



# Forged strength

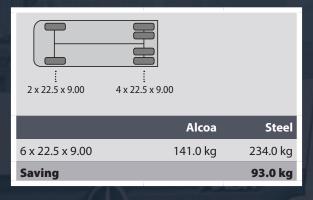


Alcoa wheels are forged from one single block of high strength aluminium alloy. They are 5 times stronger than steel wheels and withstand the most severe tests: LBF, TÜV, JWL-T.

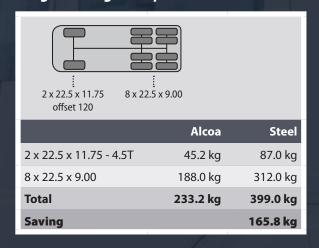


## Weight saving vs steel wheels

### Weight saving example 2-axle truck



### Weight saving example 3-axle truck



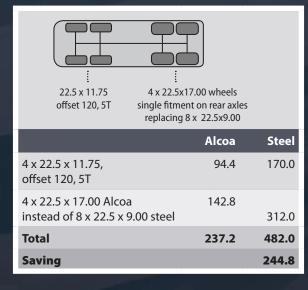


### Weight saving examples 4-axle truck

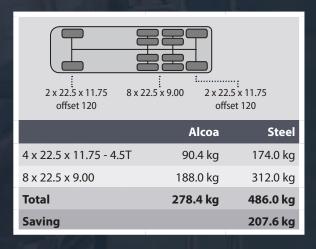






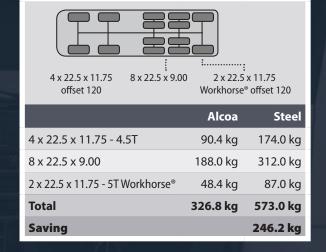






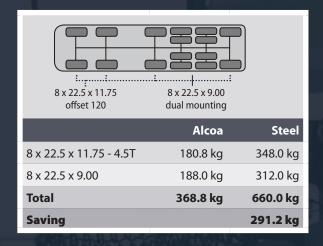


### Weight saving examples 5-axle truck





### Weight saving example 6-axle truck

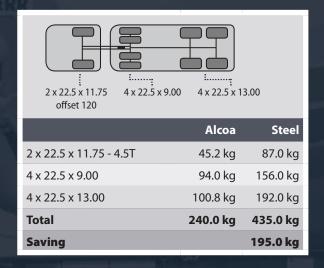








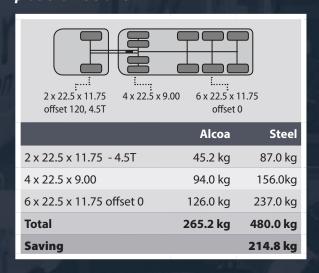
## Weight saving example 2-axle truck plus 2-axle trailer



# Weight saving example 3-axle truck plus 2-axle trailer



# Weight saving example 2-axle truck plus 3-axle trailer











## Alcoa forged aluminium wheels

#### Weight saving advantages

#### **Economical**

- More product transported in one trip = more payload = more profit
- Less fines for overloading; more and more countries install weighing bridges and use Weigh in Motion to control the weight of vehicles

#### **Ecological**

 Less trips = less fuel consumption = less CO<sub>2</sub> emission

#### WorkHorse® wheels

Alcoa WorkHorse® wheels have no ventilation holes, to protect the disc brakes in off-road applications. The tire/wheel combination does not overheat because aluminum dissipates heat much better than steel.

On top of this, the 22.5x8.25 and 22.5x9.00 Workhorse® wheels have a higher load rating than standard wheels in the same size.





	Load rating standard	
	Standard Alcoa wheel	Workhorse® wheel
22.5 x 8.25	3750 kg	3835 kg
22.5 x 9.00	4125 kg	4335 kg

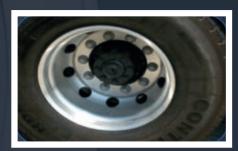
### **Environmentally friendly**

- Aluminium is 100% recycable.
- 75% of all of the aluminium ever produced since 1888 is still in active use today.



# Better corrosion resistance compared to steel wheels

Due to aluminum's natural resistance to corrosion, Alcoa forged aluminium wheels do not need to be painted. Certain environments, such as construction sites, can lead to corrosion. Other potentially corrosive materials are salt, highly alkaline substances and chloride compounds.



Alcoa



Steel

#### **ALprotect**

The use of ALprotect reduces corrosion and improves the protection of Alcoa wheels.







www.alcoawheels.com

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