Dual Diff Hematology Analyzer

Hemix 9080

DYMIND

The Integrated Approach to Innovative Products

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Part 01

01

Brief Introduction

Hematology Family

DYMIND

Combine CRP testing

High speed
Auto sampling peripheral whole blood

DH36X

D5-CRP

DF50CRP

D7-CRP

DH76CRP

Upgrade   Miniaturization   Automation

DH26

DH36

DF50

DH76   Combine 3-Part

DX450

Miniaturization

DH56

Combine special protein testing

DF50Vet

UN73

Veterinary

DH36Vet
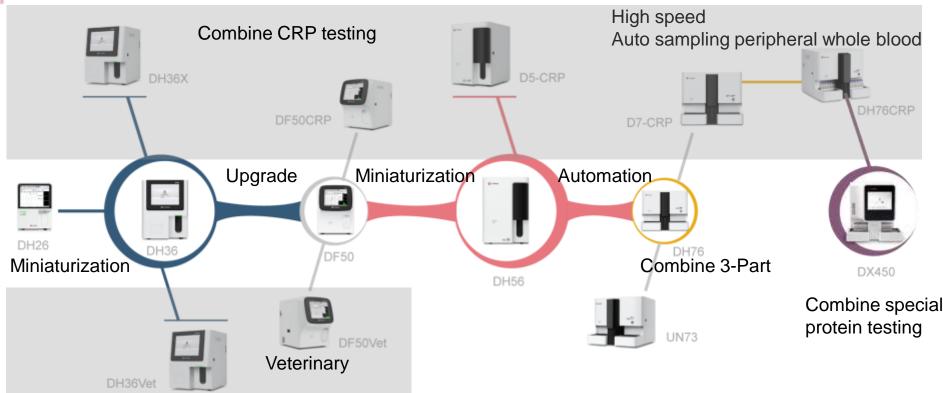
3-PART	MINI 5-PART	5-PART	High-end

Hemix 9080

3-Part & 5-Part combined auto hematology analyzer

Beyond Efficiency

Specifications

✓ Flow Cytometry (FCM) + Tri-angle laser scatter + Chemical staining

✓ 3-Part & 5-Part Combined, one click switch from 3-Part to 5-Part

✓ 5-Part testing mode, 31 parameters; 3-Part testing mode, 21 parameters

✓ 3 sample modes: whole blood, capillary whole blood and pre-diluted modes

✓ Only 2 reagents for 3-Part testing mode

✓ 3D scattergram for accurate differentiation and pathological sample flag

✓ Up to 80 tests per hour(Up to 90 tests per hour in 3-Part testing mode)

