

Getinge HS44 sterilizer  
**for high capacity at point of use**

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# Lights on for the **new generation** sterilizers

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The new Getinge HS44 is one of the new breed of state-of-the-art sterilizers from the world's leading brand in infection control. Sterilizers that further perfect the efficient performance and superior throughput you can always expect from Getinge. You recognize them by their clear, light and charac-

teristic touch-screen panels, easily readable from a distance. As well as by their thought-through and user-friendly design, making them easier to operate than ever.



## Ergonomic and user-friendly

The clear and intuitive interface of the new touch-screen panels is only one of many examples of how we ensure that Getinge sterilizers are easier to operate and more ergonomic. Read more about the new touch-screens on page 6.



## Compact capacity

The new Getinge HS44 effectively sterilizes all kinds of goods for general-purpose hospital use. It's available in two chamber sizes, both with a small footprint that allow it to be placed close to the point of use. Yet it can handle up to 1.5 STU baskets or 2 high SPRI baskets.



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# Your **daily care** is our challenge

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When you face increasing demands to provide quality care while keeping costs down, we provide complete solutions to help you do it. When you need to process more instruments in a shorter time, we develop new innovative products that make it possible. In other words, your challenges are ours.

### **Safety and reliability – from start to finish**

Getinge places great emphasis on safety and reliability, in every respect. Safe, ergonomical operation that poses no hazard to operators. Environmental safety from our ISO 14001-certified manufacturing that minimizes consumption of utilities and resources.

Getinge HS44 is the perfect sterilizer for point-of-use applications, e.g. surgical departments and other healthcare facilities. Getinge HS44 complies with the EN 285 standard.

## Getinge HS44 offers:

- Compact capacity
- Easy installation
- Simple & cost efficiency
- Compliance with the world's toughest standards



# Simple and **cost-effective**

Getinge HS44 is a fast, compact and versatile sterilizer that complies with the very toughest demands on efficacy, efficiency and user-friendliness. It combines high capacity with cost-efficiency, while offering high operating reliability and easy maintenance.



## New generation touch screens

Getinge HS44 features our new generation of user-friendly touch screens with high resolution. The screens offer optimal ergonomics, with a clear overview from all angles in the control area. The user interface and menu are intuitive, the text is remarkably distinct and the graphics are vivid.



## Top quality

The acid-proof stainless steel chambers are robot-welded and enclosed in corrosion-proof aluminum to help assure long and trouble-free operation.



## Simple & cost-effective

Operation is based on five programs plus options. Just select a program, close the door and push the start button. It couldn't be simpler! And the Getinge HS44 is economical, thanks to efficient use of utilities, low maintenance requirements and high throughput – all with minimum floor space requirements. Moreover, its silent operation makes for a good working environment.





## Safety door

The conveniently placed door slides vertically for ergonomic operation, and the self-diagnostic double control interlocking system assures operator safety. Both parts consist of independent controls that monitor each other, eliminating the risk of functional failure – and of escaping steam. Single- or double-door (pass-through) versions are available.

## Two chamber depths

The chamber is available in two depths: 660 mm or 1000 mm. The width and height are 450 mm.

## Convenient access

All maintenance can be performed from the easily accessible front or top in a minimum of time and with a minimum of disruption.

## Short cycle times

Efficient, effective and fully reliable operation that maximizes capacity utilization.

## Easy installation

The only connections required are electricity and water, i.e. Getinge HS44 can even be installed where compressed air is not available. And thanks to its compact size, only a limited amount of space is required.

## Minimum service:

Service time and spare parts requirements for the Getinge HS44 sterilizer have been trimmed to an absolute minimum, primarily because:

- there are few components;
- the sterilizer uses proprietary PACS 3500 software;
- the steam generator is maintenance-free;
- all incoming media pipes are in stainless steel;
- normal service is from the front or top
- built-in reverse osmosis



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# Designed with **environmental** aspects in mind

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At Getinge, we are committed to contribute to a sustainable society. We work purposefully to optimize our use of energy and natural resources, minimize our emissions to air and reduce the environmental impact of our waste management.

