



Product Spec Guide

Published September 2017

The Invention of
MagnaForce®

Proprietary MagnaForce® alloy offers a 17% increase in strength over existing alloys for **unmatched strength** that delivers **unprecedented weight savings**.



Alcoa Ultra ONE® Wheels with MagnaForce® alloy
We've Upped the Ante.



Alcoa LvL ONE® Wheels

Alcoa® LvL ONE® Wheels utilize proven technology resulting in low weight, enhanced strength and eye-catching brightness — still the industry standard.

Surface option codes

Alcoa® aluminum disc wheel mounting dimensions are consistent with SAE J694 or ISO 4107 as applicable. The finish for Alcoa wheels is specified by replacing the 6th digit “x” shown in the part number with the appropriate finish option. Finishes are defined as:

- | | |
|---|--|
| 0 - Brushed finish on both sides as applicable* | 7 - Clean Buff finish on both sides as applicable* |
| 1 - Mirror polished outside only | 8 - Clean Buff finish on both sides (reference data table for offset position) |
| 2 - Mirror polished inside only (same side as roll stamp) | 9 - Brushed finish on both sides (reference data table for offset position) |
| 3 - Mirror polished both sides | |

*0 and 7 finish options are determined by inset or outset mounting positions and may not be finished on both sides. Reference data table for offset position and available finish options.

A Force EVolved.

No polish required.



Dura-Bright®

Dura-Bright® Wheels are identified by adding “DB” at the end of the regular part number.

Dura-Flange® Wear Protection Wheels are identified by adding “DF” at the end of the regular part number.

The Dura-Bright® and Dura-Flange® Wear Protection options together are identified by the “DD” suffix.

Available options for each part number are defined in the Surface Treatment Codes column.

Additional Information:

- Dura-Bright® Wheels shine without polishing. Just wash with soap and water.
- Do not polish or clean Dura-Bright® Wheels with abrasives. Do not clean any Alcoa wheels with abrasives.
- 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 obstructions.
- Some wheels may bear part numbers not shown in this Spec Guide. Before servicing these wheels, contact your representative for Alcoa wheels for proper load, inflation and part compatibility.
- Outset (positive) / inset (negative) – The distance from the rim centerline to the mounting face of the wheel. Inset (negative) places the rim centerline inboard of the mounting face and outset (positive) places the rim centerline outboard of the wheel mounting face. (Outset is also half dual space for dual wheels.)
- Check with vehicle manufacturer or axle manufacturer before retrofitting to outset wide base wheels to ensure compatibility with axle and wheel end components. P/N 84U62x is not recommended for use on N-Spindle trailer axles.
- For wheels diameter 19.5” and below that are packaged with brand new hardware, the included hardware must be used. In this case, do not use your vehicle’s original lug nuts or bolts. Keep a set of your original lug nuts or bolts in your vehicle in case of potential future need of mounting a spare wheel.
- P/Ns 88565x and 98565x are Alcoa Severe Service® Wheels.
- To obtain information about free training on proper installation and maintenance procedures, contact Arconic Wheel and Transportation Products at (800) 242-9898 or on the web at alcoawheels.com.
- For details on accessories, see Accessory Products Catalog for Alcoa wheels.
- Always perform a fitment check to ensure accessories are secure before operating vehicle.



Alcoa Dura-Bright® **EV3** Wheels

What happens on the road, stays on the road.

Our third generation Dura-Bright® **EV3** Wheels feature a new and improved surface treatment that stands stronger against tough conditions without the need to polish. And when it's time to clean, a simple soap and water wash gets you back on the road.

