

PHILIPS

Image Guided Therapy

Mobile C-arm System
9000

Zenition 90 Motorized

Unlimited potential
at your fingertips



Introducing Philips Image Guided Therapy Mobile C-arm System 9000 – Zenition 90 Motorized

During complex procedures, it is vital to be able to rely fully on surgical imaging systems. As surgeons navigate their way through challenging vasculature, the priority is to quickly visualize small vessel details while limiting contrast use and X-ray dose – all with the goal of achieving the best possible outcome for their patients.



Outstanding user experience



Increase OR performance



Enhance clinical capabilities over time

Built on the foundations of the Zenition platform's industry-defining ease of use and workflow efficiency, the Philips Image Guided Therapy Mobile C-arm System 9000 – Zenition 90 Motorized is designed to meet complex vascular needs, but also a range of clinical procedures including cardiac interventions, endoscopy, orthopedics, urology, and pain management.

Motorized and impressively fast, this intuitive C-arm efficiently delivers state-of-the-art image quality for the most challenging procedures at efficient dose levels. The system allows for automated workflows with its versatile motion, image controls and advanced software solutions, and can be controlled from sterile areas in the OR – for greater flexibility and independence.

Key benefits at a glance

Give surgeons greater control

Intuitive motorization allows for greater control from the table-side, reducing dependence on OR technologists. Position the C-arm with minimal effort and fast motor speed, and control the motion from sterile and non-sterile areas in the OR.

Perform complex and extended procedures

Perform a variety of procedures with steep angles and lateral projections, with 25 kW or 15 kW power – delivering excellent image quality. Alongside this, the improved heat management allows for extended procedure times.

Personalize image acquisition

Image a variety of procedures and patients with application-specific protocols and customizable presets offered by Personalized IQ. One click applies the required image quality parameters providing an appropriate X-ray dose, according to the ALARA principle.

Control contrast injections at the table-side

Gain greater control and independence through the ability to adjust and start contrast injections from both sterile and non-sterile areas, and experience first-time-right imaging with delay X-ray capabilities.

Outline vascular edges with a single click

Rapidly outline vascular edges using the Automatic Vascular Outlining tool with a single click of a button from anywhere in the OR without impacting sterility – for greater efficiency and independence.

Efficiently return the C-arm to previous stored positions

Quickly and accurately return the C-arm to pre-saved positions at the press of a button, using Automatic Position Control – helping save time and effort during procedures.

Remote connectivity

Philips Remote Services increase system uptime with faster issue diagnosis and resolution, with Wi-Fi enabled by default. Benefit from a low-maintenance design based on Philips' 65+ years of experience.







90% of users
believe motorized
movement could help save
time during procedures¹

Outstanding user experience



At Philips, we focus on the specific needs and challenges of our customers. That is why we have designed the Zenition 90 Motorized to deliver intuitive usability for smoother workflows, with flexible motion and image controls that allow surgeons to control the system efficiently and effectively from different areas in the OR.

Independence in the OR

Gain flexibility and independence by controlling the C-arm's motion via the **Table Side Operator**. Operate the fast and smooth 4-axes motorization from the table-side, avoiding sterility breaks. Activate the angulation and rotation movements with a single joystick, for optimal control at variable speeds of up to 15 degrees per second.

The interface is equipped with illuminated icons and buttons that are easily distinguishable, enabling smooth, straightforward operation with a one-button-one-function control. And connect a second Table Side Operator simultaneously to manage the movements from two separate locations in the OR.

The **Touch Screen Module** provides a user-friendly experience with a familiar tablet-like interface. This results in hassle-free communications and greater control, with the ability to easily handle the C-arm image functions directly from the table-side. Adjust image parameters, collimate, rotate and swipe through images – all with a fingertip.

The **Pedestal Trolley** allows for further OR workflow optimization. With the imaging and motion control attached to the trolley, the result is an effective mobile control station.

Smooth unlocking of brakes

Reduce the manual effort needed to lock and unlock C-arm movements with **Electromagnetic brakes** by simply pressing the buttons provided on either side of the C-arm stand. Easily switch from motorized to manual mode by pressing a single button.

