



ECH Series
Empty Container Handler





ECH Series Empty Container Handler

The ECH Series dedicated empty container handler is designed and built to provide safe and efficient handling of all empty ISO containers with optimal performance. Built on a 180-in. wheelbase to provide increased stability, the ECH Series has a lifting capacity up to 19,800 lbs. [9000 kg] to accommodate all requirements. Models are available to stack up to 8-high.

Operator Environment

- Elevated cab position provides superior visibility in all directions
- Angled overhead window with sun shade provides excellent visibility at all load elevations
- Dash-less cab design provides completely unobstructed forward visibility
- Large sliding door windows
- Cab heater and optional air conditioning
- Large cab area provides ample floor and elbow room
- Tinted glass to protect against glare
- Luxury air ride seat with retractable seat belts
- Easy entry/exit stairway/platform design with non-skid steps and handrails for three-point contact
- Rubber non-skid floor mat for safety and comfort
- /QAN display featuring all gauge/warning functions and diagnostic capabilities and user interface for making vehicle adjustments (pass code-protected)
- Multi-function single joystick control for ease of use
- Tilt-steering column
- Minimal steer and brake effort
- Adjustable pedal angles
- Column-mounted direction control for ease of operation
- Electronic pushbutton parking brake control



Engine

- Cummins 6.7 liter, Tier III 215 HP turbocharged diesel
- Charge air cooler with integral radiator and transmission cooler
- Two-stage heavy duty air cleaner with electronic filter restriction indicator and high air intake providing maximum efficiency
- 12-volt electrical system with 12-volt starter motor and alternator for dependable starting and operation
- Two (2) 12-volt industrial batteries in parallel rated for 925CCA each for reliable starting in all conditions
- 95 amp alternator with built-in regulator
- Bolt-on high capacity fuel tank for increased run times and ease of maintenance: 150 gallons [568 liters]

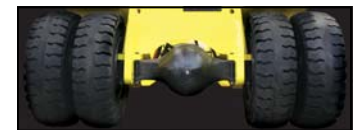


Transmission

- Dana 32,000 Series powershift transmission with three forward and reverse speeds. Most common transmission used in off-highway applications
- True inching system for precise movement at higher RPMs
- 12-plate modulation for smooth shifting and protection against directional change shock loads
- All gears are constant mesh during shifting
- Dedicated transmission oil cooler

Drive Axle

- Planetary drive axle provides long life and rugged service
- Wide stance drive axle for increased stability
- Outboard wet disk brakes with force-cooling for improved performance and longevity



Chassis

- Modular chassis design with bolt-on sections provides for fast and cost-effective shipping, easy assembly and customization while protecting all vital systems and components

Hydraulic System

- Joystick control allows smooth, comfortable, controlled operation of all functions
- Load-sense "on demand" steer pump increases vehicle efficiency
- High capacity return filter with electronic restriction indicator for maximum efficiency
- Dedicated hydraulic cooler for reliable performance
- Bolt-on high capacity hydraulic tank provides additional cooling capabilities and ease of maintenance: 160 gallons [606 liters]
- CANBus control simplifies wiring and provides diagnostic capabilities
- Accumulator in lift circuit protects against shock loads



Steering System

- Load-sense hydrostatic steering for decrease effort and reliable control
- Heavy duty welded beam steer axle design protects cylinder from damage
- Steer knuckles utilize *Timken* tapered roller bearings with easily accessible grease points
- Full lock-to-lock steering in 3-4 steering wheel revolutions to minimize operator fatigue



Mast Design

- Wide-view mast with nested cylinders for increased visibility
- Rigid inner mast and telescoping outer for reduced torsional stresses and increased durability
- Main mast rollers utilize *Timken* tapered roller bearings
- High-load, high wear-resistant composite plastic side thrust bearings for improved performance and service life
- *NitroSteel*® cylinder rods have superior corrosion resistance, improved lubrication retention and wear resistance compared to chrome rods.

Attachment

- Side-post attachment with two (2) ISO rear twistlocks
- Integral carriage with +/-20" sideshift
- Extends/retracts to standard 20- and 40-foot pick points for handling containers up to 53 feet
- Vertical "floating" end beam heads
- Plastic composite slides improve reliability and reduce maintenance requirements
- Twistlock engagement indicator lights
- Interlock safety system insures proper locking sequence



Options

- Cab air conditioner
- Roof-mounted wiper with washer
- Heavy duty air cleaner with aspirated pre-cleaner
- Catalytic muffler
- Load weight indicator
- Alternative operator cab height positions



Serviceability

The Hoist ECH Series is engineered with the mechanic in mind. The modular design incorporates well-placed bolt-on components for easy access and quick maintenance.