The environmental engagement of Getinge does not cease with product delivery, but includes the complete product life cycle. To gain maximum eco-effectiveness, we consider the environmental aspects of the entire life cycle, including stages such as product development, operational factory administration, production processes, distribution, intended use of the product and, finally, scrapping of the product.

## **Main focus: energy efficiency**

Our overriding environmental objective is optimizing energy consumption and thus reducing the impact on the climate.

Thanks to Getinge's design concept, the process times are among the shortest on the market. This means that sterilization of the goods will require less energy consumption.

## **Reduced water consumption**

Avoiding excessive use of water is also important from an environmental perspective. As described on the previous spread, Getinge sterilizers are always designed to minimize the usage of water.

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# PACS 3500

## high precision, yet so simple

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The advanced PACS 3500 PLC meets FDA requirements and is specially developed for Getinge sterilizers and washer-disinfectors. It's designed to handle just about any operation you can imagine in this field – with consistently superior results.

The automatic diagnosis of faults means faster service and lower costs.

### **Assured accuracy**

The PACS 3500 PLC is an extremely user-friendly control unit that assures reliably accurate sterilization programs. There are no high-temperature peaks that waste energy, destroy goods or cause superheated steam that could jeopardize the sterilization. In the event of a temperature drop, an alarm is triggered. Simply put, it's a control system you can rely on.

### **Programs**

PACS 3500 can be equipped with a variety of programs, offering the flexibility of a full range of cycle combinations to satisfy just about every demand. All of these five programs are pre-programmed for instant selection:

- High vacuum for textiles and utensils 121°C
- High vacuum for textiles and utensils 134°C
- Flash
- Bowie Dick test
- Automatic leak test

### **Double safety**

To assure operator safety, we've developed a unique, self-diagnostic, double-control door interlocking system. Both parts consist of independent controls that monitor each other, eliminating the risk of functional failure.

### **Automatic adjustable pressure calibration**

Getinge has also developed a special pressure transducer to assure accurate reproducibility of the sterilization process in spite of ambient pressure fluctuations.

### **User-friendly displays**

The user-friendly PACS 3500 control unit offers a number of convenient features:

- Operator codes for non-validated programs
- Password-protected menu tree

- Fault and information alarms
- Notification of service and maintenance intervals
- Concise and easy-to-grasp information, available in a selection of languages.

### **Supervisor**

The included PACS Supervisor gives you supervision of the sterilization and the sterilizer safety system. The PACS Supervisor is a completely independent monitoring and documentation system that constantly reviews readings from the PACS 3500 and compares them with its own independent sensors. The PACS Supervisor cross-checks the sterilization period of the MDD type-tested cycles according to the limit values of EN285 and triggers an alarm if the limits are not achieved.

The PACS Supervisor prints out all process data on one printer from both the PACS 3500 and its own independent values, either as data/text or as a graph. It is also capable of sending all values to T-DOC – Getinge's external system for electronic recording and documentation.

# Customize your HS44 sterilizer

## Loading- and unloading-side panels



**Classic**  
4.2" graphical LCD display  
Door open/close buttons  
Status LED's



**Avanti (option)**  
8.4" SVGA color display with high brightness.  
Wide viewing angle.  
Built-in long life LED's.  
info:  
• Remaining time  
• Cycle & Phase  
• Temperature(s)  
Graphical Process Presentation:  
• Plot graph  
• Bar graph  
Parameter settings.  
Maintenance & service menus.  
System Configuration.  
Start and Cycle Selection



# Capacity & flexibility

Getinge HS44 sterilizers are available in two sizes. In both, the chamber opening is 450 x 450 mm. In the Getinge HS4406, the chamber is 660 mm deep, and in the Getinge HS4410 the chamber is 1000 mm deep. Both can be used

with just about any standard containers or baskets found on the market – probably including the ones you’re already using. And both sterilizer sizes hold a lot of them!