22.5" & Above Wheel Diameter

	Bolt Holes, Bolt Circle, Hub Bore	Size	P/N	Replaces P/N	Approx. Weight (lbs)	Finish Options	Surface Treatment Codes			Bolt Hole Diameter	Offset		Load Rating		Valve Stem	Alcoa® Accessory Products			
							Dura-Bright® Options	Dura-Flange® Options	Dura-Bright® Dura-Flange® Options		Outset (in)	Inset (in)	Max Load (lbs)	Max Cold Infl. (psi)		Front Hub Cover (Includes Nut Covers Where Applicable)	Rear Hub Cover (Includes Nut Covers Where Applicable)	Nut Cover Only (Not Intended to Secure Hub Covers)	
HEAVY DUTY	Ball Seat	10 Holes 11.25" Bolt Circle 8.72" Bore	22.5 x 8.25	88311x	88310x, 88300x	52	7	3DB			1.18"	6.66	5.68	7200	130	TR555D	076155	077155	001501
			22.5 x 9	89300x		61	7				1.18"	6.94	5.93	9000	130	TR554D	076155	077155	001501
			22.5 x 12.25	82305x		64	7				1.18"	3.88	N/A	11400	130	TR553E	N/A	077155	001501
			22.5 x 12.25	82306x	82306xA	69	7				1.18"	N/A	4.68	11000	130	TR555E	076155	N/A	001501
			24.5 x 8.25	98312x	98310x	59	7				1.18"	6.60	5.59	7200	130	TR555D	076155	077155	001501
HEAVY DUTY	8 Holes 275mm Bolt Circle 221.1mm Bore	22.5 x 7.5	87340x		53	7				26mm	6.28	5.44	7300	130	TR555D	082122 ^{1,2} (33mm kit)	082133 ^{1,2} (33mm kit)	001811	
		22.5 x 8.25	88344x	88342x, 88341x	49	7				26mm	6.66	5.79	7400	130	TR554D	140233A (Stainless 33mm)	109176A (Stainless 33mm)	001811	
		24.5 x 8.25	98247x	98340x	57	7				26mm	6.60	5.73	7300	130	TR555D	082122 ^{1,2} (33mm kit)	082133 ^{1,2} (33mm kit)	001811	
	10 Holes 11.25" Bolt Circle 8.67" Bore	22.5 x 8.25	88361x		53	3, 7	0DB, 3DB		3DD	1.18"	6.66	5.81	7300	130	TR555D	N/A	N/A	001821	
		24.5 x 8.25	98361x		62		3DB			1.18"	6.60	5.76	7300	130	TR555D	N/A	N/A	001821	
	10 Holes 285.75mm Bolt Circle 220.1mm Bore	22.5 x 7.5	87360x		53	7				26mm	6.28	5.44	7300	130	TR555D	076188, 076185 ¹ , 086100S	077188, 077185 ¹ , 087100S	001811	
		22.5 x 8.25	ULTRAx		40	1, 2, 7	0DB, 1DB, 2DB	7DF		26mm	6.60	5.85	7400	130	TR554D	076188, 076185 ¹ , 086100S	077188, 077185 ¹ , 087100S	001811	
		22.5 x 8.25	88367x	88364x, 88362x	45	1, 2, 3, 7	0DB, 1DB, 2DB, 3DB	1DF, 2DF, 7DF	1DD, 2DD, 3DD	26mm	6.60	5.79	7400	130	TR554D	076188, 076185 ¹ , 086100S	077188, 077185 ¹ , 087100S	001811	
		22.5 x 8.25	88565x	88567x, 88560x	50	1, 2, 7	0DB, 1DB, 2DB	7DF		26mm	6.60	5.71	8050	130	TR554D	076188, 076185 ¹ , 086100S	077188, 077185 ¹ , 087100S	001811	
