



PRODUCT SPEC GUIDE

Published July 2023



Alcoa® Ultra ONE® Wheel with MagnaForce® Alloy

ONLY
16 Kg

World's Lightest, Strongest Heavy-Duty Truck Wheel.



Alcoa® ULT36x
22.5" x 8.25" Wheel



Lightest Wheel in the Industry

- Only 16 Kg
- Save up to 2.1L of fuel per 1,000 km when converting from steel on all positions
- 10-285 Standard fitment



Strongest Wheel Yet

- With proprietary MagnaForce® alloy
- 3,355kg. load rating



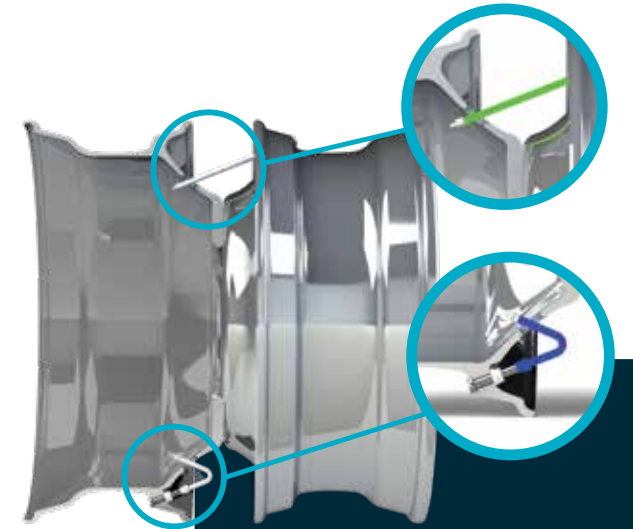
Patent-Pending Wheel Design

- No hand holes
- Impact tested
- Designed for strength



Innovative vHub™ Bore Technology

- Up to 64% less contact area than existing wheels on the market.
- Minimizes hub-to-wheel contact area to reduce corrosion.



Maintenance Friendly Valve System

- Two 25mm valve access holes for dual mounting and dual inflation. 60MS-00 valves designed for ease of inflation and pressure checks.
- Works with ATIS and Halo systems.
- Brings both inner and outer dual valve into wheel well for easy access.

Valve system not included with the wheel. Order separately

MAGNAFORCE®

Each Alcoa Ultra ONE® wheel is forged from our MagnaForce® alloy for a lighter wheel that's 17% stronger than the current industry standard 6061 alloy.

MagnaForce® is the first new alloy for forged aluminium wheels since 1968.



Meets SAE J1865 and J2803 drum and disc brake profiles

TAKE A LOOK
AT THE COMPLETE
ALCOA® WHEELS
SPEC GUIDE.



NO MORE POLISHING

Alcoa Dura-Bright® EVO Wheels

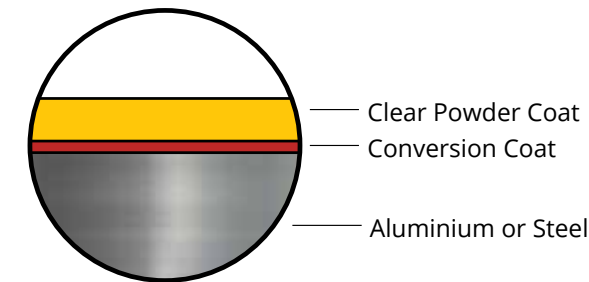


THE SURFACE TREATMENT YOU CAN COUNT ON TO KEEP YOUR WHEELS LOOKING GREAT FOR THE LONG RUN.

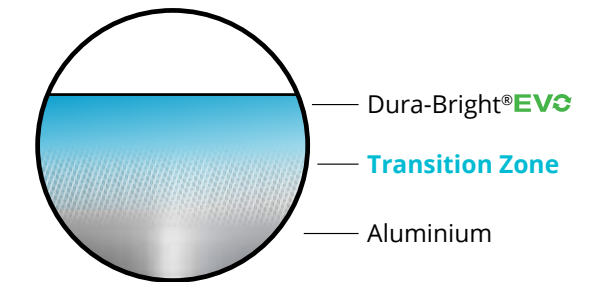
Dura-Bright® EVO Wheels feature a new and improved surface treatment that stands stronger against tough conditions – without the need to polish. And when it's time to clean, a simple soap and water wash gets you back on the road.

