

# SAFE WORK PROCEDURES BOOM LIFT

### **SPECIAL INSTRUCTIONS:**

- 1. Persons should not operate a boom lift unless they have been instructed in the precautions to be observed and the safe use of the machine.
- 2. A Certificate of Competency for Boom type elevating work platform (class WP) is required to operate machines with boom length greater than 11 metres.
- 3. Carry out safety checks as listed in manufacturer's instructions before use of machine, or check log book for inspections on hired-in equipment.

Task sequence	Identified hazards in task	Key processes to be followed	Precautions / PPE required
1. Pre-start checks	Loss of power	Ensure that battery is fully charged before using an electric-powered boom	Do not use if battery power is low.
		lift for any working at heights.	Recharge battery before use.
		Check liquid levels (fuel, oil, coolant, hydraulic oil, etc) before operation.	Top up liquids if levels are low.
	Loss of control	Check all controls for correct operation before commencing use.	Check top and bottom controls.
	Risk of falls	Check all movements before commencing – should be smooth and steady.	Do not use if movements "jerky".
	Accidental movement	Check operation of brakes, stops, outriggers, etc to ensure that unit remains	Do not use if brakes or stops do
		steady when boom is extended.	not prevent all movement of unit.
		Ensure that guard fence and gate/s is secure and closes securely.	Check operation of gate latch.
		Ensure that suitable safety harnesses are available and that anchor points in	Safety harness must be worn by
		platform are in sound condition.	persons in platform at all times.
2. Safety Harnesses and	Failure of components	All fall arrest harnesses must comply with Australian Standard AS 1891.1	Faulty or out-of-date equipment
Fall Arrest Devices		Industrial fall-arrest systems and devices – Safety belts and harnesses.	must not be used.
	Incorrect use and fitting	All persons required to use a safety harness must receive instruction and	Harnesses must be fitted
		training in their use before they are allowed to use the harness.	correctly for safety in use.
	Suspension trauma	Suitable equipment to rescue a person in the event of a fall must be available	Other persons on site must be
		within a short period to minimise risk of suspension trauma.	instructed in rescue procedures.
3. Travel	Instability	Check path that machine will be traversing to ensure adequate clearance and	Remove obstacles and cover
		that surface will not cause machine to become unstable when travelling.	voids, drains, etc.
		Ensure that boom is retracted and lowered for travelling.	Check for clearance for boom.
		Reduce speed when turning corners, on rough surfaces or where visibility is	Always travel at safe speed.
		restricted (eg, blind corners, etc).	Corner at slow speed only.
		Boom should be lowered before moving unit even for short distances.	Do not travel with boom raised.
		Keep body fully within confines of cage when traversing.	Ensure that gates on cage closed.
<b>4.</b> Security of worksite	Collision	Use barricades, traffic cones and signs, etc, to prevent collision of other	Use signs barricades, cones, etc, to
		plant or vehicles working in vicinity with boom lift.	protect work area.
		Isolate and tag out travelling overhead cranes in area where boom lift used.	Prevent movement of cranes.
	Falling objects	Prevent access of persons into vicinity of machine when boom is raised.	Prevent unauthorised entry.
	Unauthorised use	Store machine in secure area, lower fully, and remove key on completion.	Prevent unauthorised use.

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5. Electrical hazards	Electric shock	Inspect work area to identify location of overhead electrical installations.	Keep safe distance from electric
		Keep safe distance from electricity wires unless specifically authorised to	catenary wires at all times.
		access or carry out electrical work. <b>Observe safe clearance distances</b> .	Ensure at least .5m clearance of
		Ensure that electric wires are de-energised or insulated with matting and	tools or equipment from LV wires.
		identified with "tiger tails" before work commences.	
		Post competent observer when operating in vicinity of live electric wires.	
<b>6.</b> Working at heights	Instability	Ensure that unit is on level surface (or is levelled with outriggers if working	Ensure that unit is parked on a
		on uneven surfaces) before raising boom.	stable, firm surface before raising.
	Persons falling	Persons in EWP bucket must wear appropriate safety harness which will	Parachute type harness only to
		prevent them falling to ground or on to any part of the machine.	be worn – belts <b>must not</b> be used.
		Do not over-reach out beyond confines of cage when working at heights.	Do not open gates when elevated.
		Do not "rock" unit when platform is raised.	Avoid sudden or jerky movement.
		Ensure that gates on platform guard rails are closed and locked in place.	Do not sit, stand or climb on
	Overloading of platform	Ensure that total load in bucket of EWP (including personnel tools and	platform guard rails.
		equipment, and materials) does not exceed the safe working load of the unit.	Never exceed the safe working
		Do not use boom lift as a crane to lift materials – loads must be carried	load of the EWP.
		within confines of platform cage.	
		Do not tie boom or platform to adjacent structures.	Do not place loads outside
	Falling objects	Use lanyards, etc, to prevent tools and materials falling during use.	perimeter of platform,
7. Maintenance of electric	Fire/explosion risk	Avoid shorting of terminals when inspecting or maintaining battery packs.	Remove rings, watches, etc before
boom lifts		Use approved battery charger set to correct voltage to charge batteries.	working on batteries.
	Instability of machine	Do not replace batteries with batteries that weigh less than those originally	Ensure that total weight of battery
		fitted to machine (used a counterweight, and critical to machine stability).	pack is at least approved minimum
	Harmful contact or exposure	Avoid spilling or contacting battery acid – neutralise spills and flush area.	Wear <b>eye and hand protection</b> .
		Battery pack must remain in upright position at all times.	Avoid tipping or dropping battery.
		Do not expose batteries or charger to water or rain.	Recharge in protected area only.

## PRECAUTIONS:

The following precautions are to be observed when operating or working in the vicinity of elevating work platforms and boom lifts.







Maintenance of battery packs in electric boom lifts



