

COMPREHENSIVE CATALOGUE VEHICLE TECHNOLOGY





CONTENTS

- AL-KO Quality for life
- New Zealand Transport Agency Rules (Axles)
- Guide to technical terms / axle ordering 5
- AL-KO stud pattern chart 6
- 9 Independent Rubber Suspension (IRS) axles
- Independent Trailing Arm Suspension (ENDURO) 14
- 16 Axles
- 17 Axles - Stub axles
- Axles Bare straight tube axles 19
- 20 Axles - Bare overlay tube axles
- 21 Axles - Bare drop tube axles
- Axles Unbraked straight tube axles 22
- Axles Unbraked overlay tube axles
- 24 Axles - Unbraked drop tube axles
- 25 Axles - Braked straight tube axles
- Axles Braked overlay tube axles
- 27 Axles - Braked drop tube axles
- 28 Axles - Axle assembly parts
- Axles Hub & stub sets 31
- Hub Hubs unbraked 32
- 33 Bearings
- Bearings Kits 35
- Grease Caps, Bearing protectors, Seals 36
- 37 Wheel studs
- Brakes 38
- New Zealand Transport Agency Rules (braking requirements)
- AL-KO Brakes Types 40
- Electric Brakes Drum, Brake & Stub kits 41
- 42 Electric Brakes - Drum & Brake kits
- 43 Electric Brakes - Drums
- Electric Brakes Brake Assemblies 44
- Electric Brakes 10" Service parts 46
- Electric Brakes 12" Service parts 48
- Electric Brakes Hand brake equipment 50
- Electric Brakes Controllers 51
- Electric Brakes Breakaway 52
- 53 Electric Brakes - Electronic Stability Control
- Hydraulic Brakes Drum, Brake & Stub kits 54
- Hydraulic Brakes Drum & Brake kits 55
- 56 Hydraulic Brakes - Drums
- 57 Hydraulic Brakes - Drum brake assemblies
- Hydraulic Brakes Drum brake service parts 58
- 59 Hydraulic Brakes - Disc, Brake & Stub kits
- 60 Hydraulic Brakes - Discs & Rotors
- 61 Hydraulic Brakes - Disc brake assemblies

- Hydraulic Brakes Disc brake Service parts 62
- 63 Hydraulic Brake Actuation Equipment
- 64 AL-KO IQ7
- AL-K0 IQ7 Kits 65
- Jockey wheels 68
- Jockey wheels Swivel type 70
- Jockey wheels Clamp type 71
- Jockey wheel Spares 72
- Landing Legs 74
- Adjustable stands 76
- 77 Corner steadies
- Corner steadies Spares 79
- 80 Couplings
- 83 Couplings - Fixed 1 7/8" Ball
- Couplings Fixed 50mm Ball 85
- Couplings Override 1 7/8" & 50mm Ball
- 87 Couplings - Sway Control Couplings
- 88 Couplings - Ring Couplings
- Couplings Pintel hooks 89
- Couplings Off Road Couplings
- 90 Couplings - Spares
- Winches 93
- Winches Spares
- 97 **Springs**
- 99 Springs - 50mm Eye & Slipper Kits
- 103 Springs 50mm Eye & Slipper spares
- Springs 45mm Eye & Slipper Kits
- 106 Springs 45mm Eye & Slipper spares
- 107 Springs Parabolic
- Springs 45mm Eye & Eye
- Springs 45mm Eye & Eye kits & Spares 109
- 110 Springs 60mm Eye & Eye kits & Spares
- Springs 60mm Eye & Rocker kits
- Springs 60mm Eye & Rocker Spares
- 115 Hanger kits
- 118 U-Bolts
- Spring Bushes 121
- 122 Fishplates
- 123 Spring hangers
- 126 Rocker arms
- 125 Axle Saddles
- Spring shackle pins & Nuts
- 127 Trailer shock absorber kit
- Rims & Tyres 128
- Remis products 129
- 131 Security accessories

Quality for Life

In 1986 Colin Millichamp started a small company called CM Spares specialising in engineers supplies and Land Rover parts and built a solid reputation for quality and friendly service. Everyone knew him as a 'good bloke' and he loved his job. He sold the business so he could go deer farming, which had been his lifelong dream. Sadly only a year later he died in a quad bike accident. He will always be a big part of the company, and as such we proudly retain his initials as an integral part of our brand.

