

case study

Data Center

Finland

Major cloud infrastructure with **6 operational Halls** and approximately **60 corridors per Hall**, each up to **300 meters long**.



Context & Goal

In the early stages of the installation, traditional scissor lifts were used to position server racks. However, once the racks were in place, **the aisles became too narrow for those machines to pass**, and they also **lacked the precision needed to safely maneuver in such constrained environments**. The challenge was to find a **compact, controllable, and safe solution** that could navigate tight spaces without risking damage to critical equipment.

Solutions Implemented

Leonardo HD was selected for its exceptional maneuverability and safety, making it ideal for working in confined and active environments. In particularly sensitive zones, driving speed was adjusted to minimize the risk of collisions and ensure the highest level of control. Main advantages observed on site:

- **Ultra-compact size:** perfect for narrow aisles and tight passages.
- **Zero-turn radius:** ensures maximum agility in confined spaces.
- **Wheel-lock system:** allows for precise, stable directional control.
- **Fully autonomous movement:** no manual pushing required
- **Electric and silent operation:** suitable for operational or noise-sensitive areas.

Key Results

0 damage to servers or fixtures even in ultra-tight spaces

+40% operational efficiency, no repositioning needed

100% maneuvering precision, thanks to wheel-lock and zero-turn radius.

Selected as the only machine able to complete the final phases safely

Safer operations, controlled driving speed in critical areas

Leonardo HD

The only equipment you need.
Up to 5 mt.

Leonardo HD represents an innovation for working at low heights. It is designed to make the operator self-sufficient and enables him to produce a greater amount of work, eliminating the need to use ladders and scaffolding.

Of simple design and user-friendly, Leonardo HD is conceived to last a long time while ensuring minimum maintenance costs and a superior residual value. The product's reliability is due to its maintenance-free mast, which is guaranteed for 10 years, and to a sturdy, shock-proof steel chassis with a design that prevents the deposit of residual materials and debris, which can often damage the unit.



INDOOR
OUTDOOR

Platform Height	2900 mm	9 ft 6 in
Working Height	4900 mm	16 ft 1 in
Width	760 mm	30 in
Base Length	1195 mm	47 in
Stowed Height	1747 mm	68.8 in
Platform Length	1038 mm	40.8 in
Platform Length W/ decks ext.	1700 mm	67 in
Platform Width	630 mm	24.8 in
Entry Step	400 mm	15.7 in
Ground Clearance	87 mm	3.4 in
Platform Capacity	227 Kg	500 lbs
Unit Weight	560 Kg	1234 lbs