



5.000.000 wheels – that calls for a celebration



Alcoa has been producing forged aluminium wheels for industrial vehicles since 1946 in the US. In 1981 we started up a sales network in Europe. Our very first European customer was the Swiss based transport company Friderici, who already bought their first Alcoa wheels back in 1978.

Sales figures for 1981 showed just 3500 wheels. Sales went up gradually and started to boast from 1997 onwards, the year in which we opened the plant in Hungary, to hit a climax in the years 2007 and 2008. The market dropped in 2009, but we are now starting to feel a positive trend again.

This summer we are celebrating! 2010 is not only the 30th year of our European activities, but we will also ship our 5.000.000st wheel to a customer somewhere in Europe. That customer will be rewarded with one set of free of charge Alcoa Dura-Bright® wheels for his truck or trailer. The lucky winner will be introduced in our next newsletter!

Looking ahead to the future, we keep listening to our customers and their needs and continue to improve the Alcoa forged aluminium wheel range. That is why we are pleased to introduce several innovations.

New Alcoa medium duty wheels in sizes 17.5 x 6.75 and 19.5 x 6.75

Upon request from the medium duty truck market, Alcoa has developed a new wheel for trucks in the range of 6 to 12 tons. The new wheel will be available in Brushed and Dura-Bright® finishes from October/ November 2010 onwards.

Wheel characteristics:

Size	17.5 x 6.75
Part no. Brushed	661820
Part no. Dura-Bright®	661823DB
Weight of wheel (kg)	13.3
Max. load per wheel (kg)	2500
Offset (mm)	123
Half dual space (mm)	143
Disc thickness (mm)	20
Mounting hole Ø (mm)	26
Number of mounting holes	6
Mounting circle Ø (mm)	245
Center Bore Ø (mm)	202



Apart from this 17.5 x 6.75 wheel, Alcoa is also working on the development of a new 8 hole 19.5 x 6.75 medium duty truck wheel, which will also be introduced in the 4th quarter of 2010.

Alcoa and SAF-HOLLAND joining forces for innovative trailer wheel development



Alcoa and SAF-HOLLAND are working together on the development of a new trailer wheel which can be mounted without a separate hub flange.

Wheel characteristics:

Size	22.5 x 11.75
Weight of wheel	28.5 kg
Max. load per wheel	4500 kg
Offset	60 mm
Disc thickness	35 mm
Mounting hole Ø	23 mm
Mounting holes	10 on Ø 200 mm
Center bore Ø	157 mm

The advantage of this new SAF 60 ONE development is a weight saving of 8.7 to 18.7 kg per axle end, thus nearly 60 kg per trailer, which is achieved by integrating the hub flange as an integral part of the aluminium wheel. The wheel is mounted with bolts, replacing the classic wheel nuts and studs. Depending on the market response after the IAA show, where the new development will be displayed on the SAF-HOLLAND and the Alcoa stands, the decision will be made whether to take this wheel into production.

Reduced weight and unified rim flange for Alcoa 22.5 wheels

Alcoa continues to work on the improvement of the already existing wheel sizes and announces that following new lightweight wheels with unified rim flange design will be available from September / October. **The unified rim flange enables both adhesive and clip-on balancing weights.**

<u>Wheel size</u>	<u>offset</u>	<u>weight (kg)</u>		<u>max. load (kg)</u>		<u>disc thickness (mm)</u>	
		new vs old	new vs old	new vs old	new vs old		
22.5 x 11.75	0	21.0	22.1	4750	4500	21.0	22.0
22.5 x 11.75	120	22.6	23.6	same	4500	24.7	26.0
22.5 x 11.75	135	23.4	26.4	same	4500	24.1	27.5
22.5 x 8.25	147	22.1	22.7	same	3650	20.5	22.0
22.5 x 9.00	155	22.7	23.2	same	4125	20.5	22.0

The revised 8.25 and 9.00 wheels will also have a new straight valve: 54 MS 00, replacing 70 MS 07N2.

WorkHorse® wheel

22.5 x 11.75	120	24.2	25.6	same	5000	25.3	26.0
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A revised Specification Sheet will be available shortly.

Alcoa Wheels present at IAA, Hannover

To learn more about Alcoa's new developments, please visit us at stand C29 in hall 25 at the IAA show from September 23 to 30. The Alcoa staff will be pleased to welcome you!



Paganella, Italy goes for maximum payload with Alcoa aluminium wheels



Paganella S.p.A. in Mantua, Italy, is specialized in transport, storage and logistical consultancy. They transport various products throughout Europe, ranging from powders and granular materials for the chemical industry to liquids for the food industry, as well as palletized products for various industrial uses.