		22.5 x 9	89U63x ⁰	89365x, 89363x	48	1, 7	0DB, 1DB			26mm	N/A	3.12	10000	130	TR555E	076188, 076185 ¹ , 086100S	N/A	001811	
		22.5 x 9	89U64x	89465x, 89464x, 89364x	56	1, 2, 3, 7	0DB, 1DB, 2DB, 3DB	7DF	3DD	26mm	6.94	5.99	10000	130	TR554D	076188, 076185 ¹ , 086100S	077188, 077185 ¹ , 087100S	001811	
		22.5 x 10.5	80360x		68	1	1DB			26mm	N/A	5.50	10500	130	TR553	076188, 076185 ¹ , 086100S	N/A	001811	
		22.5 x 12.25	82262x ⁰	82360x	60	2, 7	2DB			26mm	0.56	N/A	12300	130	TR553E	N/A	077188, 077185 ¹ , 087100S	001811	
		22.5 x 12.25	82362x	82365x	62	2, 7	2DB			26mm	3.88	N/A	12300	130	TR553E	N/A	077188, 077185 ¹ , 087100S	001811	
		22.5 x 12.25	82462x ⁰	82364x, 82366xA	66	1, 7	1DB			26mm	N/A	4.68	12300	130	TR552	076188, 076185 ¹ , 086100S	N/A	001811	
		22.5 x 13	83U65x	83365	63	2, 7	0DB, 2DB			26mm	3.50	N/A	13000	130	TR553E	N/A	077188, 077185 ¹ , 087100S	001811	
		22.5 x 13	83462x ⁰	83364x, 83366xA	71	1, 7	0DB, 1DB			26mm	N/A	5.30	12800	130	TR552	076188, 076185 ¹ , 086100S	N/A	001811	
		22.5 x 14	84U60x	84360x, 84060x, 84267x	52	1, 8	1DB			26mm	0.98	N/A	12800	130	TR555E	N/A	077188, 077185 ¹ , 087100S	001811	
		22.5 x 14	84U62x	84362x, 84062x, 84167x	52	2, 7	0DB, 2DB	7DF	2DD	26mm	N/A	0	12800	130	TR553E	N/A	077188, 077185 ¹ , 087100S	001811	
		24.5 x 8.25	98U63x	98363x, 98367x, 98364x	51	1, 2, 7	0DB, 1DB, 2DB	7DF		26mm	6.60	5.77	7400	130	TR555D	076188, 076185 ¹ , 086100S	077188, 077185 ¹ , 087100S	001811	
24.5 x 8.25		98565x	98567x, 98560x	62	1, 2, 7	0DB, 1DB, 2DB	7DF		26mm	6.60	5.61	8300	130	TR555D	076188, 076185 ¹ , 086100S	077188, 077185 ¹ , 087100S	001811		
10 Holes 335mm Bolt Circle 281.2mm Bore		22.5 x 8.25	88651x	88555x, 88455x	50	3, 7	0DB, 3DB	3DF, 7DF	0DD, 3DD	32mm	6.60	5.75	8050	130	70MS7	N/A	N/A	N/A	
	22.5 x 8.25	88652x	88557x, 88456x	50	3, 7	0DB, 3DB	7DF	3DD	26mm	6.60	5.75	8050	130	70MS7	N/A	N/A	001811		
	22.5 x 9	89552x		56	7				26mm	6.93	6.02	10000	160	TR554DS	N/A	N/A	001811		
	22.5 x 9	89651x	89555x, 89455x	51	3, 7	3DB			32mm	6.93	6.08	9090	130	70MS7	N/A	N/A	N/A		
	22.5 x 9	89652x	89553x, 89453x	51	3, 7	0DB, 3DB	7DF		26mm	6.93	6.08	9090	130	70MS7	N/A	N/A	001811		
	22.5 x 10.5	80350x		62		1DB			32mm	N/A	4.92	10500	130	TR553	N/A	N/A	N/A		
	22.5 x 13	83358x ⁰	83357xA	76	1, 7	0DB, 1DB			26mm	N/A	6.12	12800	130	TR553	005811	N/A	001811		
	24.5 x 8.25	98350x		63	3, 7				26mm	6.79	5.81	8500	132	TR554D	N/A	N/A	001811		