- Hinged engine hood with gas strut supports provides quick access to the bolt-in power train and all related components
- Bolt-on tanks, counterweights, cab superstructure and stairways can be removed for additional access
- All hydraulic hoses and wiring harnesses routed for easy inspection and access
- Attachment-mounted main hydraulic valve minimizes hosing routed through mast and simplifies hydraulic plumbing
- Steel bushings on non-rotating pin bores eliminate the need for ever having to do "line bore" repairs
- External attachment spreader cylinders for easy access
- Diagnostic multi-gauge eliminates the need to tap into hydraulic lines for troubleshooting
- *IQAN MD3* display includes diagnostic capabilities eliminating the need for a laptop computer
- *RemoteTech*® system allows Hoist personnel to dial in to the unit to assist with diagnostic assessments as well providing the ability to remotely adjust vehicle parameters

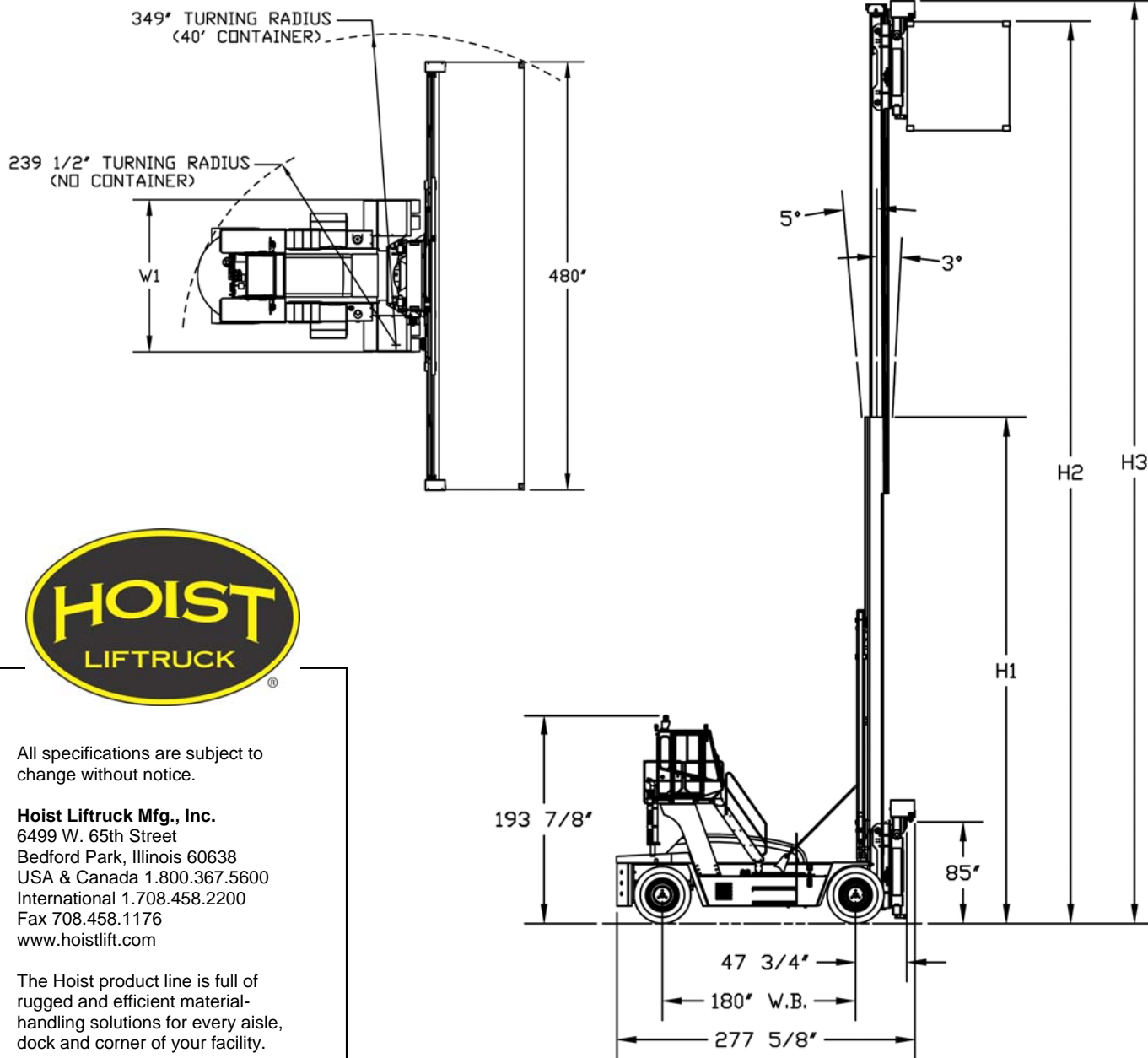


Safety

The ECH Series chassis is painted high-visibility "Hoist Yellow" with white rims. The mast and operator cab are painted anti-glare black. The truck complies with all current ANSI, OSHA, CE, and EU directives for industrial trucks, and is delivered with standard safety equipment.

- Overload warning system
- Twistlock indicator lights
- CANBus safety interlocks
- Horn and audible backup alarm
- Amber strobe light
- Dual operator compartment side mirrors
- Lights: forward and rear work lights, stop/tail/turn indicators, stairway safety lighting
- Industry-first lockable steer axle for increased stability at elevated load heights





All specifications are subject to change without notice.

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The Hoist product line is full of rugged and efficient material-handling solutions for every aisle, dock and corner of your facility.

To learn more about **HOIST** products, log on to the Web at www.hoistlift.com

Legendary reliability

Built for robustness and designed to last, a HOIST liftruck will provide reliable service in the most heavy-duty applications, day after day, year after year.

Ergonomic consideration

HOIST engineers design each cab's environment for ease of use, superior visibility and comfort.

100% replacement parts

All parts in-stock, 24 hours a day with same day shipping available

MODEL	W1 Width	H1 collapsed height	H2 raised height	H3 max height
ECH-5	162"	319"	535"	554.5"
ECH-6	162"	379"	638.5"	658"
ECH-7	182"	421"	739"	758.5"
ECH-8	182"	481"	842.5"	862"



MADE WITH PRIDE
 IN THE USA