They have 50 storage silos with a total capacity of 20.500 m³ for granular and powder products, a 47.000 m² covered warehouse for industrial products, computerized data management by means of bar coding, a terminal container equipped with a 60 ton crane, a 15.000m² surface area and a 450 meter railway track connected to the Italian Railway Network.

The company was founded in 1951 by Ubaldo Paganella, who bought a Lancia lorry to transport goods between Central and Northern Italy. Over the years the business has grown and currently employs over 150 people. Their fleet consists of 120 tractors

and 320 semi-trailers: granular and powder silos, tankers for alimentary liquids, container chassis and curtain siders.

In 2000 they started to equip vehicles with Alcoa forged aluminium wheels, gradually replacing steel wheels. Since then Paganelli always specify Alcoa wheels when purchasing new vehicles.

Mr. Maurizio Paganella, one of the managers, says: *"Alcoa wheels are not only lighter than any other wheels and therefore provide maximum payload, but they are also more attractive, stronger and extend tyre life, thanks to the aluminium's heat dissipation properties."*

Contiki Holland coaches 100% on Alcoa aluminium wheels

Whether you are looking for a complete daytrip or just transport by coach, Contiki Holland is the place to be! Contiki is a recognized "quality mark coach operator" and guarantees safety and comfort. The safety and equipment of the 90 coaches are of the

highest standard. This is the reason why all 90 Contiki coaches are equipped with Alcoa forged aluminium wheels. These wheels stand for weight saving, increased driving comfort for driver and passengers and a classy, clean appearance.

Managing Director Gerco Don states: *"The reason why we specify Alcoa wheels is that we try to build our coaches in the lightest possible way. With a maximum occupancy rate of the coaches, the technical and legal maximum loads per axle play an important role. In order to be always on the safe side, the net weight of the vehicle is very important for us."*



Apart from the weight saving, Alcoa wheels offer other advantages such as the appearance of our fleet and the positive influence on driving comfort, fuel consumption and maintenance. In order to hit the

road with clean and shiny wheels, with a minimum of efforts, we have specified the easy-to-clean Alcoa Dura-Bright® wheels since 3 years now and we are fully satisfied with these."

Alcoa wheels help save weight and keep up appearances at Cebes, Sweden

Bernt Rydberg founded Cebes Bulktransporter AB in 1984 with a colleague and has since 1994 been the sole owner. Today Cebes has 24 employees and operate 15 units that transports powder and granular materials. Their customers are Scandinavian plants, producing a variety of goods: from sand to sugar for candy, anthracite, wood chips etc... Cebes Bulktransporter are proud of their reputation regarding punctuality and cleanliness and want to keep up with this.



Mr. Rydberg says: *"We have obtained the environmental certificate ISO 14001 in 2005 and since 2007 we are also quality certified according to ISO 9001. All employees have taken an Ecodrive course, are continuously getting environmental training and*

are learning how to keep down diesel consumption. The main reason for us to specify Alcoa aluminium wheels is the low weight compared to steel wheels. Appearance however is also very important for our corporate image."

License to Thrill



What do secret agent James Bond and Alcoa have in common? A legendary sports car. We think 007 will love what Alcoa is bringing to the Aston Martin. The Aston Martin sports car is known for its power, beauty and soul. But until now, it was missing one important element: Alcoa's lightweight forged aluminium wheels. Thankfully, that wait is over.

Aston Martin has selected an exclusive diamond-turned, ten-spoke Alcoa forged aluminium wheel design for its V12 Vantage, which is Aston Martin's most exhilarating high performance sports car.

Alcoa increases investment in a partnership with Ma'aden, Saudi Arabia

Alcoa is increasing its investment in a partnership with Saudi Arabian mining company Ma'aden to develop the largest, most efficient vertically integrated aluminum complex in the world. Comprising a bauxite mine, refinery, smelter and rolling mill, the facility will come on-line in 2013 and 2014.

The new industrial zone will benefit from access to extraordinary infrastructure projects put in place by the Saudi government to generate industrial diversification in the Kingdom.



A power station will supply highly competitive energy to the complex and, in conjunction with the production of energy, will produce another precious commodity in the Middle East – desalinated water.

ALCOA WHEEL PRODUCTS EUROPE

Industrieweg 135
B-3583 PAAL - Belgium
Tel. +32 (0)11 458464
Fax +32 (0)11 455630
info.wheels@alcoa.com

www.alcoawheels.com