BREAKTHROUGH TECHNOLOGY

CONVENTIONAL COATING



DURA-BRIGHT® EVO



UNBEATABLE RESILIENCE

- **10x more resistant** to corrosion caused by road salts and weather elements
- **3x more resistant** to harsh chemicals

On ordinary wheels, a coating is typically applied as a layer that sits on top of the wheel surface. When scratched, water and salt can penetrate the coating, resulting in corrosion and further deterioration.

Patented Dura-Bright® EVO penetrates the aluminium, forming a molecular bond that becomes an integral part of the wheel. It prevents cracking, peeling and filiform corrosion often seen on coated wheels.

The benefits to you? Wheels that keep their shine and stay looking newer for longer, even after hundreds of washes* and thousands of miles.

ALL ALCOA ALUMINIUM WHEELS HAVE



Best-in-Class
Warranty



Increase Payload.
Improve Fuel
Efficiency.



Easier, faster
and safer
maintenance.



Best-in-Class
customer service and
training



Lightest, Strongest
and Largest Family of
Aluminium Wheels



Stronger than Steel
One-piece forged
Aluminium



Increased
Resale Value &
100% Recyclable

* Alcoa Dura-Bright® EVO Wheels should be cleaned in accordance with the Alcoa Dura-Bright® Cleaning Guide.

Alcoa® Dura-Black™ Wheels

BLACK IT OUT.

The same benefits of all lightweight Alcoa aluminium wheels, but with serious swagger.



22.5" x 9.00"
89U64BLK

22.5" x 12.25"
82462BLK

22.5" x 8.25"
ULTRABLK

WITH ALL THE PREMIUM ALCOA FEATURES

- Precision laser-etched Alcoa Dura-Black™ logo
- Two-toned rim flange and mounting surface for extra protection during mounting and while in use on the rig.
- Colour-matched high-quality valve stem.
- Colour-matched One-Piece Hub Cover Systems, specifically designed for Dura-Black™ Wheels in steer and drive positions, complete the look.
- Dura-Black™ Wheels meet or exceed rigorous OEM testing that's been expanded to match both the durability and appearance requirements of this unique wheel.

SURFACE OPTION CODES

Alcoa aluminium 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 - LVL ONE® finish on both sides as applicable* |
| 1 - Polished outside only | 8 - LVL ONE® finish on both sides
(reference data table for offset position) |
| 2 - Polished inside only
(same side as roll stamp) | 9 - Brushed finish on both sides
(reference data table for offset position) |
| 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. Reference the Technical Data overleaf for offset position and available finish options.



Dura-Black™ Wheels are identified by adding "BLK" at the end of the regular part number.

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 Available Finishes 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. Always compare OEM vehicle load rating to maximum wheel load rating.
- Do not overinflate. Refer to tyre manufacturer's recommendation for proper tyre pressure.
- Before mounting the tyre, 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 Howmet Wheel Systems 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/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 Howmet Wheel Systems Australia at 1800 955 191 or on the web at alcoawheels.com.au
- Details about accessories can be found after the Technical Data pages in this catalogue.



