

### National Class 1 Special Purpose Vehicle Notice 2016

This document provides information on Special Purpose Vehicles (SPVs) which are approved to operate under the National Class 1 Special Purpose Vehicle Notice 2016 (National SPV Notice). Please refer to the National SPV Notice for the legal requirements of operating under this Notice.

#### Purpose of the SPV notice

The National SPV Notice establishes a consistent framework for SPV operations by harmonising access and vehicle standards exemptions conditions in all participating jurisdictions. This Notice will drastically reduce the number of permits required to operate SPVs in Australia. Permits will still be required for SPVs that are not eligible to operate under the Notice and to access roads which are not part of the approved SPV network.

#### What are Class 1 SPVs?

A SPV is a vehicle built for a purpose other than carrying goods such as a mobile crane, a concrete pump or drill rig. Agricultural vehicles and tow trucks are not SPVs. A SPV that exceeds one or more of the general mass and dimension limits set out in the Heavy Vehicle Mass, Dimension and Loading National Regulation (the National Regulation) is a Class 1 restricted access heavy vehicle.



#### SPVs operating under this notice

This Notice applies to heavy motor vehicles which are Class 1 SPVs and which meet the conditions and requirements set out in the Notice, including state schedules. It does not apply to special purpose combinations or trailers.

#### Dimension requirements

SPVs operating under the National SPV Notice are exempt from compliance with certain prescribed dimension requirements set out in Schedule 6 of the National Regulation. However, they must meet a set of dimension requirements specified in the National SPV Notice. Relevant key dimension requirements are outlined in Table 1.

TABLE 1 KEY DIMENSION LIMITS

Dimension	Limit
Height	4.6m
Width	3.5m (vehicle standard exemption not applying to SPVs which are not mobile cranes and exceeding 2.5m in width)
Length	14.5m
Projection in front of the centre of the steering wheel for any SPV but mobile cranes	3.5m
Projection in front of the centre of the steering wheel for mobile cranes	5.5m
Rear Overhang (measured as the distance from the centre of the last two axles to the rear of the vehicle for 3-axle all terrain cranes)	Lesser of 4m or 90% of the wheelbase
Rear Overhang for concrete pumps meeting PBS Level 1 tail swing and low speed swept path performance (subject to conditions specified in notice)	May exceed 4.0m without exceeding 4.5m

#### Mass requirements

##### Total vehicle mass

The total mass of a SPV must not exceed the lesser of:

- The gross vehicle mass (GVM); and
- The sum of the mass limit for each single axle and axle group on the vehicle (limited by the tyre width of the narrowest tyre on the axle); and
- 40 tonnes; and

- d. The mass worked out using the Gross Mass Limit Formula: **Mass in tonnes = (3 x L) + 15 ±G** where:

"L" is the distance in metres between the centre lines of the vehicle's foremost and rearmost axles; and

"±G" is a number of tonnes

- to be added at the rate of 1 tonne for each 100mm by which the ground contact width of the heaviest axle or axle group exceeds 2.5m; or
- to be subtracted at the rate of 1 tonne for each 100mm by which the ground contact width of the heaviest axle or axle group is less than 2.4m.

**Note:** 3-axle all terrain mobile cranes are exempted from compliance with the Gross Mass Limit Formula in NSW.

**Note:** In addition to the above limits, specific mass-related requirements apply to 2 and 3-axle all terrain mobile cranes.

### Other key mass requirements

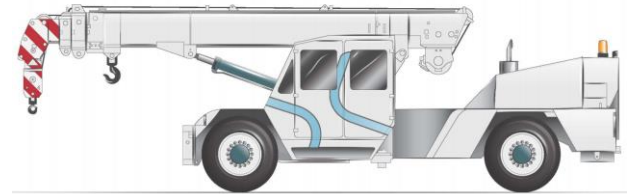
SPVs operating under the National SPV Notice are exempted from compliance with certain prescribed mass requirements set out in Schedule 1 of the National Regulation. They still must meet a set of mass requirements specified in the National SPV Notice. Relevant key mass requirements are outlined in Table 2. Please refer to the National SPV Notice for a comprehensive list of mass requirements applicable to SPVs operating under the Notice.

