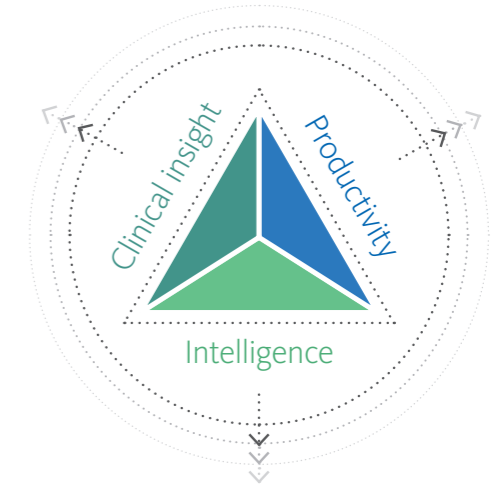


XN-Series

Tailor your haematology



Unlimited possibilities in haematology



XN-Series: Take your haematology to the next level

We believe technology must be adapted to the people who work in the laboratory, and not the other way round. With some 50 years' experience in the haematology market, we understand what matters most. Reliability. Performance. And choice. Both for you and the clients you serve.

There has never been anything like the XN-Series before. Analytical functionality is completely detached from throughput. Controlled by embedded, intelligent software, it combines productivity and diagnostic capabilities you select in line with your requirements. And it can be adapted at any time to handle changing demands in your laboratory. Modular and scalable, you tailor your haematology.

Our XN-Series changed the game. We have recently expanded and improved it further by listening to you, and now offer more efficiency, more control, and the chance to serve clinicians with great clinical insight.

Know more.
Decide with confidence.
Act faster.

You will find more details inside, or simply go online to www.unlimited-possibilities.com
We look forward to talking to you soon.

Silent Design®

For us, usability is an essential part of a product's performance. And this includes its design.

Design is far more than just the way a product looks. It influences the entire user experience. Our answer is our Silent Design concept.

Silent Design is not about sound. It is about distilling products down to the essence. Making the experience precise and elegant. Ensuring our products are unobtrusive yet distinctly powerful.

Within our Silent Design concept, we are focusing on five main principles to continuously improve the user experience.

Space
Design for harmony
with the surroundings

Surface
Design linking
form directly
to function

Person
Design for people,
focusing on the
person rather
than the product

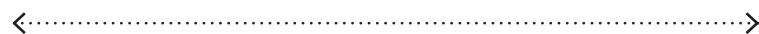


Longevity
Design for long
product life

Series
Each product is
designed to be part of
a consistent series



Our products take into account all five principles to create a positive experience. Between the product and the person. By making great use of the available space. Thanks to easy interaction with the device. Consistency in looks and operation. And an assurance of long product lifecycles.



Clinical insight

Versatility is no longer a matter of size. The Sysmex XN-Series offers diagnostic capabilities previously only available to large laboratories. Using fluorescence flow cytometry, the XN's analytical options go well beyond the scope of routine screening. You can offer far-reaching information for the clinician and therefore even greater safety and security for the patient.

Each XN module offers high diagnostic capabilities as standard. Nucleated red blood cells (NRBC) are determined automatically in every blood count. The XN provides a reliable immature granulocyte (IG) count in the differential blood count. Together with the remarkably sensitive XN-DIFF flagging with its high flagging efficiency, you receive extensive blood count information automatically. For example, it lets you quickly detect and monitor critical developments of ICU patients using parameter combinations of proven clinical relevance.

More insight from your routine and specialty testing

Technology is the carrier for delivering clinical insight that goes way beyond standard parameters and information. The key is measuring cell activity enabled by fluorescence flow cytometry.

You can individualise your testing by choosing clinical applications as determined by the pathologies of the patient collectives. Additional applications are available with even the smallest module. There is specialty testing for platelets, immature cells of all three cell lines and automated analysis of body fluids. Your laboratory can now better support your clients – regardless of your throughput, size or time of day.