POLISH										Dura-Bright®						Dura-Flange®						D/D			
0	1	2	3	5	7	8	9	BULK	0	1	2	3	7	9	0	1	2	3	7	8	9	0	1	2	3
X	X	X								X	X														
X			X		X																				
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Wheel Size	Part Number	Replaces	Weight Kgs	Max. Load Kgs	Offset (mm)	Inset (mm)	Disc Thickness (mm)	Stud Hole Dia (mm)	Number of Stud Holes	PCD (mm)	Centre Bore Dia (mm)	Mounting Type	Valve	Origin
16.5 " Wheels														
16 x 5.5	25180		7.4	1060	125.5	116.3	9	16.0	6	205	161	Hub	54MS-00	USA
16 x 5.5	35301		8.3	1285	117.1	117.1	14	32.5	5	203	146	Stud	TR553C	USA, Japan
16 x 5.5	35302		7.9	1285	115.0	101.0	14	32.5	5	208	150	Stud	TR553C	Japan
16 x 6.00	26000		8.6	1450	128.0	112.0	16	32.5	6	222	164	Stud	TR553C	USA
17.5 " Wheels														
17.5 x 5.25	65301		11.0	1750	120.0	104.0	16	32.5	5	203	146	Stud	TR544C	Japan
17.5 x 5.25	65302		11.0	1750	120.0	104.0	16	32.5	5	208	150	Stud	TR554C	Japan
17.5 x 6.00	66301		11.3	1750	127.0	111.0	16	32.5	5	203	146	Stud	TR544C	Japan
17.5 x 6.00	66311		13.9	1750	135.0	116.4	19	32.5	6	222	164	Stud	TR553C	USA, Japan
17.5 x 6.00	66313		11.3	1750	135.8	117.8	18	32.5	6	222	164	Stud	TR553C	USA, Japan
17.5 x 6.00	66320		12.7	2500	133.0	113.9	19	26.5	10	225	176	Hub	TR553D	Japan
17.5 x 6.00	66480		12.0	1810	127.0	109.2	18	21.5	6	205	160	Hub	TR554C	USA
17.5 x 6.75	66140		13.5	2740	N/A	0.0	21	17.3	8	165	121	Hub	TR552	USA
17.5 x 6.75	66182		13.7	2500	143.0	123.0	20	26.7	6	245	202	Hub	54MS-00	USA, Hungary
17.5 x 6.75	66348		12.2	2500	141.0	123.2	18	24.8	8	275	221	Hub	TR553C	USA
17.5 x 6.75	66371		13.5	2240	135.0	116.4	19	32.5	6	222	164	Stud	TR553C	Japan
17.5 x 6.75	66373		12.4	2060	137.7	119.2	19	32.5	6	222	164	Stud	TR553C	Japan
17.5 x 6.75	66382		13.9	3000	137.0	117.0	20	26.7	10	225	176	Hub	TR554C	Japan
19.5 " Wheels														
19.5 x 14.00	74340		23.7	4500	N/A	0.0	25	26.7	8	275	221	Hub	40MS-00	Hungary
19.5 x 6.00	76329		11.7	1815	135.9	122.3	14	15.2	10	225	170	Hub	TR553C	USA
19.5 x 6.00	76332		15.7	1900	135.0	117.1	18	32.5	6	222	164	Stud	TR553C	USA, Japan
19.5 x 6.75	76335		16.7	2500	147.0	125.4	22	32.5	8	285	221	Stud	TR553C	Japan
19.5 x 6.75	76342		16.9	2500	147.0	126.7	20	26.7	8	275	221	Hub	70MS-07	Japan
19.5 x 6.00	76380		15.0	1705	135.9	118.1	18	15.2	8	225	170	Hub	TR553C	USA
19.5 x 6.75	76471		17.4	2500	136.2	114.7	22	32.5	6	222	164	Stud	TR553C	Japan
19.5 x 6.75RW	76542		13.6	2270	141.0	123.0	18	26.7	8	275	221	Hub	TR553C	USA
19.5 x 6.75	76641		17.2	2500	147.0	126.7	20	32.7	8	275	221	Bore	70MS-07	-
19.5 x 7.50	77U45	77345	16.0	3150	154.9	134.9	20	32.8	8	275	221	Bore	54MS-00	AWPE K1
19.5 x 7.50	77U46	77346	16.0	3150	154.9	134.9	20	30.8	8	275	221	Bore	54MS-00	AWPE K1
19.5 x 7.50	77U47	77347	16.2	3150	154.9	134.9	20	24.8	8	275	221	Bore	54MS-00	AWPE K1
19.5 x 7.5RW	77349		17.5	3000	154.9	133.9	21	24.8	8	275	221	Hub	TR553C	USA
19.5 x 7.5RW	77362		17.1	3040	155.0	132.8	22	26.7	10	285	220	Hub	TR553C	USA
19.5 x 8.25	78345		18.6	3150	167.6	146.8	21	32.8	8	275	221	Hub	54MS-00	Hungary
19.5 x 8.25	78346		18.6	3150	167.6	146.8	21	30.8	8	275	221	Hub	54MS-00	Hungary
19.5 x 8.25	78347		18.8	3150	167.6	146.8	21	24.8	8	275	221	Hub	54MS-00	Hungary
22.5 " Wheels														
22.5 x 7.50	87152		23.0	3550	162.0	140.4	22	26.7	10	335	281	Hub	70MS-07	USA, Hungary, Japan
22.5 x 7.50	87334		25.5	3450	162.0	137.6	24	32.5	8	285	221	Stud	TR554D	Japan
22.5 x 7.50	87335		25.5	3520	162.0	137.6	24	32.5	8	285	221	Stud	TR554C	Japan
22.5 x 7.50	87340		24.0	3310	159.5	138.0	21	26.7	8	275	221	Hub	TR555D	USA, Monterrey
22.5 x 7.50	87360		23.8	3310	159.5	138.0	21	26.7	10	285	220	Hub	TR555D	USA, Monterrey
22.5 x 7.50	87451		23.8	3550	160.0	137.8	22	32.8	10	335	281	Hub	70MS-07	Hungary
22.5 x 7.50	87452		23.9	3550	160.0	137.8	22	26.7	10	335	281	Hub	70MS-07	Hungary
22.5 x 7.50	87453		23.9	3550	160.0	137.8	22	26.3	10	335	281	Hub	70MS-07	Hungary
22.5 x 7.50	87454		23.8	3550	160.0	137.8	22	32.8	10	335	281	Hub	70MS-07SE	Hungary
22.5 x 8.25	88334		25.7	3650	165.0	140.6	24	32.5	8	285	221	Stud	TR555D	USA, Japan
22.5 x 8.25	88335		25.9	3725	165.0	139.6	25	32.5	8	285	221	Stud	TR554C	USA, Japan
22.5 X 8.25	88336		22.8	3356	167.6	143.3	24	32.5	8	285	221	Stud	TR544D	USA
22.5 x 8.25	88351		21.1	3650	167.6	145.9	22	32.7	10	335	281	Hub	TR554D or TR554DS	USA, Hungary, Monterrey
22.5 x 8.25	88352		21.3	3650	167.6	145.9	22	26.7	10	335	281	Hub	TR554D or TR554DS	USA, Hungary, Monterrey
22.5 x 8.25	88361		24.1	3310	169.0	147.6	21	31.0	10	285	220	Hub	TR555D	USA, Monterrey



