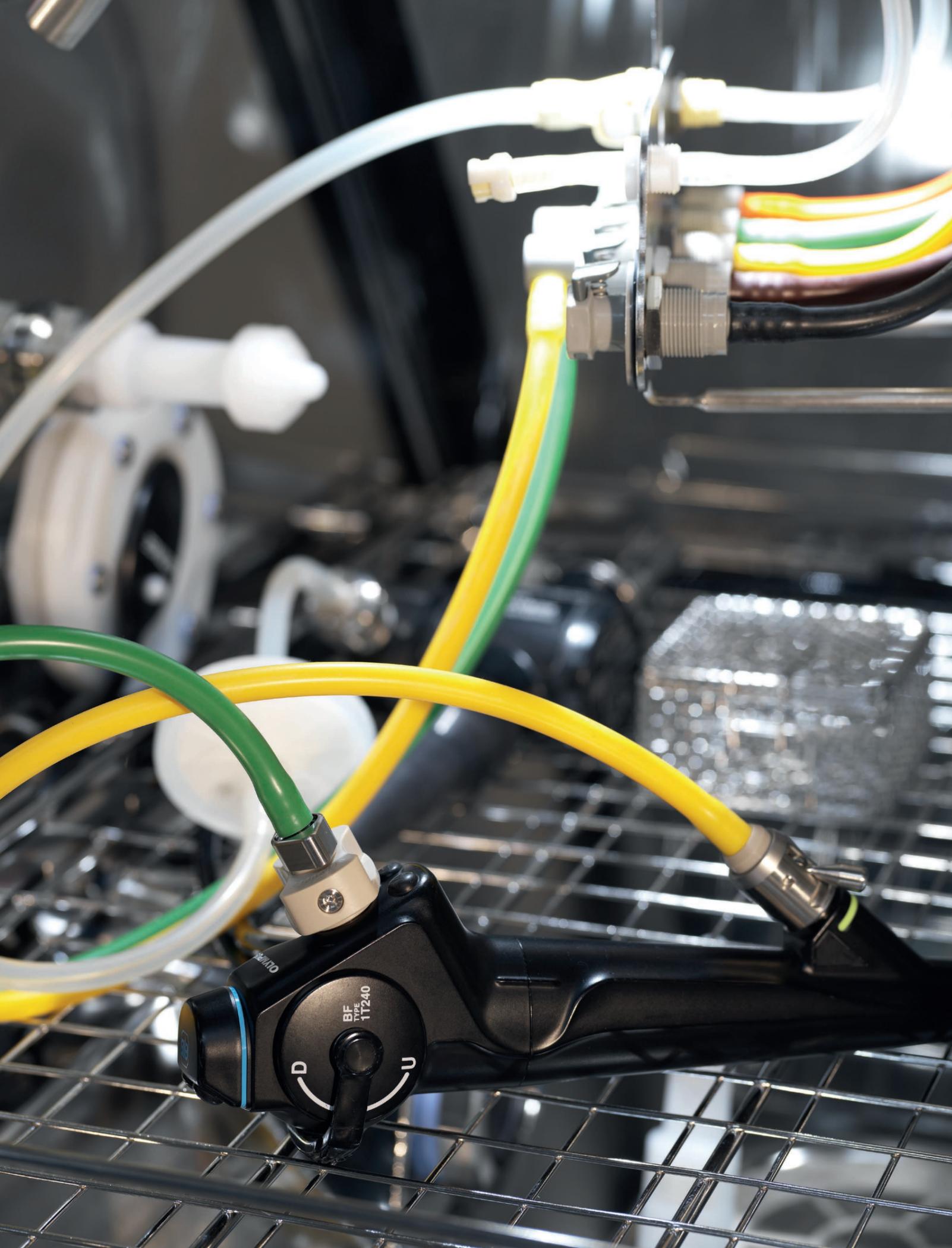




Endoscope Reprocessing Range

Take control of your endoscope workflow



Trust our expertise in endoscopy

Endoscope reprocessing

The comprehensive range of automatic endoscope reprocessors, detergents, and storage solutions are designed to consistently, accurately, and cost-effectively enhance patient safety.

Your facility has a zero-tolerance approach to endoscope cross-contamination. So do we.

We created a comprehensive range of products that not only provide effective cleaning of endoscopes, but also physical barriers to prevent accidental cross-contamination. Intuitive, user-friendly operation and pre-programmed cycles reduce the risk of user error.