For example:

■ RET and/or PLT-F*

A range of quantitative and prognostic parameters including the size and haemoglobin content of red blood cells for refined anaemia diagnostics, or high-precision platelet counts including immature platelet counts around the clock.

■ XN Stem Cells*

Now anyone in your lab can perform a stem cell count at any time. Simple, quick and reliable, it has been shown to be comparable with the CD34 immune flow cytometry count in mobilised peripheral blood (only on XN-20).

■ Extended Inflammation Parameters*

Measure the activity of neutrophils and lymphocytes. Discover immune response activation more quickly and monitor inflammatory conditions more precisely.

*optional



Clinical insight

added value
XN-CBC

Complete blood count (CBC) including nucleated red blood cells (NRBC%, #)

Correct white blood cell counts enabled by metrological separation from NRBC

added value
XN-DIFF

Twelve DIFF parameters including immature granulocytes (IG%,#)

Highly sensitive, three-dimensional flagging

Special 'Low WBC' mode for critically low cell counts

added value
RET

Only the combined information of quantity- and quality-related RET parameters provides the whole picture behind anaemia diagnosis

RET%, RET#, IRF – quantifying mature and immature reticulocytes

RET-H_e – evaluating the haemoglobinisation of the reticulocytes

added value
XN-BF

Simple, fast and standardised body fluid measurement at any time

Excellent result reproducibility in the clinically relevant range

Suitable for cerebrospinal, serous and synovial fluids as well as CAPD

added value
PLT-F

Accurate and precise platelet counts – even with thrombocytopenic samples

Evaluates the current status of thrombopoiesis with IPF

Avoids interferences – uses reagents specific for platelets

Reliable monitoring of thrombocytopenia with automatic reflex measurements

Optimise your workflow with the 'TWO' algorithm

added value
WPC

Detection of white precursor and pathological cells

Highly specific exclusion of malignant conditions

Multi-parametric assessment of reactive conditions

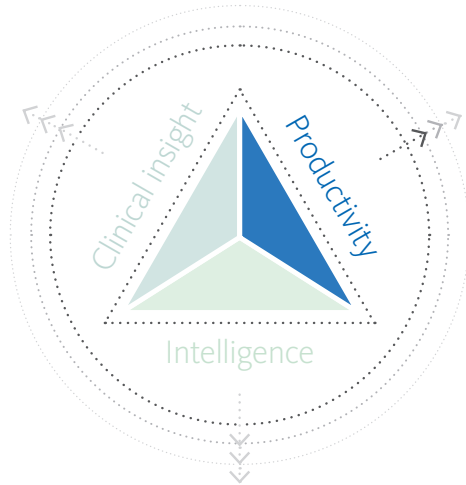
Optional XN Stem Cells mode

Laboratory information cards and white papers

You will find more detailed information on our Clinical Insight Apps in the dedicated laboratory information cards (available from your Sysmex representative). Benefit from additional background information in our freely accessible white papers on www.sysmex-europe.com/whitepapers



Productivity



Fast processing is usually mission-critical for clinical laboratories with large workloads. But optimised, timesaving workflows are equally crucial for specialised laboratories with fewer samples. The XN-Series is well suited to both. You can even create a haematology network and share capacity and expertise.

We have linked analytical modules equipped with flexibly configurable diagnostic applications to expandable components for registering, sorting and archiving, automatically preparing and staining smears, ESR, HbA_{1c}* and digital imaging analysis.

Based on a single, common technology platform, these modular and scalable solutions integrate all modules at full capacity. The XN reduces turnaround times by enabling automated processes and reducing manual interventions, smear rate and potential errors related to manual differentiation.

The Sysmex XN-Series will increase your lab productivity because it genuinely improves process flow. Since individual hardware configurations can include additional analytical functions, you can align your workflow to your needs. And should these change in the future, the XN's modularity and scalability allow you to expand your system, including multi-location configurations.

