Advanced Hemostasis testing automation and quality management for medium-volume labs

Compact in size yet robust in features, the ACL TOP 350 CTS system is fully automated for fast and accurate results, with no specialized operator training required. Testing for routine or specialty assays is simple. New automated pre-analytical sample checks, advanced automated quality management and accreditation support tools minimize risk of errors and enhance efficiency.

The ACL TOP 350 CTS system is the ideal solution for medium-volume labs and perfectly complements the ACL TOP 750 and 550 CTS systems for a fully integrated testing environment.
**Technical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Test menu</strong></td>
<td>Clotting, chromogenic and immunological assays</td>
</tr>
<tr>
<td><strong>Continuous sample and reagent loading</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Continuous operation</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Sample and reagent transport system</strong></td>
<td>Racks</td>
</tr>
<tr>
<td><strong>Samples onboard</strong></td>
<td>40 (10/sample rack)</td>
</tr>
<tr>
<td><strong>Assay-specific HIL sample check</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Tube-fill height detection</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Sample aspiration clog check</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Closed-Tube Sampling</strong></td>
<td>YES (cap-piercing)</td>
</tr>
<tr>
<td><strong>Reagents onboard</strong></td>
<td>26 (refrigerated)</td>
</tr>
<tr>
<td><strong>Reagents barcode reader</strong></td>
<td>YES (integrated)</td>
</tr>
<tr>
<td><strong>Barcoded reagents</strong></td>
<td>YES (barcode includes lot, exp. date and vial size)</td>
</tr>
<tr>
<td><strong>Cuvettes onboard</strong></td>
<td>800</td>
</tr>
<tr>
<td><strong>Applications onboard</strong></td>
<td>500 (250 user-definable)</td>
</tr>
<tr>
<td><strong>Tests/sample</strong></td>
<td>30</td>
</tr>
<tr>
<td><strong>Throughput</strong></td>
<td></td>
</tr>
<tr>
<td>PT</td>
<td>up to 110 tests/hr (110 samples/hr)</td>
</tr>
<tr>
<td>APTT</td>
<td>up to 110 tests/hr (110 samples/hr)</td>
</tr>
<tr>
<td>PT/APTT</td>
<td>up to 110 tests/hr (55 samples/hr)</td>
</tr>
<tr>
<td><strong>Sample predilution</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Calibration curve predilution</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Factor parallelism</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>STAT capability</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Rerun and reflex testing</strong></td>
<td>YES (configurable)</td>
</tr>
<tr>
<td><strong>Reaction-curves display</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Quality Control program</strong></td>
<td>YES (with configurable multi-rules)</td>
</tr>
<tr>
<td><strong>Results autovalidation</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Patient sample results database</strong></td>
<td>20,000 samples (configurable)</td>
</tr>
<tr>
<td><strong>Security system</strong></td>
<td>YES (configurable)</td>
</tr>
<tr>
<td><strong>Auto log-off</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Events log system</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Audit-trail report</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Electronic signature</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Bidirectional interface</strong></td>
<td>YES (with host query)</td>
</tr>
<tr>
<td><strong>PC</strong></td>
<td>External (dedicated)</td>
</tr>
<tr>
<td><strong>Operating system</strong></td>
<td>Windows’ 7-based</td>
</tr>
<tr>
<td><strong>Monitor</strong></td>
<td>17-inch color LCD touchscreen (external)</td>
</tr>
<tr>
<td><strong>Keyboard</strong></td>
<td>YES (external)</td>
</tr>
<tr>
<td><strong>Mouse</strong></td>
<td>YES (external)</td>
</tr>
<tr>
<td><strong>Printer</strong></td>
<td>YES (external)</td>
</tr>
<tr>
<td><strong>User interface</strong></td>
<td>Windows 7-based</td>
</tr>
<tr>
<td><strong>Unit dimensions</strong></td>
<td>(w x d x h) 81 x 84 x 73 cm (32 x 33 x 29 in)</td>
</tr>
<tr>
<td><strong>Weight (analyzer)</strong></td>
<td>91 kg (200 lbs)</td>
</tr>
</tbody>
</table>

IL is passionate about bringing the most innovative solutions to Hemostasis testing. Through ACL® products, IL offers a variety of the highest-quality instruments, all complemented by a full panel of HemosIL® assays and supported by a world-class technical team. In addition to a broad Hemostasis testing offering, IL is committed to continuous enhancements through constant innovation.