TABLE 2 KEY MASS LIMITS

Mass	Limit
Single axle or single axle group fitted with single tyres on:	
▪ all terrain mobile cranes	12.0 t
▪ any other SPV	7.0 t
Single axle or single axle group fitted with dual tyres on:	
▪ pick and carry cranes	12.0 t
▪ any other SPV	10.0 t
Twinsteer axle group:	
▪ without a load-sharing suspension system	10.0 t
▪ with a load-sharing suspension system	16.0 t
Tandem axle group fitted with single tyres	14.0 t
Tri- axle group fitted with single tyres	18.0 t
Tandem axle group and tri-axle group fitted with dual tyres	Dependent on axle group spread and ground contact width.

## Warning lights and markings

Further to the requirements of Schedule 8 of the National Regulation that apply to all Class 1 heavy vehicles, SPV operators wishing to operate under the National SPV Notice may be required to fit their vehicles with additional warning lights and markings. These requirements are outlined in Part 5 of the National SPV Notice.



## SPV operations in NSW

There are four legal instruments for SPV access in NSW:

- ❖ Heavy Vehicle National Law including Heavy Vehicle (Mass Dimension & Loading) National Regulation).
- ❖ National SPV Notice
- ❖ NSW Class 1 Special Purpose Vehicles Notice 2014 (NSW SPV Notice)
- ❖ Access permits

### National SPV Notice

If operating under the National SPV Notice, a permit is not required for a SPV complying with the relevant requirements of the Notice and travelling on an approved route. Some vehicle and route conditions are specific to each state. These conditions are set out in state schedules which are part of the National SPV notice. For instance, in NSW a mobile crane exceeding 2.50 metres in width must be enrolled and monitored in the Roads and Maritime Services [Intelligent Access Program](#) (IAP) to operate under this Notice. Mobile cranes that require IAP will continue to require a Certificate of Enrolment issued by Roads and Maritime (RMS).

In NSW, SPVs meeting the relevant mass and dimension requirements set out in the Notice and the NSW schedule will be able to operate on two networks:

- ❖ **SPV Level 3 Approved Routes** for 3-axle all terrain mobile cranes.
- ❖ **SPV Level 1 Approved Routes** for SPVs other than 3-axle all terrain mobile cranes.

A vehicle that exceeds 4.3 metres in height but not 4.6 metres must only travel on routes that are also approved for 4.6 metre high vehicles as displayed on the map and/or list titled 'NSW Special Purpose Vehicle Network'.

The 'NSW Special Purpose Vehicle Network' is published as an interactive map on the RMS website that can be accessed via the NSW Schedule of the National SPV Notice.

### NSW SPV Notice

The NSW SPV Notice will continue to provide access in NSW, as there are differences in the types of SPVs that can operate under the NSW SPV Notice as well as differences in the routes/areas approved for access. Table 3 compares the mass/dimension limits of the National SPV Notice and the NSW SPV Notice.

TABLE 3 COMPARISON OF NATIONAL AND NSW SPV NOTICE

Dimension/Mass/Access	National SPV Notice Limit	NSW SPV Notice Limit
Height	4.6m	4.6m
Width	3.5m (vehicle standard exemption not applying to SPVs which are not mobile cranes and exceeding 2.5m in width)	3.5m (2.5m for Truck-Based SPVs)
Length	14.5m (special purpose trailers or combinations not covered in National SPV Notice)	14.5m (single vehicle/trailer) 25.0m (special purpose combination)
Projection in front of the centre of the steering wheel for any SPV but mobile cranes	3.5m	3.5m
Projection in front of the centre of the steering wheel for mobile cranes	5.5m	3.5m
Rear Overhang (measured as the distance from the centre of the last two axles to the rear of the vehicle for 3-axle all terrain cranes)	Lesser of 4m or 90% of the wheelbase	Lesser of 4m or 90% of the wheelbase
Rear Overhang for concrete pumps meeting PBS Level 1 tail swing and low speed swept path performance (subject to conditions specified in notice)	May exceed 4.0m without exceeding 4.5m	Lesser of 4m or 90% of the wheelbase
Gross mass	40t	40t
Access	SPV Level 3 (3-axle all terrain mobile cranes) and SPV Level 1 (all other SPVs)	All state and council roads, subject to restrictions in Appendix 2

### Access permits

SPVs that are not eligible to operate under either the National SPV Notice or the NSW SPV Notice will continue to require an access permit to operate in NSW.