✓ Closed and open vial modes supported

✓ Large storage capacity: up to 100,000 records

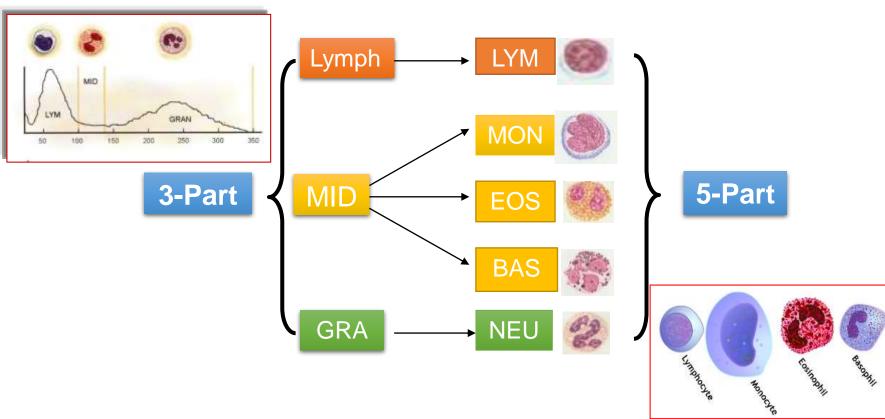✓ 2 types of languages are available

✓ Support bi-directional LIS

02

Principles

3- Part & 5-Part

3-Part

Lymph → LYM

MID → MON

MID → EOS

MID → BAS

GRA → NEU

5-Part

Lymphocyte Monocyte Eosinophil Basophil Neutrophil

Part 03

03
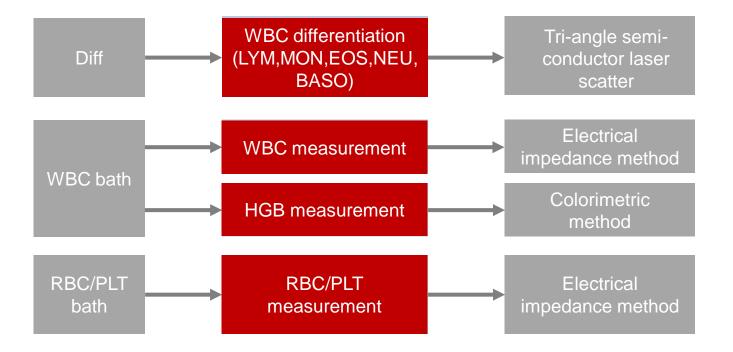
Market

✓Large Physical Examination Center

✓Medium Size Public Hospitals

✓Medium Size Labs

✓Medium Size Private Hospitals

✓ General Hospitals

Part 04

04

Advantages

4.1 Automatic Intelligent Technology

4.2 Reliable Performance

4.3 Excellent Data Management

4.4 Humanized Design

✓ Loading up to 60 samples simultaneously

✓ Continuous sample loading

Auto-loading system contributes to improving efficiency and reducing costs

Simplified operating procedure

Intelligent Technologies

✓ Automatic reminder for rechecking abnormal sample

✓ Adaptive intelligent Diff technology

✓ Visual self-tests

✓ Permission for new-adding customized parameters and modifying alarm ranges

✓ Automatically clearing test-tube and test-tube rack

Easy Troubleshooting

DYMIND

0x1000A020 :
Network
disconnected.

- Pathologic flags
- Lab limits
- Reagent alerts
- Instrument alerts

Intelligent Fault
Diagnosis System

One
Button

Remove Error
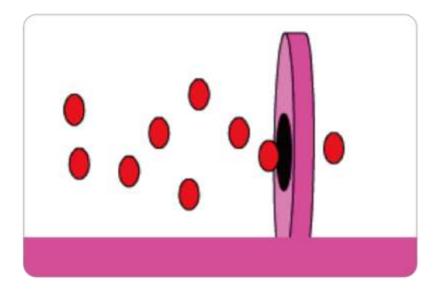
Error Description

0x1000A020 : Network disconnected.

Remove Error

Mute the alarm

Close

Troubleshooting

1. Click the [Remove Error] button to remove this error.
2. If the error still exists, contact our customer service department.
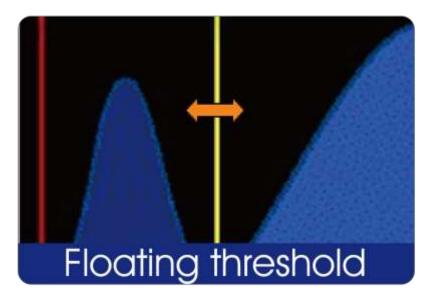
Intelligent RBC/PLT floating threshold technology

Finding the threshold automatically and getting accurate result

Floating threshold

Dual-Channel for counting

Fast Turn-Around-Time (TAT)
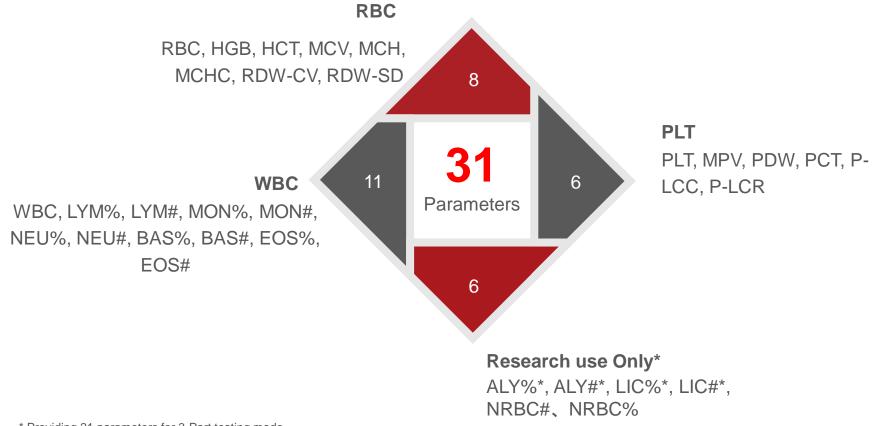
90 t/h
3-DIFF Throughput

