

HYDRALIFT 150

OWNER MANUAL



STRONGARM
MANUFACTURING

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1. WELCOME

The Hydralift 150 is a skip-mounted bin lifter engineered for safe, reliable lifting of 120L, 140L, and 240L wheelie bins. Operators must read this manual and complete site-specific training before use.

2. SAFETY INFORMATION

Only trained and authorised personnel may operate this machine.

Machine Attachment

Skip lip thickness: 30–80 mm

Skip lip height: 1200–1800 mm

Machine must be securely hooked to a skip.

Operator Position

Operator must remain outside the 3-metre exclusion zone at all times.

Never operate from the sides or rear.

Exclusion Zone

A 3-metre exclusion zone must be marked, barricaded, or clearly identified around the lifter.

No personnel may enter the zone while the machine is moving.

Wheelie Bin Weight Limits

- 120L: 48–70 kg
- 140L: 60–80 kg
- 240L: 96–110 kg

Check bin SWL (Safe Working Load) and avoid overloading.

Bin maximum-weight signage must be displayed at the job site.

This signage is the responsibility of the site operator, not Strongarm.

Load Safety

Dense materials may exceed bin limits before 150 kg.

Hydraulic Safety System remains pressurised when off.

Hose-burst valve prevents uncontrolled descent.

Never disconnect hoses under load.

Electrical Safety

Stop use if battery voltage is below 12 V.

Never operate while charging.

Pendant Cable Safety

Operators must maintain awareness of the pendant cable route at all times.
Cable must not be under wheels or create a trip hazard.

General Safety

Operate only on flat, firm ground.
Never bypass safety devices.

3. INTENDED USE

Designed for lifting and tipping standard 120L, 140L, and 240L wheelie bins containing non-hazardous waste.

4. PROHIBITED USE

Not for liquids, hazardous materials, non-standard bins, personnel lifting, overloading, free-standing operation, or unstable ground.

5. MISUSE

Prohibited behaviours include standing under or near the bin, operating without skip engagement, modifying safety devices, using damaged bins, and allowing untrained personnel to operate.

6. RESIDUAL RISKS

Crushing hazards, pinch points, hydraulic pressure, trip hazards, skip disengagement, and bin failure.
Operators must remain outside the exclusion zone.
Pendant cable may create a trip hazard if not routed safely.

7. EMERGENCY PROCEDURES

- Press Emergency Stop
- Ensure area is safe
- Do not free trapped persons alone
- Contact site emergency personnel
- Isolate power
- Report the incident
- Do not resume operation until inspected



8. TRAINING REQUIREMENTS

Training must cover safe operation, skip engagement, exclusion zone control, bin limits, emergency stop use, hazard awareness, pendant cable routing, and daily checks.

Training records must be maintained.

9. PRE-OPERATION CHECKS

Before operating, the operator must:

- Mark out the 3-metre exclusion zone
- Ensure the zone is clear of all personnel
- Check battery voltage
- Check pendant and cable
- Confirm pendant cable route is safe
- Check emergency stop
- Inspect hydraulic hoses
- Inspect guards
- Confirm skip engagement
- Inspect bin condition
- Check for any fault indicators

10. INSTALLATION

Skip Requirements:

- Lip thickness: 30–80 mm
- Lip height: 1200–1800 mm

Skip must be stationary and structurally sound.

Engagement Procedure

- Roll lifter to skip
- Hook frame over lip
- Tighten engagement bolts
- Confirm engagement visually

Before testing, ensure the 3-metre exclusion zone is marked and enforced, and test with a small lift.

Site operator must provide and display bin weight-limit signage.

Strongarm does not supply site signage.

Prohibited Installation

Free-standing use or unstable surfaces.

11. OPERATING INSTRUCTIONS

11.1 Secure the Machine

- Lock casters
- Hook over skip
- Tighten bolts
- Confirm engagement
- Ensure the 3-metre exclusion zone is marked and clear
- Confirm pendant cable is routed safely

11.2 Position the Wheelie Bin

- Load bin
- Align correctly
- Confirm bin size
- Check SWL (Safe Working Load)

11.3 Lift the Bin

- Ensure the exclusion zone is enforced
- Operator must stand outside the 3-metre exclusion zone
- Press and hold UP
- Maintain awareness of pendant cable position

11.4 Empty the Bin

- Allow full rotation
- Do not enter the exclusion zone
- Do not shake or assist the bin

11.5 Lower the Bin

- Remain outside the exclusion zone
- Press and hold DOWN for controlled descent

11.6 Remove the Bin

Only approach once the bin is fully lowered and the machine has stopped.

11.7 Power Down

- Turn off power
- Charge if required
- Never operate while charging

12. GUARDING

Front: Bin acts as guard (AS 4024).

Sides: Pinch-point plates and pivot guard.

Rear: Ram clevis guard.

Crush zone controlled by hold-to-run pendant and operator position.

13. HYDRAULIC SYSTEM

Single-acting cylinder, hose-burst valve, relief valve, and flow control.

14. ELECTRICAL SYSTEM

Low-voltage pendant, hold-to-run Up/Down, emergency stop circuit, strain-relieved cable, IP-rated enclosure.

15. BATTERY AND CHARGER CARE

Charge daily.

Keep dry.

Inspect charger.

Maintain storage charge.

Never operate while charging.