In 2018 CM Trailer Parts commenced a new phase in the history of the company when it became part of DexKo Global Inc, the world's leading supplier of advanced trailer & RV chassis technology and related components, and combined with AL-KO New Zealand to become 'CM Trailer Parts – An AL-KO Company', with a presence in both Auckland and Ashburton, allowing us to provide an even better level of service to our customers.

AL-KO International manufactures, markets and distributes a comprehensive range of products for the trailer, caravan and RV markets in Australia and New Zealand.

The company is best known for its high quality running gear range, including axles, brakes and suspension products. In addition AL-KO offers its customers a wide range of accessories, as well as chassis and under carriage components.

The company has a long and proud history in Australia spanning back to 1946, when Hornby Engineering was founded and started to produce axles in South Melbourne. In 1974 this company was acquired by Girlock and with the acquisition of two other companies in Sydney and Brisbane it became Australia's largest company in its field. In 1988 the German AL-KO Kober Group acquired the company, which signalled the start of a new

era of international involvement in New Zealand and South East Asia. The company's continued strong growth has been driven by product and innovation cementing AL-KO's position as market leader in its field.

In 2016 AL-KO commenced a new phase in its history when it became part of DexKo Global Inc. - formed as a global strategic alliance between AL-KO Vehicle Technology and U.S. market leader Dexter to become global market leader in caravan, motorhome and trailer axles and components.

Investment by DexKo Global in the Australian & New Zealand markets has since led to the acquisition of leading industry suppliers MelbourneTrailer & Caravan Supplies in 2016, G&S Chassis, Hume Caravan & camping Accessories and CM Trailer Parts in 2018, and Preston Chassis Industries in 2019.

AL-KO is proud of its reputation for high quality products and services to the trailer, caravan and motor home market. Today the company utilises CAD, CNC and robotics to design and manufacture excellent products and delivers high quality service to its customers.

AL-KO's Australian head office and main manufacturing facility is located in Melbourne, with further factories and offices in Sydney, Brisbane and New Zealand.

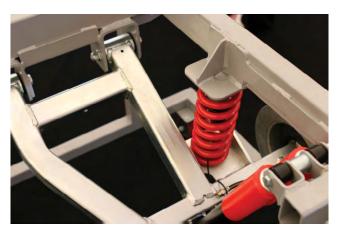


LITALKONZS00001



- → 1991 Snap-on couplings
- → 1992 Electric couplings
- → 1993 Disc brakes
- → 1994 Mechanical brakes
- → 1995 Jockey wheels
- → 1996 Swivel jockey wheels
- → 1997 Offroad electric brakes/ winches
- → 1998 Slipper springs
- → 1999 Rocker-roller springs
- → 2000 Corner steadies / bearing kits
- → 2001 Sensabrake
- → 2002/3− Drop-down corner steadies
- → 2003 AMC chassis (imported)
- → 2004 Landing legs
- → 2005 Wheels & tyres
- → 2006 Mechanical calipers
- → 2007/8− Aftermarket range
- → 2009 SensaBrake (Australian production)
- → 2010 Offroad coupling
- → 2012 Electronic Stability Control (ESC) & AMC chassis Australian production)
- → 2013/14 iQ7 (Air/Hydraulic brake actuator)
- → 2015 Anti-theft GPS tracking system(ATS)
- → 2016 Enduro independent trailing arm suspension
- ◆ 2018 AL-KO Off-Road Pin Coupling







NEW ZEALAND LAND TRANSPORT RULES

As Applicable to trailed vehicles less than 3.5 Tonne Aggregate Trailer Mass

Note: This information is a guide only. We suggest customers contact the New Zealand Land Transport for specific advice pertaining to meeting your lawful requirements.

Note: For more detailed information please contact your nearest AL-KO Branch.

