

# HumaCount 80<sup>TS</sup> | 30<sup>TS</sup>

## Results you can count on

- > Automated 3-part differentiation analysis: more precision, less blood smears
- > Comprehensive insights with 22 parameters
- > Reliable, robust and proven worldwide

 **Anti-Clogging  
Technology**



# 3-part Differentiation

Automated analysis: more precision, less blood smears

## 3-part diff is sufficient in most clinical cases

A Complete Blood Count (CBC), also known as a Full Blood Count (FBC), is often the initial test physicians request to assess overall patient health. It helps in detecting a wide array of conditions such as anemia, infections, and hematological malignancy, as well as monitoring chemotherapy patients.

The three most critical parameters—Hemoglobin (Hb), White Blood Cell (WBC) count, and platelet count—are the cornerstone of clinical diagnosis.<sup>1</sup> Normal Hb and WBC levels indicate a normal FBC in approximately 90% of cases.<sup>2</sup>

Our 3-part differential analyzer is perfect for emergency rooms, outpatient laboratories, and small ward or operating room laboratories, offering fast and reliable identification of acute inflammations.

Our automated analysis reduces the necessity for manual blood smears.

## Advantages of a 3-part diff system in comparison to blood smears

**Speed and efficiency:** providing results much faster than manual counting, this rapid turnaround is crucial in clinical settings where time-sensitive decisions are needed for patient care.

**Requires less experienced staff:** the need for skilled technicians to manually review each slide under a microscope is significantly reduced. This saves time and allows to focus on more complex analyses.

**Accuracy and consistency:** the use of advanced technology to count and classify white blood cells, reducing the variability and potential for human error associated with manual counting.

**Data management and integration:** large volumes of data can be managed more easily and integrated with laboratory information systems



*«Why perform manual routines when an analyzer can do it efficiently?»*

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Results you can count on

## 3-part diff hematology systems

- > Compact, stand-alone systems with an integrated PC
- > Measures 22 parameters using just a 25 µl sample volume



**HumaCount 80<sup>TS</sup>**  
2 measuring chambers = 80 samples/hour



**HumaCount 30<sup>TS</sup>**  
1 measuring chamber = 30 samples/hour

## Comprehensive insights with 22 parameters

- > WBC, LYM#, MID#, GRA#, LYM%, MID%, GRA%, HGB, RBC, HCT, MCV, MCH, MCHC, RDWcv, RDWsd, PLT, PCT, MPV, PDWcv, PDWsd, P-LCC, P-LCR

## Designed to simplify your daily work

- > Automatic cycles for cleaning, maintenance, control requests and calibration
- > Automatic upload of target values

## Powerful and easy to use software

- > Intuitive ICON-based software for easy operation
- > Comprehensive view with 22 parameters, including histograms and flags, at a glance
- > Quality Control (QC) module ensures reliable results
- > Flexible connectivity options: LIS/HL7 bidirectional interface or USB ports

## Reliable, robust and proven worldwide

- > Thousands of installations worldwide attest to the system's reliability
- > Heat-stable reagents - storage up to 42 ° C
- > Dedicated reagents and controls guarantee consistent results
- > Anti-clogging technology for increased analyzer up time

## Equipped for any eventuality

- > With the optional solar panel and battery system, ideal for remote areas
- > Cost-effective WBC-only mode (no reagent for RBC, PLT parameters)
- > Veterinary mode available.\*



Movie

1) Miyakis S, et. al. Factors contributing to inappropriate ordering of tests in an academic medical department and the effect of an educational feedback strategy. Postgraduate Medical Journal. 2006;82:823-829.  
2) Osei-Bimpong A, et.al. The use of the white cell count and haemoglobin in combination as an effective screen to predict the normality of the full blood count. Int J Lab Hematol. 2012 Feb; 34(1): 91-97.

\* Use of veterinary mode is the responsibility of the user

# Automation: Support Where it is Needed

Simplify your daily work

## Automation of routine tasks



- Auto-request for control
- Auto-request of calibration
- Auto-check of expiration
- Auto-upload of target values
- Auto-settings of tube type
- Auto-clean cycle after 60 samples
- Remote service support
- Auto-maintenance request every 6 months

## Continuous performance for maximized analyzer up time

- > Automated requests for hard/enzymatic cleaning
- > Scheduled cleaning cycles after every 60 samples
- > Routine maintenance cycles for uninterrupted, efficient operation

## Anti-Clogging Technology - less interruptions, streamlined operations

- > The use of high-energy bursts to reduce clogging rates and can handle samples more effectively
- > Minimizes the risk of residue affecting subsequent analyses by burning off proteins after each measurement cycle
- > The low consumption of cleaning reagents reduces costs and also contributes to an environmentally friendly operation

## Easy data processing and management

- > Choose between a built-in printer or connect to an external printer
- > Store up to 10,000 results, including histograms
- > Easily integrate into hospital management systems with USB or bidirectional LIS/HL7 connectivity

## Tailored analysis and cost savings with WBC-only mode

- > Optimize resources with our cost-efficient WBC-only sample mode, eliminating reagent use for RBC and PLT parameters.

