



2014 **PRODUCT SPEC GUIDE**



THE LIGHTWEIGHT INNOVATION LEADER

INNOVATION IS IN OUR DNA

This year, Alcoa is launching technology that's ready to shatter industry standards. But don't just take our word for it – see for yourself.

HEAVY-DUTY WITHOUT THE HEAVY.

Alcoa Ultra ONE™ Wheel Technology

We dramatically reduced the weight of our wheels while maintaining every ounce of strength with the invention of our Ultra ONE™ technology with MagnaForce™ alloy.

At just 40 pounds, the 22.5" x 8.25" Alcoa Ultra ONE™ Wheel with MagnaForce™ alloy is the lightest in the industry.

- Engineered with MagnaForce™ alloy, 17% stronger for a lighter wheel.
- 5 pounds lighter than anything else on the market.
- Saves nearly another 100 pounds on an 18-wheeler compared to other aluminum wheels.



Ultra ONE™ Wheel ULTRAx

ALCOA WHEELS OFFER A SPECTRUM OF BENEFITS:

- Lighter weight for improved productivity
- Lower maintenance costs
- Reduced fuel consumption and emissions for lower operating costs
- Enhanced image and increased vehicle resale value
- Lower CO₂ emissions to achieve sustainability goals

standards. But don't just take our word for it – see for yourself.

Alcoa LvL ONE® Technology

Alcoa LvL ONE® technology took the industry by storm, providing enhanced strength and eye-catching brightness, while still maintaining a low weight.

Available in popular applications including:



14" Wide Base Wheel
84360x, 84362x

9" Wheel
89365x, 89465x

4 LBS.
LIGHTER

14" Wide Base Wheels

At just 54 lbs., the lightest 14" Wide Base Wheels on the market today.

Wheel Description	Part Number	Max Load (lbs)	Approx. Weight (lbs)	18-wheeler Weight Savings
22.5 x 14	84360x	12,800	54 lbs	1,400 lbs
	84362x			

3 LBS.
LIGHTER

9" Wheels

Alcoa's new 9" Wheels are lighter than ever, and ideal for refuse collection, logging, mining and other heavy haul applications.

Wheel Description	Part Number	Max Load (lbs)	Approx. Weight (lbs)	Weight Savings Aluminum vs. Steel
22.5 x 9	89365x	10,000	51 lbs	52 lbs
	89465x		59 lbs	49 lbs

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 - Polished outside only | 8 - Clean Buff finish in the inset position of a wide base wheel |
| 2 - Polished inside only (same side as roll stamp) | 9 - Brushed finish in the inset position of a wide base wheel |
| 3 - Polished both sides | |

*0 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.



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.

The only finishes available for each part number are defined in the Finish Options column.

Additional Information:

- Dura-Bright® Wheels shine without polishing. Just wash with soap and water, do not polish or clean 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.
- Capacity ratings as dual or single in highway service.
- Some wheels may bear part numbers not shown in this Spec Guide. Before servicing these wheels, contact your Alcoa wheel representative 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/Ns 84147x and 84062x are not recommended for use on N-Spindle trailer axles.
- P/Ns 88567x and 98567x are Alcoa Severe Service® Wheels.
- To obtain information about free training on proper installation and maintenance procedures, contact Alcoa Wheel Products at (800) 242-9898 or on the web at www.alcoawheels.com.
- For details on accessories, see Alcoa Accessory Products Catalog.

