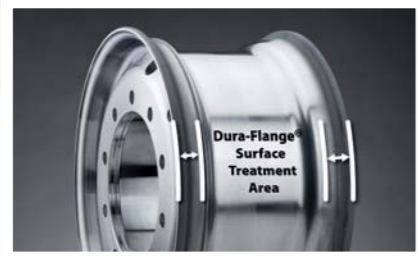


Innovative Wheel Portfolio



Dura-Bright® wheel with XBR® Technology
For easy maintenance. The only surface treated wheel that cleans simply with soap and water. No polishing required.



Dura-Flange® wheel
Protected against rim-flange wear for longer service life under extreme conditions.



WorkHorse® wheel
Without ventilation holes for construction vehicles. Suitable for construction vehicles with maximum loading.



FrontRunner® wheel
Available in 120 & 135mm offset. Also suitable for steer and trailer axles.



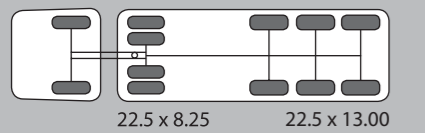
Light and Medium Duty wheel
We offer a wide range of wheels for light to medium duty trucks and buses.



Wide assortment of wheel sizes
From 16" to 24.5" diameter and 5.25" to 17" widths. We follow new trends in the transport industry.

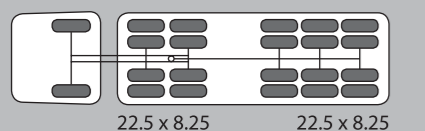
Alcoa wheels weight savings over steel and cast aluminium:

Configuration example 1



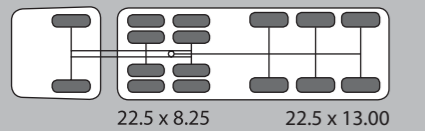
	Alcoa (Kg)	Cast Aluminium (Kg)	Steel (Kg)
22.5 x 8.25	133	167	264
22.5 x 13.00	164	191	336
Total	296	358	600
Savings	-	62	304

Configuration example 2



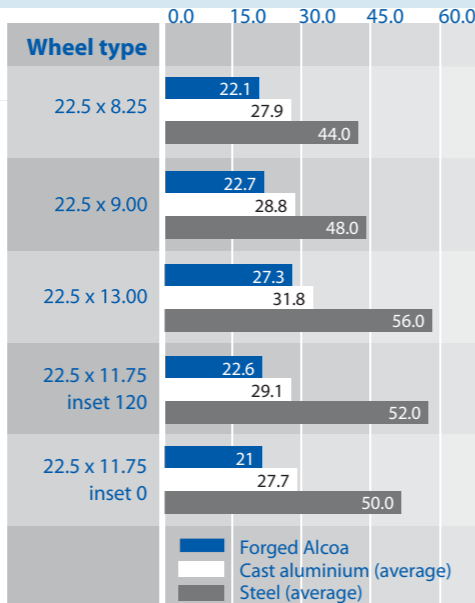
	Alcoa (Kg)	Cast Aluminium (Kg)	Steel (Kg)
22.5 x 8.25	486	614	968
Total	486	614	968
Savings	-	128	482

Configuration example 3



	Alcoa (Kg)	Cast Aluminium (Kg)	Steel (Kg)
22.5 x 8.25	221	279	440
22.5 x 13.00	164	191	336
Total	385	470	776
Savings	-	85	391

Wheel (kg)



Alcoa Wheels Fit Your Business



A wide choice of Alcoa forged aluminium wheels is available for all commercial vehicles: trucks, trailers, coaches and buses. From transporting food or dangerous goods; to making trips to construction sites; to plying the roads carrying tourists or passengers, Alcoa makes wheels that will fit your needs.