Enhanced workflow automation

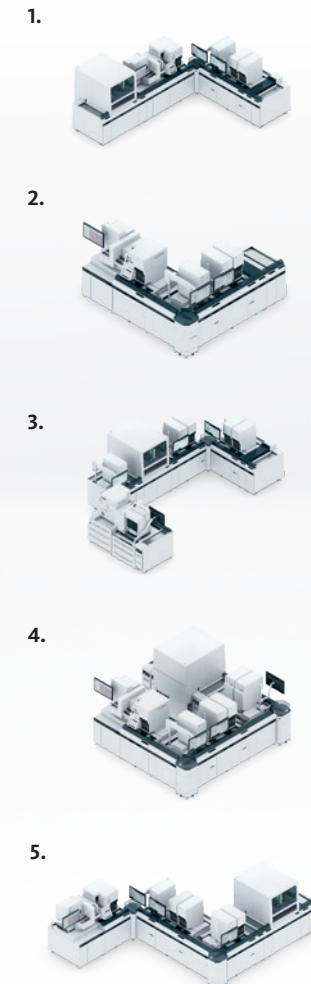
The XN-Series consists of several core models that can handle any workload: XN-1000, XN-1500, XN-2000, XN-3100 and XN-9100. These models can be configured individually and are modular and scalable so you know your initial investment is secure.

- Thanks to the XN's small footprint it offers great productivity per m².
- Depending on the XN-9100 configuration you can implement up to 24 XN analysers into one seamless platform.
- There are expandable components for transporting and sorting samples, automatically preparing and staining smears, ESR, HbA_{1c}*, and digital imaging analysis.
- New flexible XN layouts help you make best use of your laboratory's space.

www.sysmex-europe.com/xn-layouts

* only in certain countries

For more details on the productivity that can be gained with the different XN core models, we refer you to our dedicated XN-Series laboratory information cards, which are available from your Sysmex representative.



Alternative XN layouts
1. Inner-L
2. Outer-L
3. Inner-U
4. Outer-U
5. Z

Productivity

Pure

XN-1000 PURE

- Top XN quality also for tight budgets
- Fully automated sample processing
- Attractive turnaround times 24/7

Rerun & Reflex

XN-1000

- Automatic reflex measurements in case of unreliable results
- No manual intervention necessary for these additional measurements
- No compromises made on turnaround time

Rerun & Reflex

XN-1500

- Complete standardisation with consistent blood smear preparation and staining
- Seamless workflow eliminating manual steps prone to errors
- Runs paediatric samples like all others thanks to low aspiration volume
- Complete your smear automation by adding the optional imaging analyser DI-60*

Rerun & Reflex

XN-2000

- Ideal work distribution between the two modules – including reflex measurements
- Integrated backup concept
- Short turnaround times 24/7

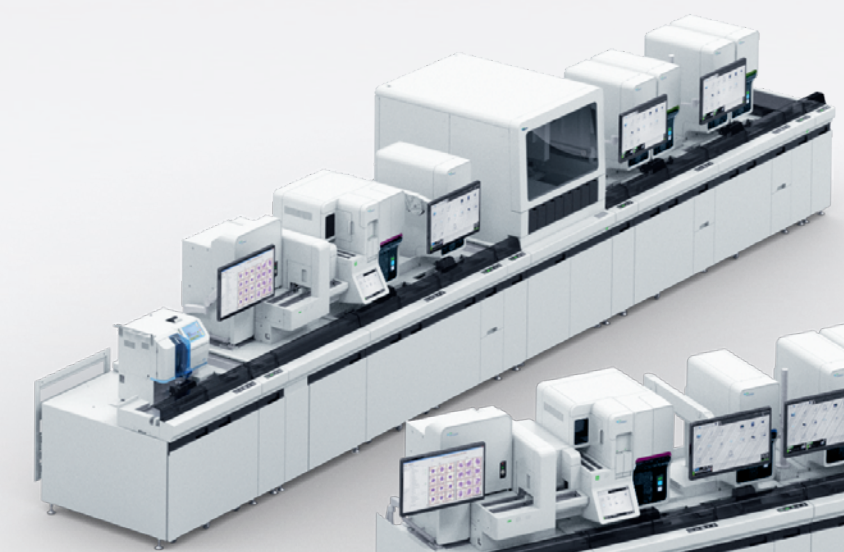
Rerun & Reflex

XN-3100

- Ideal work distribution between the two analysis modules including reflex measurements
- Fully integrated slide maker & stainer SP-50 – for reflex tests and initial orders
- Flexible configurations meeting variable diagnostic needs of laboratories with a medium workload



