



Fully-Automated Blood Coagulation Analyzer

# XL3200<sup>t</sup>

Unprecedented Quality and Performance



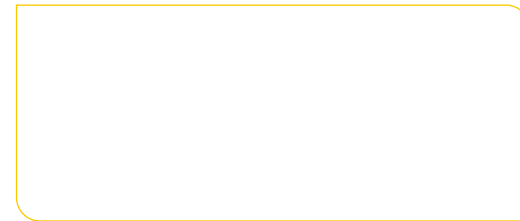
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**Zonci**

Beijing, PRC



Huaguang certification



Germany TÜV certification



CE certification

Name of Invention: Automatic Blood Coagulation Analyzer  
Patent number: ZL 2011 1 0418250.3

Finally, Coagulation testing is no more a difficult task with operon **XL-3200<sup>t</sup>** Fully Automated Coagulation Analyzer.

A compact bench top model, designed to do routine PT, PTT and all special assays **without a Flinch**.

With 35 sample and 20 reagent positions, Onboard Cooling for reagents, dedicated stirring positions for PT/PTT, Low Working cost, Collision Protection & Level sensing probe... It's surely going to be a **buzzword** in Hemostasis testing.

### Key Specifications:

- **Test Channels:** Unique 10 measuring Channels with Auto dilution / duplicate testing options.
- **Methodology:** By Viscosity (Magnetic induction) for clotting, Optical Chromogenic, Optical immunoturbidimetric, Optical Delta Measurements.
- **Throughput:** 180T/hour
- **Probe:** Dual probe dedicated for primary and secondary reagents.
- **Cuvettes:** 1000 cuvettes walkaway, transported & discarded by a dedicated sheathed manipulator.
- **Alarm Function:** Insufficient Cuvettes, Waste and Low Reagent Alarms.
- **Barcode:** Integrated barcode for samples.
- **Connectivity:** LIS compatible, bidirectional.
- **Sample:** Can accommodate primary tubes/microtainers/transport tubes.
- **Reagent loading:** Unique tilt design for minimal reagent wastage. Drawer type system for loading and unloading of reagents.

All these features @ very low cost. Truly, Technology made affordable.

The Rolls Royce Among Coagulation Systems:

- Operon XL 3200tis a true walkaway system, combining many technologies in one:
- Ten Independent Measuring Channels.
  - Continuous automatic loading and discard of test cuvettes.
  - Single test cuvette for all measurements of Clotting, Chromogenic, Immunologic.

It's a Multi Tasker:

- Operon XI 3200tis true multi-tasker.
- Performs Routine or Special investigations with easy Stat options
  - Operates With an external computer and seamlessly connects with your LIS
  - Dual probe ensures high throughput

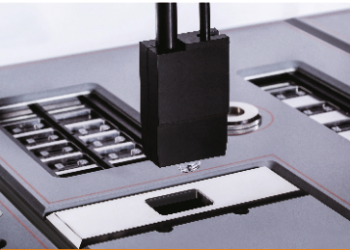
Precision and Reliability Uncompromised:

The Magnetic beads technology for test measurement ensures “NIL” interference from icteric, lipemic or Hazy samples and hence providing you with actual unbiased clot times.



First in Segment

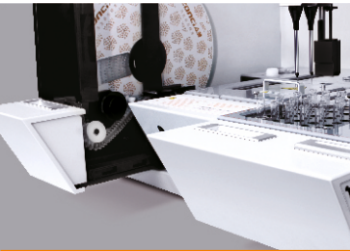
**Rolls Royce :-**First of its kind “The 10 channel Multi Assay System” ensures high throughput with greater flexibilities.



**Multi-Tasker: -** The robust Multi-Tasker Robotic Arm with fool-proof cuvette grip system for accurate transport/dispense & discard of test cuvettes.



**Precision and Stability: -**The telescopic Cuvette loading and unique modular reagents loading makes the entire test process seamless and easy. The 20 reagent positions ensures you are not short of loading the frequently used high consumption reagents or while performing multi analytes at same time.



Technical Specifications:

- Test Speed: 180T/Hour
- Test Channels: 10 Measurement Channels (First in Segment)

Tests Supported:

- PT/APTT/Lupus/Protein C/Protein S/ APCR/Factor Assays/Fibrinogen by Viscosity Clotting Method (Magnetic Induction)
- D-Dimer by Immunoturbidmetry Method (with curves)
- AT-3/tPA/Protein C/S/Vwf etc... by Chromogenic Method (with curves)
- PT Derived Fibrinogen by Delta Measurement Method

Design:

- XL 3200t is well lit inside by LED work lighting for better viewing.
- Four directions ventilation and cooling function
- Drawer-style loading system
- A strong Robotic Arm with dual Probe mounted firmly on two parallel stainless steel bars

Sample and Reagents:

**Sample Positions:** 35 Positions for Samples with Integrated barcode reader.

**Reagents:** 20 Reagent position chilled at 15°C including 2 Dedicated Stirring Positions for PT and APTT. Dual probe system for primary and secondary reagents handling

Consumables:

- **Cuvettes:** 1000 cuvettes rack with pre-dispensed magnetic ball that gets mounted on a dedicated Shuttle. Each cuvette is then transported to Measurement Channel with help of manipulator system and gets discarded to the bin after testing.
- **X1** Dedicated Cleanser position (X1) for thorough cleaning of the probe tip both externally and internally.
- **X2** Dedicated Washing Station on board that's connected to a Detergent (X2)

Alarm:

- Insufficient Cuvettes, waste and reagent alarms.
- Abnormal test results alarm

Quality Control

Extensive L-J charts with multi level control programming and west guard rules for data acceptance and rejection.

Connectivity

LIS compatible, bidirectional with USB port, XL3200t is operated by an external computer via **WINDOWS BASED** Software

Accuracy & Precision:

Parameter	Repeatability	
	Normal Plasma	Abnormal Plasma
PT(s)	±3.0%	±8.0%
APTT(s)	±4.0%	±8.0%
FIB(g/L)	±8.0%	±15.0%
TT(s)	±10.0%	±15.0%
D-Dimer(µg/ml)	±15.0% ( 0-1µg/mL)	±10.0% (±5µg/mL)
ATIII (%)	±5.0%	±10.0%

- Minimum Reaction Volume : 150µl
- Minimum Sample Volume : 2.5µl
- Minimum Reagent Volume :10 µl

Others:

- Package Dimension: 946mm\*924mm\*934mm
- Machine Dimension: 790mm\*710mm\*650mm
- Weight: 120Kg. Power Supply: 220V±22V
- Temperature: 15°C~30°C
- Relative Humidity: ≤70%
- Atmospheric Pressure: 86.0kPa ~106.0kPa