



BLOOD IS COMPLEX  
ANALYZING IT SHOULDN'T BE »

DxH 500\*



» Move healthcare forward.

\*Not available for sale in the U.S.



## Introducing the DxH 500, an Open-vial Hematology System\*. Quality 5-part Differential in a Compact Design

The first in a new series of advanced hematology analyzers, the DxH 500 Open-vial Hematology System was specifically designed for physician offices and other laboratories with low-volume hematology workloads. With the DxH 500, you can count on getting accurate results the first time—when time matters most.

### > The DxH 500 offers:

- Unparalleled system uptime, keeping your lab running at peak performance
- Low cost of operation and improved laboratory efficiency
- Quality results from as little as 12  $\mu$ L of sample

\*Cap piercing and auto-loading features coming soon

# Spend Time with Your Patients, Not Your Analyzer

The DxH 500 comes with built-in reliability, automatic start-up, efficient reagent usage and easy reagent replacement—giving you maximum uptime.

## > Built-in reliability

In a global multi-site reliability study of more than 36,000 samples, the DxH 500 exhibited less than or equal to one emergency service call per year. The DxH 500 gives you confidence that you will get the patient results you need, when you need them.

## > Automatic start-up

With the programmable start-up feature, you can set the system to automatically activate at the beginning of a shift, so it's ready to work when you are.

## > Reduce reagent usage

The DxH 500 uses 50 percent less reagent volume per sample, compared to other low-volume analyzers. So a single reagent bottle can support hundreds of tests.

## > Quickly change out reagents when needed

With three reagents that require about five minutes to replace, you can keep your analysis running smoothly throughout the day.



Each reagent can be changed out individually in less than 2 minutes.

## » Designed for Uptime



Greater than 98.5% uptime analysis based on global reliability study.

\*Planned downtime includes cleaning cycles and minor maintenance.

\*\*Unplanned downtime includes sampling and set-up errors.

# INCREASE YOUR EFFICIENCY. LOWER YOUR OPERATING COSTS.

## Improve Laboratory Efficiency

The DxH 500 allows your lab to increase efficiency through fast analysis, compact design and intuitive operation. This means no wasted time waiting for results, no wasted laboratory space and no wasted resources.

### > Uniquely designed for fast analysis

Intuitive and powerful software simplifies work processes and allows rapid turnaround of specimens, helping you minimize patient wait times.

### > Save valuable space

Smaller than a standard microwave, the DxH 500 does not require a separate PC or monitor, giving you control over your limited space.

### > Perform any command in three touches or less

The DxH 500 software was specifically designed to provide an intuitive interface. You and your staff can learn how to use the system in less than an hour, and any system operation can be performed in three steps or less.



## Supporting Your Efforts to Reduce Administrative Errors

Going paperless can potentially reduce errors in patient treatment.<sup>1</sup> The DxH 500 supports your desire to go paperless with a bi-directional LIS interface for better data keeping. This integrated LIS interface can potentially help reduce data errors that occur in manual processes.



## Reduce Overall Operating Costs

The efficiently designed DxH 500 can reduce your overall operating costs through non-toxic reagents and low power consumption, letting you efficiently manage your bottom line.

### › Reduce cost of disposal

The DxH 500 uses cyanide-free, azide-free and formaldehyde-free reagents, reducing the cost of disposal and helping you meet environmental and regulatory compliance standards.

### › Reduce cost of power

The DxH 500 was designed to use a modern LED light source as opposed to traditional lasers. The use of a LED light source for differential measurement provides a lower cost and longer life cycle than other low-volume analyzers using laser technology.

1. Carraro P, Plebani M. Errors in the stat laboratory: types and frequencies 10 years later. Clin Chem 2007; Jul;53(7):1338-42.



## One System. One Sample.

With only 12  $\mu\text{L}$  of sample needed to test, the DxH 500 allows you to confidently provide a CBC plus 5-part differential analysis for all of your patients. The small sample-volume requirements save you time and minimize unnecessary or multiple venous draws.