16. MAINTENANCE

Daily: Hoses, pins, chains, wheel locks, battery, pendant.

Weekly: Hydraulic oil, lubricate pivots, remove debris.

17. INSPECTION REQUIREMENTS

Daily and weekly checks.

Annual hydraulic and structural inspections.

6 and 12 month PMP services.

Maintenance records must be kept.

18. PREVENTATIVE MAINTENANCE PLAN

Annual major services.

Full overhauls from Year 5 onward.

19. TECHNICAL SPECIFICATIONS

- SWL (Safe Working Load): 150kg
- Bin sizes: 120, 140, 240 L
- Skip bin height: 1200-1800mm
- Tip height: 3539mm (including a 240L bin)
- Cycle time: 25-30 seconds
- Power: 12V battery or 240V electric
- Height (lowered): 1549mm
- Width: 830mm
- Length: 900mm
- Swing radius: 1812mm (including 240L bin)

20. COMPLIANCE

Complies with AS 4024 Safety of Machinery and relevant hydraulic and electrical safety requirements.

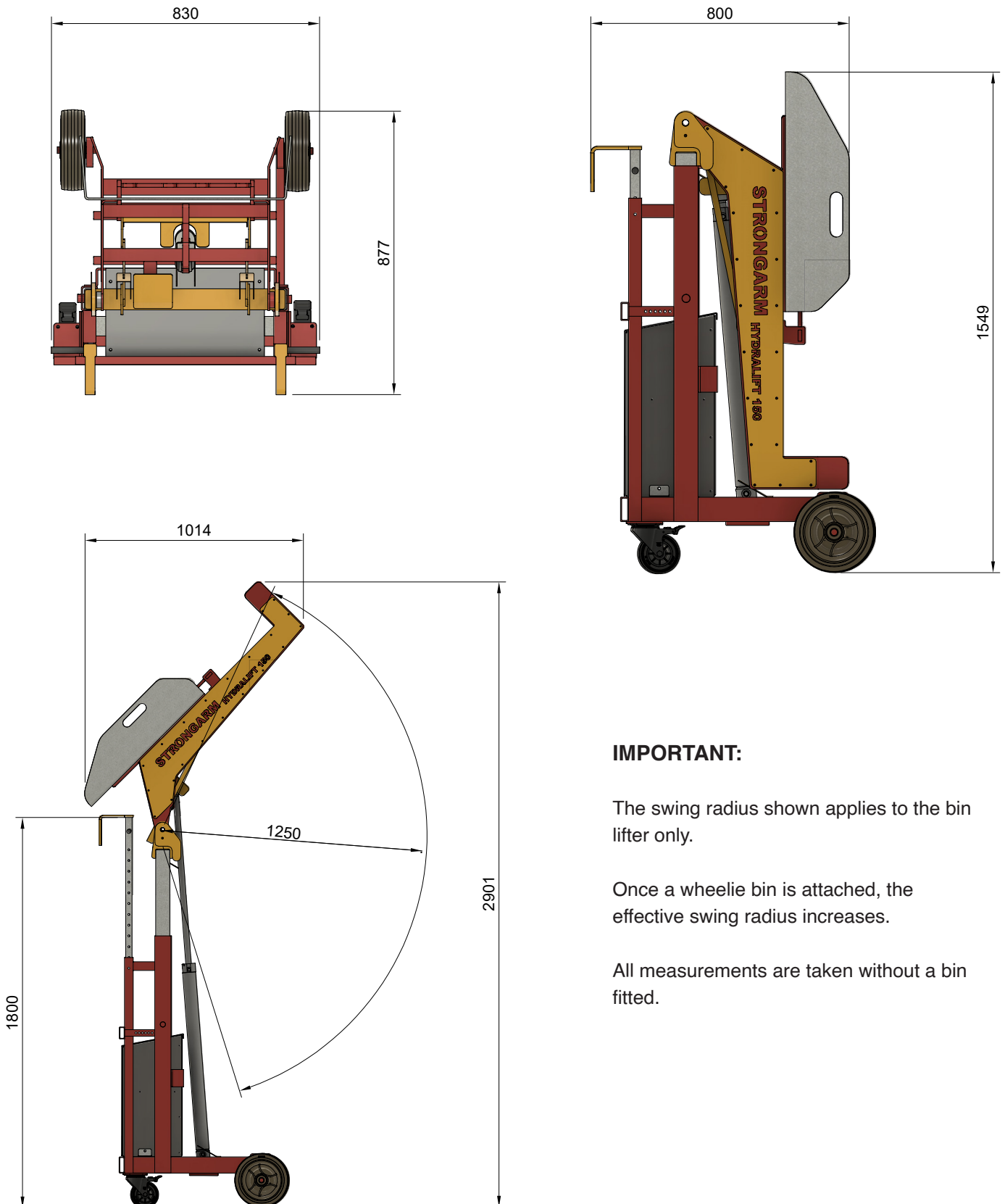
21. WARRANTY

12-month warranty against defects.

Excludes misuse, overloading, improper installation, modifications, poor maintenance, and incompatible bins or skips.

Strongarm is not responsible for bin weight-limit signage or any site-specific signage requirements.

DIMENSION DRAWINGS



IMPORTANT:

The swing radius shown applies to the bin lifter only.

Once a wheelie bin is attached, the effective swing radius increases.

All measurements are taken without a bin fitted.

ELECTRICAL SCHEMATIC

