5-Part Hematology Analyzer - Laser Flow CBC Analyzer with 5-Part Diff - 60 Samples per Hour

Model **MSHEMA-D6053SWISS** | Brand **Master Science**





The Master Science 5-Part Hematology Analyzer performs CBC with a 5-part white cell differential (neutrophils, lymphocytes, monocytes, eosinophils and basophils). A semiconductor laser with sheath flow reads cell size, nucleus and granularity, and floating classification adapts cluster boundaries to each sample for more accurate differentials.

KEY HIGHLIGHTS

- Full 5-part differential
- Stable laser source
- Adapts to each patient
- Tidy installation
- Traceable results

AT A GLANCE

constant reagent temperature.
TEMPERATURE AFFECTING RESULTS

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Throughput is 60 samples per hour from 10 µL of whole blood. The compact body with integrated lyse reagents suits outpatient and emergency laboratories, and a 10.4-inch touch screen runs the analyzer without an external computer.

Key Benefits

Full 5-part differential
the Master Science 5-Part Hematology Analyzer separates all five white cell types.

Stable laser source
long-life semiconductor laser.

Adapts to each patient
floating classification of scatter plots.

Tidy installation
lyse reagents housed inside.

Traceable results
reagent, calibration and QC tracking.

For basic CBC needs, see the Master Science 3-part hematology analyzer.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSHEMA-D6053SWISS
SKU	MSHEMA-D6053SWISS
Brand	Master Science
Model Number	MSHEMA-D6053SWISS
SKU	MSHEMA-D6053SWISS
Technology	Semiconductor laser scatter with sheath flow; floating classification
Parameters	WBC, Lym#, Mon#, Neu#, Eos#, Bas#, Lym%, Mon%, Neu%, Eos%, Bas%, RBC, HGB, MCV, RDW-CV, RDW-SD, HCT, MCH, MCHC, PLT, MPV, PDW, PCT, P-LCC, P-LCR
Graphics	4 scatter plots, 2 histograms
Analysis Modes	CBC + 5-DIFF, prediluted
Sample Types	Whole blood, peripheral blood, prediluted blood
Sample Volume	10 µL whole blood; 20 µL prediluted
Throughput	60 samples/hour
Reagents	Diluent, DIFF lyse, LH lyse; concentrated detergent for maintenance
Reagent Handling	Constant reagent temperature, remaining volume display, shortage alarm
Quality Control	L-J, floating mean, multi-level QC
Calibration	Automatic, manual, fresh blood
Maintenance	One-click maintenance, automatic fault diagnosis
Printing	External thermal printer included; laser printers supported
Connectivity	LAN, 4 × USB; bidirectional LIS/HIS, HL7
Display	10.4-inch colour touch screen; keyboard and mouse supported
Power Supply	100 to 240 V, 50/60 Hz

DIMENSIONS & WEIGHT	
Dimensions	325 × 465 × 470 mm
Net / Gross Weight	About 30 kg / 36 kg

COMMON LABORATORY PROBLEMS AND HOW THIS ANALYZER HELPS	
Common Laboratory Problems and How This Analyzer Helps	How the Master Science 5-Part Hematology Analyzer improves differential counts:
3-part results not detailed enough	five white cell populations reported.
Manual slide differentials	automated laser classification.
Temperature affecting results	constant reagent temperature.
Tangled reagent tubing	integrated lyse reagents.

The Master Science 5-Part Hematology Analyzer is used in

- **Outpatient and emergency laboratories**
- **Hospital hematology departments**
- **Diagnostic centres**
- **Clinics needing a full differential**
- **Routine CBC + 5-DIFF testing**

Measurement

- Laser scatter with sheath flow
- 25 parameters
- 4 scattergrams and 2 histograms

Operation

- 10.4-inch touch screen
- One-click maintenance
- Abnormal result alarms

Data

- LIS/HIS connection (HL7)
- Excel export
- Multiple report formats

Standard Accessories Included

- External thermal printer
- Starter reagents: diluent, DIFF lyse, LH lyse

Optional Accessories

- Barcode scanner