



## New South Wales Class 1 All Terrain Mobile Crane and Dolly Combination Operator's Guide

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## 1. Purpose

The New South Wales Class 1 All Terrain Mobile Crane and Dolly Combination Operator's Guide (the Operator's Guide) complements the New South Wales Class 1 All Terrain Mobile Crane and Dolly Combination Mass and Dimension Exemption Notice (the Notice).

An eligible vehicle must comply with the requirements of the Notice, including Schedule 8 of the Heavy Vehicle (Mass, Dimension and Loading) National Regulation, and the Operator's Guide.

## 2. Definitions

- (1) Unless otherwise stated, words and expressions used in this Operator's Guide have the same meanings as those defined in the HVNL and the Notice.
- (2) In this Operator's Guide:

**NSW Urban Zone** means the area/zone displayed as the NSW Urban Zone on the map and/or list titled 'NSW Special Purpose Vehicle Network'.

**Newcastle Inner Zone** means the area/zone displayed as the Newcastle Inner Zone on the map and/or list titled 'NSW Special Purpose Vehicle Network'.

**Newcastle Outer Zone** means the area/zone displayed as the Newcastle Outer Zone on the map and/or list titled 'NSW Special Purpose Vehicle Network'.

**Limited Access Locations** means locations displayed as Limited Access Locations on the map and/or list titled 'NSW Special Purpose Vehicle Network'.

**Limited Access Zones** means zones displayed as Limited Access Zones on the map and/or list titled 'NSW Special Purpose Vehicle Network'.

**Restricted Structures** means bridges or structures displayed as Restricted Structures on the map and/or list titled 'NSW Special Purpose Vehicle Network'.

**Restricted Structures with Conditional Access** means bridges or structures displayed as Restricted Structures with Conditional Access on the map and/or list titled 'NSW Special Purpose Vehicle Network'.

## 3. Operating conditions

- (1) In accordance with section 15 of the Notice, an eligible vehicle must be enrolled and monitored in the Intelligent Access Program (IAP) or Telematics Monitoring Application (TMA) with Transport Certification Australia (TCA) in accordance with Chapter 7 of the HVNL.
- (2) A current Certificate of Enrolment issued by TCA must be carried in the vehicle to which clause 3(1) of this Operator's Guide applies and be produced when requested to do so by a Police Officer or an Authorised Officer.
- (3) Note: A Certificate of Enrolment is issued by TCA when the vehicle is enrolled in and monitored by the IAP or TMA in New South Wales.
- (4) An eligible vehicle must be enrolled and monitored in the IAP or TMA SPV Level network(s) in accordance with clause 3(1) and (4) of this Operator's Guide.
- (5) The registered operator of the vehicle (or person acting on behalf of the registered operator, including the driver) that is enrolled and monitored on more than one SPV Level access network for an eligible vehicle must self-declare when travelling on the SPV Level access network of operation, if the registered operator also has an IAP or TMA Certificate of Enrolment for the vehicle for a

corresponding SPV Level access network. Self-declaration is required in accordance with the requirements in clause 3(5). Self-declaration is not required if the SPV is only enrolled in one TCA SPV Monitoring Scheme and does not change configuration. Eligible vehicles operating under this notice may operate on the networks specified in section 18 of the Notice.

- (6) The registered operator of the vehicle (or a person acting on behalf of the registered operator, including the driver) that is enrolled in more than one TCA SPV Monitoring Scheme must self-declare in accordance with TCA's Scheme requirements using a user interface certified by TCA or a Self Declaration Input Device (SDID) certified by TCA or an alternative method approved and certified by TCA.
- (7) An eligible vehicle that is operating in the night-time that is –
  - a. wider than 3.2m or longer than 26.0m requires one pilot vehicle; or
  - b. wider than 3.5m or longer than 30.0m requires two pilot vehicles; or
  - c. wider than 5.5m or longer than 35.0m requires three pilot vehicles; and
  - d. equal to, or wider than, 6m or equal to, or longer than, 45.0m also requires an escort vehicle.
- (8) An eligible vehicle that is operating in the day-time that is –
  - a. wider than 3.5m or longer than 26.0m requires one pilot vehicle; or
  - b. wider than 4.6m or longer than 30.0m requires two pilot vehicles; or
  - c. wider than 5.5m or longer than 35.0m requires three pilot vehicles; and
  - d. equal to, or wider than, 6m or equal to, or longer than, 45.0m also requires an escort vehicle.

