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**ADVANCED TECHNOLOGY
FOR OPERATOR AWARENESS**

HYSTER REACTION™



KEEPS OPERATORS IN CONTROL AND INFORMED

Hyster Reaction™ is an industry-first technology package that helps reinforce lift truck operating best practices, tailored to the complexity of demanding, fast-paced indoor lift truck environments. The solution applies a broad range of equipment performance controls based on location, equipment-specific thresholds and proximity to obstacles or pedestrians, while the operator remains in control of the lift truck.



ADVANCED DYNAMIC STABILITY

Continuously monitors truck and load status to adjust travel speed and smooth forklift and tilt movement to help maintain overall stability and minimize the potential for tip overs. Includes lateral and longitudinal stability, load anti-pitching, lift/lower soft stops, mast lift/lower control, tilt/reach soft stop, and overload arrest.



OBJECT DETECTION (OD)

Two-dimensional LiDAR sensors monitor and detect objects within the line of sight with forks trailing (e.g., sit-down counterbalanced truck travelling in reverse) including trucks, pedestrians, and other objects. Upon detection, the OD system adjusts lift truck performance utilizing advanced traction and hydraulic controls to provide operators with additional time to react.



PROXIMITY DETECTION (PD)

Utilizes ultra-wide band 360° technology to detect tagged equipment, facility areas, and pedestrians within close proximity. Upon detection, the PD system adjusts lift truck performance to provide operators with additional time to react.



REAL-TIME LOCATION SENSING (RTLS)

Utilizes ultra-wide band technology to provide device-to-server connections to communicate with equipped trucks, zones, and pedestrians. Customized location-specific rules can be set to automatically limit lift truck performance when operating in specific areas of the facility.

COMMON APPLICATIONS

Hyster Reaction proactively adjusts lift truck performance based on real-time conditions, dynamically adapting speed and fork control to maintain the combined stability of the lift truck and load. It continuously monitors the combined center of gravity of the lift truck and load it carries to apply carefully measured performance adjustments to avoid abrupt shifts or jerks that can upset stability, while keeping the operator in control of the lift truck.



OVERLOAD ARREST to prevent lifting and carrying loads that exceed weight limits



LOCATION-BASED FORK HEIGHT RESTRICTION to avoid low-hanging beams or other obstacles



EXCEPTION ZONES in wire guided aisles to continue productivity



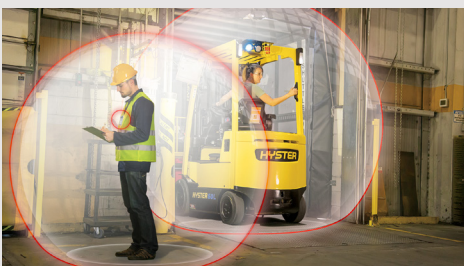
AUTOMATIC SLOWDOWN when approaching the end of an aisle or intersection



EXCLUSION ZONES to prevent equipment from entering designated areas



SPEED CONTROL ZONES help reduce travel speed within designated areas in the facility




LINE OF SIGHT SUPPORT to help support operator and pedestrian awareness



COLLISION AVOIDANCE ASSIST by noticeably reducing the travel speed when obstacles are detected



Hyster Company
P.O. Box 7006, Greenville, North Carolina 27835-7006

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