Personalize the system

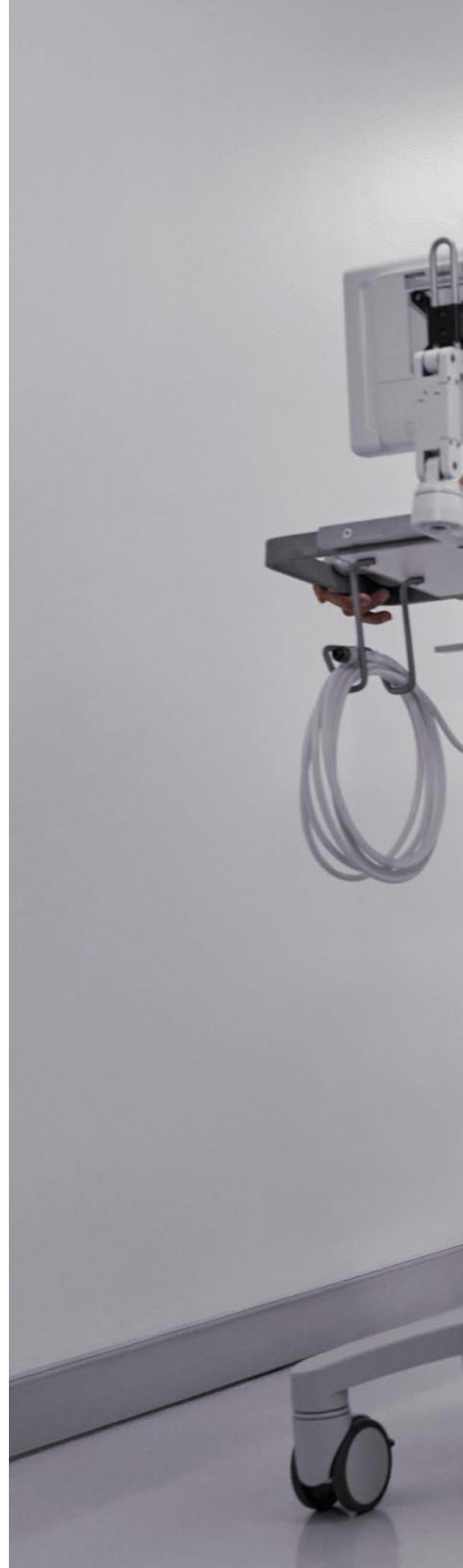
Experience first-time-right imaging with a system that can be adapted to specific user needs. The **Personalized IQ** feature offers application-specific protocols and customizable presets that enable users to optimize and standardize the system setup for various procedures and patients. Streamline its use by creating a unique **User Profile** with personal preferences for imaging and general parameters, including a Personalized IQ choice.

Every time a user logs in, there is a seamless user experience. The system will automatically adjust to the personalized settings, eliminating the need for adjustments during procedures – and saving valuable time.

Easy collaboration

Smooth, efficient coordination is crucial during procedures. Zenition 90 Motorized offers a range of technical features that help minimize distractions, so that surgeons can focus fully on their patients. If using the system in manual mode, the **Unify Workflow** reduces miscommunication thanks to features such as Position Memory (which allows the C-arm to accurately be returned to pre-saved positions by recalling them on the screen), ClearGuide (which provides a set of reference numbers on clinical images that match with numbers on the detector) and Color Coding (a visual aid relating to system movement). This system's user-centric approach is further elevated by the convenient controls for operators of all experience levels, with a **uniform design**. With standardized yet customizable operation, users quickly feel comfortable using the system.

96% of physicians believe the Table Side Operator and Touch Screen Module could help accelerate procedures²





Increase OR performance



Whether your team is performing a routine surgery or complex intervention, it is vital to achieve a smooth workflow that surgeons can easily control, so that attention can turn to the procedure and patient at hand.

The Zenition 90 Motorized is specifically engineered to enhance operational performance in the OR. It offers user-friendly controls, time-saving features, and a resilient platform designed for continuous high performance.

Safe and accurate motion

The smooth motorization of the Zenition 90 Motorized brings greater control and independence, while the **BodyGuard** collision prevention system allows users to take full advantage of its fast speed. BodyGuard, with its sensors placed inside the C-arm detector, senses the patient's body at a distance – preventing unintentional contact. As a result, the C-arm can be moved with confidence, while maintaining patient safety.