80 t/h
5-DIFF Throughput

04

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Parameters for 5-Part Mode

DYMIND

RBC

RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD

8

PLT
PLT, MPV, PDW, PCT, P-LCC, P-LCR

31
Parameters

6

WBC

WBC, LYM%, LYM#, MON%, MON#, NEU%, NEU#, BAS%, BAS#, EOS%, EOS#

11

6

Research use Only*
ALY%*, ALY#*, LIC%*, LIC#*, NRBC#、NRBC%

* Providing 21 parameters for 3-Part testing mode

* Research Use Only Parameter
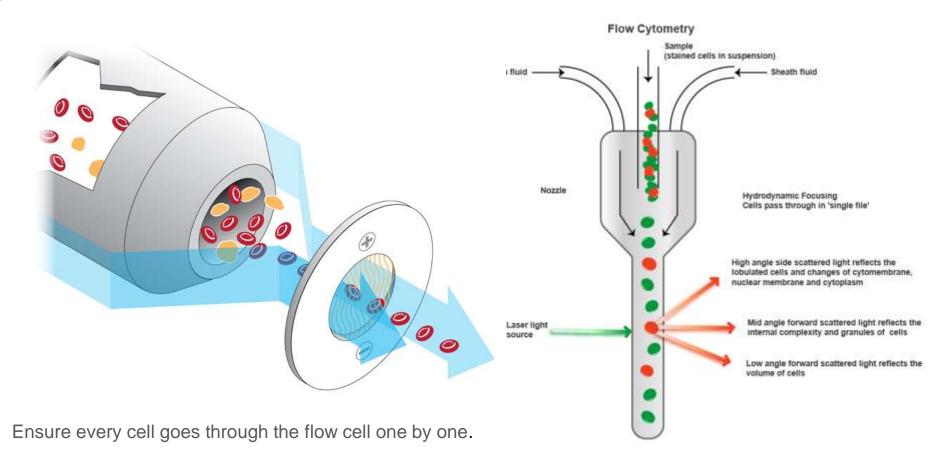
Wider linearity range contributes to more accurate results

Parameter	Linearity
WBC	CBC+5Diff mode: $0.00 \sim 400.00 \times 10^9/L$ CBC+3Diff mode: $0.00 \sim 300.00 \times 10^9/L$
RBC	$0.00 \sim 8.50 \times 10^{12}/L$
HGB	$0 \sim 250 g/L$
PLT	$0 \sim 3000 \times 10^9/L$
HCT	$0.0 \sim 67\%$

Flow Cytometry

Sample (stained cells in suspension)

fluid

Sheath fluid

Nozzle

Hydrodynamic Focusing
Cells pass through in 'single file'

High angle side scattered light reflects the lobulated cells and changes of cytomembrane, nuclear membrane and cytoplasm

Laser light source

Mid angle forward scattered light reflects the internal complexity and granules of cells

Low angle forward scattered light reflects the volume of cells

Ensure every cell goes through the flow cell one by one.