---

The Instrumentation Laboratory logo, HemosIL, ACL, ACL Access, ACL ELITE and ACL TOP are trademarks of Instrumentation Laboratory Company and/or one of its subsidiaries or parent companies and may be registered in the United States Patent and Trademark Office and in other jurisdictions. All other product names, company names, marks, logos and symbols are trademarks of their respective owners. ©2015 Instrumentation Laboratory. All rights reserved.

For more information, contact your local Werfen sales representative or distributor.
Advanced Hemostasis testing automation and quality management for medium- to high-volume labs

The ACL TOP 550 CTS system combines unique testing capabilities with end-to-end automation for simplicity and maximum operator productivity. Its comprehensive menu for routine and specialty assays is ideal for broad-spectrum lab needs and testing volumes. New automated pre-analytical sample checks, advanced automated quality management and accreditation support tools enhance efficiency and patient care.

A complete solution for medium- to high-volume routine and specialty labs, the ACL TOP 550 CTS system delivers unmatched testing automation and quality.
Technical Specifications

Test menu: Clotting, chromogenic and immunological assays
Continuous sample and reagent loading: YES
Continuous operation: YES
Sample and reagent transport system: Racks
Samples onboard: 80 (10/sample rack)
Assay-specific HIL sample check: YES
Tube-fill height detection: YES
Sample aspiration clog check: YES
Closed-Tube Sampling: YES (cap-piercing)
Reagents onboard: 40 (refrigerated)
Reagents barcode reader: YES (integrated)
Barcode reagents: YES (barcode includes lot, exp. date and vial size)
Cuvettes onboard: 800
Applications onboard: 500 (250 user-definable)
Tests/sample: 30
Throughput:
- PT up to 240 tests/hr (240 samples/hr)
- APTT up to 180 tests/hr (180 samples/hr)
- PT/APTT up to 180 tests/hr (90 samples/hr)
Sample predilution: YES
Calibration curve predilution: YES

IL is passionate about bringing the most innovative solutions to Hemostasis testing. Through ACL® products, IL offers a variety of the highest-quality instruments, all complemented by a full panel of HemosIL® assays and supported by a world-class technical team. In addition to a broad Hemostasis testing offering, IL is committed to continuous enhancements through constant innovation.

For more information, contact your local Werfen sales representative or distributor.
Advanced Hemostasis testing automation and quality management for high-volume labs

Delivering the highest level of performance for the best possible results, the ACL TOP 750 system is ideal in any high-volume lab environment. Now with automated pre-analytical sample checks and advanced automated quality management, the ACL TOP 750 system minimizes risk of errors and enhances efficiency for improved patient care.

Every ACL TOP 750 system maximizes simplicity, speed and productivity, elevating testing automation and quality to the highest level.
Technical Specifications

Test menu Clotting, chromogenic and immunological assays
Continuous sample and reagent loading YES
Continuous operation YES
Sample and reagent transport system Racks
Samples onboard 120 (10/sample rack)
Assay-specific YES
HIL sample check YES
Tube-fill height detection YES
Sample aspiration clog check YES
Reagents onboard 60 (44 refrig. + 16 room temp.)
Reagents barcode reader YES (integrated)
Barcoded reagents YES (barcode includes lot, exp. date and vial size)
Cuvettes onboard 800
Applications onboard 500 (250 user-definable)
Tests/sample 30

Throughput
PT up to 360 tests/hr
(360 samples/hr)
APTTr up to 320 tests/hr
(320 samples/hr)
PT/APTr up to 330 tests/hr
(165 samples/hr)

Sample predilution YES
Calibration curve predilution YES

Factor parallelism YES
STAT capability (at any time, in any position)
Rerun and reflex testing YES (configurable)
Reaction-curves display YES
Quality Control program YES (with configurable multi-rules)
Results autovalidation YES
Patient sample results database 20,000 samples (configurable)
Security system YES (configurable)
Auto log-off YES
Events log system YES
Audit-trail report YES
Electronic signature YES
Bidirectional interface YES (with host query)
PC External (dedicated)
Operating system Windows® 7-based
Monitor 17-inch color LCD touchscreen (external)

Keyboard YES (external)
Mouse YES (external)
Printer YES (external)
User interface YES (Windows 7-based)
Unit dimensions (w x d x h) 151 x 76 x 73 cm (59 x 30 x 29 in)
Weight (analyzer) 162 kg (356 lbs)

IL is passionate about bringing the most innovative solutions to Hemostasis testing. Through ACL® products, IL offers a variety of the highest-quality instruments, all complemented by a full panel of HemosIL® assays and supported by a world-class technical team. In addition to a broad Hemostasis testing offering, IL is committed to continuous enhancements through constant innovation.

