

The Second Proton Therapy System Begins Treatment at University of Tsukuba Hospital

A consortium of four companies has developed the proton beam therapy facility and will support its operation for 20 years



Exterior of the Proton Therapy Center



Treatment Room

Photos by Satoshi Tsubuku (HANA FACTORY)

Tokyo, September 30, 2025 -Toda Corporation (“Toda”), Hitachi High-Tech Corporation (“Hitachi High-Tech”), Biken Techno Corporation (“Biken Techno”), and Mitsubishi HC Capital Inc. (“Mitsubishi HC Capital”) , today announced that the proton therapy system delivered through the University of Tsukuba Hospital Proton Therapy Facility Development and Operation Project (“the Project”) has commenced treatment at the Proton Beam Therapy Center, University of Tsukuba Hospital (“University of Tsukuba”) as of September 29, 2025.

This project involves the first renewal of proton beam therapy facility in Japan, and is equipped with spot scanning irradiation technology, a complete proton beam cancer treatment system including an accelerator and two rotating gantry treatment rooms, and the design, construction, operation, maintenance, and management of the proton beam facility under the Private Finance Initiative (PFI) method^{*1}. Additionally, it serves as a model case for facility renewal within a limited site space.

The consortium will continue to support the operation of the facility as partners of the University of Tsukuba, a leader in cancer treatment innovation, for the next 20 years.

^{*1} PFI (Private Finance Initiative): A method of utilizing private sector funds, management expertise, and technology for the construction, operation, and maintenance of public facilities.

Key Features of the Project

1. Proton therapy facility development and operation leveraging the strengths of four consortium companies

A consortium of four companies, each with expertise in technology and operation of proton therapy, has delivered the facility and system under the PFI model. Going forward, the consortium will support the maintenance and operation of the facility and treatment system as a partner of the University of Tsukuba for 20 years.

2. Facility renewal while maintaining ongoing medical services in a limited space

A compact accelerator room and treatment rooms were constructed adjacent to the existing facility, serving as a model for updating proton therapy systems within limited site areas. Renovation work was also carried out on parts of the existing facility during the construction of the new building, with careful planning to ensure uninterrupted medical services and a smooth transition to the new facility.

3. Promote stable and efficient business operations through optimal financing schemes.

In accordance with the characteristics of the business, we have developed an optimal financing scheme that does not rely on conventional fundraising methods and does not establish a Special Purpose Company^{*2}. This enabled consistent management by the lead company, facilitating swift decision-making and efficient project operation.

^{*2} SPC (Special Purpose Company): A company established for a specific project or purpose.

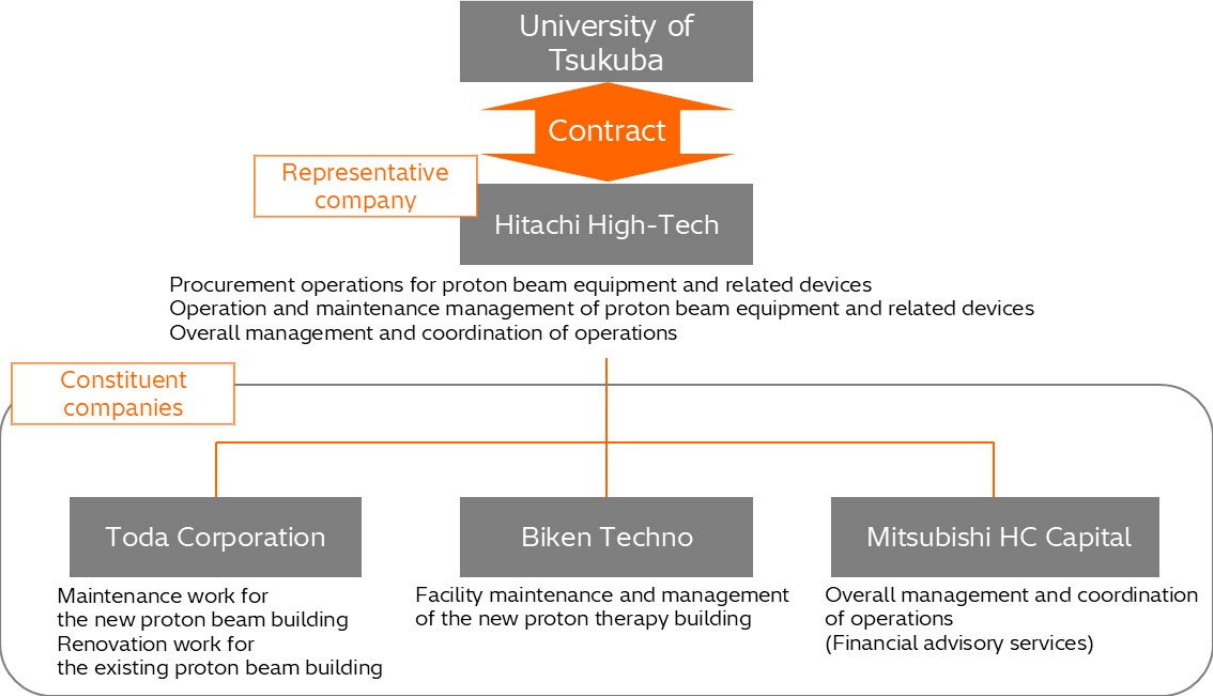
About the Proton Beam Therapy Center, University of Tsukuba Hospital

The University of Tsukuba has been a global pioneer in cancer treatment using proton accelerators since 1983. In 2001, the hospital introduced a proton therapy system from Hitachi, and to date, has provided proton therapy to approximately 8,450 cancer patients.

Overview of the Consortium

The consortium is led by Hitachi High-Tech, with each company contributing its specialized expertise to the development and operation of the facility.

- Hitachi High-Tech: Procurement operations for proton beam equipment and related devices, Operation and maintenance management of proton beam equipment and related devices, and Overall management and coordination of operations
- Toda Corporation: Maintenance work for the new proton beam building, Renovation work for the existing proton beam building
- Biken Techno: Facility maintenance and management of the new proton therapy building
- Mitsubishi HC Capital: Overall management and coordination of operations (Financial advisory services)



Organizational structure chart