With Getinge, you can ensure a consistent workflow, high-quality results, and traceable processes. Your patients deserve a clean and disinfected scope every time. Trust Getinge to help you meet your endoscope reprocessing needs.

Endoscope cleaning

The first step in endoscope reprocessing

The first step in the protocol for reprocessing any flexible endoscope begins with pre-cleaning in the procedure room or at the bedside.

Pre-cleaning facilitates the removal of readily detachable organic matter. This helps to reduce the possibility of drying and causing channel blockages, especially if there is a delay before the manual cleaning takes place.

Getinge Scope Pre-Clean

Getinge Scope Pre-Clean is a convenient, pre-mixed, single use detergent solution and cylindrical sponge for the first stage of the decontamination process of flexible endoscopes at the point of care.



Getinge Clean Enzymatic Plus for manual cleaning

Getinge Clean Enzymatic Plus has four enzyme types and a balanced surfactant package for effective manual cleaning of flexible endoscopes. It easily removes soil and biofilm and has wide materials compatibility with metals, plastics and elastomers.



Getinge Face Shield

The Getinge Face Shield is made of double-sided, anti-fog material that provides ample coverage. It is fitted with a shaped foam backing and elasticized headband to ensure a secure, comfortable fit.



Fast and efficient cycles

Process scopes in only 23 minutes

Getinge ED-Flow and ED-Flow Single Door are designed to improve the workflow in your endoscopy department.

Getinge offers two models of automated endoscope reprocessors which efficiently perform leak testing, cleaning, and high-level disinfection of flexible endoscopes, delivering effective, reliable results.

Getinge ED-Flow AER – Pass-through

The Getinge ED-Flow AER is a true physical barrier system designed to separate the dirty and clean areas. It is the perfect solution for larger endoscopy departments that have 10 endoscopes or more with excellent throughput due to its two separate chambers and short cycles. Interlocked doors ensure that only scopes that have run through a complete and approved cycle can be unloaded from the clean side. If an error occurs during the process, the ED-Flow will only open on the dirty side.

Getinge ED-Flow SD AER – Single Door

Productivity in the endoscopy reprocessing area is key. The Getinge ED-Flow SD AER is designed to provide high productivity in an existing room or a smaller facility with a single zone design. It offers excellent throughput due to its two separate chambers and short cycles. For even higher productivity you can install several units in a row.



Scan the QR code with your mobile to view your department.



Process indicator lights
Colored LEDs allow operators to easily view from across the room when the process has been successfully completed (green) or provide a visual alert in case of alarm (red).

Complete visibility
Glass paneling provides visibility and allows communication across the entire department.

Optimum traceability
RFID technology allows for easy documentation of the endoscope, operator, and cycle data. Software is available from Getinge to help manage all the data.

Single direction workflow
The pass-through design allows for a true physical barrier between soiled and clean sides. Each chamber has two doors, one for loading and the other for unloading the endoscopes.

Two asynchronous chambers
The two chambers of the ED-Flow allow processing of two endoscopes at the same time – for faster and a more efficient flow of flexible endoscopes.

Unique handling of chemicals
The Aperlan Agent A and Agent B disinfectant containers are uniquely shaped to ensure correct placement. The perforating disinfectant delivery system prevents operator exposure.

Hands-free operation
Open / close the doors and start the cycle using the foot pedal. The RFID technology will automatically identify scope model and serial number to ensure the correct program is always selected.



The Getinge ED-Flow uses two different disinfection methods: thermal self-disinfection for the chamber and chemical disinfection for your endoscopes as per EN ISO 15883-4.

User friendly, hands-free operation

Simply productive

When the operator has loaded the endoscope into the AER, its RFID tag is automatically identified by the machine and the correct program is selected for that endoscope. The operator then must scan their RFID badge and press the foot pedal to start the process.

No touch required

The operator does not have to touch any panel or button when loading or unloading endoscopes. This minimizes the risk of cross-contamination and simplifies the process.

Automated data capture

The ED-Flow cannot be started or unloaded without recording the correct user and endoscope information. This data is then automatically documented in the process record for traceability.

Truly connected

Getinge Online allows real-time and historic performance overview of your ED-Flow to enable faster reaction to department challenges and overall enhanced productivity.

Programmable thermal self-disinfection program

The self-disinfection program can be pre-scheduled for automatic start so that the ED-Flow is ready for use, for example in the morning when you arrive. This maximizes efficiency and reduces the risk of cross-contamination.