XN-1000



XN-9100 Maximum Workload



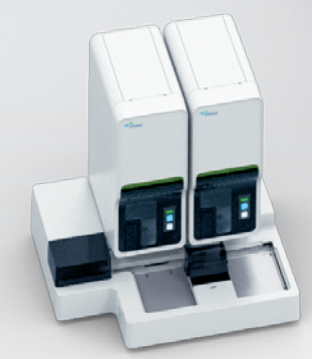
XN-9100 Workload Balance



XN-9100 Sorting & Archiving



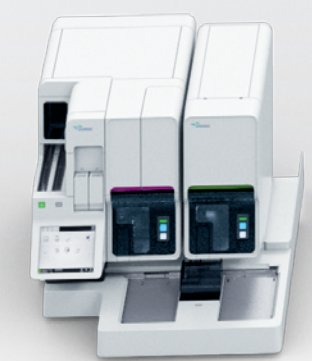
XN-9100 Compact Integration



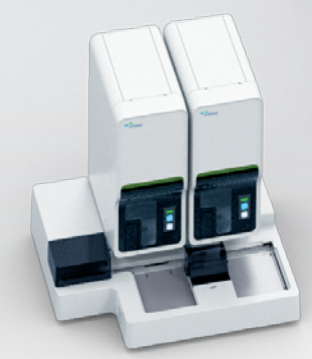
XN-3100



XN-1000 Pure



XN-1500



XN-2000

Smear Workflow

**XN-3100 DI
XN-9100 DI**

- Fully integrated digital imaging analysis
- Artificial neural network technology
- Up to 30 slides / h (100-cell counts plus RBC morphology)
- Optional upgrades to body fluid analysis and / or advanced RBC morphology analysis

Compact Integration

XN-9100

- Closer line-up of analytical devices allows more effectivity with reduced footprint
- Fully automated sample workflow significantly reduces tube touchpoints
- Scalable throughput – up to 24 XN analysis modules in one configuration
- Scalable diagnostic power: select from our full range of Clinical Insight Apps
- Connectable to all major TLA systems

Sorting & Archiving

XN-9100

- Adapts easily to individual workflow scenarios by integrating analysers dedicated to particular tests
- Includes fully automated sample sorting – for subsequent analyses and / or archiving
- Scalable to future demands in terms of processing and / or diagnostic capabilities
- Connectable to all major TLA systems

Workload Balance

XN-9100

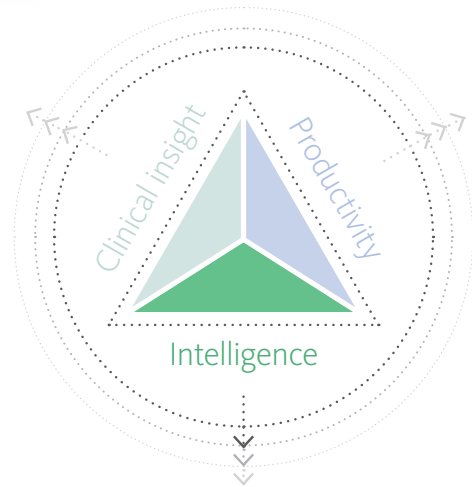
- Streamlined haematology automation for medium-throughput laboratories with a highly diverse sample workload
- Intelligent workflow management maximises sample throughput
- Optimised rack distribution ensures fast TAT
- Fully automated pre-sorting eliminates the sample entry scan, reducing manual touchpoints and accelerating the process