## Getinge HS4410 load examples:

Most kinds of STU containers, ISO, SPRI or DIN baskets – or combinations thereof – can be loaded into the Getinge HS4410. And with its 1000 mm deep chamber, this sterilizer can be loaded with double stacks of shorter containers.

## Getinge HS4406 load examples:

Takes most kinds of STU containers, ISO, SPRI or DIN baskets – or combinations thereof.



## Alternative 1: extendable shelves/slide-out shelves

- L-rails are mounted on the chamber walls and may be adjusted to accommodate up to three extendable shelves.
- The wire shelves are sturdy and easy to clean.
- Shelves can be pulled out halfway for convenient loading. They are also easy to remove by lifting.

See separate product specification for further details.

# Loading systems to match **your needs**

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## **Alternative 2: Loading trolley and shelf rack**

- The shelf rack (with up to 3 removable shelves) is loaded directly at the point of use.
- Since the shelf rack is already on a loading trolley, it can be taken straight to the sterilizer – and no lifting is needed.

See separate product specification for further details.

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# All equipment you need – **and everything else too**

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## **Architectural Planning:**

Getinge provides you with planning and design of your facility, for optimal workflow with expertise in infection control.



## **Equipment:**

A complete range of washer-disinfectors, sterilizers, loading equipment and system accessories will together provide a total solution for different types of applications.



## **Service and Support:**

Getinge's own service teams constitute complete installation service, technical support and preventive maintenance for maximum uptime. Worldwide network with technicians.



## **Consumables:**

We offer a complete and comprehensive range of consumables, which in combination with our application specialists provide efficient and economical output.



## **Education:**

Getinge Academy provides service training, application training, and technician training upon customer demand, held either at one of the Getinge Academy facilities or at customer sites.



## **Traceability:**

Getinge's T-DOC software is a highly sophisticated and user-friendly documentation system, offering full instrument traceability and asset management for the healthcare sector.

# Technical data

## Sterilizer model

	Units	HS4406-1	HS4406-2	HS4410-1	HS4410-2
Chamber volume	L	137	137	206	206
Chamber depth	mm	660	660	1000	1000
Chamber width	mm	450	450	450	450
Chamber height	mm	450	450	450	450
Capacity Baskets*	pcs	2	2	2	2
Capacity STU**	pcs	1,5	1,5	2,5	2,5

The table shows single-door (-1) and double-door (-2) versions.

\* Basket size (SPRi/ISO): 585x395x195/600x400x200 mm (LxWxH)

\*\* Basket/container size (STU): 600x300x300 mm (LxWxH). Smaller modules are available.

Getinge HS44 sterilizers are designed to comply with the following requirements and standards:

## Getinge HS44 sterilizer

Medical Device Directive	93/42/EEC as amended by directive 2007/47/EC
Machinery Directive	2006/42/EC
Low Voltage Directive	2006/95/EC
EMC Directive	2004/108/EC
Pressure Equipment Directive	97/23/EC
Safety: Particular requirements for steam sterilizers treating medical materials or in laboratory use.	IEC 61010-2-040:2005
Sterilization – Steam sterilizers – Large sterilizers	EN285:2006 + A2:2009
Quality Management System Requirements	EN - ISO 9001:2008
Medical Devices – Quality management systems – Requirements for regulatory purposes	ISO 13485:2003
Environmental Management Systems – Requirements with guidance for use	ISO 14001:2004

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**GETINGE GROUP**

Getinge Group is a leading global provider of products and systems that contribute to quality enhancement and cost efficiency within healthcare and life sciences. We operate under the three brands of ArjoHuntleigh, Getinge and Maquet. ArjoHuntleigh focuses on patient mobility and wound management solutions. Getinge provides solutions for infection control within healthcare and contamination prevention within life sciences. Maquet specializes in solutions, therapies and products for surgical interventions, interventional cardiology and intensive care.

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