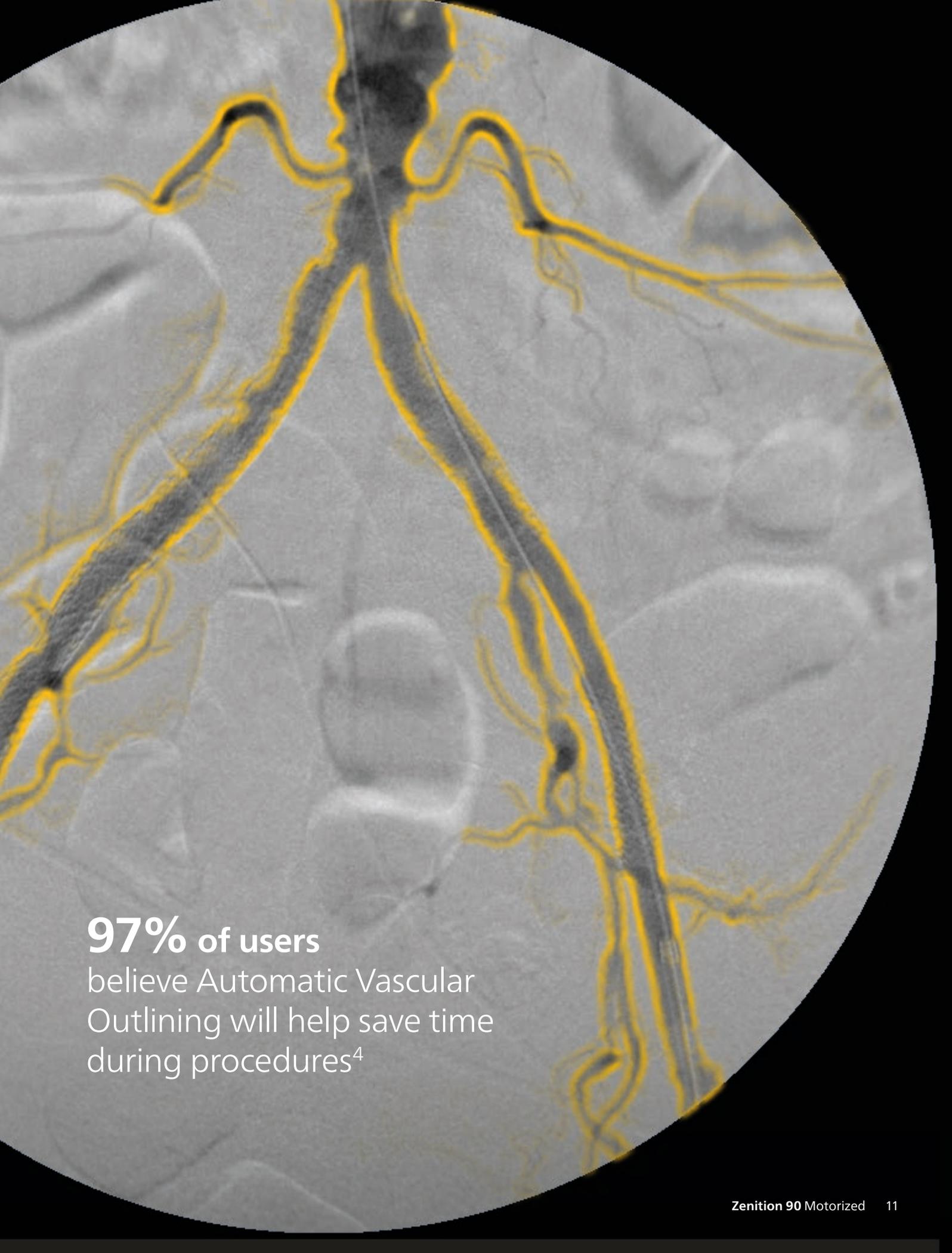
In cases where the C-arm needs to be re-positioned multiple times, simplify the workflow and improve time efficiency using the **Automatic Position Control** feature. Activate it directly from the Table Side Operator to return to any of the three pre-saved positions accurately and quickly at the press of a button.

Increased control and efficiency with automated workflows

The **Injector Interface** enables users to start and adjust contrast injections (in relation to X-ray acquisition) from the Touch Screen Module at the table-side – or from other areas of the OR, if attached to the Pedestal Trolley. This interface can be combined with the standard **Timer** feature to further enhance overall usability.