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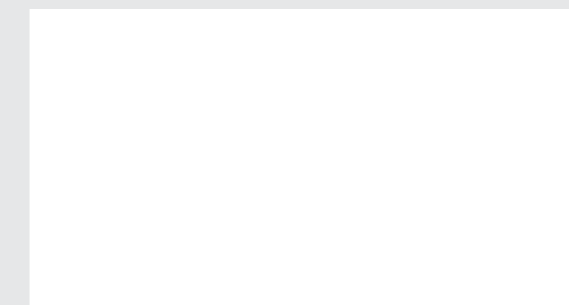
Outfit your vehicle with genuine Alcoa advantages

Specify Alcoa forged aluminium wheels by name – the way most truck, trailer, bus and coach manufacturers do worldwide.



Commercial Vehicle Wheels – Asia
www.alcoawheels.com

Authorised Distributor:



Unrivalled Strength,
Durability and Shine
Alcoa Forged Aluminium Wheels
Lightweight Champion



The Alcoa Forged Strength since 1948

The strongest forged aluminium wheels add more value to your operations and keep you in the lead!



The Original – Alcoa Genuine Quality - from Start to Finish

No other wheel manufacturer controls the production process as thoroughly as we do. We manage product quality at every step, from mining top quality bauxite, refining it into alumina, smelting of aluminium, and forging the final high-strength, low-weight wheel.

Lighter • Stronger • More Economical • More Environmentally Friendly

Making the Strongest Wheels: Alcoa Forging Process



Approved by all Major Testing Bodies (TÜV, LBF, JWL-T)

With more than 120 years of experience in the aluminium industry, Alcoa has grown and developed innovative products to meet customer needs in markets we invented.

Alcoa aluminium products have penetrated almost every industry in various forms including pharmaceutical foils, automotive extrusion, automotive closure panel, aluminium shipbuilding plate, can sheets, aerospace and industrial products, flexible packing foil, brazing stock, wall cladding/painted sheets and wheel products, just to name a few.

Beginning in 1948, Alcoa invented the first forged aluminium truck wheel in the United States. As a testimony to the strength of Alcoa wheels, our range of products is widely used across many transportation modes, from heavy duty commercial fleets, to M1-tanks and state-of-the-art aircrafts. Even 300-tonne jumbo jets land on forged aluminium wheels from Alcoa!

High Strength Test Results



Tests have shown that Forged Alcoa wheels are much stronger than steel wheels and cast aluminium wheels. A forged Alcoa wheel withstands a load of 71,200kg before it deforms by 5cm. The rim of the steel wheel is deformed by 5cm at only 13,700kg!

Impact Test Results



Steel wheel



Cast aluminium

Alcoa forged aluminium wheel

The Japanese JWL test simulates a truck hitting a high curb at 50km/h. A 910kg weight is dropped onto the wheel assembly. While the steel wheels show excessive rim deformation and air loss, and cast aluminium wheels break, the Alcoa wheels passed the test successfully.

Every wheel starts as a single block of high-strength corrosion-resistant aluminium alloy.



With a 8,000 ton press, the block is forged into a wheel shape. Once forged, the wheels are heat-treated to maximise overall mechanical strength.



The Alcoa forging process aligns the grain structure of aluminium with the shape of the wheel, resulting in wheels with unrivalled strength. This is the same technology Alcoa uses to produce aluminium wheels for M-1 tanks and 747 aircrafts.



The mirror polish operation gives the wheel its reflective shine. By end of the forging process, Alcoa wheels are 423% stronger than steel wheels. Don't confuse FORGING WITH CASTING!

The Alcoa Advantage:

When our customers buy Alcoa wheels for the first time, they discover the Alcoa advantages over conventional steel wheels that eventually translate into significant long term cost savings. With lightweight Alcoa aluminium wheels, the promise of increased payload, greater fuel efficiency as well as longer tyre and brake life become a reality.

