



## Auto Hematology Analyzer - Color Touch Screen(3 Diff, 22 Parameters)



HP-HEMA6100A

### General Information

Analyzer Packing Dimension(mm):530\*466\*595mm,NW:20kg,GW: 24kg

Free Reagents packing : 360\*300\*280mm,NW:7KG, GW: 8KG

Model	Screen size (inch )	Puncture	Storage	Graphical Touch Screen	Power
HP-HEMA6100A	8	None	20K	YES	220V 50Hz±3Hz

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**Specifications**

Test Items	WBC, LY#, MO#, GR#, LY%, MO%, GR%, HGB, RBC, HCT, MCV, MCH, MCHC, RDW—CV, RDW—SD, PLT, PCT, MPV, PDW, WBC Histogram, RBC Histogram, PLT Histogram		
Background Count	WBC: $\leq 0.3 \times 10^9/L$ RBC: $\leq 0.03 \times 10^{12}/L$ HGB: $\leq 1g/L$ PLT: $\leq 10 \times 10^9/L$		
Linearity	<b>Test Item</b>	<b>Test Range</b>	<b>Allow Difference of Linearity</b>
	WBC	0 ~ $6.0 \times 10^9/L$	$\pm 0.3 \times 10^9/L$
		6.0 ~ $99.9 \times 10^9/L$	$\pm 5\%$
	RBC	0 ~ $0.99 \times 10^{12}/L$	$\pm 0.05 \times 10^{12}/L$
		1.0 ~ $9.99 \times 10^{12}/L$	$\pm 5\%$
	HGB	0 ~ 99 g/L	$\pm 2g/L$
100 ~ 300 g/L		$\pm 2\%$	
PLT	0 ~ $99 \times 10^9/L$	$\pm 10 \times 10^9/L$	
	100 ~ $999 \times 10^9/L$	$\pm 10\%$	
Repeatability	<b>Test Item</b>	<b>CV(%)</b>	<b>Test Range</b>
	WBC	$\leq 2.0$	$7.0 \sim 15.0 \times 10^9/L$
	RBC	$\leq 0.5$	$3.5 \sim 6.0 \times 10^{12}/L$
	HGB	$\leq 1.5$	110 ~ 180g/L
	PLT	$\leq 4.0$	$150 \sim 500 \times 10^9/L$
MCV	$\leq 0.5$	80 ~ 110fL	
Sample Volume	Twig blood: 20 $\mu$ l, Whole blood 13 $\mu$ l,		
Dilution Ratio	WBC/HGB: 1:500 RBC/PLT: 1:50000		
Interfaces	RS232 joint, USB, PS2, Parallel port		
Test Speed	60 samples/hours		
Continuous Work Time	>8h		

**Quality and Standard Production Process:**

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## I Name And Using Range

The name of the machine is HP-HEMA6000 Automatic Hematology Analyzer, which mainly used to detect the parameters of the series of red blood cells and hemoglobin, platelet and leukocyte in the blood, It is a vitro diagnostic equipment which is applied to quantitative analysis of blood cells of clinical and laboratory.

The machine is mainly used for the quantitative measurement of the blood in the 19 parameters and 3 histograms:

Haematology Analyzer
Fully automated to increase productivity
3-part differential cell counter with 22 parameter and laser light source
Direct tube sampling from original collection vials for operator safety
Bar code capability to reduce manual input
Proven technology to provide accurate results
More than 60 samples per hour
Minimum maintenance required

1	The total amount of WBC	WBC
2	The amount of Lymphocyte	Ly#
3	The amount of Monocyte	MO#
4	The amount of Granulocyte	GR#
5	Lymphocyte percentage	Ly%
6	The percentage of mononuclear cells	MO%
7	Granulocyte percentage	GR%
8	The total amount of red blood cells	RBC
9	Hemoglobin	HGB
10	Hematocrit	HCT
11	Mean volume of red blood cells	MCV
12	Mean corpuscular hemoglobin	MCH
13	Mean corpuscular hemoglobin concentration	MCHC
14	Red blood cell volume distribution width Coefficient of variation	RDW-cv
15	The standard deviation of red blood cell volume distribution width	RDW-sd
16	The total amount of platelet	PLT
17	Mean platelet volume	MPV

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18	Plateletcrit	PCT
19	Platelet distribution width	PDW
20	White blood cell distribution histogram	WBC Histogram
21	Red blood cell distribution histogram	RBC Histogram
22	Platelet distribution histogram	PLT Histogram

## II Product Classification

Instrument classification standard description:

According to Chinese medical device management:

It belongs to the blood analysis systems of the clinical tests and analysis equipment (6840), Management Category is class II. Classified by electric shock protection: Transient overvoltage category II, the level of rated pollution is level 2.