An access permit is required for a Class 1 SPV in the following circumstances in NSW:

- ❖ A SPV that complies with the mass and/or dimension limits of the National SPV Notice but is not travelling on an approved route, for example, a road that has not been approved by a local council. Access permit required from the NHVR or each relevant road manager.
- ❖ A SPV that does not comply with a mass and/or dimension limit in either the National SPV Notice or the NSW SPV Notice. Access permit required from the NHVR or each relevant road manager in NSW.
- ❖ To utilise the Urban Access Concession (UAC) scheme. Access permit required from the NHVR or RMS.
- ❖ A SPV operating under the National SPV Notice or NSW SPV Notice and which exceeds a mass and/or dimension limit for a Limited Access Location or Zone. Access permit required from the NHVR or each relevant road manager in NSW.

### Examples of SPV operations in NSW

Examples of how SPVs can operate in NSW under the National SPV Notice, NSW SPV Notice and access permits are provided below:

#### Example 1 – 3-axle all terrain mobile crane

A 3-axle all terrain mobile crane (2.7m wide, 12.5m long, 4.1m high and 36 tonnes) that exceeds the mass limits of the NSW SPV Notice but complies with the mass and dimension limits of the National SPV Notice can, if enrolled in the IAP:

- ❖ Operate on SPV Level 3 Approved Roads under the NSW Schedule of the National SPV Notice.
- ❖ Obtain an access permit to travel on roads that are not approved SPV Level 3 Approved Roads.

#### Example 2 – 2-axle all terrain mobile crane

A 2-axle all terrain mobile crane (2.6m wide, 3.1m high, 11.0m long, 2.8m forward projection and 14 tonnes) that complies with the mass and dimension limits of the National SPV Notice and the NSW SPV Notice is able to, if

enrolled in the IAP, operate on SPV Level 1 Approved Roads when operating under either Notice.

### **Example 3 – 4-axle all terrain mobile crane**

A 4-axle all terrain mobile crane (2.55m wide, 3.8m high, 2.1m forward projection and 48 tonnes) that exceeds the mass limits of the National SPV Notice and NSW SPV Notices cannot operate under either Notice. However, this crane may be able to operate under an access permit, if enrolled in the IAP, on SPV Level 4 Approved Roads or SPV Level 4 and 12 tonnes per axle, depending on axle widths and spacings when travelling on Roads and Maritime managed roads in NSW.

### **About the NHVR**

The National Heavy Vehicle Regulator (NHVR) is Australia's dedicated independent regulator for heavy vehicles over 4.5 tonnes gross vehicle mass.

### **For more information**

If you have any questions about the SPV notice, please contact the NHVR on **1300 MYNHVR (1300 696 487)** or email **info@nhvr.gov.au**



## Examples of SPVs which may be eligible to operate under the National SPV notice in NSW

**Note:** The 6-axle short combination is shown for reference only. The vehicle lengths shown below are typical lengths observed in today's fleet. They do not represent the maximum vehicle lengths under current regulations.

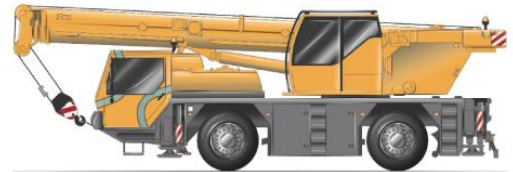
### 2-axle pick and carry crane

Typically approximately 10.0 m long



### 2-axle all terrain mobile crane

Typically approximately 10.2 m long



### 3-axle all terrain mobile crane

Typically approximately 11.4 m long



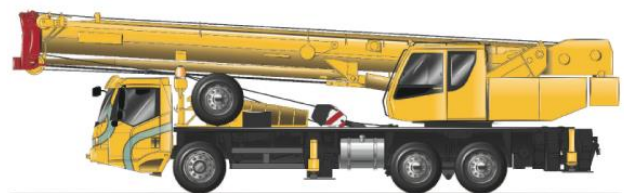
### 4-axle mobile concrete pump

Typically approximately 12.0 m long



### 3-axle truck crane

Typically approximately 12.5 m long



### 4-axle truck crane

Typically approximately 13.2 m long



### Short combination

Typically approximately 18.0 m long