Definitions and specifications for Axles

Single axle set means either one axle or two axles have their centres spaced less than one metre apart.

Tandem axle set means two axles have their centres spaced no less than one metre and no more than two metres apart.

Tri-axle set means there are three axles and:

- the centres of the first and third axles are spaced not less than two metres and not more than three metres apart, and
- all axles contain an equal number of tyres, and
- none of the axles is a single standard-tyred axle.

Axle mass (weight) limits for standard vehicles

Land Transport New Zealand outines specific mass limits allowed on Class 1 roads. There are three road-imposed legal mass limits that you must not exceed:

- 1. The individual axle limit, and
- 2. The axle set limit, and
- 3. The combined axle set limit, which depends on the distance from the first axle in any set to the last axle in any other set.

Note: As well as not exceeding an individual axle limit you must also meet the axle group limit. This means that you may not be able to load each axle to its maximum legal limit, because this could overload the axle set or group.

1: Individual axle limits

Single axle or axle set with a single standard-tyred axles (One axle or a dual axle of two axles less than one metre apart .)

For specific details on the maximum weigh consult New Zealand Land Transport.

2: Axle-set limits

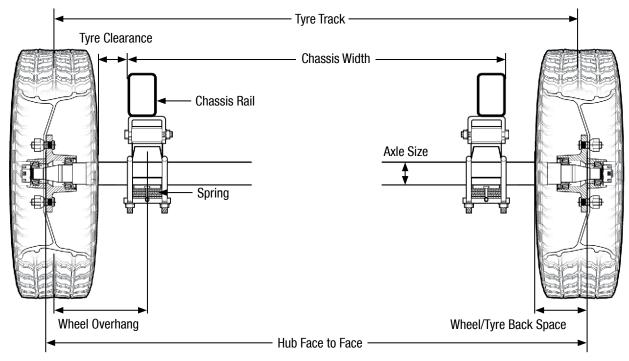
Axle set mass limits are in place due to the concentration effect of having two axles close together. If each axle was loaded to the maximum allowed for it, excess road damage would result. Some axle sets do not have load sharing so a tolerance is allowed, which is why in some cases the axle set limit is less than the sum of the individual axle limits.

Note: This information is a guide only and correct at the time of printing. We suggest customers contact the New Zealand Transport Agency, for specific advice pertaining to meeting your lawful requirements.

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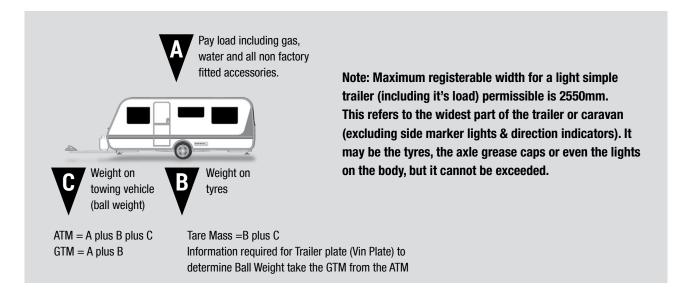


GUIDE TO TECHNICAL TERMS / AXLE ORDERING



We have listed below some technical terms you may be asked to provide to ensure your axles are made to the correct specification. Our customer service staff would be pleased to assist you with any queries you may have in regards to ordering axles.

- Capacity = Total weight of trailer + payload
- Face to face mounting face of drum/hub from one side to the other
- Chassis width is measured from outside the chassis rail
- Tyre clearance distance between the inside of the tyre and the body (per side)
- Stud pattern The location and size of wheel studs on the hub face



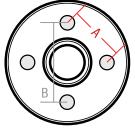
AL-KO STUD PATTERN CHART

Throughout this guide the terms Stud Pattern and Pitch Circle Diameter are in conjunction referenced with a product. Pitch circle diameter (PCD) is a reference to the number of studs equally space around a circle diameter centralised on a hub face. Stud pattern is a popular term for a combination of a PCD and stud size.

The chart below is a reference to the standard product produced by AL-KO for stud patterns.

