

Designed for Next-Generation Proton Therapy in a Smaller Footprint

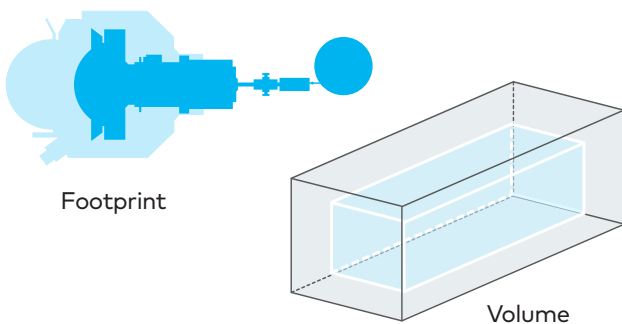
Introducing the new ProBeam® 360° Proton Therapy System, designed for next-generation proton therapy. The ProBeam 360° system offers uncompromised clinical capabilities with ultra-high dose rates, a 360-degree gantry, and exceptional precision, all within a 30% smaller footprint.

Uncompromised Proton Therapy is Now More Accessible

Proton therapy plays an increasingly important role in the fight against cancer, and the new ProBeam 360° system is designed not only for today's most complex treatment techniques, but also to enable next-generation proton therapy.

The ProBeam 360° system offers uncompromised proton therapy with:

- 50% smaller volume
- 30% smaller footprint
- 25% lower vault construction cost



High and Ultra-High Dose Rates

The evolution of radiotherapy has pushed dose rates higher, and proton therapy is now leading this trend. The ProBeam 360° system features the most powerful particle accelerator available to treat cancer.

High dose rates are used today to reduce treatment time, manage motion, and can improve treatment plan quality and conformity. We expect next-generation proton therapy to employ even higher and ultra-high dose rates.

RapidScan™ Technology: Fast Dose Delivery in <5 Seconds per Field¹

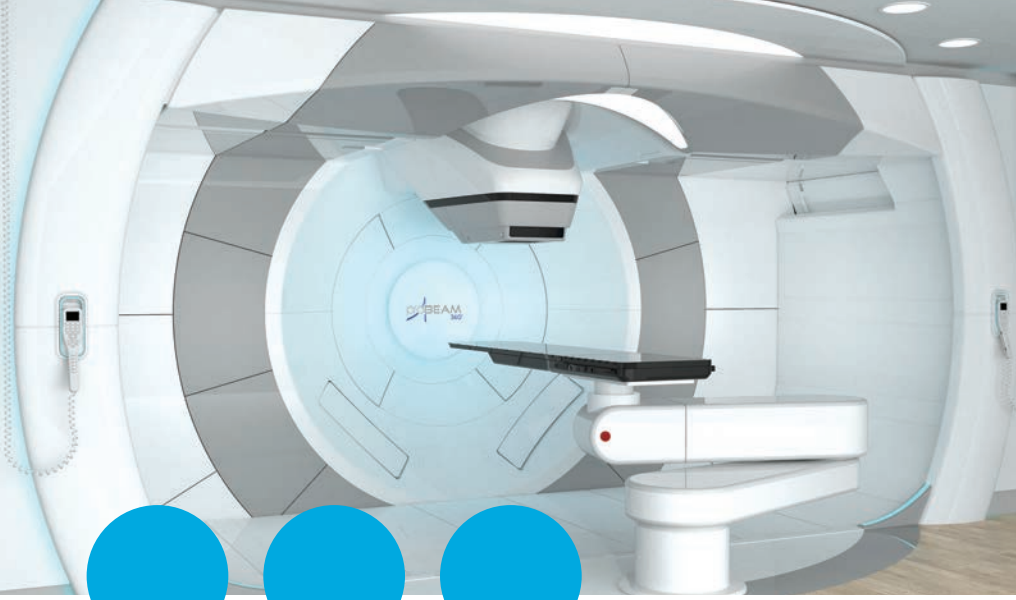
RapidScan revolutionizes motion mitigation, delivering each field within a single breath-hold for most patients. RapidScan, when used in conjunction with the Eclipse™ treatment planning system, simultaneously optimizes treatment plan quality and delivery time.

The ProBeam 360° system with RapidScan:

- Simplifies conventional procedures required to treat moving targets
- Increases the number of patients who can comply with breath-hold treatments
- Reduces treatment time without sacrificing quality

30% smaller footprint
50% smaller volume





Deliver Highly Conformal Plans More Efficiently with a 360-degree Gantry

Higher conformity can be achieved by using more fields² and multi-field and non-coplanar treatments are becoming more common. Therefore, a 360-degree gantry becomes increasingly important for adaptive therapy, proton SBRT, and next-generation therapies such as proton arc and ultra-high dose rate treatments.

Varian's 360-degree gantry enables:

- Faster treatment times by minimizing repositioning and reimaging
- High-quality cone beam CT (CBCT) from almost any gantry angle
- Efficiency even with an increased number of fields for next-generation treatments

CE Mark & intl. registration pending. Not all products or features available for sale in all markets.

¹ Targets <5 cm in diameter, with standard fractionated dose and beam arrangement.

² Frank, Steven J. et al. "Multi-Field Optimization Intensity-Modulated Proton Therapy for Head and Neck Tumors – A Translation to Practice." International journal of radiation oncology, biology, physics 89.4 (2014): 846–853. PMC. Web. 9 Oct. 2018.

Intended Use Summary

ProBeam® 360° Proton Therapy System provides protons for precision radiotherapy of lesions, tumors, and conditions anywhere in the body where radiation treatment is indicated.

Important Safety Information

Radiation treatments may cause side effects that can vary depending on the part of the body being treated. The most frequent ones are typically temporary and may include, but are not limited to, irritation to the respiratory, digestive, urinary or reproductive systems, fatigue, nausea, skin irritation, and hair loss. In some patients, they can be severe. Treatment sessions may vary in complexity and time. Radiation treatment is not appropriate for all cancers.

Medical Advice Disclaimer

Varian as a medical device manufacturer cannot and does not recommend specific treatment approaches. Individual treatment results may vary.

Exceptional Precision: See Where to Treat and Know How to Adapt

See, adapt, and deliver on-target: Varian's best-in-class imaging, including Iterative CBCT, and high-definition pencil beam scanning lead to high precision. High quality Iterative CBCT can be used to adapt the treatment plan for changes in tumor size and morphology as treatment progresses.

The Best-in-Class Imaging You've Come to Trust from Varian

- The only compact proton therapy system with both full-fan and half-fan imaging
- The largest field of view on the market at 51 cm x 28 cm—a critical feature for visualizing tumors in thoracic, abdominal, and pelvic regions
- Improved iterative algorithms help eliminate artifacts and improve soft-tissue contrast

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