

General Mass Limits (GML)

What is GML?

General Mass Limits (GML) apply to all heavy vehicles.

GML states the mass limits for all types of heavy vehicle axle groups unless the vehicle is operating under an exception, an exemption (notice or permit), or PBS approval under the *Heavy Vehicle National Law* (HVNL).

Table 1 outlines some heavy vehicles and combinations and is not an exhaustive list.

Table 1: General Mass Limits for single vehicle or combination

| Description of vehicle or combination | Mass limit (t) |
|--|--|
| <ul style="list-style-type: none"> Complying bus without a trailer - <ul style="list-style-type: none"> If the bus has only 2 axles but is not an eligible 2-axle bus if the bus has a rear tandem axle group fitted with single tyres on 1 axle and dual tyres on the other axle but is not an eligible 3-axle bus if the bus has a rear tandem axle group fitted with dual tyres on all axles for a bus that is an ultra-low floor bus with no axle groups and only 2 single axles but is not an eligible 2-axle bus for an eligible 2-axle bus for an eligible 3-axle bus for a complying steer axle vehicle that is neither a B-double nor a road train for a Euro VI vehicle (complying steer axle) that is not a B-double for a Euro VI vehicle (single steer axle) that is not a B-double for a Euro VI vehicle (twinsteer) that is a prime mover with a twinsteer axle group towing a tri-axle semitrailer for a prime mover with a twinsteer axle group towing a tri-axle semitrailer for a vehicle that is not mentioned above and that is neither a B-double nor a road train | 16.0 20.0 22.5 16.0 18.0 22.0 43.0 43.5 43.0 47.0 46.5 42.5 |

Note: In a combination, the mass of a dog, pig or tag trailer **must not be more than the mass of the towing vehicle**. This in effect is a maximum of 1:1 tow mass ratio.

Mass limits for a vehicle with an axle space less than 2.5m






Where the axle spacing between two axles is less than 2.5m, the mass limit is 15t.




More information on common heavy vehicle combinations can be found at [Common Heavy Freight Vehicles Combination Chart](#).

Mass limits for a single axle or axle group

The mass on a single axle or axle group must not be more than the mass limit described below.

Table 2: Axle mass limits

| Axle | Description of single axle or axle group | Mass limit (t) |
|---|--|----------------|
|  | Single axles and single axle groups | |
| | Steer axles on - | |
| | • a complying bus that is not an eligible 2- axle bus or an eligible 3-axle bus | 6.5 |
| | • a complying steer axle vehicle | 6.5 |
| | • a hauling unit or prime mover forming part of a road train fitted with tyres with section widths of - | |
| | ○ at least 295mm | 6.5 |
| | ○ at least 375mm | 7.1 |
| | • an eligible 2-axle bus | 7.0 |
| | • an eligible 3-axle bus | 6.5 |
| | • Euro VI vehicle (complying steer axle) | 7.0 |
| | • Euro VI vehicle (single steer axle) | 6.5 |
| | • another motor vehicle | 6.0 |
| | Single axle or single axle group fitted with single tyres with section widths of - | |
| | • less than 375mm | 6.0 |
| | • at least 375mm but less than 450mm | 6.7 |
| | • at least 450mm | 7.0 |
|  | Single axle or single axle group fitted with dual tyres on - | |
| | • a pig trailer | 8.5 |
| | • a complying bus, or a bus authorised to carry standing passengers under an Australian road law, that is not an eligible 2-axle bus | 10.0 |
| | • an ultra-low floor bus with no axle groups and only two single axles that is not an eligible 2-axle bus | 11.0 |
| | • an eligible 2-axle bus | 12.0 |
| | • another vehicle | 9.0 |
| | | |
|  | Tandem axle group | |
| | Tandem axle group fitted with single tyres with section widths of - | |
| | • less than 375mm | 11.0 |
| | • at least 375mm but less than 450mm | 13.3 |
| | • at least 450mm | 14.0 |
|  | Tandem axle group fitted with single tyres on 1 axle and dual tyres on the other axle on - | |
| | • a complying bus that is not an eligible 3-axle bus | 14.0 |
| | • an eligible 3-axle bus with tyres on the axle fitted with single tyres that have a section width of at least 295mm | 15.5 |
| | • another motor vehicle | 13.0 |
|  | Tandem axle group fitted with dual tyres on - | |
| | • a pig trailer | 15.0 |
| | • another vehicle | 16.5 |

| Axle | Description of single axle or axle group | Mass limit (t) |
|---|--|----------------|
|  | Twinsteer axle groups | |
| | Twinsteer axle group without a load-sharing suspension system | 10.0 |
| | Twinsteer axle group with a load-sharing suspension system | 11.0 |
| | Euro VI vehicle (twinsteer) | 11.5 |
|  | Tri-axle groups | |
| | Tri-axle group on a vehicle fitted with - | |
| | <ul style="list-style-type: none"> single tyres with section widths of less than 375mm on all axles | 15.0 |
| | <ul style="list-style-type: none"> single tyres with section widths of less than 375mm on some axles and dual tyres on the other axles | |
| | Tri-axle group on a pig trailer fitted with - | |
| | <ul style="list-style-type: none"> single tyres with section widths of at least 375mm on all axles dual tyres on all axles single tyres with section widths of at least 375mm on some axles and dual tyres on the other axles | 18.0 |
|  | Tri-axle group on a vehicle other than a pig trailer fitted with - | |
| | <ul style="list-style-type: none"> single tyres with section widths of at least 375mm on all axles dual tyres on all axles single tyres with section widths of at least 375mm on some axles and dual tyres on the other axles | 20.0 |
| | Quad axle groups | |
| | Quad-axle group fitted with single tyres with section widths of less than 375mm | 15.0 |
| | Quad-axle group fitted with single tyres with section widths of at least 375mm or dual tyres | 20.0 |
| | Axle groups of 5 or more | |
| | Rear group of 5 or more axles on a low loader fitted with single tyres with section widths of less than 375mm | 15.0 |
| | Any other rear group of 5 or more axles on a low loader | 20.0 |

For more information:

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