



# Abacus Junior 30

Ideal for small laboratories



# Abacus Junior 30

## Analyzer Overview

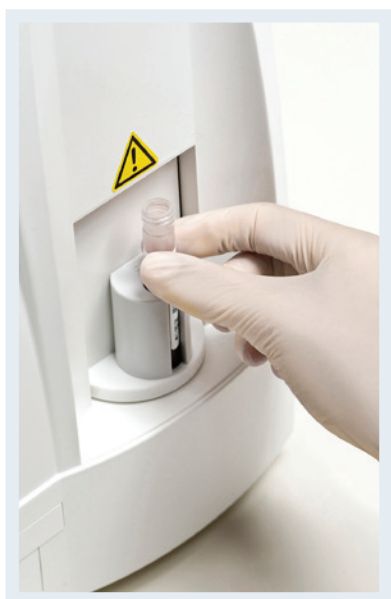
The Abacus Junior 30 is the first model in the Diatron range of hematology analyzers. It is a compact, bench top, **30 test/hour, 22 parameter, 3 part WBC differential system**. The Abacus Junior 30 has a practical, simple to use color touch screen with an **easy to follow, intuitive icon user interface**. The system is an ideal solution for the smaller clinic, laboratory or physician office that are looking for **reliable, safe accurate and easy to use** instrumentation.

## Key Features and Benefits

- **Accurate and Precise results**
  - Proven impedance measurement technology with advanced flagging
  - Clog detection and prevention with automatic system cleaning processes
  - Comprehensive 22 parameter results with 3 histograms
- **User friendly and easy to operate**
  - Easy to use high resolution touch screen with multi-language operating menu
  - Recording of sample and quality control information is fast and efficient
  - 3 USB ports and 1 USB-B port allows simple connection with external devices such as a host computer and printers
  - Comprehensive QC package to provide informative statistics
- **Operator safety**
  - Unique sample rotor to reduce risk of biohazard exposure
  - Self-cleaning procedures minimize daily maintenance
- **Confidence**
  - System uses easy to understand warning messages and sample flags
  - Analyzer uses precision electronics and mechanical components to provide precise and reliable results
  - Designed to use specific Diatron reagents to deliver the highest quality results

## Diatron Reagents

Our systems comprise of **two perfectly matched elements: analyzers and reagents**. The development of our analyzer systems was only achieved with its matched reagents. Our **ISO 13485 certified reagent manufacturing plant** is designed to ensure the **highest quality standards**. All lots of reagent we manufacture are fully validated prior to release on each of our associated instruments for low background counts, osmolality, pH and other critical parameters. Our diluent reagents contain no azide and our lyse reagents are cyanide free. Our highly stable reagents offer a **shelf life of up to 36 months** from the date of manufacture and up to **120 days of on-board stability**. The combination of Diatron reagents and Diatron analyzers together ensure the best system performance and quality of results.



### Reagents for Abacus Junior 30

Cat. No.	Product name	Pack size
D1512	Diatro Dil 5P	20l
D2011	Diatro Lyse Diff	1l
D5011	Diatro Cleaner*	1l
D6011	Diatro Clenz*	1l
D7011	Diatro Hypoclean*	1l

\* Other sizes of reagents are available:  
 Diatro Cleaner 5l D5015  
 Diatro Clenz 5l D6015  
 Diatro Hypoclean CC 100 ml D8011

## Measuring data

- Throughput - 30 tests/hour
- Parameters - 22 hematology parameters, including 3-part differential: WBC, LYM, MON, GRA, LYM%, MON%, GRA%, RBC, HCT, MCV, HGB, MCH, MCHC, PLT, PCT, MPV, P-LCC, P-LCR, RDW-CV, RDW-SD, PDW-CV, PDW-SD

## Measuring principle

- Volumetric impedance method
- Light absorbance for HGB measurement

## Reagents and Sampling System

### Samples

- Sample volume - 25 µl of whole blood
- Sampling method - Open tube system with automatic sample rotor
- Calibration - automatic or manual (WBC, HGB, RBC, PLT, MCV, RDW, MPV)

### Reagents

- Environmentally friendly Diluent & Cleaner reagents and cyanide-free Lyse

## Quality control

- 6 QC levels: 2 x 3 levels (L, N, H) of control
- QC parameters include mean, range, SD and CV for all measured and calculated parameters, Levey-Jennings charts of last 64 QC measurements

## Technical features

- Data storage capacity - Maximum 10 000 results, including RBC, PLT, WBC 3-part histograms and full patient data
- Built-in thermal printer (B/W, 56mm wide paper)
- Printer interface - USB with support for HP printers
- External keyboard & mouse - via USB connection
- Operating environment - Temperature: 15-30°C. Relative humidity: max 80% (non-condensing)

## Usage

- User interface - Color TFT touch screen, with separate start button
- User languages - English, German, French, Spanish, Italian, Portuguese
- Software upgrade - USB memory stick
- Interfacing capabilities - 3 USB A on back, 1 USB A on front, 1 USB B for interfacing to PC
- Multi-user mode - various privileges, limited access, unique passwords

## Dimensions

- Size (Width x Depth x Height): 32,0 cm x 36,5 cm x 26,0 cm  
12.6 in x 14.4 in x 10.2 in
- Weight: 12 kg, 26.4 lbs

## Options

### Barcode reader

- Optional with manual barcode scanner via USB port. It can read all common barcodes used for test requisition.

### Closed or open reagent system

- Analyzer can be ordered as a closed or open reagent system.
- Cat. Nr ACS-1 Abacus Junior 30 as a open reagent system
- Cat. Nr. ACS-1C Abacus Junior 30 as a closed reagent system

Your distributor

Description	Catalogue No
Abacus Junior 30 (closed reagent model)	ACS-1C
Abacus Junior 30 (open reagent model)	ACS-1
Abacus Junior 30 ( Non-diff model)	AJ3-ND