ClotPro®

Haemostasis Analyser System

Comprehensive Monitoring of Haemostasis

HAEMONETICS®

ClotPro®

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The benefits of viscoelastic coagulation monitoring have been described in many fields of surgery and intensive care: cardiac[1] and vascular surgery[2,3], organ transplantation[4], trauma[5], obstetrics[6], orthopaedic surgery[7] and intensive care[8].

The ClotPro system allows for rapid and clear identification of patients' haemostasis conditions in a laboratory or near patient setting.

Targeted management of coagulopathy

The ClotPro system complements the haemostasis suite of Haemonetics solutions to most comprehensively meet clinician needs.

It supports the management of acute blood coagulation disorders, individualised coagulation management, reduction in the use of inappropriate blood products, and better outcomes for improved patient care.

Haemonetics viscoelastic testing solutions

New Generation of Viscoelastometry

Technology Overview

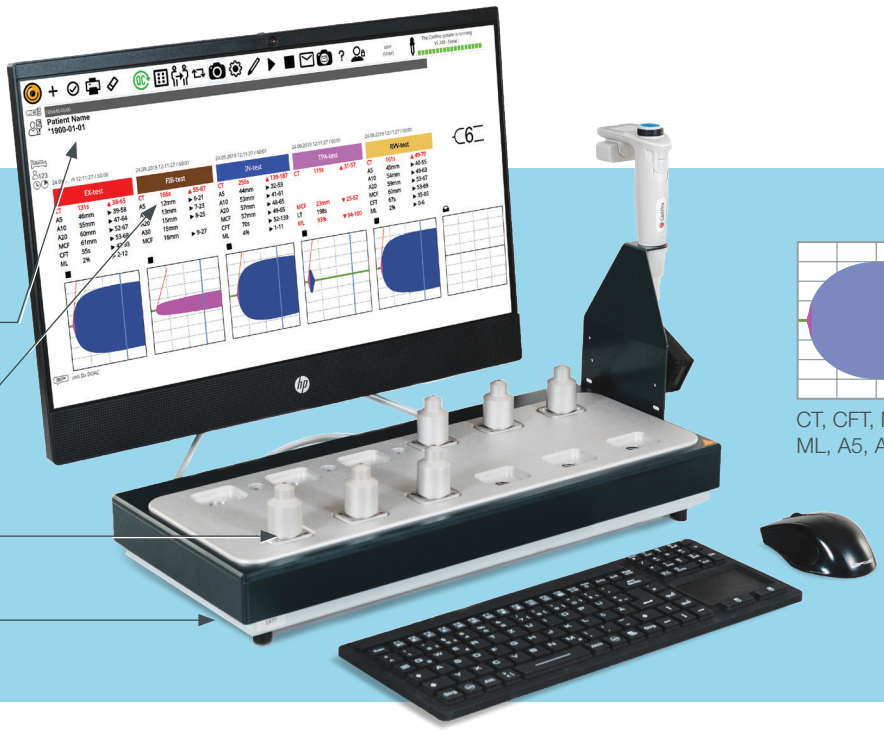
Six channel user-friendly system

Touch screen, barcode scanner, keyboard and mouse provide options for user input

Expression of results using established thrombelastometry parameters

6 independent channels for increased throughput & flexibility

Compact and easy to use



CT, CFT, MCF, ML, A5, A10

The ClotPro® system allows analysis of up to 6 assays simultaneously in any test combination. Tests can be repeated after therapeutic interventions as required and the diagnostic workup can be developed step by step.

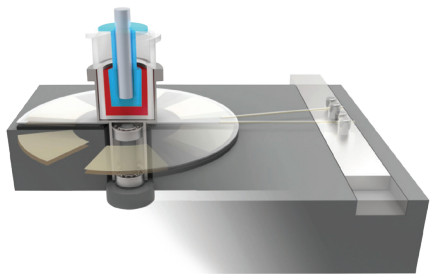
Software features include:

- Real-time display of 6 measurements
- Automatic storage of test results (graphics & data files)
- Screen sharing for live-view of active tests in remote locations

Elastic Motion Thromboelastography

The ClotPro system uses Elastic Motion Thromboelastography, a new generation viscoelastometry technique based on the established cup and pin technology.

Cup and pin technology



The cup and pin technology allows for the measurement of clotting rate, strength and stability. The rotation resistance of the cup is measured in a reproducible manner as the blood clots.

Innovation is at the Heart of the ClotPro® System

Extended Assay Portfolio

The ClotPro system offers 8 tests including the established screening assays (EX-test, FIBtest, AP-test, INtest, HI-test) and 3 new assays for drug monitoring (RVV-test, ECA-test, TPA-test).

Helps to address unmet medical needs with the DOACs assays

The development of 3 innovative assays (RVV-test, ECA-test, TPA-test) broadens the diagnostic scope of viscoelastometry while considering advances in therapeutics.

EX-test	Rapid overview of the coagulation process
FIB-test	Detection of functional fibrinogen under dual platelet inhibition
AP-test	Inhibition of fibrinolysis facilitating the detection of hyperfibrinolytic activity (in combination with EX-test)
IN-test	Intrinsic screening test, sensitive to heparin and coagulation factors (e.g. FVIII)
HI-test	IN-test with heparin neutralisation to ascertain residual coagulation activity
TPA- test	Activation of fibrinolysis for the detection of antifibrinolytic therapies
RVV-test	Screening test for DOACs (e.g. rivaroxaban)
ECA-test	Screening specific for direct thrombin antagonists

Active Tip™ Technology

Liquid reagent handling for viscoelastometry requires pipetting of small reagent volumes, which is challenging in acute situations.