⁰ o and 7 finish options are determined by inset or outset mounting positions and may not be finished on both sides. See chart for position and available finish options
¹ Hub cover system kits with part numbers 076185 (front), 077185 (rear), 082122 (front), and 082133 (rear) contain screw-on Hug-A-Lug® nut covers and require a minimum of four (4) threads of the stud to extend above the tightened cap nut for use. Six (6) threads are recommended
² 082012 (30mm kit Front and Rear)
 See Accessory Products Catalog for Alcoa Wheels for part number specific fitment information. Always perform a fitment check to ensure accessories are secure before operating vehicle.

19.5" & Below Wheel Diameter

	Size	P/N	Replaces P/N	Approx. Weight (lbs)	Finish Options	Dura-Bright® Options	Mounting System				Offset		Load Rating		Valve Stem	Alcoa® Accessory Products				
							Bolt Holes	Bolt Circle	Bolt Hole Diameter	Hub Bore	Outset	Inset	Max Load (lbs)	Max Cold Infl. (psi)		Front Hub Cover (Includes Nut Covers Where Applicable)	Rear Hub Cover (Includes Nut Covers Where Applicable)	Nut Cover Only (Not Intended to Secure Hub Covers)	Alcoa Mounting Hardware Kits	
MEDIUM DUTY	Ball Seat	16 x 6J	26000x		19	3	0DB	6	8.75"	1.28"	6.47"	5.04"	4.41"	3200	94	TR553C	N/A	N/A	N/A	499100 ³
		17.5 x 6	66313x		25	3		6	8.75"	1.28"	6.47"	5.35"	4.64"	3860	112	TR553C	N/A	N/A	N/A	499100 ³
		17.5 x 6	66307x		31	2, 7		10	8.75"	1.22"	6.50"	5.55"	4.72"	5070	125	TR553C	N/A	N/A	001501	N/A
		19.5 x 6	76332x		34		0DB, 1DB, 2DB	6	8.75"	1.28"	6.46"	5.32"	4.61"	4190	123	TR553C	N/A	N/A	N/A	499100 ³
	Spherical Seat	16 x 6.5J	36070x ⁴		23	0, 1	0DB, 1DB	6	130mm	15mm	84mm	N/A	54mm	2680	80	See OEM ⁵	001100	001100	N/A	008415SP ⁴
	Cone Seat	16 x 6.5J	26190x		21	0, 1	0DB, 1DB	5	160mm	16.5mm	65mm	N/A	60mm	2800	71	See OEM ⁵	001100	001100	N/A	See OEM
16 x 7		16704x		21	1		8	6.5"	0.62"	5.16"	N/A	0.25"	3750	110	TR416S	003167, 004167, 008167	003167, 004167, 008167	000078	N/A	
17.5 x 6.75		66540x		28	1		8	6.5"	0.62"	5.16"	N/A	0"	3500	130	TR552	003167, 004167, 008167	003167, 004167, 008167	000078	N/A	
	Hub Pilot	16 x 5.5J	25180x	25080x	16	0, 1, 2	1DB, 2DB	6	205mm	16mm	161.1mm	4.94"	4.58"	2340	80	54MS00	021135	022135	000135	See OEM
16 x 6J		26180x ⁴		18	0, 1, 2	0DB, 1DB, 2DB	6	180mm	23mm	138.8mm	124mm	110mm	2065	69	TR553C	024019	024019	019001	139699 ⁴	
16 x 6K		16021x		19	1, 2	0DB, 1DB, 2DB	8	6.5"	0.67"	4.60"	5.15"	4.59"	2780	95	TR553	003611	003612	019001	139698	
16 x 6K		16028x	16024x	20	1, 2	0DB, 1DB, 2DB	8	6.5"	0.67"	4.88"	5.4"	4.84"	2780	95	TR553	001611, 001681	001612	019001	139987	
17.5 x 6		66480x	66422x	26	1, 7		6	205mm	21mm	160.3mm	5.0"	4.3"	4000	130	TR554C	N/A	N/A	N/A	N/A	
17.5 x 6.75		66140x		30	1	1DB	8	6.5"	0.68"	4.77"	N/A	0"	6050	130	TR552	001611, 001612 or 001681	001611, 001612 or 001681	019001	139987, 139698	
17.5 x 6.75		66348x	66347x	27	2, 7	0DB, 2DB	8	275mm	24mm	221.1mm	5.55"	4.85"	5510	130	TR553C	082122 ^{1,2} (33mm kit) 140233A (Stainless 33mm)	082133 ^{1,2} (33mm kit) 109176A (Stainless 33mm)	001811	N/A	
19.5 x 6		76329x	76320x	26	1, 2, 7	0DB, 1DB, 2DB	10	225mm	15mm	170.2mm	5.35"	4.82"	4000	130	TR553C	001004	001005	N/A	See OEM	
19.5 X 6		76380x		33	1, 2, 7		8	225mm	15mm	170.3mm	5.35"	4.65"	3750	110	TR553C	001102	001103	N/A	N/A	
19.5 x 6.75RW		76542x	76449x	31	1, 2, 7	0DB, 1DB, 2DB	8	275mm	26mm	221.1mm	5.55"	4.84"	5000	130	TR553C	082122 ^{1,2} (33mm kit) 140233A (Stainless 33mm)	082133 ^{1,2} (33mm kit) 109176A (Stainless 33mm)	001811	See OEM	
19.5 x 6.75RW	76547x		31	1, 2, 7	0DB, 1DB, 2DB	8	275mm	24mm	221.1mm	5.55"	4.84"	5000	130	TR553C	082122 ^{1,2} (33mm kit) 140233A (Stainless 33mm)	082133 ^{1,2} (33mm kit) 109176A (Stainless 33mm)	001811	See OEM		
19.5 x 7.5RW	77349x	77340x	38	1, 2, 7		8	275mm	24mm	221.1mm	6.1"	5.27"	6610	130	TR553C	082122 ^{1,2} (33mm kit) 140233A (Stainless 33mm)	082133 ^{1,2} (33mm kit) 109176A (Stainless 33mm)	001811	See OEM		
19.5 x 7.5RW	77362x	77360x	38	1, 2, 7	0DB, 1DB, 2DB	10	285.75mm	26mm	220.1mm	6.1"	5.23"	6700	130	TR553C	076188, 076185 ¹ , 086100S	077188, 077185 ¹ , 087100S	001811	See OEM		

