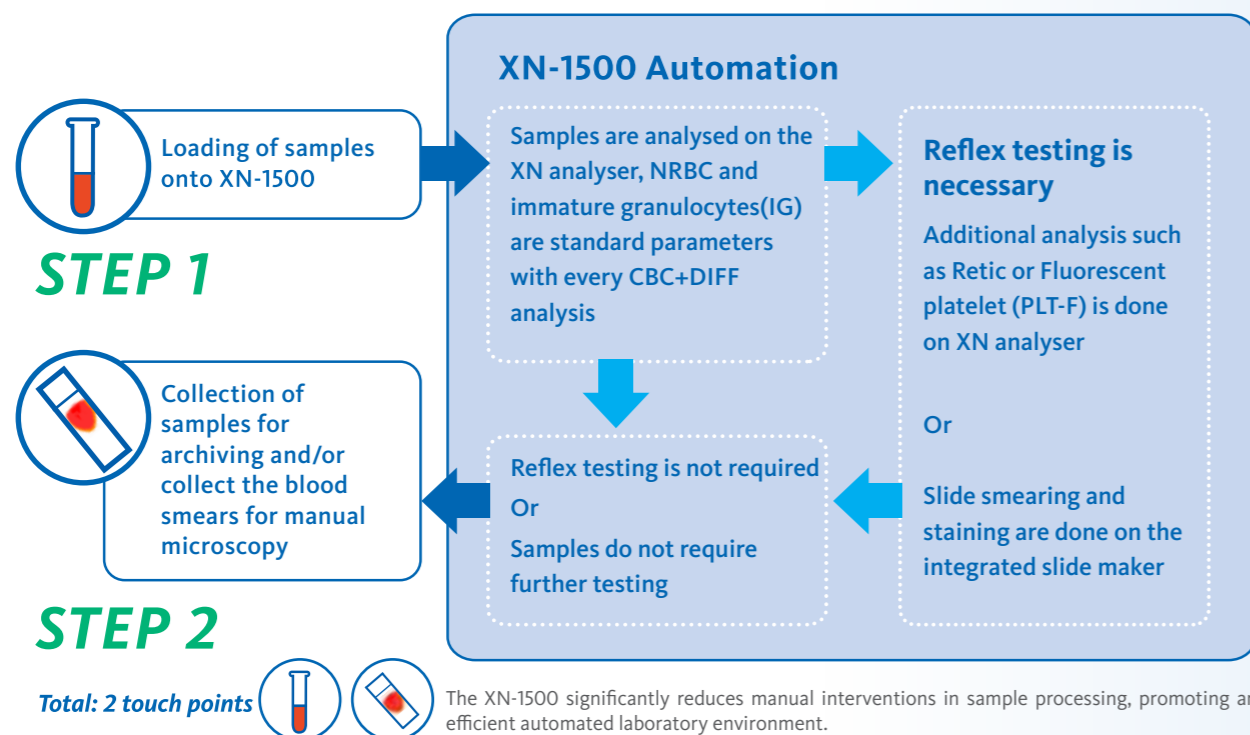added-value **XN-CBC** added-value **XN-DIFF** added-value **XN-BF**

Automated 2 part differential for body fluid results allow specific distinction between viral and bacterial infections.

+ RETICS & PLT-F Applications

added-value **XN-CBC** added-value **XN-DIFF** added-value **XN-BF** added-value **RET** added-value **PLT-F**

RET-He & IPF parameters to provide insight into the causes of anemia and thrombocytopoenia

01 Automates sample analysis and slide preparation

02 Reduces manual intervention through auto-rerun/reflex capability

03 Compact solution fits into most laboratories