TECHNICAL DATA ALCOA® WHEELS

AVAILABLE FINISHES

Wheel Size	Part Number	Replaces	Weight Kgs	Max. Load Kgs	Offset (mm)	Inset (mm)	Disc Thickness (mm)	Stud Hole Dia (mm)	Number of Stud Holes	PCD (mm)	Centre Bore Dia (mm)	Mounting Type	Valve	Origin	POLISH										Dura-Bright®						Dura-Flange®						D/D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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22.5 x 8.25	88551		22.5	3750	167.6	145.9	22	32.7	10	335	281	Hub	TR554DS	USA, Hungary, Monterrey	X			X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

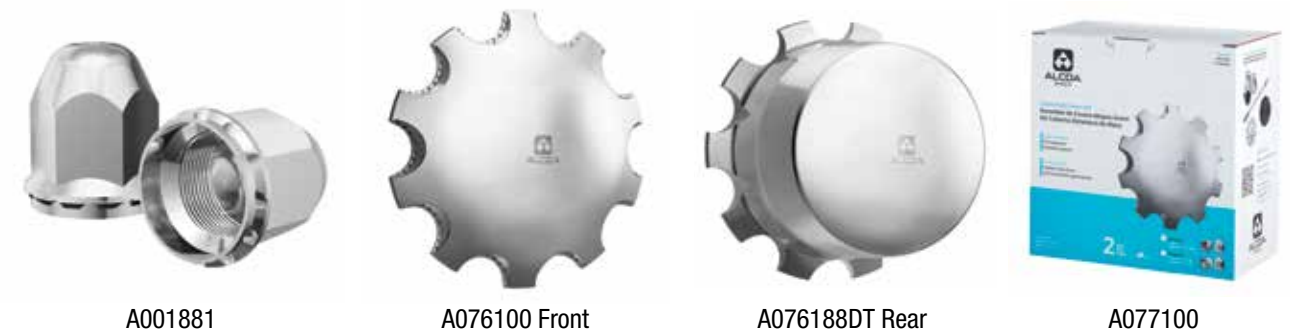
Accessory Products

Hub Cover System



One-Piece Hub Cover System for 10 Hole, 285.75mm and 22.5"