## 4. ARTC Level Crossings - Cross with Caution

- (1) Take precautions to NEVER STOP ON OR WITHIN THREE METRES of the railway tracks. Reduce the chance of your vehicle striking/damaging boom barriers on the level crossing by:
  - NOT entering the railway crossing unless the vehicle can be immediately driven clear of the crossing.
  - Anticipating that traffic may form a queue on the outgoing side of the crossing, preventing adequate clearance for your vehicle.
  - Allowing additional space between your vehicle and the vehicle ahead to allow additional time to respond to queuing traffic.
  - Driving at a slower speed than that of queuing traffic ahead.
  - Avoid stopping the vehicle immediately before the Level Crossing (i.e. right on stop line) when it is NOT operating (However, always stop prior if there is insufficient room to immediately drive clear).
- (2) Be prepared to stop the vehicle well in advance of the level crossing by:
  - Observing for Road signage/markings that indicate Level Crossing is approaching on road ahead.
  - On approach – slowing vehicle to below sign posted speed limit – to reduce required stopping distance.

- Anticipating that the Level Crossing could start to operate at any time – to reduce response/reaction time.
- (3) If for some reason the vehicle breaks down and is fouling a crossing or is near a crossing or damages a crossing or other ARTC infrastructure the first thing that must be done is to phone 000 advising the location so they can advise on next steps required.
  - (4) If for some reason your load damages a crossing or other ARTC infrastructure, and is not an emergency, phone local police on 131 444 and make a report so they can advise ARTC for repair or replacement.

## 5. Stated areas and routes

- (1) An eligible vehicle may only travel on the SPV Level 2 network.

**Note:** The SPV networks may be accessed at: <https://maps.nhvr.gov.au/>.

## 6. Areas and route conditions

- (1) An eligible vehicle operating under this Notice must comply with any conditions displayed as 'Travel conditions exist on this route' on the map and/or list titled 'NSW Special Purpose Vehicle Network'.
- (2) An eligible vehicle must not travel in a Clearway or Transit Lane between Monday and Friday (except on state-wide public holidays) between the hours of 6:00am and 10:00am and between the hours of 3:00pm and 7:00pm.
- (3) An eligible vehicle must not travel on any classified State Road within the NSW Urban Zone between Monday and Friday (except on state-wide public holidays) between the hours of 7:00am and 9:00am and between the hours of 4:00pm and 6:00pm.
- (4) Notwithstanding clause 5(3) of this Operator's Guide, an eligible vehicle not exceeding 3.2m in width may operate in the Newcastle Outer Zone during peak hour times specified in clause 5(3) of this Operator's Guide. An eligible vehicle exceeding 3.2m in width must not travel within the Newcastle Outer Zone on any classified State Road during the peak hour times specified in clause 5(3) of this Operator's Guide.
- (5) An eligible vehicle may travel between sunset and sunrise.
- (6) An eligible vehicle must not travel on or through a Limited Access Location or Limited Access Zone displayed as 'Limited Access Locations' or 'Limited Access Zones' on the map and/or list titled 'NSW Special Purpose Vehicle Network' if the vehicle exceeds one or more of the dimension limits as displayed on the Location or Zone and in accordance with any conditions that apply.
- (7) An eligible vehicle must:
  - a. Not travel over a bridge or structure displayed as 'Restricted Structures' on the map and/or list titled 'NSW Special Purpose Vehicle Network'.
  - b. Only travel over a bridge or structure displayed as 'Restricted Structures with Conditional Access' on the map and/or list titled 'NSW Special Purpose Vehicle Network' in accordance with any conditions that apply.
- (8) When travelling across a bridge, an eligible vehicle must along the centre of the carriageway at a steady speed not exceeding 10km/h.

