

Sysmex XN-Series Haematology System

XN-3100



The XN-3100 is an automated compact haematology system comprising of two units of XN and an integrated slide preparation and staining unit, SP-50. With its leaner form, it delivers a CBC (complete blood count) testing profile, a high-quality smear and an option to expand clinical parameters to meet laboratory and clinical needs.

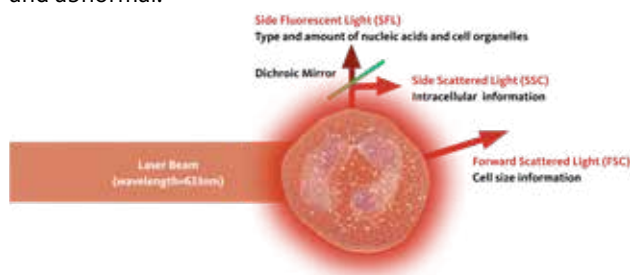
The XN-3100 with its throughput of up to 200 samples per hour and up to 75 slides per hour is best suited to laboratories with a medium workload and a relatively high smear rate. The SP-50 streamlines the entire slide preparation processes offering an excellent smear quality with auto-adjustment function based on eight different HCT values.

In addition, an optional digital cell imaging unit, DI-60, can be integrated. This cell imaging unit performs the WBC pre-classification, RBC pre-characterisation and platelet estimation which further enhances the lab's productivity and standardisation by reducing subjectivity and review time spent on differential counting.

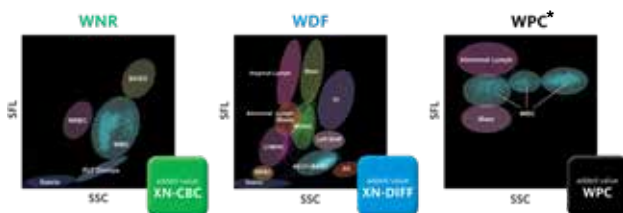
The XN-3100 offers a space-saving, efficient, and compact systemisation solution. With its onboard reflex/rerun rule set and user-defined reflexive slide preparation criteria, it affords the laboratory a true walk-away haematology testing solution.

XN-3100 Core Technology

The XN Series uses laser flow cytometry for counting and classifying blood cells based on their cellular characteristics. The generated scattergram provides a clear graphical distribution of the blood cells - both normal and abnormal.



Standard applications



- NRBC (Nucleated RBC) and IG (Immature Granulocytes) are standard parameters with every CBC+DIFF analysis
- WPC* delivers highly specific WBC-flag

**available only on XN-20*

Product Name

XN-3100

Main Hardware Components

Product Name	Description
XN-10 or XN-20	Main CBC/DIFF analyser
SP-50	Slide Making/ Staining Unit
SA-31	Sampler for XN-3100

Optional Hardware Components

Product Name	Description
DI-60 / CF-70	Digital Imaging / Connecting Unit
WG-20	Wagon for 2 XN
WG-31	Wagon for SP-50

Optional (by license) Applications**:



- Body Fluid Analysis
- Reticulocyte, Ret-He and IRF (Immature Reticulocyte Fraction)
- Platelet-F and Immature Platelet Fraction (PF)
- Human Progenitor Cell (HPC)

*** refer XN-3000 brochure for more details*

Feature	Details
Sample Aspiration volume	XN-Series: Whole Blood: 88 uL Body Fluids: 88 uL Pre-dilute Mode: 70 uL SP-50 Sampler: 70 uL Manual Closed: 70 uL Manual micro tube: 70 uL
Throughput XN-3100	Up to 200 samples per hour (2 XN)
SP-50 Standard	Up to 30 smears / hour
SP-50 High Speed	Up to 75 smears / hour (with speed-up license)
DI-60	Up to 30 smears / hour
30 Standard Parameters	WBC, NRBC#, NRBC%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, MicroR ¹ , MacroR ¹ PLT, PDW, MPV, PCT, P-LCR, NEUT#, NEUT%, LYMPH#, LYMPH%, MONO#, MONO%, EO#,EO%, BASO#, BASO#, IG#, IG%
16 Optional Parameters	RET#, RET%, IRF, LFR, MFR, HFR, RET-He, (RBC-He, Delta-He, HYPO-He, HYPER-He) ¹ PLT-O, PLT-F, IPF, IPF#, HPC#/% ²
Body Fluid Analysis	CSF, Serous, Synovial, CAPD
Data storage Capacity	
Samples stored (incl graphics)	100,000 samples
Patient Information	10,000 records
Reagent replacement history	5,000 records
Maintenance history	5,000 records
Quality Control	Tri-level QC material for all parameters Bi-level Body Fluid QC materials
QC files	99 files per analyser (300 plots per file)
X-bar control (L-J control)	300 plots x 94 files
X-barM control	300 plots x 5 files
Compatible Stains (SP-50)	Wright's Stain May-Grünwald Stain Giemsa Stain
Linearity	
WBC	0.00 – 440.00 x 10 ³ /μL
RBC	0.00 – 8.60 x 10 ⁶ /μL
HGB	0.0 – 26.0 g/dL (0.0 – 16.14 mmol/L)
HCT	0.0 – 75.0 %
PLT	0 – 5000 x 10 ³ /μL
NRBC#	0.0 – 20.0 x 10 ³ /μL
NRBC%	0.0 – 600.0 / 100 WBC
RET%	0.00 – 30.00%
RET#	0.0000 – 0.7200 x 10 ⁶ /μL

¹ MicroR, MacroR, 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: IVD17531114618

Design and specifications may be subject to change due to further product development.

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