HEAVY DUTY DATA

	SURFACE OPTION CODES								MOUNTING SYSTEM				OFFSET		LOAD RATING		Valve Stem	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)	
	Size	P/N	Replaces P/N	Approx. Wgt (lbs)	Finish Options	DB Options	DF Options	DB & DF Options	Bolt Holes	Bolt Circle	Bolt Hole Diameter	Bore	Outset	Inset	Max Load (lbs)	Max Infl (psi)					
HEAVY DUTY	Ball Seat	22.5x8.25	88311x	88310x, 88300x	52	7	3DB		10	11.25	1.18	8.722	6.66	5.68	7200	130	TR555D	076155	077155	001501	
		22.5x9	89300x		61	7			10	11.25	1.18	8.722	6.94	5.93	9000	130	TR554D	076155	077155	001501	
		24.5x8.25	98312x	98310x	59	7			10	11.25	1.18	8.722	6.60	5.59	7200	130	TR555D	076155	077155	001501	
HEAVY DUTY	Hub Pilot	22.5x7.5	87340x		53	7			8	275mm	26mm	221.1mm	6.28	5.44	7300	120	TR555D	†082122 (33mm kit) 140233A (Stainless 33mm)	†082133 (33mm kit) 109176A (Stainless 33mm)	001811	
		22.5x8.25	88344x	88342x, 88341x	49	7			8	275mm	26mm	221.1mm	6.66	5.79	7400	130	TR554D	†082122 (33mm kit) 140233A (Stainless 33mm)	†082133 (33mm kit) 109176A (Stainless 33mm)	001811	
		22.5x7.5	87360x		53	7			10	285.75mm	26mm	220.1mm	6.28	5.44	7300	120	TR555D	076188, 076185**, 086100S	077188, 077185**, 087100S	001811	
		22.5x8.25	ULTRAx		40	1, 2, 7	0DB, 1DB, 2DB	7DF		10	285.75mm	26mm	220.1mm	6.60	5.85	7400	130	TR554D	076188, 076185**, 086100S	077188, 077185**, 087100S	001811
		22.5x8.25	88367x	88364x, 88362x	45	1, 2, 3, 7	0DB, 1DB, 2DB, 3DB	1DF, 2DF, 7DF	1DD, 2DD, 3DD	10	285.75mm	26mm	220.1mm	6.60	5.79	7400	130	TR554D	076188, 076185**, 086100S	077188, 077185**, 087100S	001811
		22.5x8.25	88567x	88560x	52	1, 2, 7		7DF		10	285.75mm	26mm	220.1mm	6.60	5.75	8050	130	TR554D	076188, 076185**, 086100S	077188, 077185**, 087100S	001811
		22.5x9	89365x*	89363x	51	1, 7	0DB, 1DB			10	285.75mm	26mm	220.1mm	N/A	3.12	10000	130	TR555E	076188, 076185**, 086100S	N/A	001811
				2DB					4.06					N/A							
		22.5x9	89465x	89464x, 89364x, 89360x	59	1, 2, 3, 7	0DB, 1DB, 2DB, 3DB	7DF	3DD	10	285.75mm	26mm	220.1mm	6.94	5.96	10000	130	TR554D	076188, 076185**, 086100S	077188, 077185**, 087100S	001811
		24.5x8.25	98247x	98340x	57	7				8	275mm	26mm	221.1mm	6.60	5.73	7300	130	TR555D	†082122 (33mm kit) 140233A (Stainless 33mm)	†082133 (33mm kit) 109176A (Stainless 33mm)	001811 001811
		24.5x8.25	98367x	98364x, 98362x	56	1, 2, 3, 7	0DB, 1DB, 2DB, 3DB	1DF, 2DF, 3DF, 7DF		10	285.75mm	26mm	220.1mm	6.60	5.73	7850	130	TR555D	076188, 076185**, 086100S	077188, 077185**, 087100S	001811
		24.5x8.25	98567x	98560x	64	1, 2, 7		7DF		10	285.75mm	26mm	220.1mm	6.60	5.63	8300	130	TR555D	076188, 076185**, 086100S	077188, 077185**, 087100S	001811
