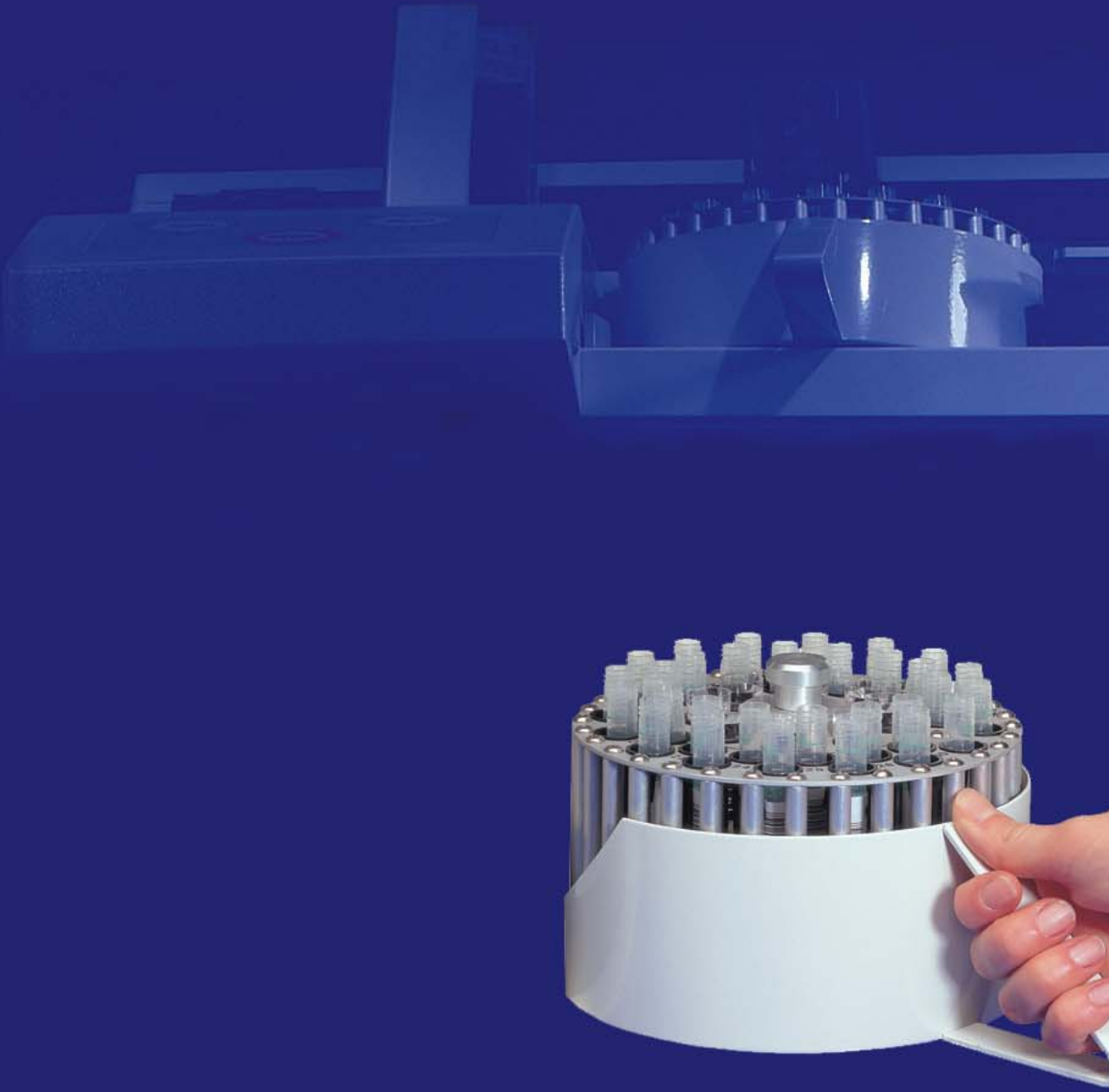


Coagulation



Insert and Scan

Thrombolyzer  
*Compact XR*

# Thrombolyzer

*Compact XR*

## Technical Details

**The Cuvette:** The plasma and reagents are incubated simultaneously, thus saving extensive pipetting and incubation in the measurement channel. The liquids are separated by fine partitions. The 4x cuvette-bar is integrated into a transport system. 29 bars make up one unit. Reloading can take place any time, even during a routine.