Maximum Workload

XN-9100

- Built for maximum throughput to cover high-performance laboratories
- Reflex testing separated from the screening line to maintain constant sample throughput
- Integrated post-sorting and sample archiving
- Expandable by integrating HbA_{1c}** and ESR*** analysers

* DI-60 is a registered product of CellaVision AB - www.cellavision.com
 **TOSOH HLC-723 G11 Analyser is a registered product of Tosoh Corporation (Japan) - www.tosoh.com
 ***Interliner XN is a registered product of RR Mechatronics (The Netherlands) - www.rrmechatronics.com



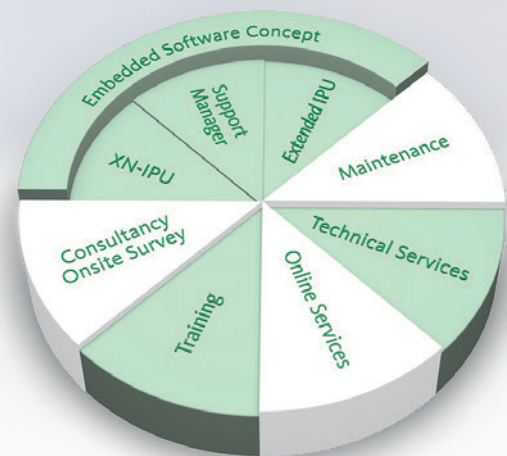
Intelligence

Efficient haematology systems need more than just systemisation and productivity. They need to operate intelligently. This translates into greater efficiency and time and money savings for you. We have applied our very latest knowledge in the XN-Series concept.

Sysmex laboratory solutions are controlled intelligently by the embedded software concept. This harmonises and standardises the interplay between the physical sample and data workflow. From a single system to multiple work areas, even if your network spans multiple locations.

By optimising the process, including pre- and post-analytical steps, your standardised EDTA tube management covers sample and data flow management for both routine requests and special samples such as time-critical body fluids. You can now avoid the need for special equipment or manual intervention.

With simple data management and an easy-to-operate, standardised platform, you have a transparent and traceable process so you know what is going on at all times.



Choose the intelligence you need

Our embedded software concept can be adapted to your needs with a range of standard and optional applications.

For example:

- Intelligent standardisation of sample and data flow management.
- With pre- and post-analytical process control, the XN handles EDTA tube management for all routine requests.
- Standardised management of suspect samples
 - The CBC-O concept identifies the cause of an increased MCHC and offers the proper corrective actions by means of RET channel technology.
 - The Thrombopoiesis Workflow Optimisation (TWO) for thrombocytopenic samples provides the best analytical option for this particular patient group.
- Standardisation by pre-configured rule sets for technical validation and biomedical validation based on published recommendations by the GFHC.

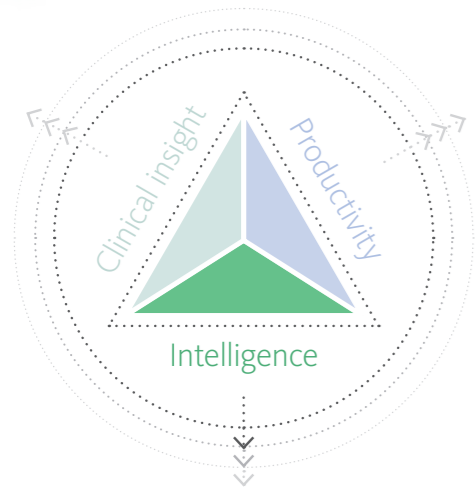
More than software alone

The intelligence we deliver includes far more than software solutions alone and is not limited to the device. As a first step we listen and analyse your site. What do you want to deliver to your clients in terms of TAT and diagnostic deliverables? What space do you have available? Our consultancy services create proposals for your new system accordingly.