- › **Test your most precious patient samples with ease**

You can confidently test pediatric and geriatric patients, which routinely provide small sample-volume at collection.

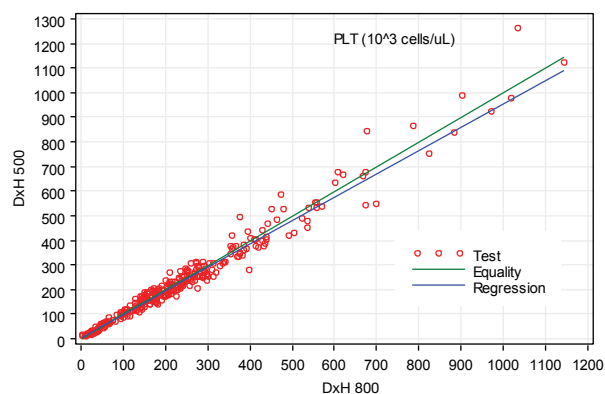
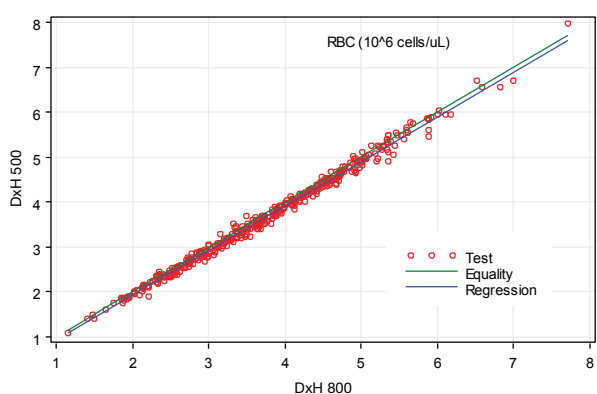
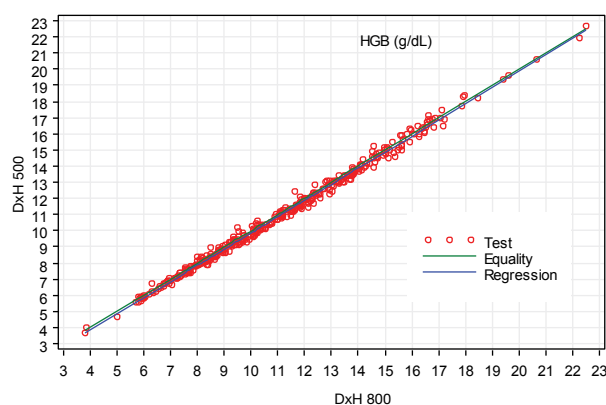
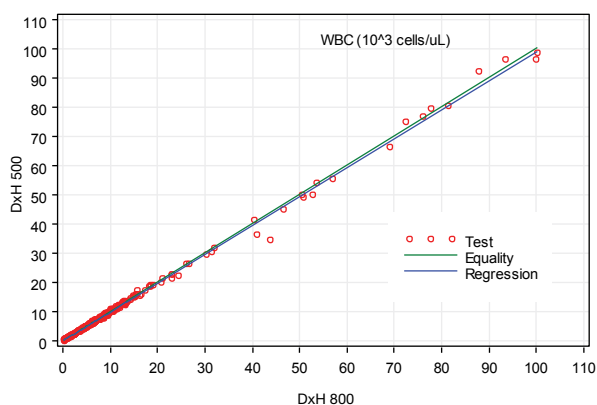
- › **Retest or order additional testing without collecting another sample**

- › **Go beyond a CBC with just a finger prick**

The DxH 500 enables 5-part differential testing on just a finger prick collection.