## 7. Approved 6-axle crane and dolly configurations

An eligible 6-axle all terrain crane and dolly combination exceeding 70 tonnes must comply with the following mass and internal dimension requirements listed in the tables below. These configurations have had a bridge assessment by TfNSW to confirm their suitability to operate on the SPV Level 2 network. The table of approved configurations will be amended from time to time as configurations have a bridge assessment by TfNSW to confirm their suitability to operate on the SPV Level 2 network. A 6-axle All Terrain Crane and dolly combination exceeding 70 tonnes that does not meet approved configurations in the tables below must apply for an access permit to the National Heavy Vehicle Regulator (NHVR).

Transport for New South Wales Bridge and Structural Engineering Unit has reviewed and approved the use of tyres with a minimum section width of 406mm, provided that the minimum ground contact width measurement listed in the tables below is met.

**Configuration Number 1**

Configuration	Axle number	Number of tyres	Minimum distance from previous axle (mm)	Minimum ground contact width (mm)	Minimum tyre size (mm)	Maximum axle mass (kg)
6-axle crane	1	2		2900	445	7640
	2	2	1700	2900	445	7640
	3	2	3200	2900	445	8705
	4	2	1650	2900	445	8705
	5	2	2450	2900	445	8705
	6	2	1650	2900	445	8705
3-axle dolly	7	4	5000	2980	279	8833
	8	4	1524	2980	279	8833
	9	4	1524	2980	279	8833
Total mass						76599

**Configuration Number 2**

Configuration	Axle number	Number of tyres	Minimum distance from previous axle (mm)	Minimum ground contact width (mm)	Minimum tyre size (mm)	Maximum axle mass (kg)
6-axle crane	1	2		2970	445	7800
	2	2	1700	2970	445	7800
	3	2	3500	2970	445	9300
	4	2	1650	2970	445	9300
	5	2	2450	2970	445	9300
	6	2	1650	2970	445	9300
3-axle dolly	7	4	5970	2980	279	8800
	8	4	1500	2980	279	8800
	9	4	1500	2980	279	8800
Total mass						79200

**Configuration Number 3**

Configuration	Axle Number	Number of Tyres	Minimum distance from previous axle (mm)	Minimum ground contact width (mm)	Minimum tyre size (mm)	Maximum axle mass (kg)
6-axle crane	1	2		3000	445	8110
	2	2	1650	3000	445	8070
	3	2	3100	3000	445	9010
	4	2	1650	3000	445	8900
	5	2	2440	3000	445	9010
	6	2	1650	3000	445	8740
3-axle dolly	7	4	5737	3000	279	8570
	8	4	1600	3000	279	8440
	9	4	1600	3000	279	7910
Total Mass						76760

**Configuration Number 4**

Configuration	Axle number	Number of tyres	Minimum distance from previous axle (mm)	Minimum ground contact width (mm)	Minimum tyre size (mm)	Maximum axle mass (kg)
6-axle crane	1	2		3000	445	7560
	2	2	1650	3000	445	7470
	3	2	3100	3000	445	9200
	4	2	1650	3000	445	9070
	5	2	2440	3000	445	8890
	6	2	1650	3000	445	8700
3-axle dolly	7	4	6017	3000	279	8840
	8	4	1350	3000	279	8850
	9	4	1350	3000	279	9010
Total mass						77590



### Configuration Number 5

Configuration	Axle number	Number of tyres	Minimum distance from previous axle (mm)	Minimum ground contact width (mm)	Minimum tyre size (mm)	Maximum axle mass (kg)
6-axle crane	1	2		2920	445	5570
	2	2	1650	2920	445	5570
	3	2	3010	2920	445	10090
	4	2	1650	2920	445	10090
	5	2	2440	2920	445	7920
	6	2	1650	2920	445	7920
3-axle dolly	7	4	4730	3030	279	9830
	8	4	1200	3030	279	9830
	9	4	3440	3030	279	8060
Total mass						74880

## 8. Key contacts

Key third party contacts and their contact details are available at: <https://www.nhvr.gov.au/road-access/access-management/third-parties-and-other-entities-contact-information>.

## 9. Further information

Please refer to the *New South Wales Class 1 Mobile Crane and Dolly Combination Mass and Dimension Exemption Notice* which can be found at: <https://www.nhvr.gov.au/law-policies/notices-and-permit-based-schemes/state-hvnl-notices>.

#### For more information:

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