WIDE BASE	Bus Applications	22.5x8.25	88361x		53	0, 3	0DB, 3DB	0DF	0DD, 3DD	10	11.25	1.18	8.673	6.66	5.81	7300	130	TR555D	N/A	N/A	001821
		22.5x8.25	88651x	88555x, 88455x	50	0, 3	0DB, 3DB	0DF, 3DF	0DD, 3DD	10	335mm	32mm	281.2mm	6.60	5.75	8050	130	70MS7	N/A	N/A	N/A
		22.5x8.25	88652x	88557x, 88456x	50	0, 3	0DB, 3DB	0DF, 3DF	0DD, 3DD	10	335mm	26mm	281.2mm	6.60	5.75	8050	130	70MS7	N/A	N/A	N/A
		22.5x9	89651x	89555x, 89455x	51	0, 3	0DB, 3DB	0DF, 3DF		10	335mm	32mm	281.2mm	6.93	6.08	9090	130	70MS7	N/A	N/A	N/A
		22.5x9	89652x	89553x, 89453x	51	0, 3	0DB, 3DB	0DF, 3DF		10	335mm	26mm	281.2mm	6.93	6.08	9090	130	70MS7	N/A	N/A	001811
		22.5x10.5	80350x		62		1DB			10	335mm	32mm	281.2mm	N/A	4.92	10500	130	TR553	N/A	N/A	N/A
		22.5x10.5	80360x		68	1	1DB			10	285.75mm	26mm	220.1mm	N/A	5.50	10500	130	TR553	076188, 076185**, 086100S	N/A	001811
		24.5x8.25	98350x		63	0, 3				10	335mm	26mm	281.2mm	6.79	5.81	8500	132	TR554D	N/A	N/A	001811
24.5x8.25	98361x		62	0, 3	0DB, 3DB			10	11.25	1.18	8.673	6.60	5.76	7300	130	TR555D	N/A	N/A	001821		
WIDE BASE	Ball Seat	22.5x12.25	82305x		64	7 8			10	11.25	1.18	8.722mm	3.88 N/A	N/A 2.75	11400	130	TR553E TR555E	N/A 076155	077155 N/A	001501	
		22.5x12.25	82306x	82306xA	69	7			10	11.25	1.18	8.722mm	N/A	4.68	11000	130	TR555E	076155	N/A	001501	
		22.5x12.25	82262x*	82360x	60	2, 7	2DB			10	285.75mm	26mm	220.1mm	0.56	N/A	12300	130	TR553E	N/A	077188, 077185**, 087100S	001811
	Hub Pilot	22.5x12.25	82362x	82365x	62	2, 7 1, 8	0DB, 2DB 1DB, 9DB	7DF 8DF		10	285.75mm	26mm	220.1mm	3.88 N/A	N/A 2.75	12300	130	TR553E TR555E	N/A 076188, 076185**, 086100S	077188, 077185**, 087100S N/A	001811
		22.5x12.25	82462x*	82364x, 82366xA	66	1, 7	0DB, 1DB	7DF		10	285.75mm	26mm	220.1mm	N/A	4.68	12300	130	TR552	076188, 076185**, 086100S	N/A	001811
		22.5x13	83358x*	83357xA	76	0, 1				10	335mm	26mm	281.2mm	N/A	6.12	12800	130	TR553	00581	N/A	001811
		22.5x13	83365x		70	0, 2				10	285.75mm	26mm	220.1mm	3.50	N/A	12300	130	TR553E	N/A	077188, 077185**, 087100S	001811
						1, 9			10	285.75mm	26mm	220.1mm	N/A	2.38	12300	130	TR555E	076188, 076185**, 086100S	N/A		
		22.5x13	83462x*	83364x, 83366xA	71	1, 7				10	285.75mm	26mm	220.1mm	N/A	5.30	12800	130	TR552	076188, 076185**, 086100S	N/A	001811
		22.5x14	84360x	84060x, 84267x, 84161x	54	1, 8, 2, 7	1DB 0DB, 2DB	7DF	2DD	10	285.75mm	26mm	220.1mm	1.00 N/A	N/A 0	12800	130	TR555E TR553E	N/A	077188, 077185**, 087100S	001811
22.5x14	84362x*	84062x, 84167x, 84160x	54	2, 7	0DB, 2DB	7DF	2DD	10	285.75mm	26mm	220.1mm	2.00	N/A	12800	130	TR553E	N/A	077188, 077185**, 087100S	001811		

