TOYOTA / TMHA LHE130 - LHE150

Plant risk assessment and site verification

ISSUE CONTROL

Revision FC-2026.10.2. Issued 2 October 2026. Scheduled review 2 October 2028 (24 months). Document owner: Forklift Co Service Manager. Current master; machine/site verification and authorisation required.

SCOPE

LHE130 and LHE150 light-duty, pedestrian-controlled electric pallet trucks: steel-framed, battery-powered, walk-behind low-level pallet movers with a steering tiller, for palletised goods in weather-protected environments. No rider platform or mast-forklift coverage is implied. Assess the actual truck, battery, load, route and work method before use.

SOURCE AND CONFIGURATION

Based on supplied TMHA PHA-703 Version 3, issued 10 January 2022, source review date 10 January 2024. Those dates remain historical; this Forklift Co issue does not renew TMHA approval. TMHA current LHE150 information describes lithium-ion batteries. Verify the actual battery/charger, nameplate and serial-specific manual; The source acid/hydrogen hazards require a battery-specific applicability check before release. The public LHE150 listing does not establish the fitted battery on an individual truck or on LHE130.

LIMITS AND EXCLUSIONS

No gravel or soft surfaces. Cold/freezer or hazardous-area use requires the appropriate manufacturer-approved configuration. No towing or riders. Modifications require TMHA approval; ramp operation must follow the operator manual. Do not assume a model name establishes capacity or battery configuration.

SITE RELEASE

All 12 source hazard topics, their complete control methods and all nine safety-feature entries are retained. Initial and residual ratings and signatures are intentionally blank for competent site assessment. No physical inspection, TMHA certification or site acceptance is asserted by this document.

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Before the machine is accepted on site

Site / principal contractor / work area

Fleet number / serial / make / exact model

Battery chemistry / weight / charger / capacity plate reference

Operator / training / practical competence / authorisation

Safe work procedure or SWMS / revision / task induction

Service evidence / pre-start / safety devices / defect clearance

OPERATOR COMPETENCE

WorkSafe Queensland excludes pedestrian-operated and pallet trucks from its LF forklift definition. Verify practical training, instruction, supervision and site authorisation for this actual configuration; do not copy mast-forklift licensing requirements into this assessment. Record other licences/induction where the work requires them.

HOLD POINT

Confirm current manual/safety bulletins, actual load plate, battery/charger instructions, condition and all safety functions. Validate traffic, floor, dock, charging and emergency arrangements. Missing essential evidence means hold the truck/task for competent review before use.

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Risk method, responsibilities and review

ASSESS AT THE ACTUAL SITE

Record initial likelihood (L), severity (S) and risk (R=L x S) for each hazard on pages 5-10. Reassess after controls are implemented and verified. Blank ratings mean unassessed. Add task hazards on page 11. Use the site matrix if required and identify it in the site record.

RATING GUIDE

L: 1 rare, 2 unlikely, 3 possible, 4 likely, 5 almost certain. S: 1 minor first aid, 2 medical treatment, 3 serious injury/time lost, 4 permanent disability, 5 fatality/multiple fatalities. This is a screening method, not certification.

DANGER / RISK MATRIX - likelihood (L) x severity (S)

	Severity 1	Severity 2	Severity 3	Severity 4	Severity 5
5 Almost certain	5 Moderate	10 High	15 High	20 Extreme	25 Extreme
4 Likely	4 Low	8 Moderate	12 High	16 High	20 Extreme
3 Possible	3 Low	6 Moderate	9 Moderate	12 High	15 High
2 Unlikely	2 Low	4 Low	6 Moderate	8 Moderate	10 High
1 Rare	1 Low	2 Low	3 Low	4 Low	5 Moderate

ACTION BANDS

1-4 Low: maintain/monitor. 5-9 Moderate: implement controls and supervisor authorisation. 10-16 High: do not start until further controls reduce risk and competent review authorises work. 17-25 Extreme: stop and redesign. A low score cannot waive a required control.

CONTROL ORDER AND OWNERSHIP

Eliminate exposure first where practicable, then substitution, isolation and engineering, supported by procedures/training and PPE. Service Manager: plant condition and documents. Site supervisor: workplace assessment, controls and consultation. Operator: pre-start/safe use/reporting. Carrier and technician: task competence and isolation/transport controls.

REVIEW FREQUENCY

24 months is Forklift Co policy, not a universal legal expiry. Review earlier after incidents, changed plant/work/attachments, new hazards, ineffective controls or consultation identifying a need. Retain the completed site copy and version history.

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Manufacturer safety features and applicability

TMHA PHA-703 VERSION 3 - SAFETY FEATURES

The following features and braking methods are reproduced from the supplied 2022 source. Verify the actual truck and serial-specific manual; this register is not a physical inspection or manufacturer approval.

- Battery disconnect provided for battery isolation.

- Emergency stop switch to cut power.

- Audible alarm fitted (horn).

- Key pad fitted for restricting use to authorised operators.

- Two castor wheels to aid stability

- Operator’s manual.