Tri-angle Laser Scatter

Avalanche Photodiode

Laser Diode

Spectral Filter

Dichroic Mirror

Condenser Lens

Lateral Scattered Light System

Collimator Lens

Condenser Lens

Beam Stopper

Photodiode

Photodiode

Flow Cell

Cellular complexity

HS: High angle scatter

Cellular granularity

MS: Middle angle scatter

Cell volume

LS: Low angle scatter

3D Rotatable View

2D-scattergrams

Distinct Diff

3D-scattergrams

DYMIND

3 2D-scattergrams & 3D-scattergram

Working on

✓ Abnormal samples
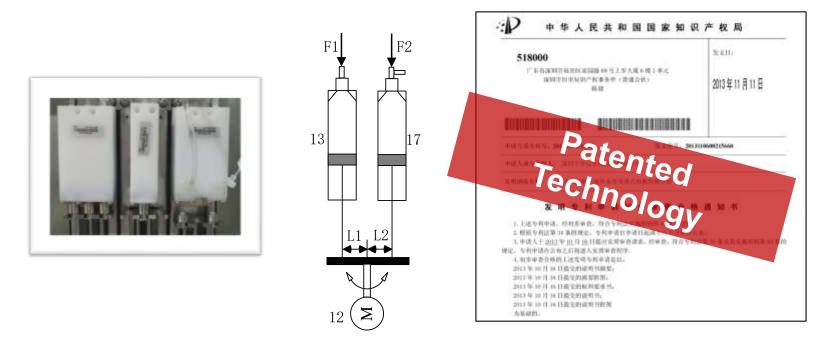
✓ Blood sample untreated over 6 hours
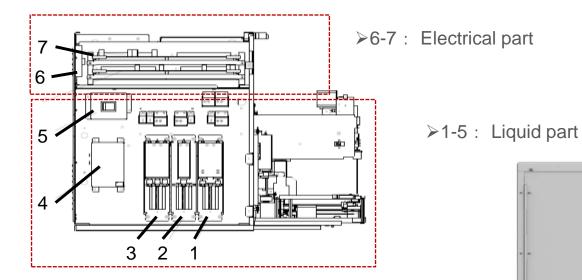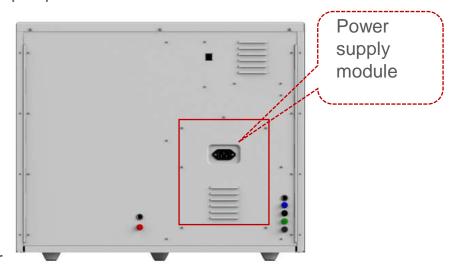
Dual-syringe contributes to get stable flow, ensure every cell goes through the flow cell one by one.

Liquid-Electrical Isolation

➤ 6-7： Electrical part

➤ 1-5： Liquid part

Power supply module

✓ Electrical part is on the top

✓ Liquid part is below electrical part

✓ Power supply & cables are inside analyzers

✓ Main modules are on left and right clapboards, easy for replacement

Reagents
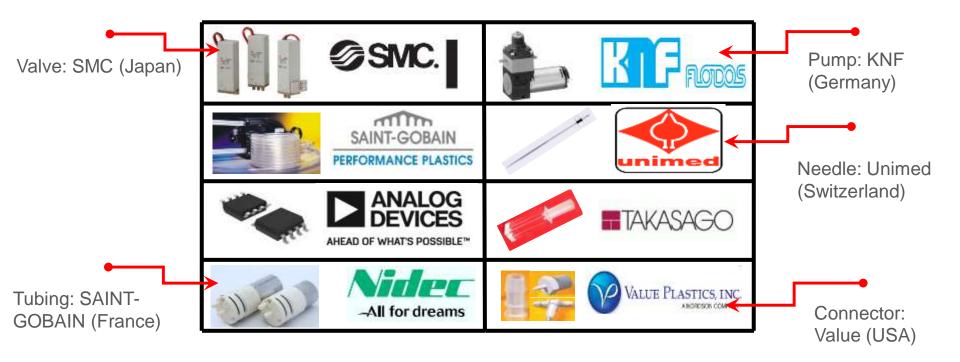
Reagent Item	Shelf Life	Shelf Life After Opening	Storage Environment
Diluent	2 years	60 days	15℃-30℃
LYG-1	2 years	60 days	15℃-30℃
LYA-2	2 years	60 days	15℃-30℃
LYA-3	2 years	60 days	15℃-30℃
Probe cleanser	2 years	60 days	15℃-30℃
Calibrator	90 days	7 days	2℃-8℃
QC	90 days	14 days	2℃-8℃

Key Components

Valve: SMC (Japan)

Pump: KNF (Germany)

Needle: Unimed (Switzerland)

Tubing: SAINT-GOBAIN (France)

Connector: Value (USA)