The lightweight innovation leader.

Alcoa Ultra ONE® Wheels with MagnaForce® alloy

Heavy-duty without the heavy.

Alcoa Ultra ONE® Wheels with MagnaForce® alloy are now available in more sizes. Proprietary MagnaForce® alloy technology helps shed even more weight, making each wheel the lightest in the industry. That's a nice lift to your bottom line.



22.5" x 8.25"
ULTRAx

- Just 40 lbs.
- 7,400 lb. load rating

24.5" x 8.25"
98U63x

- Just 51 lbs.
- 7,400 lb. load rating

22.5" x 14"
84U60x, 84U62x

- Just 52 lbs.
- Available in 0", .98", and 2" offsets
- 12,800 lb. load rating

22.5" x 9"
89U63x, 89U64x

- Just 48 or 56 lbs. based on fitment
- 10,000 lb. load rating

Alcoa LvL ONE® Wheels

Alcoa LvL ONE® Wheels feature a proven design for optimal weight and strength.



22.5" x 8.25"
88367x

- Just 45 lbs.
- 7,400 lb. load rating

22.5" x 8.25"
88565x
Severe Service®

- Just 50 lbs.
- 8,050 lb. load rating

24.5" x 8.25"
98565x
Severe Service®

- Just 62 lbs.
- 8,300 lb. load rating

¹ Hub cover system kits with part numbers 076185 (front), 077185 (rear), 082122 (front), and 082133 (rear) contain screw-on Hug-A-Lug® nut covers and require a minimum of four (4) threads of the stud to extend above the tightened cap nut for use. Six (6) threads are recommended.

² 082012 (30mm kit Front and Rear)

³ Contains replacement lug nuts, bolts, or studs for one front and one rear axle. Required to accommodate the increased thickness of the mounting surface of aluminum wheels compared to steel wheels.

⁴ Wheel sold with mounting hardware required for proper thread engagement.

⁵ Valve Stem not included. Compatible with TR435 and factory-installed OEM TPMS sensor.

See Accessory Products Catalog for Alcoa Wheels for part number specific fitment information. Always perform a fitment check to ensure accessories are secure before operating vehicle.

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