Hematology Analyzer



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What is it?

It is a piece of medical gear that is frequently utilized in hospitals and labs to perform tests on blood samples.

frequently the first thing a doctor asks for when trying to establish whether the patient is healthy or not.

Is essential for:

- research labs
- zoos and veterinarians



What does it do?

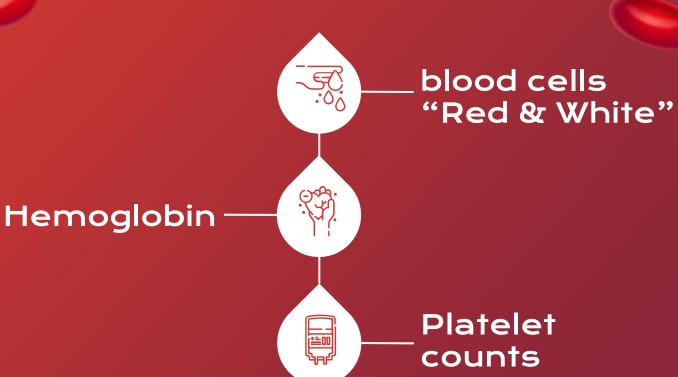
Hematology analyzers are used to run tests on blood samples, so they do:

white blood complete blood coagulation tests





Measurements done



Other analyses

- RBC distribution width
- Mean corpuscular hemoglobin
- Platelet distribution width
- Platelet mean volume
- Platelet criteria





This is a table with estimated proportions of errors in the phases of the total testing process (TTP):

TTP phase	Examples of error	Estimated proportion of errors
Pre-preanalytical	Test ordering, patient identification, patient preparation, sample collection, sample quality, transportation, storage	46%-68%
Preanalytical	Sample sorting, centrifugation, labelling, separation	3%-5%
Analytical	Sample analysis	7%-13%
Postanalytical	Validation, interpretation, turnaround time, critical value reporting	13%-20%
Post-postanalytical	Interpretation, delayed reaction, lack of follow-up or referral	25%-46%







Accuracy level



Cost effectiveness



Lab space



Noise-free operation



Warranty period



Available accessories and reagents

Types



3-Part Differential Cell Counter

- find the size and volume of the cell
- differentiate between 3 types of WBC's, neutrophils and lymphocytes



5-Part Differential Cell Counter:

- determine the granularity, diameter, and inner complexity of the cells
- It is more expensive than the first type

