



# WorkHorse® wheels



In response to customer and market demand, Alcoa Wheel Products developed a wheel for European construction vehicles with disc brakes. More specifically, this new wheel was designed without ventilation holes to help protect the drive/front axle disc brakes from sand and gravel. Meanwhile this WorkHorse® wheel has found its way to various other applications, including trailers.

This new design will provide Alcoa customers with true added value through the reduction of maintenance costs, increased brake life, and improved performance.

WorkHorse® wheels provide a 5% increase in maximum load compared to standard wheels. The 22.5 x 11.75 120 mm offset wheel even has a 10% increase in maximum load, which is why some customers mount it on their trailers. Due to its stronger design, the fatigue life for these new wheels has also been increased. Mounting characteristics for the WorkHorse® wheel remain the same as those for standard wheels.

The WorkHorse® wheels can be used as the inner dual wheel on a truck's drive or tag axle, or single on its front axle. These wheels are available in the following sizes and fitments:

<u>Available sizes</u>	<u>Part numbers</u>	<u>Ø Mounting Holes</u>	<u>Offset</u>	<u>Max. load</u>
22.5 x 8.25	886580	26 mm		3835 kg (+5%)
22.5 x 8.25	886570	32 mm		3835 kg (+5%)
22.5 x 9.00	896580	26 mm		4335 kg (+5%)
22.5 x 9.00	896570	32 mm		4335 kg (+5%)
22.5 x 11.75	817580	26 mm	120 mm	5000 kg (+10%)
22.5 x 11.75	817570	32 mm	120 mm	5000 kg (+10%)
22.5 x 11.75	812580	26 mm	135 mm	5000 kg (+10%)
22.5 x 11.75	812570	32 mm	135 mm	5000 kg (+10%)

WorkHorse® wheels are available in **Brushed** finish only.

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## Nigel K.Charlton Haulage go for Alcoa WorkHorse® wheels

Whatley quarry in the South of England is one of the largest production quarries in Europe producing 12000 tons of lime stone daily. Three train loads and hundreds of truck loads are needed to move this amount of stone day after day.



One of the haulage companies involved is Nigel K.Charlton Haulage from Frome, Somerset. They were founded 28 years ago and today run a fleet of 5 trucks. Since 20 years they mount Alcoa forged aluminium wheels on all of their vehicles, the newest one being a DAF XF 500 horse power engine truck, coupled to a new Stas tipping trailer. Remarkable is that both truck and trailer are entirely fitted with the Alcoa WorkHorse® wheels, which have no ventilation holes, to prevent sand and gravel entering in the brake system.



Nigel was one of the first operators to realize the advantages of these WorkHorse® wheels. He has been using them for six months now and is very enthusiastic:

*"I run all my vehicles on Alcoa wheels because they are much lighter than steel wheels and weight saving is very important in this type of transport. With the WorkHorse® wheels we get added strength on top of the weight saving advantage. And equally important: the fact that the WorkHorse® wheels have no ventilation holes prevents the quarry dust and grit entering the brake area, thus extending the brake life of truck and trailer. An additional advantage we came across is that the cab windows stay a lot cleaner with these wheels. The fact that they have no ventilation holes also makes them easier and quicker to clean. I have ordered a new DAF LF for delivery in July and it will be retrofitted in the U.K. with Alcoa WorkHorse® wheels."*