The flexible yet affordable compact linear accelerator solution

Elekta Compact™
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Making high quality radiotherapy accessible to everyone

For decades, Elekta has been providing a full range of state-of-the-art linac solutions to oncology centers around the world. Leading the way in the development of precision radiation products, service, support and training, Elekta’s solutions help more and more centers gain the confidence to move towards advanced radiation treatment techniques.

Elekta Compact is a dependable, high-throughput system for busy treatment centers. It is simple to operate, robust and reliable—allowing more patients to be treated quickly and effectively. Its modular design enables new functions and features to be added easily, making it a sound standalone investment for today and a solid foundation to build on for the future.

Working alongside more advanced linear accelerators, Elekta Compact takes the workload of more conventional cases and allows the others to focus on more advanced treatment techniques.

Why Elekta Compact?

- Clinically developed solution with planning, imaging, delivery and information management
- Clinically effective over a wide range of radiation treatment techniques
- Robust and reliable for maximum clinical uptime and high patient throughput
- Developed using well established, proven and modern technology
- Simple, user-friendly interface for easy operation
- Fully upgradeable to support advanced treatment protocols
- Ideal as an alternative or replacement to Cobalt systems

Workflow with Elekta Compact

- Diagnostic imaging for planning
- Initial patient set-up
- Image review and analysis
- Portal imaging with iViewC™
- Treatment planning with Monaco®
- Patient re-positioning if needed
- Elekta’s MOSAIQ® for information management
- Treatment delivery
Core Technology

Elekta Compact is designed specifically to ensure accurate dose placement with minimal radiation to surrounding tissues. Each component within the linac supports this so your patients can receive the most accurate treatment.

Confidence for accurate treatment delivery
Elekta Compact provides single-energy 6MV radiation and is capable of delivering a range of treatments from simple to complex—including IMRT. The independent diaphragm x-ray head provides a full 360° rotation, large 40 cm x 40 cm field size and x-ray beam blocking capability. When this is dedicated for a specific patient, it can provide the required security and flexibility to block parts of the beam to shield critical structures.

Designed for patient comfort
The elegant design of Elekta Compact, with exceptionally wide clearance, low isocenter and near-silent operation, provides a reassuring environment for patients. It enables unrestricted access to allow easier patient setup and sufficient equipment clearance to facilitate a wide range of gantry positions. This provides the flexibility and spatial requirements that are essential to support the use of advanced non-coplanar beam techniques for effective intensity modulated radiation treatments (IMRT).

Streamlined workflows
The Elekta Compact user interface enables easy entry for patient prescription and treatment delivery. With its seamless data transfer to MOSAIC®, the verify and record capability will capture delivered parameters once completed. The easy patient setup, simple operation and effective dose delivery support smooth and efficient workflows.

Rapid and accurate patient setup
Elekta Compact is available with Elekta’s Precise Table as standard. The ergonomic design of Precise Table allows fast and accurate patient positioning—ideal for modern treatment techniques requiring a high degree of precision in patient setup. The low minimum height of Precise Table provides easier access for patients and the quiet, smooth movement of the table ensures optimal patient comfort.

With relative zero capability, precise and uncomplicated table shifts from planning reference points are easy to do—especially with simple control panels on either side of the table for easy access, optimal view of the patient and full control of table movements during setup. A handheld controller is available for simultaneous gantry and table movements.
Imaging

Precision and speed in patient setup and repositioning
Precise positioning of the patient is vitally important to ensure accurate dose delivery and minimal radiation of surrounding tissues. A choice of imaging solutions allows quick and cost-effective patient positioning to enable accurate treatment and valuable workflow efficiencies.

Accurate patient position verification
iViewC™ is the optional 2D MV imaging solution designed specifically for Elekta Compact. It is easy to use and cost effective—but not at the expense of quality. Based on the world-renowned iView GT™ image evaluation software, iViewC harnesses high quality, real-time images for accurate patient position verification at an affordable price.

Excellent digital imaging
Using 16-bit CCD imaging technology combined with digital evaluation tools, iViewC allows accurate patient re-positioning for confident reduction of margins and optimal treatment delivery. The large field of view (26 cm x 26 cm) enables meaningful images the first time, with the imaging dose calculated as part of the treatment dose.

MLCi2™

Accurate delivery for advanced radiation therapy
Conformal treatment delivery is essential to minimize dose outside of the target volume. With the MLCi2™ advanced multileaf collimator, the radiation beam can be shaped quickly and accurately to the target volume, to enhance patient care.

Improved dose conformance
MLCi2 is an optional beam shaping solution to provide more accurate delivery to the target with minimal damage to surrounding structures. With its easy integration, MLCi2 maintains the system’s unrivalled patient clearance, which gives greater flexibility in setup and delivery of different techniques.

