

Reduce wear and unnecessary costs for your tyres and rims

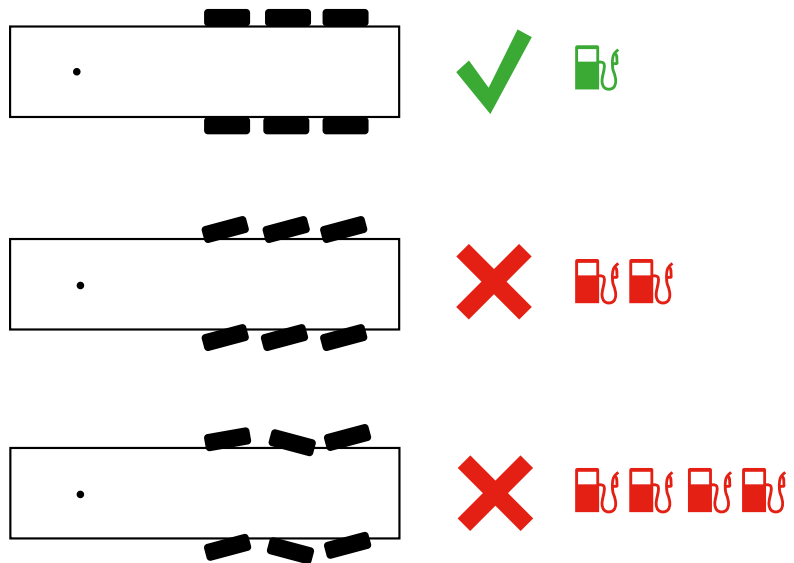


Preventive measures and careful maintenance of your tyres and wheel rims will reduce wear and as a result cut additional costs in your moving floor trailer. Correct wheel alignment, the ideal tyre pressure, careful tightening of wheel nuts and the use of the most suitable cleaning agent all play an important role. The specialists at Knapen Trailers are happy to advise you, so you are guaranteed the lowest costs of ownership, and maximum useful life

TIP 1

The importance of correct wheel alignment

By regularly aligning the wheels of your truck and moving floor trailer, once every 2 years, your vehicle combination will remain in perfect condition. Good wheel alignment also improves driver comfort and job enjoyment, with a trailer that follows your truck in perfect stability. Correct wheel alignment also reduces the roll resistance of the tyres, which in turn has a positive effect on your fuel consumption. It also prevents unnecessary wear on the tyres and increases their service life. During the alignment process, it is important to consider the parallel position of the axles, toe-in/toe-out and wheel camber. Your Knapen Trailers Service partner will offer all the assistance you need.



Example of parallel positioning of the axles (top view)

 **TIP 2**

Maintain the ideal tyre pressure





Research has shown that on average 16% of Europe's truck fleet drives with insufficient tyre pressure. By maintaining the correct tyre pressure, on average you can save between 0.5% - 2.5%* on fuel costs.

The correct tyre pressure also prevents unnecessary tyre wear. Not unimportantly, it also reduces the risk of blow-out, with all the unfortunate financial consequences.

We therefore recommend you check the tyre pressure yourself every week, with a calibrated pressure gauge. Follow the advice of your tyre supplier for the correct tyre pressure.



Check the tyre pressure of your vehicle combination every week; remember: follow the advice of your tyre supplier for the correct tyre pressure.

*Fuel saving	
Low tyre roll resistance	 10% 2 - 4%
Correct tyre pressure	 10% 0,5 - 2,5%
Correct alignment	 10% 0 - 4,5%

(Source: TNO-Innovation for life)



TIP 3

Check and tighten wheel nuts

On a new Knapen trailer, we recommend you check the wheel nuts after the first approx. 100 km. Upon returning home, the wheel nuts should once again be retightened as far as the recommended tightening torque, after your first laden trip. This is important because wheel movement in relation to the hub can generate so-called untightening forces. Without you noticing, the wheel nuts become looser which can eventually result in the entire wheel working free.

Even following this initial inspection and tightening moment, it is still advisable to check your wheel nuts every quarter. The table below show the tightening torques for each axle supplier. If your axle supplier is not listed, stick to the guidelines provided by your supplier.

Not only with a new trailer but also when replacing a wheel, the wheel nuts should be checked and retightened according to the guidelines above. When fitting new wheels, make sure that there is no grease on the

wheel nuts or wheel bolts and that the hubs are clean and corrosion free. If the rims are painted or coated, you must be extra alert to the risk of wheel nuts loosening, since this can reduce the contact surface between the wheel and the hub.

An easy tool for checking wheel nuts is a wheel nut indicator. Wheel nut indicators are specially developed to ensure that you can see at an early stage if a wheel nut is becoming loose. Simply attach the wheel nut indicators directly onto the wheel nuts and point them towards one another, in pairs. As soon as you see a change in the position of an indicator, you can act immediately. This helps avoid the (consequential) losses and costs of a breakdown.

An additional advantage is that the wheel nut indicator has a melting temperature of 123 °C. If the indicator melts, this could suggest hub or brake problems, such as a blocked brake lining or seized brake blocks.



Tightening torque in Nm wheel nuts steel rim	630	600	600	630
Tightening torque in Nm wheel nuts aluminium rim	630	600	600	630
Paint or coating permitted on the tightening surface	✗	✗	✗	✗





TIP 4

Maintain your rims

To keep your rims in tiptop condition, they must be cleaned regularly. Depending on the rim type, follow the advice below:

Aluminium rims:

You want to keep your aluminium rims clean and shiny, but aluminium rims are easily damaged by aggressive cleaning agents. By using the correct cleaning agent you can prevent the top layer being damaged, leading to a change in the appearance of the rim. Make sure you select a cleaning agent that is specified by your rim supplier. Always follow the instructions for use, carefully.

Steel rims:

For steel rims you need not purchase any special cleaning agents. You can simply use a regular shampoo with which you also clean your trailer. If you use a high-pressure cleaner, first read the instructions in [driver's tip 15: correct cleaning](#).



2 examples of cleaning agents suitable for aluminium rims.

SPARE PARTS

Would you like to order wheel nut indicators? Your [dealer](#) or [servicepartner](#) will be pleased to help!



60101920
Wheel nut indicator yellow SW32
Excluding wheel nut

Tip: Print out the drivers' tip and display it in the drivers' canteen, for all your colleagues.
Are you a driver working with moving floor trailer and do you have a useful tip for your colleagues? Submit your tip to marketing@knapen-trailers.nl and maybe we will publish it in the next newsletter.

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