Safe and effective detergents

Designed to eliminate exposure to chemicals

ED-Flow chemistry

ED-Flow requires DLC detergent and Aperlan Agents A and B to achieve effective cleaning and high level disinfection. The results are proven to comply with the latest ISO 15883 standards and are compatible with the endoscopes from all the major manufacturers.

- **Biofilm removal detergent:** Getinge DLC alkaline detergent has well documented efficacy for protein and biofilm removal.¹ The 3L containers last for 60 cycles.
- **Aperlan for disinfection efficacy:** The single use disinfectant is a peracetic acid-based chemical delivered in two separate 5 kg containers – A and B. The two agents are mixed directly inside the machine and last for approximately 85 cycles.
- **Warning when container levels are low:** The level of detergent and disinfectant is constantly monitored by the control system and can be displayed on the operator screen. The system warns if levels are low, preventing chemicals from running out during a cycle.
- **The containers do not have to be opened:** The bottles of Aperlan A and B are pierced inside the ED-Flow mitigating operator exposure to the chemicals.
- **Error proof chemical replacement:** The containers are uniquely shaped to ensure correct chemical placement.



Complete endoscope traceability

Optimize your endoscope handling and utilization

T-DOC EndoTrace tracks all unique endoscope processes for regulatory compliance and highest level of patient safety



T-DOC EndoTrace supports you in ensuring correct endoscope handling, regulatory compliance, and the highest level of patient safety. Complete traceability is ensured as T-DOC registers endoscopes and button valves throughout their lifespan and links them to all processes, actions and people they encounter.

T-DOC EndoTrace supports the user in the complex endoscope handling with detailed media-supported instructions in the user-friendly interface. The T-DOC drying cabinet info overview helps manage location and expiry time of endoscopes. In addition, you always know where your endoscopes are when you need them.

Document all endoscope disinfection processes

Combine T-DOC EndoTrace with T-DOC Endo Data Logging for data capturing of cycle phases, time, temperature, endoscope RFID tag, user ID, machine and program type and detergent / disinfectant exposure.

If a cycle error occurs, T-DOC alerts staff before continuing the verification process. The patient and / or doctor can be linked to the endoscope to ensure patient safety and full documentation in the unlikely event of a recall.

T-DOC can be interfaced with Getinge Automated Endoscope Reprocessors and Getinge Drying and Storage Cabinets.

Getinge's hospital efficiency solutions

T-DOC is part of Getinge's suite of hospital efficiency solutions which support cross-hospital workflows centered around your CSSD and OR. Our software solutions enable you to capture value and save cost through streamlined processes and increased resource utilization, helping you deliver the best possible care for patients.

Getinge's hospital efficiency solutions consist of:

- Torin OR Management
- Tegrin OR Integration
- T-DOC Sterile Supply Management
- INSIGHT Patient Flow Management

Getinge EDS8

Ensures endoscopes are ready when you are

- + **Store eight endoscopes for up to 60 days**
Proven independently to dry and maintain microbial integrity in accordance with EN 16442²
- + **Continuous air circulation**
HEPA filtered air continually circulates through the internal channels of endoscopes and over their exterior surface.
- + **Active monitoring of storage conditions**
The alarm function ensures adequate airflow and the correct environmental conditions are maintained for each individual endoscope.
- + **Horizontal shelving**
Horizontal shelves prevent cross-contamination between endoscopes and from users accessing the cabinet.
- + **Integral traceability of drying and storage function**
The RFID scanner enables the entry of endoscope ID and operator ID for automatic recording and documentation purposes.
- + **Protects against endoscope damage**
Common basket with AER and hands-free door actuation minimizes handling of the endoscope
- + **Efficient management of endoscope inventory**
The user-friendly display provides the name, status and location of all the endoscopes in the cabinet. Prepared for connection to T-DOC EndoTrace and T-DOC 2000 systems, which allow for the management of all endoscopes within the facility.



Vac-a-Scope

Safe storage and transport of flexible endoscopes

Assured safety

The Vac-a-Scope System is designed with patient safety in mind. It preserves scope integrity by removing air – without introducing additional contaminants that could compromise safety or cleanliness.

