Automated Material Handling Equipment

Automated Systems for Safety and Cost Savings

The U.S. Army is in the midst of a transformation to help enable war fighters and reduce the burden placed on them during the munitions handling process, with the goal of increasing their effectiveness in critical missions, while reducing the cost, time, and labor required to support their activities (effectively reducing the logistics chain). Tactical automation is a key component in this transformation process, as it removes difficult, dangerous, and tedious tasks from the soldier and accomplishes them with automated systems.

To support these efforts, Cybernet is implementing an automated forklift technology that is simplified with automotive electronics and applied to a Hyster truck compatible with those used by the Army. The initial Automated Material Handling Equipment (AMHE) technology kit will be for a fully-autonomous electric turret style forklift that can be used to quickly, safely, and cost effectively transfer pallets of munitions in tightly confined storage facilities, but the AMHE technology will ultimately support a wide range of material handling trucks — by simply using different versions of the physical actuator interface kit.

AMHE Kit advantages over manned operations include:

- Improved efficiency & productivity
- Extended operations in adverse or hostile settings
- Autonomous location/retrieval of mission critical items
- Improved storage configurations
- Reduced labor time/costs
- Reduced overall logistics footprint
- Lower war fighter exposure to material hazards

Cybernet's Automated Material Handling Equipment Reduces the Logistics Chain

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