- Switch (safety reversing) for when the pallet truck is used in “walking position”

- Park brake provided (automatically applied when control tiller is released).

- Braking achieved by two (2) methods: (a) reversing travel direction (plugging this is the preferred method of slowing or braking) and (b) applying an electro-mechanical brake by either moving the tiller arm up or down.

BATTERY CONFIGURATION HOLD POINT - FORKLIFT CO

TMHA current LHE150 product information describes maintenance-free lithium-ion versions. This does not establish the fitted battery on an individual LHE150 or on LHE130. Check actual battery, charger, SDS and serial-specific TMHA instructions. If the acid/hydrogen hazards described in the source do not match that configuration, obtain the applicable manufacturer instructions before release. No new charging or battery-repair procedure is supplied here.

People, training and traffic

1. Unauthorised or untrained use

Potential harm: Collision, crushing or uncontrolled movement.

Source control methods - TMHA PHA-703 Version 3

- Always switch off the ignition (press red ‘0’ button on keypad) when leaving the pallet truck unattended.
- Ensure only competent and authorised persons who have been appropriately trained to use the pallet truck.
- Ensure the Operation Manual has been read and understood by the operator and must be stored on the pallet truck.
- Ensure all affixed warning labels have been read and understood by the operator.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

2. People, fixtures and traffic

Potential harm: Pedestrian injury, trapping or collision.

Source control methods - TMHA PHA-703 Version 3

- Employers should ensure that a hazard & risk assessment is conducted for the operator’s duties and that a “Safe System of Work” is in place.
- Ensure operators can read and understand the rating / capacity plate on the pallet truck and the truck is rated appropriately for the job tasks.
- Have a speed limit policy in place for the site.
- Ensure all personnel are clear of the pallet truck when they are operating and have clearly defined pedestrian exclusion zones where trucks are operating.
- Never allow passengers to ride on the pallet truck.
- Prior to moving off, check that the way is clear. See the “Operator’s Manual” for information on driving / operating.
- Always look in the direction of travel, drive smoothly, avoid excessive braking or sudden steering movements and slow down for turns, wet or slippery surfaces.
- Be aware of low heights created by doorways or racking and services such as pipes, beams or low lighting.
- When operating the pallet truck in the “walkie position” (standing beside the truck with forks / load trailing), ensure there is adequate room so that the operator is not trapped between the truck and objects and keep feet well away from the truck.
- Have a traffic management policy in place for pedestrians, forklift traffic, intersections and when entering and exiting doorways and buildings. The “Operator’s Manual” also gives additional information as well as warnings and cautions.
- Fit and use end of aisle devices such as mirrors or blue light systems.
- Ensure any guards or covers are in place prior to operation.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

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Environment, load and stability

3. Operating environment

Potential harm: Loss of control, instability or unsuitable exposure.

Source control methods - TMHA PHA-703 Version 3

- Do not use the pallet truck on gravel or soft surfaces.
- Avoid depressions, grates, manholes or other items which may risk the pallet truck becoming unstable.
- Do not operate in a cool / freezer room or hazardous area unless specifically designed to do so.

Responsible: Site supervisor / operator

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

4. Stability, load and gradients

Potential harm: Overturn, dropped load or crush injury.

Source control methods - TMHA PHA-703 Version 3

- Ensure battery weight is within requirements stated on the nameplate.
- Always travel on level ground and ensure that the floor or surface is not damaged and free of debris which can affect truck stability.
- Ensure the floor or surface has sufficient load bearing capacity for the total weight of the truck including load.
- Ensure the load is evenly distributed and consideration must be given to the height, width and length of the load as this impact on the centre of gravity and make the pallet truck unstable.
- Allow additional stopping distance when the pallet truck is loaded. Distribute the maximum capacity of the pallet truck over two pallets (if double pallet handler) .
- Avoid travel on a ramp or grade and never turn on a gradient. If travel on a grade or ramp is required, always travel with forks facing up the ramp when unloaded or loaded. See “Operator’s Manual” for additional details for ramp operation.
- When picking up or depositing the load, ensure the truck is stopped prior to lifting and the forks are under the load or in the pallet.
- Do not use the pallet truck to tow trailers or other trucks.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

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Tiller controls and falling objects

5. Hands, feet and steering tiller

Potential harm: Crush, pinch or entrapment injury.

Source control methods - TMHA PHA-703 Version 3

- Special care needs to be taken when operating the steering tiller to prevent hand and body crush injury when manoeuvring the pallet truck .
- The brake can be overridden if the ‘turtle mode’ button is pressed whilst simultaneously activating the travel control.
- Travel in ‘turtle mode’ (slow speed) when manoeuvring around obstacles.
- Wear steel capped shoes.
- Ensure hands or the steering tiller are not slippery.
- When changing the battery keep hands and fingers away from the battery or steel frame of the pallet truck.

Responsible: Operator / Service Manager

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

6. Falling loads

Potential harm: Impact or crush injuries to people.