Classified by working system: continuous operation equipment.

Equipment structural classification:

Model	Structure and Function
HP-HEMA6100A	8-inch 800 × 600-TFT color LCD touch screen, panel-type thermal printer, built-in common sampling and diluting (store 20,000 data)

## III Parameters:

- 1. Use impedance method for RBC and platelet count
- 2. Cyanide free for Haemoglobin test
- 3. Flow cytometry + laser light scatter + chemical dye method for WBC differential analysis
- 4. Fully automated with an autoloader and sampler
- 5. Should use both closed tube sampling and open tube sampling
- 6. 2 counting mode, whole blood and pre-diluted mode
- 7. With histograms and scattergrams for differential results
- 8. Throughput of at least 60 samples per hour
- 9. Automatic flagging system for abnormal results and automatic sample re-run
- 10. Automatic validation of results on a dedicated PC with at least a 10.4" colour monitor
- 11. Data storage capacity of at least 20,000 results
- 12. Optional integrated slide maker and on-board cytology atlas
- 13. Optional colour printer and on-board diagnostics

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- 14. Flexible communication/connection (USB)
- 15. Operating temperature of 10 °c -35°c and humidity of up to 85%
- 16. Floppy disc drive and DVD writer
- 17. Power 98V-264V
- 18. The equipment should be accompanied with all manufacturers' recommended spare parts

#### IV Principle Of Cell Counts

The instrument measured blood can be diluted to the exact proportion by the diluent firstly, which is used to measure the parameters of WBC/RBC/PLT and HGB. WBC, RBC count pool diluted samples pass their own porous counting respectively under negative pressure, the amount of fluid that flowing through the small hole is the specimen volume of the instrument for analysis.

The instrument measured the size distribution and number of WBC, RBC and PLT by using impedance method. Electrodes inserted in the holes on both sides of the liquid, it sets up a field environment on both sides of the surrounding count microporous, according to the blood-cell non-conductive nature, when the cells passed the count microporous, it will cause impedance changes, the size of the impedance changes and proportional to the cell volume.

Consumable Rate For HP-HEMA6100A					
Item	time order	Diluent(ml)	Hemolysin(ml)	Washing Solution (ml)	use frequency
1	open machine wash	70	5	NO	one day one time at least
2	one test	30	1	NO	one sample usage
3	Auto wash	80	5	15	acquiesce wash one time per 20 tests
4	off wash	80	5	15	one time one day at least
5	exclude block/wash	20	NO	NO	usually not use except block hole

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6	exchange reagents or perfusion	12	4	NO	usually not use except changing the reagents
7	Probe Cleaning Solution use one time per 100 tests,one time use 1.1ml				regular use, suggest use one time per 100 tests

## Consumptive List for HP-HEMA6100A

Consumable	specification	Unit Price(USD/EXW)	use test number(50 persons/day)
Non-cyanogen Hemolysin	500ml/bottle, 2 bottles	84.43	355 persons
Diluent	20L/barrel	12.66	550 persons
Washing Solution (contain Enzyme)	1L/barrel	15.48	880 persons
Probe Cleaning Solution	50ml/bottle	7.04	1800 persons
print paper	1 reel	1.41	60 persons
sampling consumable	1 set	0.04	1 person

## Free Reagent Supplied For HP-HEMA6100A

Number	Name	Specification	Quantity
01	Non-cyanogen Hemolysin	500ml/bottle	1
02	Diluent	20L/barrel	1
03	Washing Solution (contain Enzyme)	1L/barrel	1
04	Probe Cleaning Solution	50ml/bottle	1

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