Werfen
Corporate Headquarters
Plaza de Europa, 21-23
08908 L’Hospitalet de Llobregat
Barcelona, Spain
+34-93-4010101
werfen.com

Worldwide Locations

US, Canada, Latin America and South America
Brazil São Paulo +55-11-41543337 br.werfen.com
Canada Richmond Hill, ON +1-800-552-2025 x6115
www.ilus.com
Colombia Bogota +57(1)-616-7513
Mexico Col. Granada +52-55-5262-1760
idiagnostics.com
Uruguay Montevideo +598-2-481-31-33
USA Bedford, MA +1-781-861-0710
www.ilus.com
Pacific Australia Artarmon, Sydney +61-2-9698-0200
China Shanghai +86-21-66308671
Beijing +86-10-59756055
www.cn.werfen.com
Hong Kong Hong Kong +852-2792-7773
India New Delhi +91-40-29-500
ia.ilwerfen.com
Japan Minato-ku, Tokyo +81-3-5419-1301
jp.werfen.com
Korea Seoul +82-2-5719246
kr.werfen.com
Thailand Bangkok +66-271-226-289

Europe, Middle East, Africa
Austria Vienna +43-1-256-58-000
at.werfen.com
Belgium +32-2-7752052
The Netherlands +31-76-5480100
benelux.werfen.com
Czech Republic Prague +420-246-090-931
cz.werfen.com
France Le Piz Saint Genais +33-182-30-86-00
fr.werfen.com
Germany Munich +49-89-909070
de.werfen.com

Hungary Budapest +36-1-882-73-10
hu.werfen.com
Italy Milan +39-02-25221
it.werfen.com
Lithuania Kaunas +370-37-313157
lt.werfen.com
Poland Warsaw +48-22-336-18-00
pl.werfen.com
Portugal Camarinas +351-214274312
pt.werfen.com
Russia Moscow +7-499-124-45-59
ru.ilwerfen.com
Spain Barcelona +34-902-20-30-90
es.werfen.com
UK England +44-1925-810141
uk.werfen.com
For all other countries visit international.werfen.com

The Instrumentation Laboratory logo, HemosIL, ACL, ACL AcuStar, ACL ELITE and ACL TOP are trademarks of Instrumentation Laboratory Company and/or one of its subsidiaries or parent companies and may be registered in the United States Patent and Trademark Office and in other jurisdictions. All other product names, company names, marks, logos and symbols are trademarks of their respective owners. ©2015 Instrumentation Laboratory. All rights reserved.

For more information, contact your local Werfen sales representative or distributor.
Advanced Hemostasis testing automation and quality management for high-volume labs

Delivering the highest level of performance for the best possible results, the ACL TOP 750 CTS system is ideal in any high-volume lab environment. Closed-Tube Sampling adds enhanced safety. Now with automated pre-analytical sample checks and advanced automated quality management, the ACL TOP 750 CTS system minimizes risk of errors and enhances efficiency for improved patient care.

Every ACL TOP 750 system maximizes simplicity, speed and productivity, elevating testing automation and quality to the highest level.
Technical Specifications

Test menu
- Clotting, chromogenic and immunological assays

Continuous sample and reagent loading
- YES

Continuous operation
- YES

Sample and reagent transport system
- Racks

Samples onboard
- 120 (10/sample rack)

Assay-specific
- YES

Tube-fill height detection
- YES

Sample aspiration
clog check
- YES

Closed-Tube Sampling
- YES (cap-piercing)

Reagents onboard
- 60 (44 refrig. + 16 room temp.)

Reagents barcode reader
- YES (integrated)

Barcoded reagents
- YES (barcode includes lot, exp. date and vial size)

Cuvettes onboard
- 800

Applications onboard
- 500 (250 user-definable)

Tests/sample
- 30

Throughput
- PT: up to 270 tests/hr (270 samples/hr)
- APTT: up to 270 tests/hr (270 samples/hr)
- PT/APTT: up to 260 tests/hr (130 samples/hr)

Sample predilution
- YES

Calibration curve predilution
- YES

Factor parallelism
- YES

STAT capability
- (at any time, in any position)

Rerun and reflex testing
- YES (configurable)

Reaction-curves display
- YES

Quality Control program
- YES (with configurable multi-rules)

Results autovalidation
- YES

Patient sample results database
- 20,000 samples (configurable)

Security system
- YES (configurable)

Auto log-off
- YES

Events log system
- YES

Audit-trail report
- YES

Electronic signature
- YES

Bidirectional interface
- YES (with host query)

PC
- External (dedicated)

Operating system
- Windows 7-based

Monitor
- 17-inch color LCD touchscreen (external)

Keyboard
- YES (external)

Mouse
- YES (external)

Printer
- YES (external)

User interface
- Windows 7-based

Unit dimensions
- (w x d x h): 151 x 76 x 73 cm (59 x 30 x 29 in)

Weight (analyzer)
- 166 kg (367 lbs)

IL is passionate about bringing the most innovative solutions to Hemostasis testing. Through ACL® products, IL offers a variety of the highest-quality instruments, all complemented by a full panel of HemosIL® assays and supported by a world-class technical team. In addition to a broad Hemostasis testing offering, IL is committed to continuous enhancements through constant innovation.