Once the system is up and running, we can remotely monitor your installation to help you maintain peak operational performance and high-quality results. Customised maintenance contracts ensure your system gets the attention it deserves. Service visits are scheduled to the individual requirements of your devices as monitored by our service specialists. We also offer full data security and transparency without compromising on service efficiency and instrument uptimes.

To help you monitor your analytical performance, choose our external online quality control scheme. Finally, to make sure you can make the most of your new haematology concept, we offer comprehensive training options, both on-site and on-line and a wealth of knowledge on our website.

Explore also MySysmex, your personal access to the Sysmex world. www.mysysmex.com



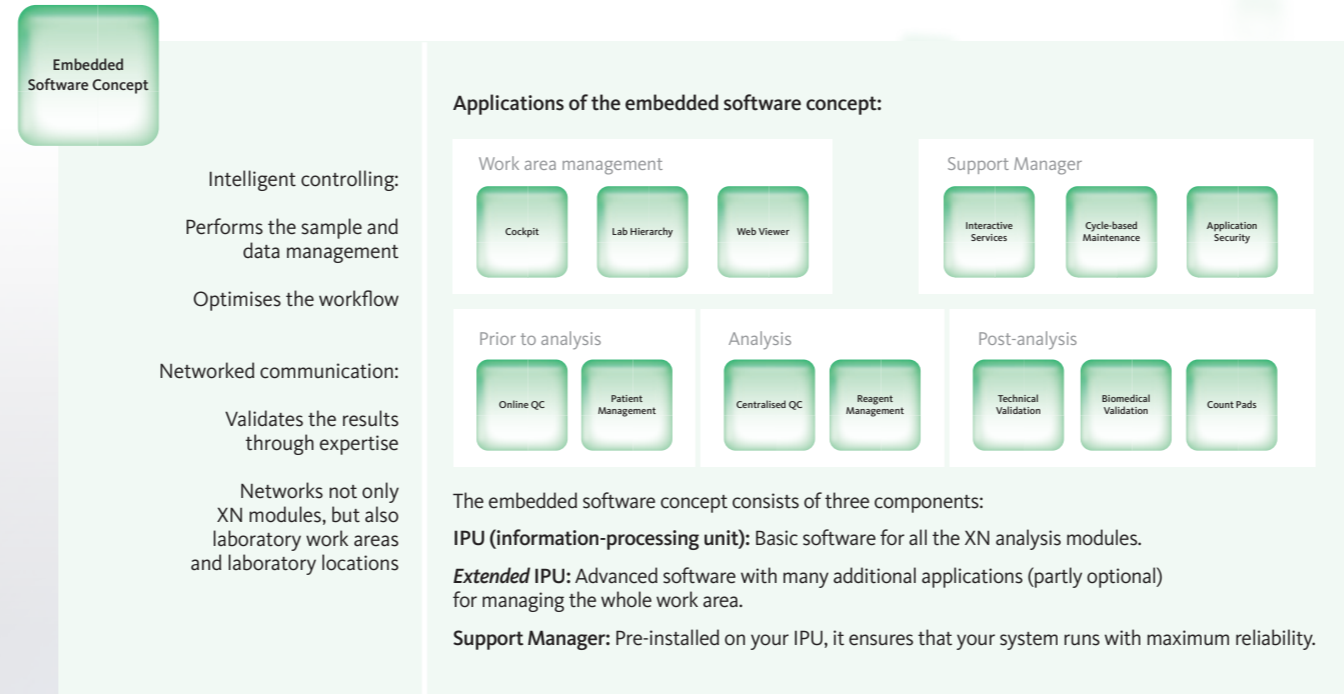
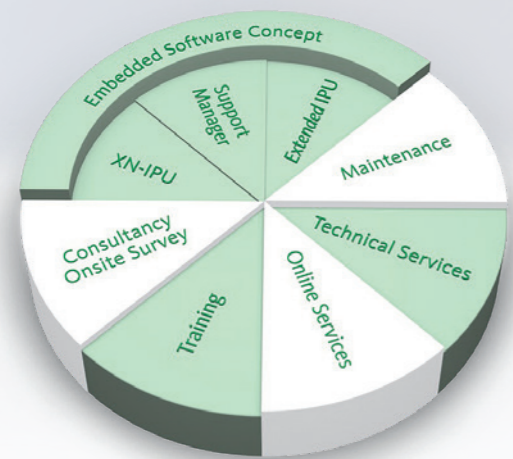
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With simple data management and an easy-to-operate, standardised platform, you have a transparent and traceable process so you know what is going on at all times.