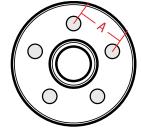
Stud Pattern	PCD	Wheel Stud Thread	Common Thread Options
Ford	5 x 4.5"	1/2" UNF	
Commodore	5 x 120mm	7/16" UNF	12mm
HT	5 x 4.25"	7/16" UNF	
HQ	5 x 4.75"	7/16" UNF	
Gemini	4 x 100mm	7/16" UNF	
Honda	4 x 100mm	7/16" UNF	
Datsun	4 x 4.5"	7/16" UNF	
Mini 7/16	4 x 4"	7/16" UNF	
5 stud LCR	5 x 150mm	9/16" UNF	14mm
6 stud LCR	6 x 139.7mm	1/2" UNF	12mm
Nissan	6 x 139.7mm	1/2" UNF	12mm
Range Rover	5 x 6.5"	5/8" UNF	
Ford F100	5 x 139.7mm	1/2" UNF	12mm
Bedford	6 x 205mm	7/8" UNF	
Land Rover Defender	5 x 6.5"	5/8" UNF	
Land Rover	5 x 6.5"	5/8" UNF	9/16" UNF
New Navara	6 x 114.3	1/2" UNF	

How to a measure PCD



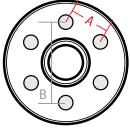
4 Stud

Measure from one stud centre to its nearest neighbour centre illustrated as "A". neighbours centre illustrated as "A". Divide "A" by 0.7071 = PCD or measure one stud centre to its furtherest neighbour centre illustrated as"B", "B" = PCD



5 Stud

Measure from one stud centre to its Divide "A" by 0.5878 = PCD



6 Stud

Measure from one stud centre to its neighbours centre illustrated as "A". Divide "A" by 0.5 = PCDor measure one stud centre to its furtherest neighbour centre illustrated as"B", "B" = PCD

Helpful Hint:

AL-KO can produce further combinations than those listed above. Contact your service agent to discus your needs.

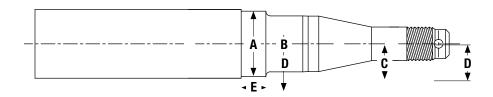
CAUTION

For Gemini/Honda or any other PCD requests to machine the outer boss reduces rating.