## High-quality Results Comparable to the DxH 800 for Complete Blood Cell Count Parameters at Medical Decision Levels







				95% Confidence Limits	
Analyte	Unit	Level	Bias	Lower	Upper
WBC	$10^3$ cells/uL	2	-0.002	-0.017	0.012
WBC	$10^3$ cells/uL	3	-0.018	-0.036	0.001
WBC	$10^3$ cells/uL	5	-0.049	-0.079	-0.019
WBC	$10^3$ cells/uL	50	-0.754	-1.091	-0.416
RBC	$10^6$ cells/uL	4.5	-0.078	-0.109	-0.047
HGB	g/dL	8	-0.156	-0.211	-0.100
HGB	g/dL	12	-0.081	-0.160	-0.002
HGB	g/dL	16.5	0.003	-0.198	0.203
PLT	$10^3$ cells/uL	10	3.920	0.415	7.426
PLT	$10^3$ cells/uL	50	1.879	-0.664	4.421
PLT	$10^3$ cells/uL	150	-3.225	-5.412	-1.038
PLT	$10^3$ cells/uL	400	-15.986	-24.987	-6.985
PLT	$10^3$ cells/uL	450	-18.538	-29.029	-8.047

Method Comparison studies were performed by collecting 397 samples across the analytical measuring range at 4 external sites. Samples with a review flag were excluded from the analysis for the flagged parameter. A weighted Deming approach was used to compare the values obtained on the DxH 500 to the DxH 800. Combined data for four DxH 500 and four DxH 800 are presented. The DxH 500 were whole blood calibrated to a single DxH 800 (internal instrument), the DxH800 instruments were calibrated to the site's S Cal lot.

# Specifications

<b>Mode of Operation</b>	Open vial sampling			
<b>Throughput</b>	60 samples per hour			
<b>Menu/Test Parameters</b>	WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, LY%, LY#, MO%, MO#, NE%, NE#, EO%, EO#, BA%, BA#			
<b>Sample Volume</b>	12 µL of venous or micro-collected whole blood 20 µL of whole blood for pre-dilute analysis			
<b>User Interface</b>	Touch screen Handheld barcode reader			
<b>Power Requirements</b>	100 – 240 VAC 50/60 Hz Single phase with ground			
<b>Power Consumption</b>	Less than 120W			
<b>Noise Specifications</b>	Less than 80 dBa			
<b>Atmospheric Pressure</b>	700 – 1,060 mbar			
<b>Operational Ambient Temperature</b>	18 – 32°C (64.4 – 89.6°F)			
<b>Humidity</b>	80% relative humidity (non-condensing) at 32° C (89.6° F)			
<b>Altitude</b>	Up to 3,000 meters (9,842.5 feet)			
<b>Reagents</b>	DxH 500 Lyse      500 mL DxH 500 Cleaner    500 mL DxH 500 Diluent    10 L			
<b>External Storage - USB</b>	USB 2.0 compatible			
<b>LIS</b>	Supports Serial (RS-232) and Ethernet communication			
<b>Printer</b>	Optional USB PCL 6-compatible printer			
<b>Data Storage</b>	30,000 patient results including graphics, flags, codes, and messages 12 control files, each with a maximum of 100 runs			
<b>Languages</b> (coming soon)	Czech, English, French, German, Italian, Japanese, Polish, Portuguese, Slovakian, Spanish			
<b>Weight and Dimensions</b>	Depth	Width	Height	Weight
	430 mm (17 inches)	270 mm (11 inches)	406 mm (16 inches)	11.4 Kg (25.1 lbs.)

			
<b>DxH 500</b>	<b>DxH 600</b>	<b>DxH 801</b>	<b>DxH 2401</b>
<b>Low volume</b> Up to 60 samples/hour	<b>Medium volume</b> Up to 100 samples/hour	<b>High volume</b> Up to 100 samples/hour Up to 140 slides/hour	<b>Ultra high volume</b> Up to 300 samples/hour Up to 140 slides/hour

©2016 Beckman Coulter, Inc. All rights reserved. Beckman Coulter, the stylized logo and the Beckman Coulter product and service names mentioned herein are trademarks or registered trademarks of Beckman Coulter, Inc. in the United States and other countries. REMISOL Advance is a trademark of Normand-info SAS.

For Beckman Coulter's worldwide office locations and phone numbers, please visit [www.beckmancoulter.com/contact](http://www.beckmancoulter.com/contact)

BR-51173



Move healthcare forward.