

ALCOA DURA-BRIGHT® WHEELS WITH XBR™ TECHNOLOGY

The only wheel with a patented surface treatment that cleans with soap and water is now brighter than ever.

The new Alcoa Dura-Bright® Wheel with XBR™ Technology is now 53% more reflective than the first generation that truckers have loved mile after mile. Plus, image clarity has improved 74%.*

Even after hundreds of washes and thousands of miles, Dura-Bright® wheels maintain their shine.

And, because Alcoa Dura-Bright® is a surface treatment not a coating, it won't chip, crack, peel or corrode. And never needs polishing. No other manufacturer can offer you that.

You can't say that about coated wheels, which scratch, filiform corrode and discolor in commercial applications. Only Dura-Bright® wheels use a patented surface treatment that penetrates the aluminum and becomes an integral part of the wheel.

And, they are the only wheels that come with a five-year limited warranty against defects in materials, workmanship and corrosion.

Now your wheels can look their best with less effort than with any previous steel or aluminum wheel. So, you save money and time – and still hit the road with good-looking wheels on your trucks and trailers.

Along with faster, easier cleaning and maintenance, you get all the advantages you've come to expect from Alcoa aluminum wheels, including:

- less weight for increased payload and greater fuel efficiency
- better heat dissipation for extended tire and brake life
- higher resale value (historically up to \$1,500 on trucks with regular Alcoa aluminum wheels – Alcoa Dura-Bright® wheels may result in even more)
- one-piece, forged-in strength
- the widest selection of wheels and wheel accessories in the industry

Leave it to the company that invented the first practical aluminum truck wheel in 1948 to come up with Dura-Bright® wheels – the next revolution in wheel maintenance.



ALCOA

DURA-BRIGHT® WHEELS
XBR™ Technology

SMART. STRONG.

Dura-Bright® is a federally registered trademark of Alcoa Inc. *Average results based on tests completed at the Alcoa Technical Center.

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WHEEL SPECIFICATIONS

Alcoa aluminum disc wheel mounting dimensions are consistent with SAE Recommended Practice J694 February 2001. Dura-Bright® surface treatment wheels are identified by using the regular numerical part number and the addition of "DB" at the end. Finishes are indicated by changing the last numerical digit of the part number to one of the following. For brushed both sides, the number is "0." For buffed outside only, the number is "1." For buffed inside only, the number is "2." For buffed both sides, the number is "3." Currently, only the wheel item numbers marked with "DB" are available with the Dura-Bright® surface treatment and available finish options are listed. Valve hole is on the inside, only for item numbers marked with an asterisk(*). Part numbers ending in "9" are inset position wheels satin finished.

CLASSIC TUBELESS WHEELS (round hand holes) – ENGLISH UNITS (METRIC UNITS)