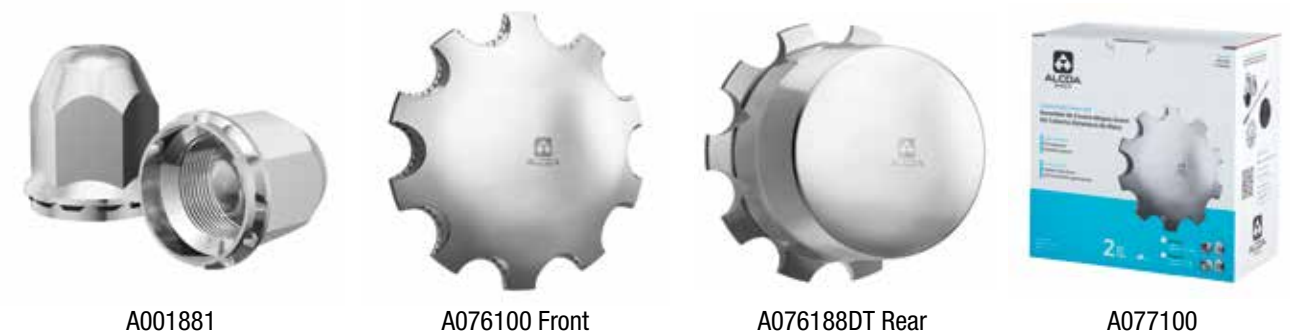
Part No.	Description	Wheel Type	Finish
A086200	Front Axle Kit includes: Two front covers and one removal tool.	Hub Piloted	Chrome
A087200	Rear Axle Kit includes: Two rear covers and one removal tool.	Hub Piloted	Chrome
A000800	Removal Tool		



Wheel Hub Cover Kit - suits Screw on Nut Cover

Part No.	Description/Application	Wheel Type	Nut Cover
A076185*	Front Hub Piloted Hub Cover Kit - includes 1 Hub Cover, 10 Screw on Hug-A-Lugs®, 1 Wrench Fitting: Cover is secured by screwing the 001851 directly onto stud threads.	Hub Piloted	33mm - 001851
A077185*	Rear Hub Piloted Hub Cover Kit - includes 1 Hub Cover, 10 Screw on Hug-A-Lugs®, 1 Wrench Fitting: Cover is secured by screwing the 001851 directly onto stud threads.	Hub Piloted	33mm - 001851

*Require a minimum of 4 threads per stud for fitting



Wheel Hub Cover Kit - suits Clamp Type Cover

Part No.	Description/Application	Wheel Type	Nut Cover
A077188	Front Hub Piloted Hub Cover Kit - includes 1 Hub Cover, 10 Screw on Hug-A-Lugs® with Clamps, 1 Wrench Fitting: Cover is secured by screwing the 001881 onto the inner clamp. Inner clamp is placed on stud threads.	Hub Piloted	33mm - 001881
A076188	Rear Hub Piloted Hub Cover Kit - includes 1 Hub Cover, 10 Screw on Hug-A-Lugs® with Clamps, 1 Wrench Fitting: Cover is secured by screwing the 001881 onto the inner clamp. Inner clamp is placed on stud threads.	Hub Piloted	33mm - 001881

Hug-A-Lug® Nut Covers

Hub Cover System Cap Nut Cover Wrench

Part No.	Description
A00600	Cap Nut Cover Wrench for Hub Piloted Hug-A-Lugs®

Hug-A-Lug® Nut Covers

33mm Hex 2 Piece Flange Nuts (Hub Piloted Wheel) Heights 27-31mm

Part No.	Description	Finish
A001851	For 33mm Wheel Nut -Screw Direct Onto 22mm - ea	Chrome
A001811	For 33mm Wheel Nut -Push-on Type - ea	Chrome
A188000C	Black Interlocking Clip - ea	Black
A001881	Off-White Interlocking Clip - ea	Off-white
A001813	For 33mm Hex Flange Nuts - pack of 10	Chrome

Stainless Steel Nut Covers

Part No.	Description	Finish
ALCOVSS32	Alcoa Branded Nut Cover Suit Retro-Fit 32mm Nuts	Stainless Steel
ALCOVSS33	Alcoa Branded Nut Cover Suit Retro-Fit 33mm Nuts	Stainless Steel
BALGRIP	Alcoa Pliers for Stainless Steel Wheel Nut Covers	

