

Scope of Supply

**For the procurement of a reach truck to be used in the warehouse in
Weiterstadt.**

1. General Information

GSI Helmholtz Centre for Heavy Ion Research GmbH (GSI) is an independent large-scale research institution that operates one of the world's leading particle accelerator facilities for research.

GSI is a limited liability company (GmbH). Its shareholders are the Federal Government (90 percent), the State of Hesse (8 percent), the State of Rhineland-Palatinate, and the Free State of Thuringia (1 percent each). GSI is a member of the Helmholtz Association, Germany's largest scientific organization. The purpose of this non-profit corporation is the construction and operation of heavy-ion accelerator facilities and research involving heavy ions. The company is primarily funded by grants from the public sector and other funding sources.

GSI employs approximately 1,600 staff members. In addition, around 1,000 scientists from universities and other research laboratories worldwide visit annually to use the facility for experiments.

The FAIR project (Facility for Antiproton and Ion Research) is establishing a state-of-the-art particle accelerator and experimental facility for basic and applied research at the site of GSI Helmholtzzentrum für Schwerionenforschung GmbH (GSI GmbH) in Darmstadt. This facility is being financed and constructed in Darmstadt (State of Hesse) through international cooperation with currently 10 partner countries.

Further information about GSI and FAIR can be found online at <http://www.gsi.de/>.

2. Scope of Supply and Delivery

The central warehouse in Weiterstadt (Carl-Zeiss-Str. 5, 64331 Weiterstadt) operates a high-bay warehouse with 1,000 pallet spaces, where goods are loaded and unloaded using a leased reach truck. An expansion to add another 1,000 pallet spaces is also planned for the Weiterstadt warehouse.

Given the remaining service life of the existing high-bay warehouse, a dedicated reach truck is required for the long-term operation of this facility. With this new purchase, the currently leased reach truck can continue to be used in the Pfungstadt warehouse until the end of the contract with the service provider, while no additional leasing is required for the Weiterstadt warehouse, and the long-term use of the high-bay warehouse is also addressed and resolved.



Image 1: Weiterstadt Warehouse

2.1 Infrastructure Framework Conditions

The height of the warehouse in Weiterstadt is just under 12 meters. Since the highest rack level is 9.5 meters, the lift height must also be at least 9,500 mm.

The aisles between the rows of racks and around the high-bay racking system all have a minimum width of 3.4 meters.

The high-bay warehouse uses Euro pallets with standard dimensions of 800 x 1,200 mm as the load unit. It is a conventional pallet rack with a maximum height of 2,450 mm and a maximum load of 1,000 kg per load unit. Three load units can be stored on each level.

Horizontal bracing is provided.

The maximum bay load (evenly distributed) per level is 3,000 kg.

The maximum bay load (excluding the floor) is 9,000 kg.

2.2 Requirements for the reach truck

2.2.1 Scope of Services

The Contractor shall supply a brand-new, operational, and CE-compliant device and provide training to the operating personnel.

The scope of delivery includes all major components required for operation, including the battery and charger, as well as all associated operating manuals and maintenance instructions.

To minimize risks associated with operating errors and resulting damage—and ideally to prevent them altogether—the reach truck must be equipped with adequate control and monitoring functions.

2.2.2 Minimum Technical Requirements

The reach truck must have a rated load capacity of at least 1,400 kg. The model must be an electric reach truck with a lithium-ion battery and feature a triplex mast with a lift height of at least 9,500 mm.

The unit must be equipped with integrated forks at least 1,200 mm in length, a side shift, a load protection guard, and suitable operator controls (mini-levers for each hydraulic function). In addition, it must feature electric floor leveling, a lift height limiter with a zero position, lift height preselection, a lift height indicator, a mast camera system, and 360° steering.

The model must be equipped with a tilting cab that provides a clear view of the load and ensures safe and ergonomic operation.

The bid must be submitted with the complete technical data sheets, the CE Declaration of Conformity, and a German-language operating manual. Any deviations from the minimum requirements must be explicitly indicated; equivalent technical solutions are only permissible if they meet at least the required functions and performance values.

2.3 Delivery date

The delivery date shall be determined by mutual agreement and shall be as soon as possible after the order is placed.

However, bids with a delivery date later than December 1, 2026, will be excluded and cannot be evaluated or considered.

Delivery must be made free to the point of use. The handover includes a functional test, instruction on operation, and the transfer of all documentation and keys or access codes.

3. Summary

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| Delivery Location | Weierstadt Warehouse, Carl-Zeiss-Str. 5, 64331 Weierstadt |
| Description | Electric reach truck with a lithium-ion battery |
| Lifting height* | Min. 9500 mm |
| Load capacity* | 1.4t rated load capacity |
| Features | Operator controls (mini-levers for each hydraulic function); electric seat height adjustment; lift height limit with zero position; lift height preselection; lift height indicator; mast camera system; 360° steering; tilting cab. |
| Personal protection | With appropriate safety equipment to prevent injuries or accidents. |
| Delivery* | Delivery must be completed by December 1, 2026, at the latest. |

Compliance with the minimum requirements must be evident from the proposal or its attachments (technical data sheets, etc.).

*** Please note: Minimum requirement or deadline.
Failure to meet the minimum requirement or exceeding the deadline will result in exclusions**