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AL-KO AXLE / STUB AXLE MACHINING PROFILE SELECTION

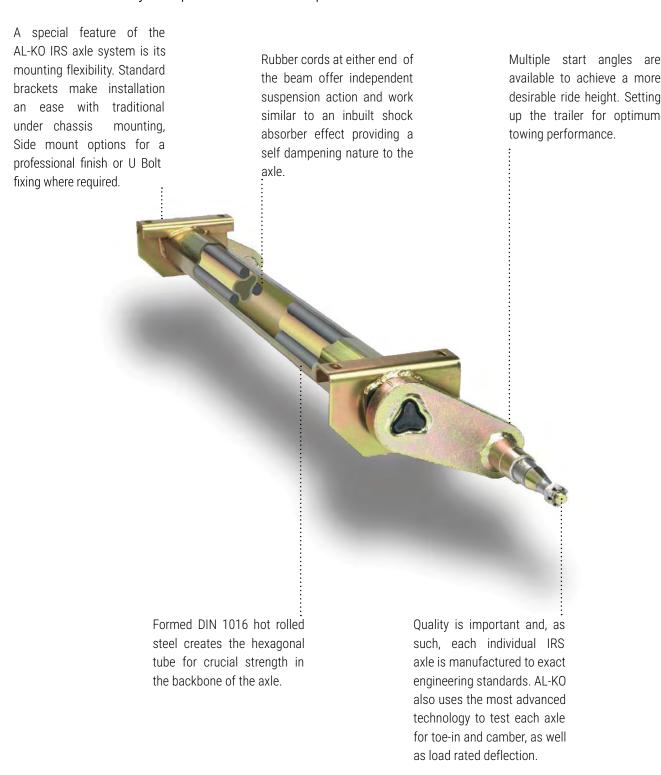


Bearing Type	Manufacturer's Bearing Number (Inner)	(B) "Nominal" Inner Bearing Diameter (mm)	Manufacturer's Bearing Number (Outer)	(C) "Nominal" Outter Bearing Diameter (mm)	(D) Thread Size & Type (inches)	(A) "Nominal" Seal Journal Diameter (mm)	(E) "Nominal" Seal Journal Length (mm)	AL-KO Seal Part Number
LM	LM 67048/10	31.75	LM 11949/10	19.05	34" UNF - 16 TPI	37.5	14mm	491016
LM Marine	LM 67048/10	31.75	LM 11949/10	19.05	34" UNF - 16 TPI	37.5	14mm	491017
SL	LM 68149/10	35.00	LM 12749/10	22.00	34" UNF - 16 TPI	43.9	27mm	492015
SL Marine	LM 68149/10	36.00	LM 12749/10	23.00	34" UNF - 16 TPI	44.9	14mm	491018
Parallel	LM 68149/10	35.00	LM 68149/10	35.00	1" UNS - 14 TPI	43.9	27mm	492015
1.5 T	LM 29749/10	38.10	LM 67048/10	31.75	1" UNS - 14 TPI	50.9	12mm	493015
2 T/2.5T	HR 30210	50.00	15123 / 15245	31.75	1" UNS - 14 TPI	60.3	18mm	494015
2 T/2.5T Marine	HR 30210	50.00	15123 / 15245	31.75	1" UNS - 14 TPI	60.3	15mm	494013
3 T	HR 30210	50.00	LM 29749/10	38.10	11/4" UNF	60.3	72mm	494015
3 T Marine	HR 30210	50.00	LM 29749/10	38.10	1¼" UNF	60.3	16mm	494013



INDEPENDENT RUBBER SUSPENSION (IRS) AXLES

The state of the art AL-KO Independent Rubber Suspension (IRS) Axle represents the benchmark in fully independent trailer suspension



Independent Rubber Suspension (IRS) axles

With over 16 million produced around the world for caravans and trailers, the AL-KO IRS axle system is now the benchmark for fully independent trailer suspension. The trend to independent suspension first revolutionised the passenger car, then four wheel drives and is now the choice for trailers too.

The AL-KO IRS axle has been proven in tough Australian conditions – from dirt tracks to fast freeways, from mountain tracks to desert highways. The demands of marine trailer towing – with the additional affect of salt water are also met with the AL-KO IRS system.

AL-KO IRS axles are a form of independent wheel suspension, this improves stability of the trailer/caravan and reduces the risk of dangerous snaking under heavy loads.

How does it work?

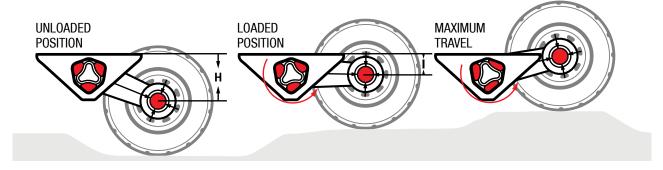
The AL-KO IRS axle uses simple and effective engineering to provide a smooth, stable and safe towing experience. Unique to the AL-KO IRS axle is the hexagonal outer axle tube, which houses three rubber elements held in place by a triple-fluted inner tube axle. Road shocks are dampened through compression of these rubber elements via suspension movement between full bump and rebound.

The unique self-dampening characteristics of the rubber element slow down the suspension rebound (as shown in Figure 1), which ensures a smooth ride over all types of road surfaces.

Mounting options

A special feature of the AL-KO IRS axle system is its mounting flexibility. The standard axle can be bolted to a bracket that is fixed on to the chassis. In marine configuration, it can be U-bolted onto the chassis rails to allow repositioning along the chassis. This provides optimum tow-ball weight under situations where the load centre is varied.

Figure 1



AL-KO's Independent Rubber Suspension axle system is extensively used in a range of applications, from off-road to marine and heavy-duty trailers.

This enables caravans and trailers of all styles to handle rough terrain and varying conditions better than ever before. Its strength and versatility ensure that this axle is perfect for use in Australia or New Zealand.

