



Location
Příbram,
Czech Republic

Industry
Electrical Equipment
Manufacturing

Partner
KVADOS GROUP

HAI ROBOTICS



6.879

Storage Locations

9.360

SKUs
stored with totes dividers

345 m²

Warehouse area
with 10m height

45

Totes/hour

Project Specifications

Robots:	4 HaiPick A42T-L-E1-CE
Chargers:	2 HaiChargers HRC-3000-E3-CE
Software:	White box; ESS (Equipment Scheduling System)
Safety:	Safety Fence & Safety Door
Tote:	600 x 400 x 170mm plastic tote
Inbound throughput:	31 DC totes/hour
Replenishment throughput:	20 DC totes/hour
Outbound throughput:	13 DC totes/hour

Highlights

Challenges

- The project faced several challenges, including an **outdated production facility** that constrained efficiency and growth. Limited storage space forced KLT totes onto racks and the floor, leading to disorganized inventory management.
- Manual operations relied on paper-based tote identification, causing frequent errors and inefficiencies. **High labor costs**, shortages, and training demands further strained the facility's ability to meet demand.



Optimized Space Utilization

To address storage limitations, SENCO Příbram, in partnership with KVADOS and Hai Robotics, implemented an advanced automation solution that fully utilized the 10-meter height of their warehouse. This optimization maximized storage capacity and streamlined inventory organization.



Improved Operational Efficiency

The automation system transformed manual processes, optimizing receiving, replenishment, storage, and tote release for production. It also simplified the stock-taking process, reducing errors and improving overall accuracy.



Enhanced Productivity and Innovation

By integrating Hai Robotics' innovative technology, SENCO Příbram significantly improved efficiency, reduced reliance on manual labor, and established a foundation for continuous operational innovation, addressing labor shortages and improving scalability.

About

SENCO Příbram spol. s r.o. is a traditional family-owned company, of purely Czech origin, without any foreign capital. The Company's main activity is the design and production of low voltage electrical switchgear, both in terms of electricity and mechanics. The company's facilities enable the production of electrical switchgear and enclosures, from standard to custom designs, for both single units and small-series production.