Hug-A-Lug® Nut Covers for 1.5" Hex Nut (Ball Seat, with clamps)

Part No.	Description	Finish
A001551	For 1.5" Hex Ball Seat Nut, with clamps	Chrome

ISO Retro Fit Sleeve Nuts

Steer Wheels ISO Retro Fit Sleeve Nuts - Dacromet Treated

Part No.	Description
687632	M22 x 1.5mm - 32mm Dia/Hex Head Short Sleeve Nut - Single Wheel
687732	M22 x 1.5mm - 32mm Dia/Hex Head Short Sleeve Nut - Dual Wheel
B6142.30	M20 x 1.5mm Short Sleeve Nut for Single Steer Wheel
5784.32.00	7/8"-11 BSF Sleeved Nut for Single Mounting Scania with 32mm Bolt Holes
430732	2 Piece, 33mm Hex M22 x 1.5mm Right Hand Sleeved Capped Nut -78.5mm Height
430632	2 Piece, 33mm Hex M22 x 1.5mm Right Hand Sleeved Capped Nut -50mm Height

Rear Wheels ISO Retro Fit Sleeve Nuts - Dacromet Treated

Part No.	Description
5781.32.00	M22 x 1.5mm Long Sleeve Nut for Dual Rear Wheels
5781.32.01	M22 x 1.5mm Long Sleeve Nut for LH Dual Rear Wheels (HINO)
B6143.30	M20 x 1.5mm Long Sleeve Nut for Dual Rear Wheels
5785.32.00	7/8"-11 BSF Sleeved Nut for Dual Mounting Scania with 32mm Bolt Holes



SEE MORE ACCESSORIES



Cap Nuts for Ball Seat Wheels Outside Front Wheel Nuts

Part No.	Description
NF24-R	24mm x 1.5mm - Front, Right Hand Thread Wheel Nut
NF24-L	24mm x 1.5mm - Front Left Hand Thread Wheel Nut
37891R	1-1/8" x 16 - Right Hand Wheel Nut
37892L	1-1/8" x 16 - Left Hand Wheel Nut
NF 20_R	20mm x 1.5mm - Right Hand Wheel Nut
NF 20_L	20mm x 1.5mm - Left Hand Wheel Nut
SF18-L	Front Wheel Nut - LH 18mm
SF18-R	Front Wheel Nut - RH 18mm

Inside Rear Wheel Nuts

Part No.	Description
5978R	3/4" x 16 & 1-1/8" x 16 Right Hand Inner Cap Nut
5978L	3/4" x 16 & 1-1/8" x 16 Left Hand Inner Cap Nut
NR20_R	20mm x 1.5mm & 30 x 1.5mm Right Hand Inner Cap Nut
NR20_L	20mm x 1.5mm & 30 x 1.5mm Left Hand Inner Cap Nut
SR18-L	Rear Inner Cap Nut - LH 18mm
SR18-R	Rear Inner Cap Nut - RH 18mm

Grommet Seal Valve Stems

Part No.	Description	Length	Bend Angle
TR543C	2.50" - Suitable For European Wheels	2.50"	45°
TR543D	1.50" - Suitable For European Wheels	1.50"	60°
TR543E	1.00" - Suitable For 12.25" Wheels	1.00"	75°
TR544C	3.00" - Suitable For 88462X US Disc Brake Wheels Only	3.00"	45°
TR544D	2.00" - Suitable For Japanese Wheels	2.00"	60°
TR545D	2.50" - Suitable For D.C.N Budd Mount Alcoa Wheels	2.50"	60°
TR509	4.00" - Suitable For Old Style Budd Mount Wheels Valve in Well Base	5.00"	90°
60-MS-27N	Suitable For 88456X European Disc Brake Wheels Only		
000426	M22 x 1.5" 26mm E-Z Mount Sleeve		

ULT36X Extensions and Stabiliser (see more page 2-3)

Part No.	Description	Finish
A000460	135 Degree extension	Valve Stem Extensions
A000470	6" extension	
A000480	1" oval stabiliser	Valve Stem Extension Stabiliser
A000490	Kit includes 2 x 135 Degree extensions, 2 x 6" extensions and 4 stabilisers for ULT36x dual drive position	Valve Stem Extension Stabiliser Kit

Extensions and stabilisers are sold separately.
Extensions not required on steer position.



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