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### FEATURE REQUIREMENTS

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| **ALL OPERATOR CONTROLS RETURN TO NEUTRAL AND ARE CLEARLY MARKED** | Shall comply with AS 1418.15-1994, section 7.1.1 Controls, specifically sub sections (a) and (b);  
(a) They shall be positioned so that operator confusion and inadvertent physical interference is prevented.  
(b) Their functions shall be clearly displayed. Labelling shall be in English. It is recommended that these also be diagrammatic. |
| **FIRE EXTINGUISHER & BRACKET**              | The equipment shall be equipped with a portable dry chemical (ABE) fire extinguisher containing a minimum 4.5 kg of extinguishing agent.  
The extinguisher/s should be:  
- Fitted in an easily accessible, secure, ground level location  
- Fitted with legible instructions and coloured correctly (i.e. red with white band)  
- Fitted with a pressure gauge and hose to assist accessing awkward areas  
- Maintained in accordance with AS 1851  
Note: This is a minimum requirement. Specific requirements for extinguisher type and/or capacity may be defined by certain work activities or sites |
| **LOCKABLE BATTERY ISOLATION SWITCH C/W IDENTIFICATION DECAL** | A means of immobilising the equipment by isolating the battery so the equipment cannot be started and/or operated by an unauthorised person. The isolation switch must be lockable, resistant to weather and clearly identified (i.e. isolator decal).  
Required Colour: Battery Isolator – Red |
| **EMERGENCY STOP BUTTON/S THAT IMMEDIATELY STOP ALL MOVEMENTS AND PUMPS C/W IDENTIFICATION DECAL** | Shall comply with AS 1418.15-1994, section 7.1.1 Controls, specifically sub section (c);  
(a) An emergency stop control shall be located at each control station (including remote stations) and at the rear of the carrier, accessible from the ground level. The emergency stop control shall be 50 mm minimum diameter, mushroom-headed, coloured red and prominently labelled. The emergency stop control shall stop and isolate all motions.  
(b) Are of “stop and Lock-off” type: so that the plant cannot be restarted after an emergency unless the stop control has been reset. |
| **GUARDING (ENGINE, ROTARY PARTS, HEAT SHIELDS, SOUND CLADDING)** | Guarding is in place, mitigating operator exposure to moving and/or hot parts and conform to National Standard for Plant NOHSC: 1010 (1994), clause 7, 8, 9 & 10 and, in addition, Select Plant Hire E-G-8-0533i Equipment Safe Guarding Standard.  
Decibel rating clearly noted for sound. |
| **WHEEL CHOCKS WITH SECURE CARRYING MOUNTS (FOR RUBBER TYRED EQUIPMENT)** | Rubber and compatible with equipment size and requirements. Shall be secured to equipment with bracket to prevent unintended movement when not in use. |
| **DUNNAGE IN NEW CONDITION AND CODE COMPLIANT** | New condition, minimum width of 200mm and thickness of 75mm. |
Concrete Placing Equipment Minimum Standards

**EARTH SAFETY CHAIN AVAILABLE (FOR PLACING BOOM)**

Shall comply with AS 1418.15-1994, section 8 Equipment, specifically sub section 8.4 Earthing Chain;

"An earthing chain, having link material of at least 10 mm diameter, shall be fitted. The earthing chain should be bolted or welded to the carrier chassis and be of sufficient length to allow at least 1 m of chain to be in contact with the ground when the equipment is set up on outriggers".

**SAFE ACCESS (THREE POINTS OF CONTACT)**

Suitably designed access with hand rails shall be fitted to prevent trips and falls from height occurring when accessing plant and equipment. They shall be manufactured from metal.

Mast sectioned Static Pumps, to satisfy requirements of WHS working at heights:

Examples: Ladder Hoop’s & Fall arrest system for ladder access

**SAFETY DECALS IN PLACE**

Shall comply with AS 1418.15-1994, section 13 Marking and Manuals, in particular sub section 13.2 Informative Notices. They shall include:

- **WARNING DO NOT STAND ON GRATES**
- **WARNING: NEVER ALLOW HANDS NEAR THE CONCRETE VALVE. STOP THE ENGINE / MOTOR & REALISE ACCUMULATOR PRESSURE (WHERE FITTED) BEFORE CLEANING / SERVICING CONCRETE VALVE ASSEMBLY**
- **DANGER: DO NOT OPERATE UNLESS: WITHIN 1M OF THE FIXED CONTROLS**
- **CAUTION: CONCRETE PLACING BOOM NOT TO BE USED AS A CRANE**
- **DANGER BEWARE OF OVERHEAD ELECTRICAL HAZARDS**

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Shall comply with AS 1418.15-1994, section 13 Marking and Manuals, in particular sub section 13.2 Informative Notices. They shall include:

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**AIR COMPRESSOR PRESSURE RELIEF VALVE WITHIN TEST DATE (IF APPLICABLE)**

Shall comply with AS 3788:2006 Pressure Equipment in Service Inspection and relevant WHS Regulations.

**AIR RECEIVER WITHIN TEST DATE (IF APPLICABLE)**

Shall comply with AS 3788:2006 Pressure Equipment in Service Inspection and relevant WHS Regulations.

**CONCRETE HOPPER GRATING**

- **MUST BE INTERLOCKED (AGITATOR CANNOT BE PUT IN MOTION UNLESS THE GRATING IS FULLY CLOSED)**
- **BARS NO GREATER THAN 75MM APART**
- **BARS 100MM (AT LEAST) FORM THE TOP SURFACE OF THE GRATING TO ANY MOVING PART**

Shall comply with AS 1418.15-1994, section 10 Guarding, specifically sub section 10.2 Concrete Hoppers;

"All concrete hoppers shall be suitably guarded. Grating bars shall not be further apart than 75 mm and the distance from the top surface of the grating to any moving part shall be at least 100 mm. Hopper grating shall be interlocked so that the agitator cannot be put in motion unless the grating is in the fully closed position”.