Lighter

- Up to 57% weight savings per wheel i.e. up to 300kg per articulated unit
- Increased payload and driver comfort

Stronger

- Unparalleled forged strength
- 4 times stronger than steel
- 5-year unlimited mileage warranty

More Economical

- Reduced fuel consumption (up to 7% savings)
- Better heat dissipation (3 times quicker than steel)
- Less tyre wear
- Longer brake and tyre life (up to 20% savings)
- Longer service life (up to 20 years)
- Easy maintenance

More Environmentally Friendly

- Aluminium is 100% recyclable
- Reduced CO₂ emissions thanks to lower weight and fuel economy

Aesthetically Attractive

- Array of mirror-polished, machine-finished, Dura-Bright® and LvL One® wheels to choose from
- Greatly improves corporate image and look of vehicles

Sales Support

- Strong sales and after sales support network globally, with offices in Singapore, Hong Kong, China, Korea, India for Asia region.
- Extensive distribution network in Asia and worldwide

Specification Sheet Forged Aluminium Wheels

Wheel Size	Part Number	Weight (kg)	Max. Load (kg)	Offset (mm)	Inset (mm)	Disc Thickness (mm)	Stud Hole Diameter (mm)	Number of Stud Holes	PCD (mm)	Centre Bore Diameter (mm)	Mounting Type	Dual Mount	Valve	Remarks
17.5" Wheels	17.5 x 6.00 663110	13.9	1750	135	116.6	18.4	32.5	6	222.25	164	Stud	Yes	TR543C	
	17.5 x 6.00 663200	12.6	2500	133	114	19	26	10	225	176.1	Hub	Yes	TR543D	
	17.5 x 6.75 660820	14.6	2500	141	120	21	26	6	245	202	Hub	Yes	TR543C	
	17.5 x 6.75 663470	13.4	2500	141	120	21	24.75	8	275	221.1	Hub	Yes	TR543C	
	17.5 x 6.75 663710	14.1	1880	135	116.4	18.6	32.5	6	222.25	164	Stud	Yes	TR543C	
17.5 x 6.75 663823	13.7	3000	137	117	20	26	10	225	176	Hub	Yes	TR554C		
19.5" Wheels	19.5 x 6.75 764490	16.8	2500	141	120	21	24	8	275	221.1	Hub	Yes	TR543C	
	19.5 x 6.75 764710	17.3	2500	135	113.4	21.6	32.5	6	222.25	164	Stud	Yes	TR543C	
	19.5 x 7.50 773450	17.7	3000	155	134	21	32	8	275	221.1	Hub	Yes	54MS00N	Also available in Dura-Bright®
	19.5 x 7.50 773460	17.7	3000	155	134	21	30	8	275	221.1	Hub	Yes	54MS00N	Also available in Dura-Bright®
	19.5 x 7.50 773470	17.7	3000	155	134	21	24	8	275	221.1	Hub	Yes	54MS00N	Also available in Dura-Bright®
	19.5 x 8.25 783450	18.5	3150	167	146	21	32	8	275	221.1	Hub	Yes	54MS00N	Also available in Dura-Bright®
	19.5 x 8.25 783460	18.5	3150	167	146	21	30	8	275	221.1	Hub	Yes	54MS00N	Also available in Dura-Bright®
19.5 x 8.25 783470	18.5	3150	167	146	21	24	8	275	221.1	Hub	Yes	60MS27	Also available in Dura-Bright®	
22.5" Wheels	22.5 x 7.50 874510	23.7	3550	160	138	22	32	10	335	281.2	Hub	Yes	70MS07N	
	22.5 x 7.50 874520	23.7	3550	160	138	22	26	10	335	281.2	Hub	Yes	70MS07N	
	22.5 x 8.25 883110	23.5	3250	169	144	25	32.5	10	285	220.1	Stud	Yes	TR555D	Also available in Dura-Bright®
	22.5 x 8.25 883363	22.7	3350	167	145	22	32.5	8	285	221	Stud	Yes	TR555D	Also available in Dura-Bright®