Source control methods - TMHA PHA-703 Version 3

- Use caution and reduce speed when travelling or turning with a load to reduce the possibility of loads falling onto pedestrians.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

Docks, tailgates and footing

7. Docks, levellers and tailgates

Potential harm: Fall from an edge, vehicle movement or collapse.

Source control methods - TMHA PHA-703 Version 3

- Take special care when operating around docks and dock levellers. Ensure that pallet trucks do not operate around elevated docks unless there is guarding in place to prevent the truck going over the side of the dock.

- When operating on docks, ensure special precautions are in place and the vehicle is locked to the dock, brakes applied and wheel chocks in place to prevent the truck or trailer moving off.

- Do not manoeuvre the pallet truck around on a tailgate lifter. Only travel directly in or out of the transporter; manoeuvre the pallet truck once in the transporter or on the dock.

Responsible: Carrier / supervisor / operator

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

8. Slips, trips and falls

Potential harm: Loss of footing or trapping beside the truck.

Source control methods - TMHA PHA-703 Version 3

- Ensure that clothing is appropriate for operation including footwear and area is clean and free of oil, grease, dirt or debris.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

Service checks and battery charging

9. Mechanical failure and servicing

Potential harm: Unexpected movement or failed safety controls.

Source control methods - TMHA PHA-703 Version 3

- Conduct pre-operational checks as outlined in the operation manual out at the beginning of each shift.
- Follow hourly/time -time based service intervals. Rectify any reported issues or faults.
- Do not modify the truck without the approval of Toyota Material Handling Australia Pty Ltd (TMHA)

Responsible: Operator / Service Manager / technician

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

10. Battery charging, fire and gases

Potential harm: Fire, burns, explosion or harmful exposure.

Source control methods - TMHA PHA-703 Version 3

- Restrict access to personnel trained in battery maintenance and charging procedures to reduce the hazards associated with hydrogen gases.
- Display signage in charge areas stipulating No Smoking, No Sources of Ignition .
- Only charge in areas adequately ventilated and designated for that purpose and if fitted that battery cover is open during charging.
- Ensure the charger is switched off prior to disconnecting the charger plug from the battery plug.

Responsible: Operator / technician / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

Battery chemicals and handling

11. Acid burns during battery maintenance

Potential harm: Chemical burns from battery acid.

Source control methods - TMHA PHA-703 Version 3

- Provide policy and procedures which address:

- Personal Protective Equipment (PPE); which complies with minimum standards of protection such as, PVC or rubberised gauntlets, face shield, apron, eye wash boots etc.

- Spill containment, mop up and disposal procedure.

Responsible: Trained technician / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

12. Battery removal and manual handling

Potential harm: Strain, crush or pinched fingers.

Source control methods - TMHA PHA-703 Version 3

- Provide battery pullers, lifting equipment and instruction in the correct removal and replacement of batteries.

- Use caution when fitted with side rollers for battery removal when pushing in or pushing out the battery .

Responsible: Trained technician / Service Manager

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

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Site controls, consultation and authorisation

Additional hazards / initial and residual risks / controls

Outstanding actions / responsible person / due date

Workers and representatives consulted / date

Control evidence / traffic / docks / battery / emergency plan

Competent assessor name / role / signature / date

Site supervisor / PCBU authorisation / restrictions / date

RELEASE DECISION

Record accepted for stated task / accepted with restrictions / not accepted. Required controls must be in place, residual risks acceptable and workers instructed. This assessment supports the task/site safe-work procedure or SWMS; it does not replace it. Site acceptance applies only to the stated truck and task.

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Version history and current reference register

VERSION HISTORY

TMHA PHA-703 Version 3: issued 10 January 2022, review 10 January 2024; original 5-page source retained unchanged. FC-2026.10.1: 2 October 2026, superseded draft with summarised controls. FC-2026.10.2: 2 October 2026, 12-page master restoring every source control method and all safety features; 48 blank fields and visible risk matrix. Only PDF extraction spacing has been corrected in source controls. Source authorisations are not copied as Forklift Co or current manufacturer approval.

TMHA PHA-703 Version 3 (supplied PDF; immutable source history)

TMHA current LHE150 model information / lithium-ion configuration

WorkSafe Queensland: Forklift truck licensing definition

Managing the risks of plant in the workplace Code of Practice 2021

How to manage work health and safety risks Code of Practice 2021

SOURCE STANDARDS AND MANUFACTURER EVIDENCE

The 2022 source lists AS 2359.1:2019, AS 2359.2:2013, AS 2359.6:2013 and ISO 3691 parts 1/5; it notes applicability varies with manufacture date. These are historical source references, not a new conformity claim or assertion of current editions. Obtain applicable serial-specific standards, operator manual, battery/charger instructions and safety bulletins from TMHA before release.

REFERENCE CHECK AND DOCUMENT CONTROL

Regulator and TMHA public information checked 2 October 2026. No manufacturer sign-off or site inspection has been fabricated. Scheduled review 2 October 2028, or earlier when controls/conditions change. Download the current master from FCOS or the Forklift Co website; retain completed site evidence.