The Active Tip technology is designed to eliminate reagent handling on the ClotPro® analyser.

The reagents are present in a little sponge in the pipetting tip in dry form. During pipetting of the blood sample, the reagents are mixed with the blood – simply and safely.

Each active tip comes individually sealed preventing any reagent wastage and remains stable at room temperature.

No Reagent Handling, Easy to Use and Safe

Through its different features, the Active Tip technology helps reduce pre-analytical errors that could lead to incorrect patient results:

- No reagent reconstitution step
- Room temperature storage
- Pre-calibrated pipette
- Single-unit use

The ClotPro® System Solution at a Glance

Clinically Valuable

- Benefits of viscoelastic testing
- Differential analysis of coagulation
- Including DOACs assays and detection of antifibrinolytic therapies

Comprehensive customer support

- System implementation specialists
- Operational training and clinical education
- Technical product support

Efficient

- Time to result (< 3 min for first results)
- Expressed in established parameters
- Parallel testing of up to 6 samples

User-friendly

- Active Tip™ technology
- Electronic pipetting
- Remote viewing of test results

The ClotPro system is the smart choice for viscoelastic testing. It supports the management of acute blood coagulation disorders to facilitate the selection of the most appropriate therapy and stop bleeding.

Ordering Information

Catalog Number	Ordering Information
111010	ClotPro® Analyser
112010	Cups and Pins (Box of 120 PCS.)
113001	EX-TEST (Bag of 10 Active Tips)
113004	IN-TEST (Bag of 10 Active Tips)
113002	FIB-TEST (Bag of 10 Active Tips)
113003	AP-TEST (Bag of 10 Active Tips)
113005	HI-TEST (Bag of 10 Active Tips)
113011	TPA-TEST (Bag of 10 Active Tips)
113012	RW-TEST (Bag of 10 Active Tips)
113013	ECA-TEST (Bag of 10 Active Tips)
113101	Quality Control QC1 (Box of 5 Vials)
113102	Quality Control QC2 (Box of 5 Vials)
113112	Quality Control QCDIL 5 mL (Bag 6 Tubes)

The ClotPro haemostasis analyser system may not be available in all countries. To check availability in your region, please contact us for more information.

Specifications

Test Channels	6
Tests	EX-test, IN-test, FIB-test, AP-test, HI-test, RVV-test, ECA-test, TPA-test
Dimensions	48 cm x 20 cm x 8 cm (WxDxH)
Sample volume	340 µl citrated blood per test

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For more information visit our website at www.haemonetics.com, or contact your local Haemonetics representative.

1. https://www.nice.org.uk/guidance/dg13/chapter/1-recommendations#cardiac-surgery
2. Utilization of Thromboelastography with Platelet Mapping to Predict Infection and Poor Wound Healing in Postoperative Vascular Patients Majumdar, Monica et al. Annals of Vascular Surgery, Volume 87, 213 - 224.
3. Stoneham, MD, Barbosa, A, Maher, K, Douglass, P, Desborough, MJR, Von Kier, S. Intraoperative cell salvage using swab wash and serial thromboelastography in elective abdominal aortic aneurysm surgery involving massive blood loss. Br J Haematol. 2023; 200(5): 652– 659. https://doi.org/10.1111/bjh.18523.
4. Justin T. Graff, Alexander R. Cortez, Vikrom K. Dhar, Connor Wakefield, Madison C. Cuffy, Shimul A. Shah, Michael D. Goodman, Perioperative thrombelastography serves as an important assessment tool of transfusion requirements during liver transplantation, Surgery Open Science, Volume 2, Issue 2, 2020, Pages 70-74, ISSN 2589-8450.
5. Cochrane C, Chinna S, Um JY, Dias JD, Hartmann J, Bradley J, Brooks A. Site-Of-Care Viscoelastic Assay in Major Trauma Improves Outcomes and Is Cost Neutral Compared with Standard Coagulation Tests. Diagnostics (Basel). 2020 Jul 17;10(7):486. doi: 10.3390/diagnostics10070486. PMID: 3270 8960; PMCID: PMC7400090.
6. Roberts TCD, De Lloyd L, Bell SF, Cohen L, James D, Ridgway A, Jenkins V, Field V, Collis RE, Collins PW. Utility of viscoelastography with TEG 6s to direct management of haemostasis during obstetric haemorrhage: a prospective observational study. Int J Obstet Anesth. 2021 Aug;47:103192. doi: 10.1016/j.ijoa.2021.103192. Epub 2021 May 25. PMID: 34144351.
7. Mamczak CN, Speybroeck J, Stillson JE, Dynako J, Piscoya A, Peck EE, Aboukhaled M, Cancel E, McDonald M, Garcia D, Lovejoy J, Lubin S, Stanton R, Kutcher ME. Viscoelastic Hemostatic Assays for Orthopedic Trauma and Elective Procedures. J Clin Med. 2022 Jul 12;11(14):4029. doi: 10.3390/jcm11144029. PMID: 35887803; PMCID: PMC9323142.
8. Collett LW, Gluck S, Strickland RM, Reddi BJ. Evaluation of coagulation status using viscoelastic testing in intensive care patients with coronavirus disease 2019 (COVID-19): An observational point prevalence cohort study. Aust Crit Care. 2021 Mar;34(2):155-159. doi: 10.1016/j.aucc.2020.07.003. Epub 2020 Jul 21. PMID: 32773357; PMCID: PMC7373052.

For a list of worldwide office locations and contact information, visit www.haemonetics.com/officelocations