	22.5 x 8.25 883677	20.4	3350	167	147	20	26	10	285.75	220.1	Hub	Yes	TR544D	Also available in Dura-Bright®
	22.5 x 8.25 886510	22.7	3650	167	145	22	32	10	335	281.2	Hub	Yes	70MS07N2	Also available in Dura-Bright®
	22.5 x 8.25 886520	22.7	3650	167	145	22	26	10	335	281.2	Hub	Yes	70MS07N3	Also available in Dura-Bright®
	22.5 x 9.00 895510	24.9	4535	176	153	23	32	10	335	281.2	Hub	Yes	GAX005544	Also available in Dura-Bright®
	22.5 x 9.00 895520	24.9	4535	176	153	23	26	10	335	281.2	Hub	Yes	GAX005544	Also available in Dura-Bright®
	22.5 x 9.00 896510	23.2	4125	176	154	22	32	10	335	281.2	Hub	Yes	70MS07N2	Also available in Dura-Bright®
	22.5 x 9.00 896520	23.2	4125	176	154	22	26	10	335	281.2	Hub	Yes	70MS07N3	Also available in Dura-Bright®
22.5" Wide Base Wheels	22.5 x 11.75 812510	21	4750	0	-	21	32	10	335	281.2	Hub	No	70MS07N2	Also available in Dura-Bright®
	22.5 x 11.75 812520	21	4750	0	-	21	26	10	335	281.2	Hub	No	40MS00N	Also available in Dura-Bright®
	22.5 x 11.75 818510	22.6	4500	145	120	24.7	32	10	335	281.2	Hub	No	40MS00N	Also available in Dura-Bright®
	22.5 x 11.75 818520	22.6	4500	145	120	24.7	26	10	335	281.2	Hub	No	40MS00N	Also available in Dura-Bright®
	22.5 x 11.75 819520	23.6	5000	145	120	25.3	26	10	335	281.2	Hub	No	40MS00N	Also available in Dura-Bright®
	22.5 x 13.00 833530	27.3	5200	14 Rev	14 Rev	28	26	10	335	281.2	Hub	No	40MS00N	Also available in Dura-Bright®
	22.5 x 14.00 841510	30.7	5800	28	-	28.5	26	10	335	281.2	Hub	No	TR542	Also available in Dura-Bright®
WorkHorse® Wheels	22.5 x 8.25 886570	26.3	3835	145	-	22	32	10	335	281.2	Hub	Yes	83MS 00N	
	22.5 x 9.00 896570	26.7	4335	154	-	22	32	10	335	281.2	Hub	Yes	83MS 00N	
	22.5 x 11.75 812580	24.2	5000	120	-	25.3	32	10	335	281.2	Hub	No	40MS 00N	
	22.5 x 11.75 817570	27.3	5000	120	-	27.5	26	10	335	281.2	Hub	No	40MS 00N	

Before mounting Alcoa Wheels, consult the Alcoa Technical service manual.

** Refer to Alcoa representative

For part numbers or technical information not listed above, please refer to your respective Alcoa representative. Errors and omissions excluded.

Dura-Bright® is patented surface treatment which penetrates the aluminium, allowing easy cleaning with soap and water. Dura-Flange® is patented surface treatment on the wheel rim that provides a protective shield to prevent rim-flange wear. WorkHorse® wheels are without ventholes to protect disc brakes in off-road applications, but can also be used for on-road applications. WorkHorse® offer a higher load rating.

Mounting holes diameter 24 mm: for studs M20 x 1.5 & M22 x 1.5 with standard nuts
Mounting holes diameter 30 mm: for studs M20 x 1.5 with sleeved capnuts
Mounting holes diameter 26 mm: for studs M22 x 1.5 with standard nuts
Mounting holes diameter 32 mm: for studs M22 x 1.5 with sleeved capnuts