**The Measurement Process:** The cuvette bars are transported from the entry chamber into the pipetting unit. Following the pipetting process, the bars are transported through three incubation units straight into the measurement block. During this process, plasma and reagents are incubated to 37°C. The measurement block tilts down 90° and brings the cuvette into an upright position. In the measurement block, plasma and reagents are homogenized by the rotations of the steel globe.

**The Measurement System:** The steel ball is brought into rotation by a magnet underneath the cuvette. The ball effects the thorough and smooth mixing of the sample. Clotting therefore occurs simultaneously throughout the sample. The ball also concentrates the emerging fibrin strands within the light path, thus ensuring an exact determination of the clotting time. The measurements are controlled by the computer and are compared with an internally stored standard. Deviating measurements are automatically marked by the computer with an error-flag. The automatic filter exchange enables the machine to make additional measurements such as chromogenic substrates or immunological tests, which can be taken at 405 or 546 nm.

**The Sample Distributor:** Plasma and reagents are distributed with a pipette-needle. To avoid carry-overs, the needle is rinsed inside and outside with distilled water. An additional special detergent solution prevents contamination. A capacity level sensor controls the extraction of liquids from the primary containers and from the reagent bottles.

**The Reagents Entry Chamber:** The cooled entry chamber provides space for 16 reagent bottles with additional space for up to 5 plasma controls. This enables the Thrombolyzer to work through up to 10 different test parameters without further adjustments. Furthermore, up to 9 inputs can be freely defined for different tests.

**User-Friendly Software:** All information and commands for the daily routine can be found in the main menu. The software is very accessible and operators can be fully trained within one day. Data entries are made entirely from the keyboard and/or from barcode scanners. Various password levels protect the system from unauthorised access.

For Your Lab  
Clotting, Chromogenic and Immunological

Uncompromisingly Positive



# The Rotor

**Positioning and Scanning:** The rotor is simply slotted into the unit like a rack. After the scan button is pushed, the rotor seeks its home position and scans all samples. The patient data are simultaneously downloaded from the host systems and attached to the sample data. Each sample is scanned a second time and cross-checked to prevent data mix-ups.

**Additional Samples:** Additional samples are simply placed into a free position on the rotor. At the next opportunity, the rotor is scanned completely and cross-checked. The required data is downloaded from the host system and the sample is added into the running routine.



**Emergency Samples:** The emergency menu is accessed on the PC. The sample is placed in a free position on the rotor, just like an additional sample. Subsequent to scanning and feedback from the host system, the sample is marked as an emergency sample and is processed immediately.

# Cuvette Bar Return

After sampling, partly filled cuvette bars are returned from the measurement block into the pipetting chamber. The remaining free cuvettes are used for subsequent procedures. This ensures all cuvette bars are used to their full capacity.



## Technical description

Walk-away device  
Throughput 180 PT, 150 APTT  
45 samples to 4 parameters  
Test- or patient-orientated processing  
Automatic pre-dilution  
Automatic sample repeat  
Automatic calibration-curve calculation  
4 measurement channels  
Filter for 405nm and 546nm  
Derived fibrinogen  
Automatic level detection  
Cuvettes for 240 samples  
Sample entry for 31 primary containers  
Reagents entry for 16 large containers  
5 positions for quality control  
Automatic reagents-exchange  
Measurement system with automatic procedure-control  
Bi-directional interface

### Technical specifications:

Dimensions: Compact XR  
72 cm x 40 cm x 64,5 cm  
Weight: 51 kg  
Mains volatage: 120/230 V +/- 10 %  
Frequency range: 50 - 60 Hz  
Power consumption: 400 VA

RS 232 port  
For continuous use and emergency  
An open system for nearly all reagents  
Ready for immediate emergency use  
Prompt display of all results  
Quality-control program  
Multitasking on the PC possible at any time  
One computer menu for the entire routine  
Positive sample recognition  
Download of task lists from main computer  
Useable with primary containers  
Possibility of recharging with samples and reagents  
Possibility of reloading with cuvettes at any time  
Error control during clotting process  
Error criteria output  
Graphic presentation of clotting process  
Database for 30.000 procedures  
Up-to-date display of sample status  
Cuvette Bar Return

System:  
Thrombolyzer Compact XR  
Pentium PC  
Colour monitor  
System accessories  
Printer

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