# Powerful and Intuitive

Easy to use and equipped for any eventuality

## Effortless touch screen navigation and operation

- > Instant access to all information with touch screen interface
- > Enjoy automatic text completion for streamlined data entry
- > View all 22 parameters, including histograms and flags, on one comprehensive screen

## Accurate and reliable results with QC module

- > Comprehensive Quality Control (QC) module, designed for total operational control and accuracy.
- > Improved algorithms for precise 3-part differential control readings and the accurate identification of MID-sized cells

## Temperature stable reagents - Made in Germany

- > Wide temperature range for storage and transportation 2- 42°C
- > Up to 36-month shelf life for the reagents (HC-Diluent, HC-Lyse, HC-Clean)
- > Dedicated controls and calibrator materials
- > Color-coded reagents for safe operation
- > Cyanide-free reagents are environmentally friendly

## Veterinary profiles for animal healthcare

- > Equipped with a specialized 3-part diff veterinary mode, catering to a wide range of animals (cats, dogs, horses, cows).\*
- > Optimal solution for veterinary clinics

## Increased mobility with mobile power solution

- > Ideal for remote locations, our optional solar panel and battery system ensure continuous operation, even in areas with unstable power grids.
- > Possible battery operation for at least 6 hours



\*Utilization of the veterinary mode is subject to the user's discretion.

# Reliable, Robust and Proven Worldwide

## Voices from the market

A proof of accuracy and reliability:  
Over 6,000 instruments used in  
more than 100 countries worldwide



“I like the speed! A printed result of all 22 parameters in less than a minute is what I need. My concern is always to provide reliable patient results, which is why I like the consistently high quality of the reagents, which are stable for up to 36 months and which guarantee the recall of the target values of the control at all times.”

Natalija Arsovska  
Biotek laboratory  
Skopje, North Macedonia

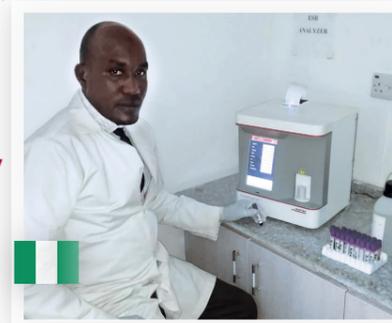
Indonesia



“HumaCount 80<sup>TS</sup> has enabled us to successfully automate all our hematology operations. The device is very user-friendly and easy to use. The implementation of proper quality control measures and access to higher quality hemograms with fewer errors has greatly simplified our processes.”

Q.F. Carlos Lacava  
Lacava Muszwic Laboratory,  
San José, Uruguay

Uruguay



“HumaCount 80|30<sup>TS</sup> have a very high degree of automation, which facilitates the daily workflow. I was surprised at the many automated functions that help me in my daily work. All routine tasks, such as cleaning, reminding of the control or maintenance cycles are carried out by the device.”

Musa Liman,  
University of Damaturu Teaching Hospital,  
Yobe State, Nigeria



“The clear screens provide an excellent overview of the results of the individual parameters and histograms. The ICON-based software is as intuitive to use as a smartphone. The target value upload via the 2D scanner saves me a lot of time and all values are transferred correctly without typing errors.”

Muhammad Aslam, MLT (Nims)  
Mian Medical Diagnostic,  
Lahore, Pakistan



“A really robust system with very low clogging rates enable us to achieve reliable results in our place even with a poor grounding system. We have received a good evaluation of the quality control standards from the DKI Jakarta Health Department.”

Melda Nainggolan  
Public health care Districts Kramat Jati,  
Province of DKI Jakarta Indonesia



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## Ordering Information

### Instruments

REF

HumaCount 80<sup>TS</sup> 16420/80

- > 2 measuring chambers = 80 samples/hour

HumaCount 30<sup>TS</sup> 16420/30

- > 1 measuring chamber = 30 samples/hour

### Accessories

REF

Solar panel 18250/73

- > 36W, USB connection, 86 × 62 cm (open)

Portable Battery System 18250/74

- > 73Wh, 20010 mAh



### Reagents

REF

HC-Diluent 17400/11

- > Specially designed for HumaCount instruments
- > Contains 20 l

HC-Lyse CF 17400/22

- > Cyanide-free reagent, environmentally safe
- > Contains 2 x 1 l

HC-Cleaner 17400/31

- > High-quality cleaning reagent
- > Contains 1 l

### Controls

REF

HC-Control 17400/40

- > 3-part hematology control blood
- > Stable up to 21 days after opening
- > 3 x 2.5 ml, levels 1, 2, 3

HC-Calibrator 17400/50

- > Hematology calibrator blood
- > Stable up to 7 days after opening
- > 1 x 2 ml