After contrast injection, quickly outline vascular edges by activating the **Automatic Vascular Outlining** tool on the subtraction image from anywhere in the OR. This helps save time and may reduce the amount of contrast agent required, while further enhancing independence.

97% of users
believe the injector interface
will give surgeons greater
control over procedures³



97% of users
believe Automatic Vascular
Outlining will help save time
during procedures⁴

Ensure high productivity over time

Experience a fast learning curve with the Zenition 90 Motorized, with intuitive controls, on-screen tips, digital user guides and clinical education solutions designed to help reduce training time and costs. Our newly designed e-learning modules offer the possibility of learning on different devices, at home or at work.

Zenition 90 Motorized also accommodates new software options to extend the system's clinical relevance, thanks to its **Windows® platform**.

It supports compliance with the latest security standards and encryption to protect patient data and prevent malware attacks which can affect service delivery, thereby enhancing uptime and cybersecurity.

The system's low-maintenance design leverages Philips' 65+ years of experience. Philips Remote Services provide remote connectivity for faster issue diagnosis and resolution – helping maintain high uptime. With Philips' technical experts able to log in remotely and assist from a distance, on-site visits and disruption are kept to a minimum. Additionally, Wi-Fi is enabled by default, enabling easy data transfer to help reduce cable clutter and eliminate unnecessary steps in the workflow.

Further reduce the resources you spend on service activities with **Healthcare Operational Services***, a broad portfolio of eight multi-tier service agreements tailored to needs and goals. Choose from a diverse range of direct support options, where you effectively rely on Philips, or tiered support, where in-house capabilities are complemented by Philips support and expertise.





Enhance clinical capabilities over time



With increasing patient volumes and complex procedures, maintaining high standards of quality and safety in healthcare is crucial. The Zenition 90 Motorized empowers medical teams to confidently perform a wide range of interventions while effectively managing radiation dose. It offers personalized image quality settings and the necessary power to meet the clinical demands of today and tomorrow.

High power and endurance

Perform a variety of procedures with steep angles and lateral projections, with **25 kW or 15 kW power**, and achieve excellent image quality. Active oil circulation and improved heat management boost the system's performance even further, allowing for longer fluoroscopy and extended procedure times to better support demanding procedures.

Excellent image quality at efficient dose levels

Benefit from Philips' premium imaging technologies and advanced image processing, to visualize complex structures and dense anatomy with exceptional clarity. The Flat Detector technology (**30x30 cm** for improved anatomical coverage, or **21x21 cm** for positioning flexibility) delivers distortion-free images at low dose, with a solution that combines the radiation management features of our comprehensive DoseWise tools with training and integrated product technologies.

Our **MetalSmart** and **BodySmart** software tools further support efforts to achieve first-time-right imaging and dose efficiency. MetalSmart, our automatic metal exclusion software, excludes metal from the measuring field and adjusts exposure parameters – for example, during orthopedic and other procedures, or when treating patients with metal implants – to deliver excellent-quality images with optimal anatomical contrast at reduced doses. BodySmart, meanwhile, automatically adapts the measuring field to the area of interest.







Optimized workflows for pediatric patients

Optimized pediatric imaging presets help ensure high-quality images at low doses. The pediatric mode further optimizes the imaging workflow as it includes user alerts to remove the detector anti-scatter X-ray grid. This intuitive feature enhances your clinical capabilities while improving the safety of pediatric patients.

Extend your system's clinical relevance

Efficiently handle future upgrades with the **Technology Maximizer** program. Operating alongside your Philips service agreement, this hardware and software refresh program keeps your system in state-of-the-art condition throughout the term of the agreement. For a reasonable, predictable fee, it combines clinical, financial, and operational security into a single package.