- Independently type tested to ensure against microbiological growth for up to 30 days³
- A tamper-proof, triple-sealed vacuum bag ensures the integrity of the endoscope until it is opened for use on a patient
- Protects the endoscope during transport between the reprocessing area and procedure room
- Independent monitoring system (IMS) automatically monitors and documents the process

Easy to use

When protecting against cross-contamination, a simple system is best. The Vac-a-Scope System requires minimal training – simply load the vacuum bag with the endoscope in its tray, scan, and go.

- An automated process reduces the risk of user error
- Easy to load and package
- Simple processes reduce staff time, freeing them to focus on other tasks

Ready when needed

The Vac-a-Scope System ensures that high-level disinfected endoscopes are ready when you need them.

- Endoscopes can be stored in a convenient location for immediate access
- Ideal for emergency procedures

Cost effective

Reprocessing clean endoscopes can be costly.⁴ Accurate systems and secure storage can minimize the frequency of unnecessary reprocessing, saving time and money. The system's small footprint fits easily into your department.

- Minimize wear and tear from reprocessing and transport
- Maximize the lifespan of the endoscope
- Reduce consumable costs – no additional chemicals are needed for the Vac-a-Scope System



The moulded tray for long endoscopes secures the scope for storage and transport.

Sterilization of endoscopes

Improving patient outcomes through better practice in infection control



Sterilization for higher margin of safety

Getinge is constantly seeking new processes that improve patient outcomes and overall efficiency. Routine practices are being challenged by new research, and by growing recognition of concerns of infection from flexible endoscopes.

Sterilization provides a higher margin of reprocessing assurance and safety while eliminating all microbial life, including bacterial endospores.

Low temperature sterilization

Low-temperature sterilizers can safely sterilize medical devices in a short amount of time without exposing them to damaging temperatures. Therefore, low-temperature sterilization is a viable post-disinfection process with minimal impact on instrument turnaround.

Getinge Stericool and GSS67F are routinely employed to sterilize endoscopes in CSSDs and endoscopy centers worldwide. Major endoscope brands and governing bodies have long approved use of VH₂O₂ and formaldehyde.

Getinge Stericool

Vaporized hydrogen peroxide (VH₂O₂) and plasma sterilizer range, that is easy to install in any CSSD. It performs with outstanding material compatibility, sterilization efficacy, fast turnaround, and maintains sensible running costs.

Features and benefits

- Three pre-programmed cycles for a broad spectrum of instruments. The patented technology provides high sterilization efficacy via in-situ sterilant concentration.
- Plug-and-play installation with no need for ventilation, water source, or drainage.
- Intuitive HMI interface simplifies the operation of the sterilizer. Program stages and key process parameters are displayed in real time.
- ISO 14937 compliant, validated by an independent, accredited 3rd party lab.
- In-chamber state-of-art RF and additional catalytic converter ensure there is no residual H₂O₂ leakage from the sterilizer.
- Usable chamber volume options of 110 L or 160 L for medium throughput.

Getinge GSS67F

A combination of steam and formaldehyde sterilizers allows great flexibility at a reduced footprint. It delivers high unit efficiency with fast turnaround compared with traditional formaldehyde sterilizers.

Features and benefits

- Fast sterilization cycles compared with traditional formaldehyde sterilizers.
- Two sterilization methods in one product reduces your CSSD footprint.
- Intuitive Centric User-Interface ensures easy operation.
- Increase load capacity with a larger chamber volume and sliding door design.
- Developed and tested in accordance with EN 14180.
- Complete closed system to ensure user safety.
- Allows connection to Getinge online for enhanced uptime.
- Great material compatibility with longer complex multi-channel flexible scopes.



