



Project Snapshot

Commencement	January 2025
Completion	April 2026
No. of Units	3
Type of Machine	Gamma Trolleys
Infrastructure Type	Nuclear

Powering a Landmark Nuclear Infrastructure Project

Few construction projects carry the same level of complexity, scrutiny, and national importance as Hinkley Point C. As the United Kingdom's first European Pressurized Reactor (EPR) nuclear power station, the development represents a major investment in the country's future energy security. Every stage of construction demands meticulous planning, precise execution, and uncompromising safety standards. In an environment where multiple high-risk activities take place simultaneously, even the movement of critical equipment requires carefully engineered solutions designed to perform with absolute reliability.

One of these challenges involved the safe handling of heavy post-tensioning equipment on the nuclear dome. Operators needed to accurately maneuver 3-ton post-tensioning jacks within restricted work areas at height while maintaining productivity and protecting personnel working nearby. To address this requirement, Infrastructure Access Solutions (IAS) designed and supplied three Gamma Trolleys engineered specifically for the application. The solution delivered the precision, control, and operational safety needed to support critical post-tensioning activities on one of Europe's most significant infrastructure projects.

Overcoming Heavy Load Handling Challenges on the Nuclear Dome

The project team required a heavy load handling solution capable of supporting demanding post-tensioning operations while ensuring operator safety and productivity. Working on the nuclear dome presented unique challenges. Space was limited, construction activities were taking place simultaneously, and heavy equipment needed to be positioned with exceptional accuracy. The safe manipulation of 3-ton post-tensioning jacks was essential to maintaining operational efficiency while protecting personnel working in confined elevated areas.

Infrastructure Access Solutions responded by developing a purpose-built solution tailored to the project's requirements. Three Gamma Trolleys were designed and supplied to provide controlled movement and accurate positioning of heavy post-tensioning equipment. The system enabled operators to perform critical dome cable tensioning activities with greater confidence and control in a restricted work environment.

Custom-Engineered Gamma Trolleys for Precision Load Movement

Each Gamma Trolley was designed to perform reliably within the demanding conditions of a major nuclear construction site. The equipment featured a robust steel chassis combined with a curved rail system that allowed controlled movement across the work area.



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Three hydraulic jacks supported load manipulation while two electric motors powered movement along the rails. Additional features included anti-tilting wheels, rain protection, and maintenance access stairs to enhance safety and operational reliability.

The result was a specialized heavy load handling system engineered to solve the project's primary challenge: safe and accurate load movement within a restricted workspace. By providing operators with a dependable method of positioning critical equipment, the Gamma Trolleys helped support efficient and controlled post-tensioning operations on the nuclear dome.

Delivering a Trusted Solution for Global Industry Leaders

The equipment was supplied for a joint venture between VSL and Freyssinet, two internationally recognized leaders in post-tensioning technology. Renowned for their engineering expertise and operational excellence, both organizations are considered among the industry's most respected specialists. Being selected to design and supply such a critical piece of equipment reflected the confidence placed in Infrastructure Access Solutions' engineering capabilities, manufacturing quality, project management processes, and technical documentation standards.

Infrastructure Access Solutions was selected for the project based on its competitive offering and ability to meet the client's requirements. The successful delivery of the Gamma Trolley system demonstrates the company's expertise in developing specialized heavy load handling solutions for complex infrastructure environments where precision, safety, and reliability are essential to project success.

Supporting the Future of Nuclear Energy Construction

As construction progresses, Hinkley Point C will play an important role in strengthening the United Kingdom's long-term electricity supply. The project stands as a landmark development within the country's energy sector and highlights the importance of specialized engineering solutions in supporting large-scale nuclear construction. The successful deployment of the Gamma Trolley system demonstrates how Infrastructure Access Solutions helps clients overcome complex operational challenges through innovative heavy load handling equipment designed for demanding infrastructure environments.



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