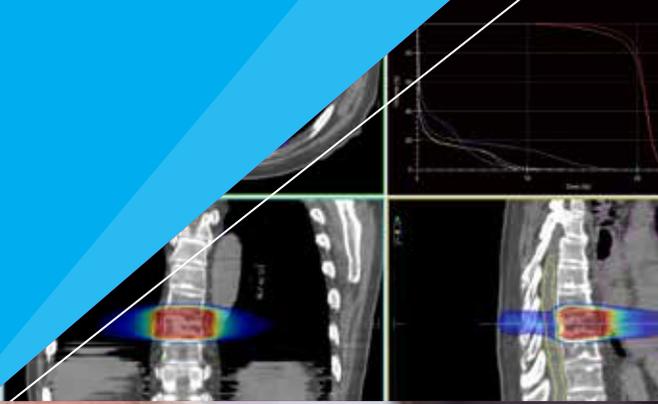




Agility™

Intelligent beam shaping



Intelligent conformance
that is truly multifunctional

Intelligent beam shaping

Agility is the next generation, high resolution beam shaping solution from Elekta. Built on a strong understanding of the factors that are critical to patient plan optimization and treatment delivery, Agility is designed to meet the needs of modern radiotherapy facilities.

Agility offers excellent clinical flexibility and efficiency, while ensuring that patient safety and comfort remain a priority.

- 40 x 40 cm field size
- 160 interdigitating leaves with 5 mm width at isocenter
- Integrated digital control of leaves and dynamic leaf guides
- Accurate leaf positioning with Rubicon optical technology
- Rapid leaf speed
- Extremely low leaf transmission (<0.5%)
- 45 cm isocentric clearance

Why Agility™?

- Expand your treatment capabilities
- Improve return on investment
- Enhance treatment delivery
- Reduce integral dose
- Achieve accurate and reliable beam shaping



“[An] important feature of this new MLC design is the high speed of the collimating elements, where the use of integrated dynamic leaf guides can increase the effective leaf speed up to 65 mm/s.”

Cosgrove et al (2009)¹

Can you treat everything you want to?

Agility is ideal for the treatment of large or small field shapes and for the delivery of static or dynamic treatment plans for conventional or stereotactic techniques. You can even deliver off-center, non-coplanar treatment plans.

Agility offers high resolution beam shaping, including interdigitation, across the 40 x 40 cm field size. Synchronized intelligent dynamic leaf guide movement and individual leaf movement achieves enhanced leaf speed and removes the need for a split field for seamless delivery of each prescribed beam shape. These features combined with a market-leading 45 cm isocentric clearance ensure that your linac is truly multi-functional.

Are you happy with your **patient throughput?**

The high leaf and diaphragm speed provided by Agility increases the speed of delivery and allows higher dose rates to be used for more effective modulation. Not only does this help to improve plan quality, but it also shortens treatment times considerably. Shorter treatment times mean that more patients can be treated in a working day.

Are you confident that **your patient is receiving the treatment you planned?**

The robust and reliable rubicon optical positioning system provides valuable real-time assurance of accurate leaf positioning.

Agility's Rubicon optical technology offers advanced real-time leaf monitoring and positioning. Ultraviolet light from an LED source produces infrared fluorescence when it falls on the ruby tips of the multileaf collimator leaves. This infrared fluorescence, detected by an infrared camera, is used to reliably monitor and accurately position the leaves and can be viewed in real-time on the linear accelerator's display screen.

In addition, Integrity™, the fully integrated Elekta digital control system, provides:

- Continuous monitoring and control throughout treatment for confidence in beam shaping and treatment delivery
- Verification that the field being delivered matches the prescribed treatment parameters
- Inherent safety features that supervise and check that all systems are operating correctly

Are you concerned about **unwanted dose to the patient?**

Agility has exceptionally low leaf transmission of less than 0.5% across the entire field¹.

This is important for a number of reasons:

- It reduces unwanted dose to organs at risk and healthy tissue
- Low integral dose reduces the risk of inducing secondary tumors
- It reduces off axis dose when performing off-axis beam shaping
- It improves treatment plan quality

“The transmission and penumbra measurements indicate a significant improvement on the published data for comparable equipment. In particular, leaf transmission is extremely low, less than 0.5%.”

Cosgrove et al (2009)¹



Elekta Care™

Integrated service for better patient care
Elekta Oncology solutions will not be complete without Elekta Care, our integrated service and support package. With Elekta Care our service teams work together to help you make a real difference in patient care. With Elekta Care, customers benefit from:

- 📅 **ONE SERVICE AGREEMENT**
- ☎️ **ONE PHONE NUMBER**
- 👤 **ONE POINT OF CONTACT**

Elekta Care helps users of Elekta solutions access the appropriate Elekta representative faster and more easily. The goal of Elekta Care is to increase customer satisfaction and improve the patient experience by shortening care waiting times, transforming care routines and simplifying workflows.



- 🔗 **Technical Service**
- 🔗 **Software Support**
- 🔗 **Application Support**

ABOUT ELEKTA

Elekta's purpose is to invent and develop effective solutions for the treatment of cancer and brain disorders. Our goal is to help our customers deliver the best care for every patient. Our oncology and neurosurgery tools and treatment planning systems are used in more than 6,000 hospitals worldwide. They help treat over 100,000 patients every day. The company was founded in 1974 by Professor Lars Leksell, a physician. Today, with its headquarters in Stockholm, Sweden, Elekta employs around 4,000 people in more than 30 offices across 24 countries. The company is listed on NASDAQ OMX Stockholm.

REFERENCES

- [1] Cosgrove, VP, Thompson, C, Chrisophides, D et al. (2009) Physical characterization of a new concept design of an Elekta Radiation Head with integrated 160-leaf multi-leaf collimator. Poster presented at ASTRO 2009.



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