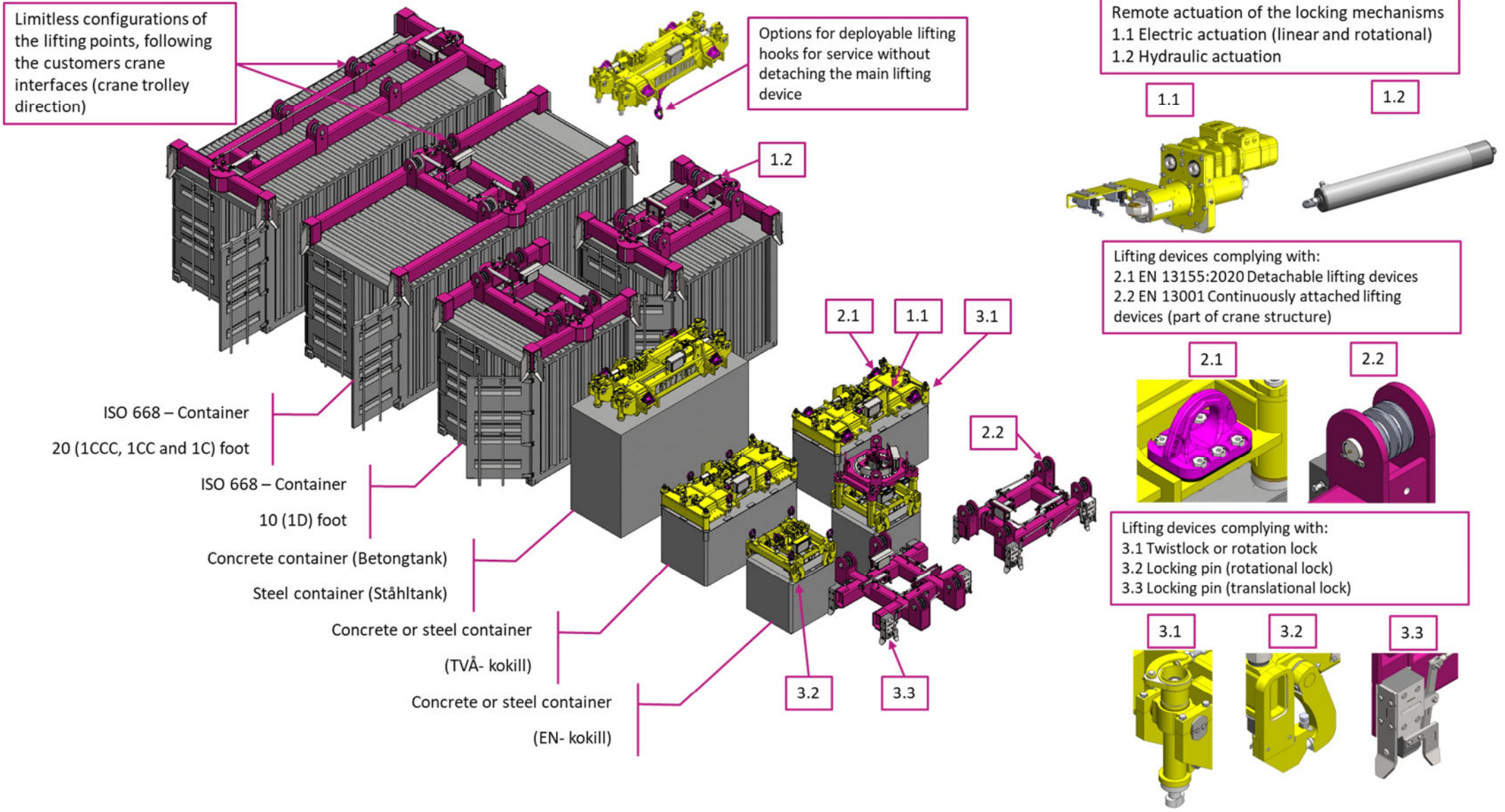


Lifting devices



Custom made lifting devices for demanding environments

Plansor Oy is an independent expert organization with roots in the nuclear industry. Our heritage working in this demanding and heavily regulated field creates an excellent basis for the design, calculation, documentation and delivery of lifting devices. The learned best practices from projects in the industry are used to produce reliable, safe and functional lifting devices for even the most demanding environments.

Lifting devices are an essential part of any production, they improve work efficiency, product and work safety. Lifting devices can be used in addition to lifting the loads also to rotate and manipulate the loads.

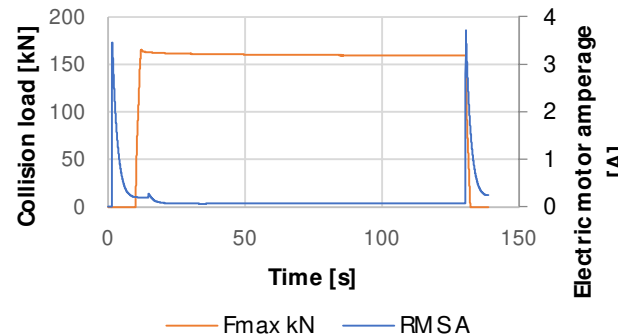
Service packages	Design	Turnkey delivery
R&D and design	✓	✓
Strength calculations	✓	✓
Documentation	✓	✓
Project management		✓
Supply chain		✓
Manufacturing		✓
Testing		✓
Commissioning		✓

Measurement and testing services

The trends on lifting devices call for more and more functionalities, allowing for the rotation, positioning or manipulation of the load. The reliable testing of these functionalities to verify compliance with design basis (method A.2) can be challenging to implement in a cost-efficient manner.

Plansor offers measurement and testing services, which allow for the testing of all functionalities under the true loads as part of the verification process of the lifting device.

Following plot presents an example of an actuator slip hub tests of a delivered solution, demonstrating proper limitation of actuation force to guarantee the correct functioning of the fail-safe locking system (even under collision loads) and traceability for maintenance measurements.



Standards and design requirements

Our designs are verified to meet requirements of

- Machinery Directive 2006/42/EY
- SFS-EN 13001-1
- SFS-EN 13001-2:2021
- SFS-EN 13155:2020
- KIKA – Fourth edition of KIKA TS (Technical specification)
- TBM – Technical regulations for mechanical equipment
- KBM – Quality regulations for mechanical equipment
- KTA 3902 (2020-12) – Design of Lifting Equipment in Nuclear Power Plants
- KTA 3903 (2020-12) – Inspection, Testing and Operation of Lifting Equipment in Nuclear Power Plants
- KTA 3905 (2020-12) – Load Attachment Points on Loads in Nuclear Power Plants

Contact our lifting device expert

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