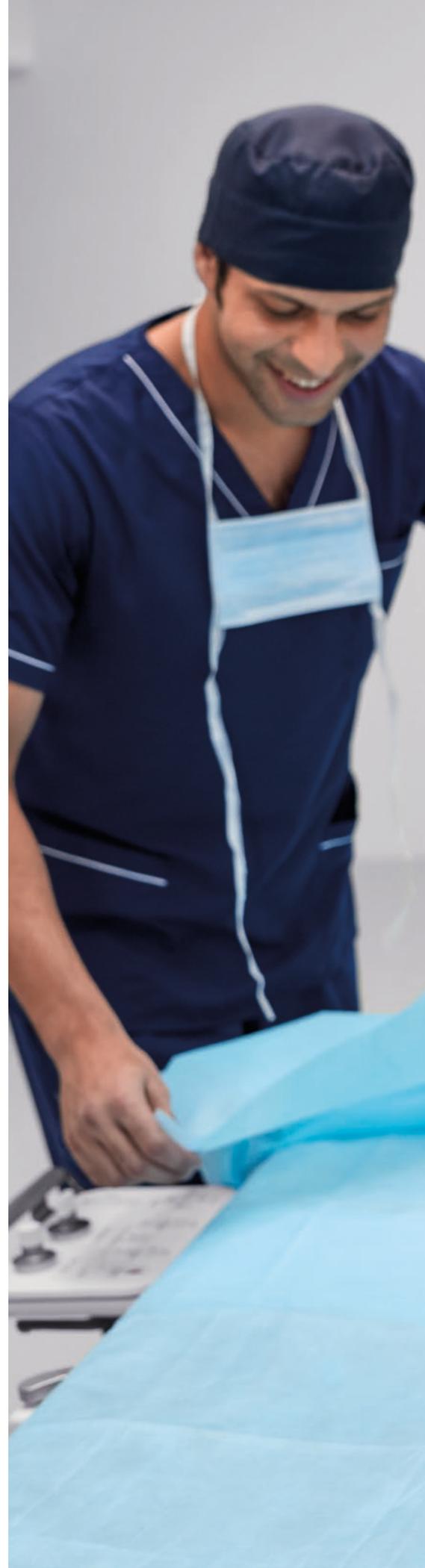
84% of users
believe the pediatric
mode could enhance
confidence when treating
pediatric patients⁵

Embracing sustainability

When you choose Philips, you are choosing a partner committed to meeting sustainability and circular economy ambitions. We aim to grow Philips responsibly and sustainably, and therefore continuously set ourselves challenging environmental and social targets and living up to the highest standards of governance. As a leading health technology company, our purpose is to improve people's health and well-being through meaningful innovation, positively impacting 2.5 billion lives per year by 2030.

Zenition 90 Motorized is the result of our EcoDesign process and offers significant environmental improvements:

-  **Product durability** increased by **25%**⁶
-  **Energy use** reduced by **12%**⁷
-  **Parts recovery** during servicing, with recycling passport available to ensure high-quality disassembly and recycling
-  Zenition 90 Motorized is manufactured at a **site certified** for Environmental Management (ISO14001), Occupational Health and Safety (ISO45001)







- ¹ Results obtained during claims substantiation study performed in June 2022 and May 2023 by Use-Lab GmbH, an independent company. Response is based on 50 clinicians from the EU and the US, who answered a questionnaire after a usability study with additional hands-on time with the system.
 - ² Results obtained during claims substantiation study performed in June 2022 and May 2023 by Use-Lab GmbH, an independent company. Response is based on 25 physicians from the EU and the US, who answered a questionnaire after a usability study with additional hands-on time with the system.
 - ³ Results obtained during claims substantiation study performed in June 2022 and May 2023 by Use-Lab GmbH, an independent company. Response is based on 44 clinicians from the EU and the US, who answered a questionnaire after a usability study with additional hands-on time with the system.
 - ⁴ Results obtained during claims substantiation study performed in June 2022 and May 2023 by Use-Lab GmbH, an independent company. Response is based on 49 clinicians from the EU and the US, who answered a questionnaire after a usability study with additional hands-on time with the system.
 - ⁵ Results obtained during claims substantiation study performed in February and September 2022 by Use-Lab GmbH, an independent company. Response is based on 37 clinicians from the EU and the US, who answered a questionnaire after a usability study with additional hands-on time with a Philips mobile X-ray system.
 - ⁶ Designed for 4000 additional procedures compared to predecessor Zenition 70, based on lab testing.
 - ⁷ Compared to predecessor Zenition 70, based on a comparable average use scenario of 4 examinations/day.
- The X-ray dose reductions refer to specific features and will vary depending on the dose parameters selected.
 - Some clinical images shown are from Zenition 70 and Veradius Unity and do not represent the final image quality of the Zenition 90 Motorized
 - Zenition 90 Motorized systems are available for sale in a limited number of countries. Please check with your local Philips representative.
 - Some features shown are optional for Zenition 90 Motorized.
 - Actual product representation may vary.
 - Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.
 - Contact your Philips representative for most current information