*0 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.
 **Hub cover system kits P/N 076185 (front) and P/N 077185 (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.
 †082012 (30mm kit Front and Rear)

Now available in the
DURA-BRIGHT®

surface option.



M-SERIES® WHEELS

We took all of the innovation, technology and know-how from big rig applications and brought it to the medium-duty market. For your most demanding jobs, trust M-Series® Wheels.



Lower vehicle lifetime operating costs



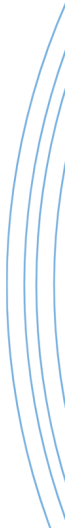
Reduce wheel maintenance



Lower fuel expenses



Reduce costs from curbing



MEDIUM DUTY DATA

	Size	P/N	Replaces P/N	SURFACE OPTION CODES				MOUNTING SYSTEM				OFFSET		LOAD RATING		Valve Stem	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)	
				Approx. Wgt (lbs)	Finish Options	DB Options	DF Options	DB & DF Options	Bolt Holes	Bolt Circle	Bolt Hole Diameter	Bore	Outset	Inset	Max Load (lbs)					Max Infl (psi)
Cone Seat	16x7	16704x		21	1				8	6.50	0.62	5.155	N/A	0.25	3750	110	TR416S	003167, 004167, 008167	003167, 004167, 008167	000078
	17.5x6.75	66540x		28	1	1DB			8	6.50	0.62	5.155	N/A	0	3500	130	TR552	003167, 004167, 008167	003167, 004167, 008167	000078
Ball Seat	16x6J	26000x		19	0, 3	0DB			6	8.75	1.28	6.467	5.04	4.41	3200	95	TR553C	N/A	N/A	N/A
	17.5x6.75	66307x		31	0, 2				10	8.75	1.18	6.495	5.55	4.72	5070	125	TR553C	N/A	N/A	001501
	19.5x6	76332x		34	0, 1, 2	0DB, 1DB, 2DB			6	8.75	1.28	6.463	5.32	4.61	4190	123	TR553C	N/A	N/A	N/A
Hub Pilot	16x6K	16023x		20	1, 2				8	6.50	0.67	4.567	5.15	4.59	2780	95	TR553	003611	003612	000190
	16x6K	16028x	16024x	20	1, 2	0DB, 1DB, 2DB			8	6.50	0.67	4.883	5.40	4.84	2780	95	TR553	001611, 001681	001612	000190
	16x5.5J	25080x		17	0, 1, 2	0DB, 1DB, 2DB			6	205mm	16mm	161.1mm	4.94	4.55	2340	80	54MS00	021120	022120	000120
	17.5x6	66480x	66422x	26	0, 1				6	205mm	21mm	160.3mm	5.00	4.30	4000	130	TR554C	N/A	N/A	N/A
	17.5x6.75	66140x		30	1	1DB			8	6.50	0.68	4.77	N/A	0	6050	130	TR552	001611, 001612 or 001681	001611, 001612 or 001681	000190
	17.5x6.75	66347x		30	0, 2				8	275mm	24mm	221.1mm	5.55	4.72	5510	130	TR553C	082122 (33mm kit)	082133 (33mm kit)	001811
	19.5x6RW	76240x	76140x	29	0, 1, 2	0DB, 1DB, 2DB			8	6.50	0.63	4.569	5.35	4.72	2540	90	TR554C	N/A	N/A	N/A
	19.5x6RW	76280x		31	0, 1, 2	0DB, 1DB, 2DB			6	205mm	21mm	161.1mm	5.35	4.65	3750	110	TR554C	N/A	N/A	N/A
	19.5x6	76320x		33	0, 1, 2	0DB, 1DB, 2DB			10	225mm	15mm	170.2mm	5.35	4.65	4000	115	TR553C	001004	001005	N/A
	19.5x6	76380x		33	0, 1, 2				8	225mm	15mm	170.3mm	5.35	4.65	3750	110	TR553C	N/A	N/A	N/A
	19.5x6.75RW	76542x	76449x	31	0, 1, 2	0DB, 1DB, 2DB			8	275mm	26mm	221.1mm	5.55	4.84	5000	130	TR553C	†082122 (33mm kit) 140233A (Stainless 33mm)	†082133 (33mm kit) 109176A (Stainless 33mm)	001811
	19.5x6.75RW	76547x		31	0, 1, 2	0DB, 1DB, 2DB			8	275mm	24mm	221.1mm	5.55	4.84	5000	130	TR553C	†082122 (33mm kit) 140233A (Stainless 33mm)	†082133 (33mm kit) 109176A (Stainless 33mm)	001811
	19.5x7.5RW	77349x	77340x	38	0, 1, 2				8	275mm	24mm	221.1mm	6.10	5.27	6610	130	TR553C	†082122 (33mm kit) 140233A (Stainless 33mm)	†082133 (33mm kit) 109176A (Stainless 33mm)	001811
	19.5x7.5RW	77362x	77360x	38	0, 1, 2	0DB, 1DB, 2DB			10	285.75mm	26mm	220.1mm	6.10	5.23	6700	130	TR553C	076188, 076185**, 086100S	077188, 077185**, 087100S	001811

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 †082012 (30mm kit Front and Rear)



40 POUNDS **OF PURE MUSCLE.**

Meet the wheel with unmatched strength that delivers unprecedented weight savings. By shedding 5 pounds from each 22.5" x 8.25" wheel, Alcoa Ultra ONE™ Wheels help you save nearly another 100 pounds per rig. That's a nice lift to your bottom line.

www.alcoawheels.com/ultraone

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DRIVING YOUR **BOTTOM LINE.**™

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