Protecting critical structures
The active leakage reduction mechanism in MLCi2 uses the diaphragms to automatically track the trailing leaf—minimizing interleaf transmission. This feature plays a valuable role in reducing integral dose to the patient, minimizing potential treatment side effects.

Faster patient throughput
The integrated MLCi2 provides highly efficient workflows. With a continuous field size there is no need for split fields when large field sizes are required. The collimator’s efficiency is enhanced through its fast leaf speed and accuracy in leaf positioning for all treatment delivery techniques.
Software options to suit your clinic

Elekta Compact is available as a complete solution for clinics—with a range of software options to support treatment planning and oncology information management. Software options are available in entry-level formats, which are easily upgradeable to the full capabilities of more advanced parent packages.

Monaco®

Treatment planning solution for personalized patient care
Monaco allows clinicians to choose from a broad suite of planning tools and a range of robust dose calculation algorithms to optimize radiation treatment delivery for individual patients.

Patient contouring
Enhanced visualization capabilities enable automated delineation and modification of targets and critical planning structures.

Plan review
Compare multiple candidate plans to quantify and evaluate dose coverage trade-offs and ensure the best course of treatment for each patient.

Automated image fusion
Advanced image registration and fusion tools leverage all available diagnostic imaging modalities for rapid and reliable automated fusion.

Virtual simulation
Advanced visualization tools and fully integrated CT simulation allow increased staff efficiency, planning accuracy and patient convenience.

Conformal treatment planning
Customizable templates support efficient plan generation for conformal and IMRT treatment planning capabilities.

DICOM RT connectivity
Provides timely and efficient access to image sets and patient data with easy treatment plan export to all major delivery devices.

MOSAIQ®

Oncology information management supports every stage of the workflow
MOSAIQ, Elekta’s dedicated electronic OIS, streamlines the entire therapy workflow—from initial diagnosis and staging through planning, treatment and follow-up—to maximize efficiency and minimize patient queues.

Patient administration
Manage the complete radiation therapy patient workflow—from first patient consultation to treatment and follow-up, every step in the patient journey is recorded, verified, documented, scheduled, reported and analyzed.

Evaluation and diagnosis
Import pathology reports, imaging studies and lab reports, in addition to documenting diagnosis and staging information.

Workflow management
The scheduling system centralizes department scheduling by allowing users to enter and view scheduled activities by patient, staff, location or department.

Independent treatment verification
Report automatically on gantry, collimator, table, console and MLC on appropriately equipped treatment units—for confident system setup.

Reporting and analysis
A suite of clinical and administrative reports enable smooth cancer center management.
Expanding Clinical Practice

Elekta offers a wide portfolio of accessories and support to allow radiation treatment centers to expand their clinical practice.

**Beam shaping**
Elekta provides excellent beam-shaping capabilities across the range of delivery techniques to support low integral dose to the patient.

**Image guided radiotherapy**
Elekta offers a choice of IGRT options allowing the freedom to use the best imaging modality for each patient and clinic.

**Patient positioning and immobilization**
Elekta has a comprehensive range of patient positioning and immobilization solutions that emphasize patient comfort, accuracy, reproducibility and optimal treatment set up for head and body.

**Improving financial performance**
Elekta offers flexible financing options and helps to increase the efficiency of planning and administration, to boost revenues and lower cost per patient.

**Smoothing patient flow**
Elekta services are fine-tuned to reduce unplanned stops, to avoid clinical interruptions, deliver consistent treatment quality and enable more treatments per day.

**Improving clinical effectiveness**
Elekta helps clinics make the most of the latest technology, clinical developments, modular upgrades, enhancements and accessories.

**Ensuring staff competence**
Elekta offers full clinical training in collaboration with leading international hospitals, local training and education programs at centers throughout the world—including Asia—and comprehensive on-site application training to ensure complete confidence in clinical practice.

**Elekta IntelliMax™**
IntelliMax offers unparalleled connectivity and serviceability, facilitating unprecedented remote support capabilities to ensure optimized equipment availability and fine-tuned clinical performance.
Elekta Care™ is designed to help you maximize the use of your Elekta technology, so you can focus on your patients and your practice.

Elekta Care supports you from startup through your product’s lifecycle with comprehensive options from education, training and upgrades to solutions allowing you the highest uptime and improved operational efficiency.

elekta.com/elektacare
For almost five decades, Elekta has been a leader in precision radiation medicine.

Our nearly 4,000 employees worldwide are committed to ensuring everyone in the world with cancer has access to—and benefits from—more precise, personalized radiotherapy treatments.