**ALL PIPELINE SEGMENTS ARE CLEARLY IDENTIFIED WITH A PERMANENTLY FIXED UNIQUE IDENTIFICATION MARK OR NUMBER**

Shall comply with AS 1418.15-1994, section 9.5 Marking, specifically sub section (a);

(a) Identification of each pipeline segment shall be by means of a unique identification mark or number, nominal pipe size, designated ‘pipe diameter’ and date of application (month and year). The identification shall be applied prior to being placed in service.

**PIPE CLAMPS FITTED AND C/W LOCKING PINS SUCH AS R-TYPE OR EQUIVALENT**

Shall comply with AS 1418.15-1994, section 9.6.7 Hose clamps; “Hose clamps shall be designed to withstand not less than the bursting pressure of the hose”.

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The LORRA Way E-P-8-0522h Concrete Placing Equipment Minimum Standards v4 (Revised August 2017)

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### Concrete Placing Equipment Minimum Standards

**END HOSE SECURED BY A SAFETY CHAIN, SLING OR OTHER RETAINING DEVICE (WHEN CONNECTED TO A BOOM)**

Shall comply with AS 1418.15-1994, section 9.6.6 Safety Retainer;

- Safety retainers shall be provided between all sections of pipe—
  - (a) suspended from booms;
  - (b) outlets from peristaltic type pumps; and
  - (c) suspended hoses.

Identifiable safety retainers shall be attached to suitable robust anchorages. Reducers shall have suitable compensation plates to which the anchorages are welded. Safety retainers shall be attached to the flexible hose independent of the tail clamping ring.

The minimum size of safety retainers shall be as follows, or equivalent:

- (a) Wire rope—grade 1770, AS 3569 . . . . . . . . . . . . . . . . . . . . . . . . 10 mm
- (b) Load chain—grade T or 8, AS 3775 . . . . . . . . . . . . . . . . . . . . . . . . 5.6 mm
- (c) Load chain—low tensile . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 11 mm

Chains shall not be secured by welding.

### ADDITIONAL LORA PROCUREMENT REQUIREMENTS – CONCRETE PLACING EQUIPMENT

**ASSET IDENTIFICATION STICKERS (SELECT OWNED ASSETS ONLY)**

- **Asset Decals:** Black lettering on a white background, non-reflective adhesive backed decal
- **Suggested Size:** 200 x 100mm
- **Installation:** Evenly applied to LH and RH side of asset

### DOCUMENTATION MINIMUM REQUIREMENTS (paper or electronic – must be available at the time of mobilisation)

- **OPERATORS MANUAL**
  - OEM operators manual available and in good condition.
- **PLANT RISK ASSESSMENT**
  - Specific to make and model of equipment.
- **DAILY PRE-START BOOK**
  - Specific to category of equipment.
- **SERVICE HISTORY**
  - Previous 3 months of preventative maintenance and repairs.
- **PLANT REGISTRATION**
  - Worksafe Registration, relevant to type of equipment i.e. truck mounted concrete placing boom
- **PLANT LOGBOOK**
  - Located with unit, used to record pipe thickness test results.
- **PIPE THICKNESS TEST RESULTS**
  - Monthly line thickness test results (pipe log book shall record wall thickness and pressure details)

### PROJECT / SITE / CLIENT SPECIFIC REQUIREMENTS

- **WHEEL NUT INDICATORS**
  - Fitted to wheel nuts to help identify any loose nuts, preventing the possibility of wheel detachment. Indicators should be of a suitable design and yellow in colour.
- **MINE FLAG (MINIMUM HEIGHT FROM GROUND OF 3M)**
  - Mine flags help improve plant and equipment visibility when operating on work sites. A detachable mine flag (whip flag) shall be fitted to the highest and most visible point (i.e. light bar, FOPS, etc.)
  - Features:
    - Constructed from strong material (i.e. fibreglass)
    - High Vis markings
    - red LED for night driving (located at highest point of flag)
  - Quick release coupler
## CALL SIGNS (HIGH VIS OR STANDARD)

-used for communication purposes between road users.

**Call Sign Decals:** Typically, black lettering on a reflective yellow high vis background (high vis version) or black lettering on silver or white non-reflective background (standard, non-mine spec)

**Suggested Size:** 500 x 250mm

**Installation:** Evenly applied to LH, RH and rear of asset

## AUTOMATIC GREASING SYSTEM

-OEM supplied and fitted. Typically fitted to larger equipment and shall have accessible locations for servicing and refilling purposes.

## SPARE TYRE

-Unused, in good condition and compatible with the equipment it is intended for.

## SPILL KIT

-General vehicle spill kit design to assist in small fluid (i.e. oil or coolant) spills. The spill kit bag shall be weather proof to avoid damaging contents.

## REFLECTIVE TAPE

-Material: The tape shall be weather resistant with a reflective surface and adhesive back

**Size:** Minimum 50mm wide

**Installation:** One strip evenly applied to LH and RH side and rear of the equipment

## LOCKABLE STARTER ISOLATION SWITCH C/W IDENTIFICATION DECAL

-A means of immobilising the equipment starter. The isolation switch must be lockable, resistant to weather and clearly identified.

**Required Colour:** Starter Isolator – Yellow

## WEED AND SEED

-A statutory declaration for all Plant and Equipment that they are clean and free from weed and seeds. This is to confirm that the Plant and Equipment has not gone through areas with weed and in particular (parthenium weed or giant rat's-tail grass). If the item has gone through areas of this weed, a clean down certificate will be required.