Getinge Services

– Caring for those who care

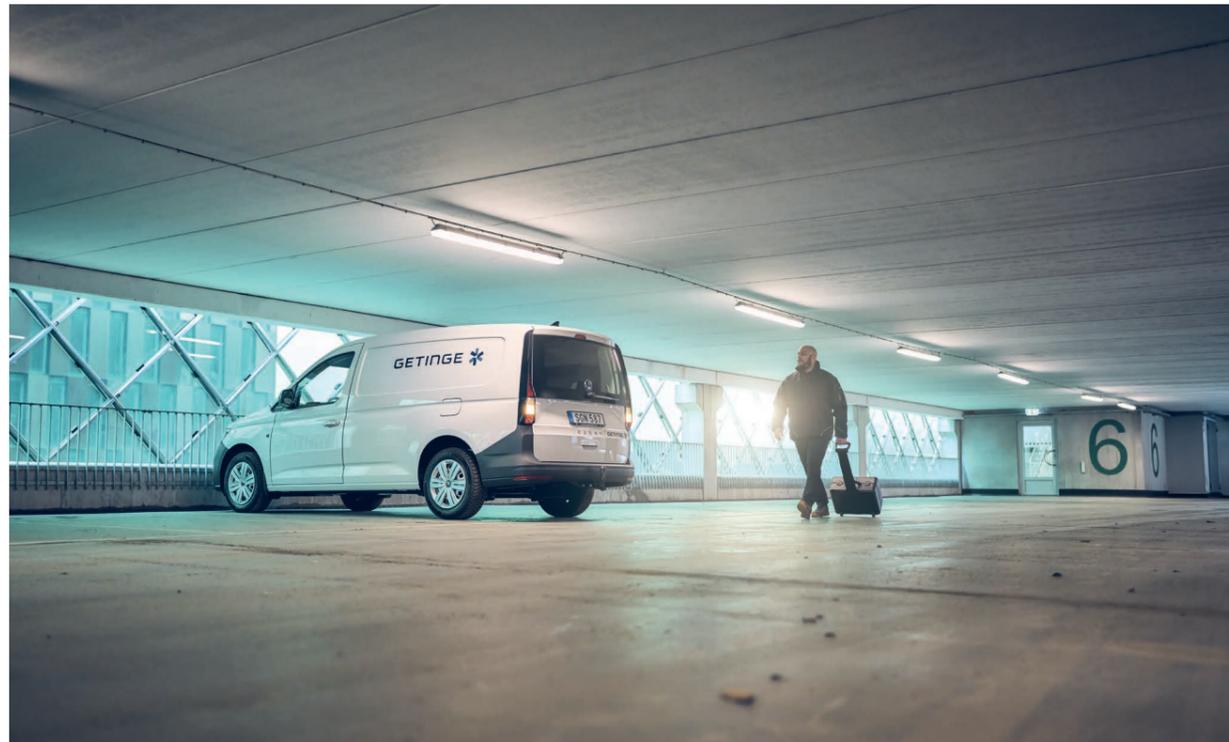
Getinge Services – centered around your specific needs – supporting you to achieve best possible patient care and hospital efficiency

We offer you the ability to combine your service requirements with Getinge and ensure higher quality of care, increased patient safety, equipment uptime, staff satisfaction, and optimized use of resources.

To support you in the best possible way, we offer health-care services from every angle. Through business value creation and financial solutions, to planning and design of workflows, project implementation, staff training, digital

support solutions, and preventive maintenance services for maximum uptime. All coordinated and aligned for your operational and financial goals.

As your service partner, we work together with you to identify both opportunities and challenges to improve care outcomes and optimize your use of resources. Always aiming for stronger and proven value for your hospital.



Hospital Transformational Partnerships

We will work with you to tailor solutions to improve your hospital efficiency, where our mutual agreement includes equipment performance, outcomes and bottom-line value.

Financial Services

Fulfill your hospital needs with innovative payment models, covering everything from standard to advanced solutions that can be tailored to your needs.

Planning and Design

Our team will help you realize your visions. Assessing equipment needs, designing your facility, and applying digital solutions – all customized to support improved outcomes and patient and staff satisfaction.

Project Implementation

We can guide your new installation to success, supporting you through the entire process with services that will keep negative impact to a minimum, ensuring peace of mind for your organization.

Education and Training

Our dedicated team of trainers can develop a training set-up tailored to your needs, ensuring regulatory compliance, best practice, and optimized utilization of equipment.

Digital Services

With our digital services, you will always stay connected. Taking control of smart device data that will help streamline workflows, maximize equipment performance, and improve your department's output.

Technical Services

We offer a complete range of technical services designed to maximize the useful life and long-time value of your investments. Choose from a variety of preventive service plans and rely on our certified technicians to resolve any issue.

References

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2. Ah-Dip, C. 2015. "Compliance certificate of a drying and storage cabinet for thermolabile endoscopes to EN 16442:2015 - EDS8 Getinge-Lancer", Biotech-Germade
3. In alignment with EN 16442:2015
4. A Glimpse at the True Cost of Reprocessing Endoscopes: Results of a Pilot Project. Communique; January / February 2017: 63-78; Ofstead CL, Quick MR, Eiland JE, Adams SJ.



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The products presented may be pending regulatory approvals to be marketed in your country. Contact your Getinge representative for more information.

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