Part 04

04

Advantages

4.1 Automatic Intelligent Technology

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4.4 Humanized Design

Internal Barcode Scanning

Internal & External Barcode Scanning
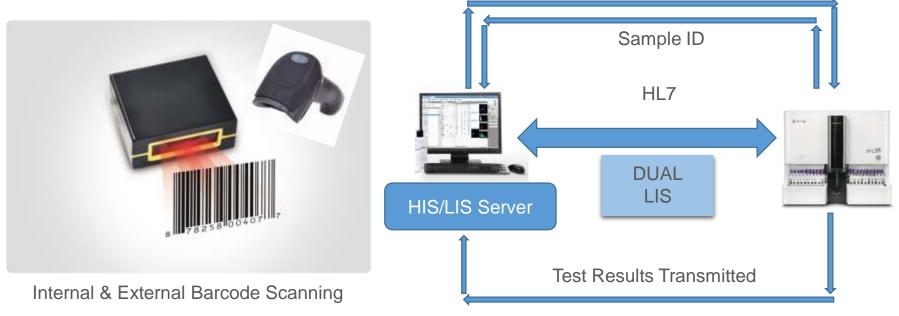
Patient Information Transmitted

Sample ID

HL7

HIS/LIS Server

DUAL LIS

Test Results Transmitted

Bi-directional LIS Connection

QC Value Input

QC value can be input by code reader

S1 Choose the file type: QR code

S2 Scan the QR code

Coming soon

We provide complete traceable QC records

User-defined Report Formats

DYMIND

Multiple pre-defined report formats & Customized print report formats

A4

Letter

A5

Continuous paper

Large Data Storage

Emergency mode can suspend automatic sampling and support manual retest

Large data storage capacity
Up to 100,000 records

Powerful searching function

Multi-languages

Convenient Data Communication

Part 04

04

Advantages

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4.4 Humanized Design

Humanized Design Software

Operation buttons

Result display

Operation buttons

Microscopic Exam Setting

Custom Parameters Setting

Easy Operation & Maintenance

One button to automatic sample count.

Simplified daily maintenance by soaking of probe cleaner during shutdown.

✓ Input reagent information automatically

✓ Close reagent system by RF card

Multi-sample mode

✓ Multiple sample modes:

Whole blood, capillary whole blood and pre-diluted modes

Micro Sample Aspiration

Only **20** μL whole blood

✓ Painless

✓ Best option for special people

Pediatric

Patients with excessive blood loss

Elder people

Part 05

05

Benefits

DYMIND

High Automation (Full Walk Away)
Reducing the operations time, work intensity, and manpower expense of labs.

Reliable & Accurate
Avoiding unnecessary reinspection. and offering accurate diagnostic reports.

Digital Management
Fitting the intelligent management tendency.

User-friendly
Suitable for different operators, simplifying training

Part 06

06

Sales & Marketing

Sales Network-Domestic

We have offices in each provinces with sales and service people, installation are nearly 10,000 units of machine during 5 years.

Sales Network-**International**

Sold to over 120 countries during 3 years.
Installations are nearly 10,000 units.

Global Marketing

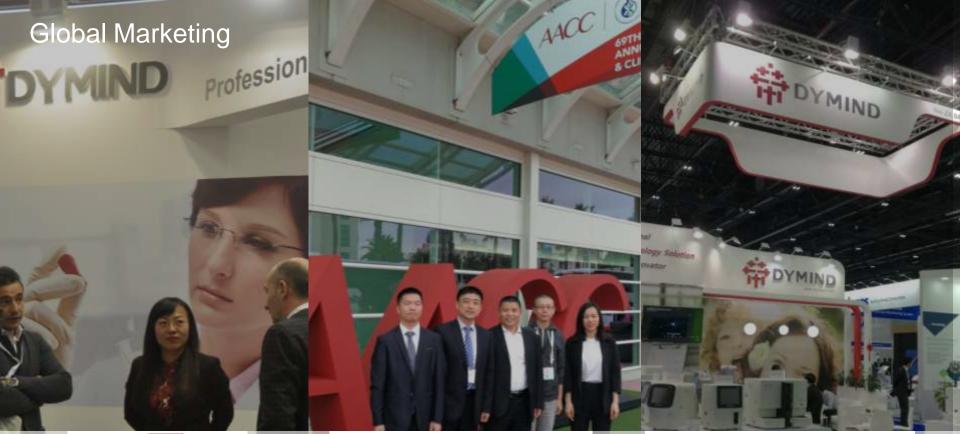# Sales & Marketing

THANK YOU

www.dymind.com/en.