Scalable intelligence – grows with the complexity of your solution



Tailor your XN to your individual requirements

Small room but a lot of samples?

>> No problem, the new slim design of the Twin XN module helps to double productivity per m².



Think automation lines don't fit in your lab?

>> Our consultants will help you make it fit by using our turn unit. We can create flexible layouts that also meet your room dimensions.



Smears becoming a bottleneck?

>> Instead of buying another system, upgrade the existing one to enhance its speed. Transform an SP-50S into an SP-50H and double the slide-making capabilities. This is what we call scalability, protecting your initial investment.



Tired of sorting tubes for subsequent analyses?

>> Why not let the tube sorter take over this task? It recognises open orders for analyses other than haematology, e.g. ESR* and HbA_{1c}** and provides the tubes sorted into racks. Or fully automate these steps by connecting the Interrliner XN* and TOSOH HLC-723 G11** onto the line.

*Interrliner XN is a registered product of RR Mechatronics (The Netherlands) · www.rrmechatronics.com
**TOSOH HLC-723 G11 Analyser is a registered product of Tosoh Corporation (Japan) · www.tosoh.com

Let your clinicians know that you can now do more for them

Thanks to the XN's capabilities, you can now do more for the clinicians you serve. Thanks to additional results you provide, they receive more detailed information about their patients' status. This can help in faster diagnosis, and more targeted treatment decisions and monitoring. Thanks to your work, they know more, can decide with confidence and act faster.

Based on clinical studies, you can deliver results that are proven to help in areas such as

- cardiovascular diseases,
- ITP monitoring,
- differential diagnosis of thrombocytopenia,
- infection and inflammation, and
- haematopoietic stem cell transplantation.

More areas will be addressed soon.

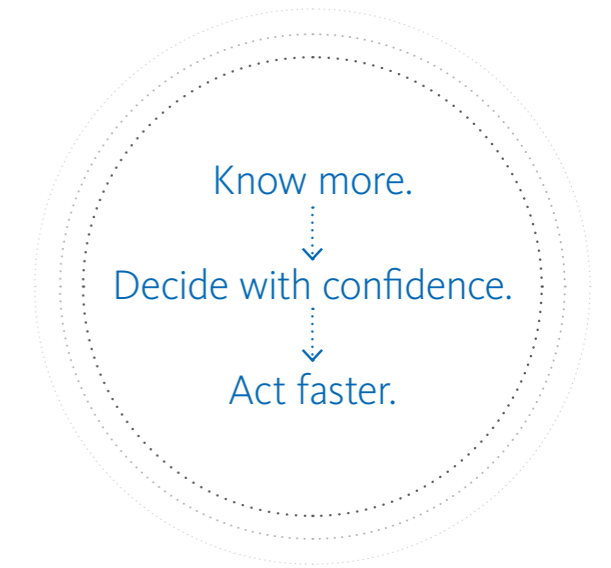
Now deliver even more to your stakeholders

Your clients need your information to be as detailed as possible so they can help their patients as quickly and effectively as possible. Experience shows, however, that your customers may not know exactly what you can do for them in terms of diagnostic capability.

This insight is essential for their work. Provide them with the information they need to make their best decisions.

Clinical information cards

These provide example patient cases and solutions for specific conditions. Point these out to your clients so they can gain a quicker insight into their patients' pathology.



White papers

Substantiate the relevance of your results for your clients with peer-reviewed reference so you can help them deliver more effective, quicker diagnoses and therapy monitoring. You will find our white papers here: www.sysmex-europe.com/whitepapers