Item no.	Wheel description	Maximum wheel load ¹ in lbs. (kg)	Wheel wt. lbs. (kg)	Outset inches ³ (mm ³)	Inset inches (mm)	Maximum inflation PSI-cold (kpa)	Valve stem	Part number ²	Available Dura-Bright® Finishes	DiscMate	Stabilizer	Front outer cap nuts	Rear inner cap nuts AI/AI	Rear inner cap nuts AI/Stl	Rear outer cap nuts	Lug nut covers	Hub cover system kits front/rear
10-hole, stud located, ball seat mounting—11.25 in. bolt circle, 8.73 in. hub bore, 1.219 in. bolt hole dia.																	
1	22.5x8.25	7200	53	6.66	5.68	120	TR545D	883110DB	0,1,2	3/4" 016000, 1-1/8" 017000	2225	3/4" Stud 5995 L&R 1-1/8" Stud 5996 L&R	5988 L&R	7896 L&R	5996 L&R	150	Front - 076015 Rear - 077015
Eight-hole, hub piloted mounting—275mm bolt circle, 221.1mm hub bore, 26.75mm bolt hole dia. (use two-piece flange nuts)																	
2	22.5x7.50	7300	53	6.28	5.44	120	TR545D	873400DB	0,1,2		2225	39874	-	-	39874	181	-
**3	22.5x8.25	7400	50	6.66	5.82	130	TR544D	883440DB	0,1,2		2225	39874	-	-	39874	181	-
10-hole, hub piloted mounting—285.75mm bolt circle, 220.1mm hub bore, 26.75mm bolt hole dia. (use two-piece flange nuts)																	
4	22.5x7.50	7300	53	6.28	5.44	120	TR545D	873600DB	0,1,2,3		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
**5	22.5x8.25	7400	48	6.66	5.81	130	TR544D	883640DB	0,1,2,3		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
6	22.5x8.25	8000	55	6.66	5.69	120	TR543C	885600DB	0,1,2		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
**7	22.5x9.00	9000	60	6.94	6.04	130	TR544D	893640DB	0,1,2		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
8	22.5x9.00	10,000	53	-	3.12	130	TR545E	893630DB	0,1,2		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
9	22.5x10.50	10,500	68	6.61	5.5	130	TR543	803600DB	0,1		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
*10	22.5x12.25	11,400	66	3.88	2.75	125	TR543E outset TR545E inset	823650DB	0,1,2		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
**11	22.5x12.25	11,000	71	5.8	4.68	130	TR542	823640DB	0,1		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
††12	22.5x14.00	12,800	71	2.0	0.87	130	TR543E outset TR545E inset	841600DB	0,2		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
††13	22.5x14.00	12,800	71	1.13	0	130	TR545E outset TR543E inset	841610DB	0,1,2,9		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
**14	24.5x8.25	7400	56	6.6	5.73	130	TR545D	983640DB	0,1,2		2225	39874	-	-	39874	181	Front - 076018 or 076085‡ Rear - 077018 or 077085‡
10-hole, hub piloted bus mounting—11.25in. bolt circle, 8.670 in. hub bore, 1.219 in. bolt hole dia. (use two-piece flange nuts)																	
15	22.5x8.25	7300	53	6.66	5.82	120	TR545D	883610DB	0,3		2225	-	-	-	-	182	-
16	24.5x8.25	7300	62	6.6	5.77	120	TR545D	983610DB	0,3		2245	-	-	-	-	182	-
10-hole, hub piloted mounting—335mm bolt circle, 281.2mm hub bore, 26.75mm bolt hole dia. (use two-piece flange nuts)																	
***17	22.5x8.25	8047 (3650)	55.1 (25.0)	6.60 (168)	5.70 (145)	138 (952)	70MS7	886520DB	0,3		2225	013000	-	-	39874	181	-
***18	22.5x9.00	9094 (4125)	58.0 (26.3)	6.93 (176)	6.02 (153)	142 (978)	70MS7	896520DB	0,3		2225	013000	-	-	39874	181	-
10-hole, hub piloted mounting—335mm bolt circle, 281.2mm hub bore, 32.87mm bolt hole dia. (use two-piece sleeved cap nuts)																	
***19	22.5x8.25 (32mm bolt hole)	8047 (3650)	55.1 (25.0)	6.60 (168)	5.70 (145)	138 (952)	70MS7	886510DB	0,3		2225	018000	-	-	4306.32	-	-
***20	22.5x9.00 (32mm bolt hole)	9094 (4125)	57.1 (25.9)	6.93 (176)	6.02 (153)	142 (978)	70MS7	896510DB	0,3		2225	018000	-	-	4306.32	-	-

Do not exceed maximum wheel load. Customer must compare OEM vehicle load rating to maximum wheel load rating. Do not overinflate. Refer to tire manufacturer's recommendation for proper tire pressure. Before mounting the tire, perform a wheel fitment check to ensure proper clearance from any obstructions. Valve hole is on the inside unless noted otherwise.

- Capacity ratings as dual or single in highway service — bias-ply or radial. Load ratings in lbs. for items 19 through 20 rounded to nearest multiple of 5.
 - Some wheels may bear part numbers not shown in this manual. Before servicing these wheels, contact your Alcoa wheel representative for proper load, inflation and part compatibility information.
 - Outset (positive)/inset (negative) — The distance from the rim centerline to the mounting face of wheel. Inset (negative) places the rim centerline inboard of the wheel mounting face, and outset (positive) places the rim centerline outboard of the wheel mounting face (1/2 dual spacing = offset).
- * Wide Base Wheel part numbers should end in "1" or "9" when used in an inset position and "0" or "2" when used in an outset position.
 - ** Disc Brake Compliant — As of January 2005: 883640 replaces 883620 and 884620; 983640 replaces 983620. As of March 2005: 883440 replaces 883420; 893640 replaces 893600; 823640 replaces 823660A; 833640 replaces 833660A.
 - *** As of August 2005: 886520 replaces 885530, 886510 replaces 885550, 896520 replaces 894530, 896510 replaces 894550 with the new wheels only available in a "0" or "3" finish option.
 - †† Check with vehicle manufacturer or axle manufacturer before retrofitting to outset wide base wheels to ensure compatibility with axle and wheel end components. P/Ns 841100, 841400, 841600 and 841610 are recommended for use on drive axle and trailer axle positions, but with some restrictions on "N" trailer spindles.
 - ‡ Hub cover system kits P/N 076085 (front) and P/N 077085 (rear) contain screw-on Hug-A-Lug® nut covers and require a minimum of four threads of the stud to extend above the tightened cap nut for use.

Wheels with the Dura-Bright® surface treatment option **shine without polishing**. Just wash with soap and water – do not polish or clean with abrasives. For more information, call 800.242.9898 option 6 or visit www.alcoawheels.com/durabrightxbr.