Werfen
Corporate Headquarters
Plaza de Europa, 21–23
08908 L’Hospitalet de Llobregat
Barcelona, Spain
+34-93-4010101
werfen.com

Institutional Laboratory Headquarters
180 Hartwell Road
Bedford, MA 01730 USA
+1-781-861-0700
www.ilww.com

Worldwide Locations

US, Canada, Latin America and South America
Brazil
São Paulo
+55-11-41543337
br.werfen.com

Canada
Richmond Hill, ON
+1-800-552-2025 x5115
www.ilus.com

Colombia
Bogota
+57(1)-616-7513

Mexico
Col. Granada
+52-55-5262-1760
idiagnostics.com

Uruguay
Montevideo
+598-481-81-33

USA
Bedford, MA
+1-781-861-0710
www.ilus.com

Pacific
Australia
Artarmon, Sydney
+61-2-9698-0200
China
Shanghai
+86-21-66308671
Beijing
+86-10-59756055
cn.werfen.com

Hong Kong
Hong Kong
+852-2752-7773
cn.werfen.com

India
New Delhi
+91-990-29-550
ia.ilwerfen.com

Japan
Minato-ku, Tokyo
+81-3-5419-1301
ej.werfen.com

Korea
Seoul
+82-2-5719246
kr.werfen.com

Thailand
Bangkok
+66-271-226-28/9

Europe, Middle East, Africa
Austria
Vienna
+43-1-256-58-000
at.werfen.com

Belgium
Brussels
+32-2-775005
benelux.werfen.com

Czech Republic
Prague
+420-246-090-931
cz.werfen.com

France
Le Ptit Saint Genais
+33-182-30-86-00
fr.werfen.com

Germany
Munich
+49-89-909070
de.werfen.com

Hungary
Budapest
+36-1-882-73-10
hu.werfen.com

Italy
Milan
+39-02-25221
it.werfen.com

Lithuania
Kaunas
+370-37-313157
lt.werfen.com

Poland
Warsaw
+48-22-336-18-00
pl.werfen.com

Portugal
Sao Pedro de Moel
+351-214-273-132
pt.werfen.com

Spain
Barcelona
+34-902-20-30-90
es.werfen.com

UK
England
+44-1925-810141
uk.werfen.com

For all other countries visit international.werfen.com

The Institution Laboratory logo, HemosIL, ACL, ACL AcuStar, ACL ELITE and ACL TOP are trademarks of Instrumentation Laboratory Company and/or one of its subsidiaries or parent companies and may be registered in the United States Patent and Trademark Office and in other jurisdictions. All other product names, company names, marks and logos are trademarks of their respective owners. ©2015 Instrumentation Laboratory. All rights reserved.

For more information, contact your local Werfen sales representative or distributor.
Advanced automation and quality management for Laboratory Automation Systems

The ACL TOP 750 LAS system connects to virtually any CLSI-compliant Laboratory Automation System (LAS) track to deliver maximum versatility without costly robotic interfaces. Sample aliquots, sufficient for all reflex and rerun testing, are drawn from the primary sample tube and stored onboard, eliminating sample-tube reintroduction. New automated pre-analytical sample checks minimize risk of errors and enhance efficiency. Continuous track sampling and simultaneous front-loading of samples provide maximum flexibility and speed.

Connects to CLSI-compliant LAS tracks,* including:
- Thermo Fisher
- Beckman Coulter
- Abbott
- Siemens
- Inpeco
- IDS

The ACL TOP 750 LAS system saves time and resources and supports better patient care—test after test.

* Connections may need to meet additional localized regulatory requirements.
IL is passionate about bringing the most innovative solutions to Hemostasis testing. Through ACL® products, IL offers a variety of the highest-quality instruments, all complemented by a full panel of HemosIL® assays and supported by a world-class technical team. In addition to a broad Hemostasis testing offering, IL is committed to continuous enhancements through constant innovation.