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IRS

AL-KO INDEPENDENT RUBBER SUSPENSION AXLES

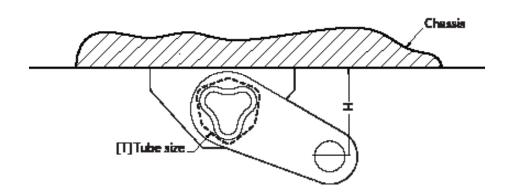
Highway Use

Zinc plated or hot dipped galvanised tube, plated swing arm stub and inner tube

Capacity (kg)	Outer Tube Size (T) (mm)	Brake Options *	Most Common Stub Length / Stub Profile (mm)	Chassis To Stub Centre (mm) Unloaded ** "Nominal" - (H)	Max Wheel Diameter
100 - 400	62	Unbraked	205 / LM	85	13"
401 - 850	80	10" Electric, 9" Hyd, Hyd or Mech Disc	205 / LM	110	14"
851 - 1450	97	10" Electric, 9" Hyd, Hyd or Mech Disc	205 or 235 / SL	130	14"
1000 - 1600	110	10" Electric, 10" Hyd, Hyd or Mech Disc	235 / SL / Parallel	145	16"
1601 - 2500	120	12" Electric, 12" Hyd, Hyd or Mech Disc	255 / 2T/2.5T	135	16"

^{*} All axles are available unbraked or with the brake options as shown.

^{***} Nominal suspension travel is 50mm at design load & a further 40-45mm at bump



^{** &}quot;Unloaded" refers to the chassis being supported and suspension arms hanging free.

Marine Use

(U-bolt fitted double width brackets) - Hot dipped galvanised tube, plated swing arm, stub and inner tube

Capacity (kg)	Outer Tube Size (T) (mm)	Brake Options *	Most Common Stub Length / Stub Profile (mm)	Chassis To Stub Centre (mm) Unloaded ** "Nominal" - (H)	Max Wheel Diameter
100 - 400	62	Unbraked	205 / LM	85	13"
401 - 850	80	10" Electric, 9" Hyd, Hyd or Mech Disc	205 / LM	110	14"
851 - 1450	97	10" Electric, 10" Hyd, Hyd or Mech Disc	205 or 235 / SL	130	14"
1000 - 1600	110	10" or 12" Electric, 10" Hyd, Hyd or Mech Disc	235 / SL / Parallel	145	16"
1601 - 2500	120	12" Electric, 12" Hyd, Hyd or Mech Disc	255 / 2T/2.5T	135	16"

Off Road Use

(15"/16" Wheels only) - Zinc plated or hot dipped galvanised tube, plated swing arm stub and inner tube

Capacity (kg)	Outer Tube Size (T) (mm)	Brake Options *	Most Common Stub Length / Stub Profile (mm)	Chassis To Stub Centre (mm) Unloaded ** "Nominal" - (H)	Max Wheel Diameter
851 - 1600	110	10" Electric, 12" Electric, Hyd or Mech Disc	235 / SL / Parallel	145	16"
1601 - 2500	120	12" Electric, Hyd or Mech Disc	255 / 2T/2.25T	135	16"

^{**} All axles are available unbraked or with the brake options as shown.

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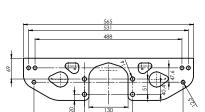
^{** &}quot;Unloaded" refers to the chassis being supported and suspension arms hanging free.

^{**} Nominal suspension travel is 50mm at design load & a further 40-45mm at bump.



Universal Chassis Bracket

To assist in fitting AL-KO IRS axles to individual chassis, a universal bracket has been developed which is welded to the trailer chassis and the AL-KO IRS axle is bolted to the bracket through side mounting bolts.

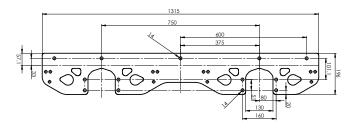


200170

Universal Chassis Bracket

Suit 80-120mm outer tube, Zinc plated – Suits standard and low line ride height/incorporates shock absorber mounting holes.





200172

Tandem Chassis Bracket

Suit 80-120mm outer tube, Zinc plated – Suits standard and low line ride height/incorporates shock absorber mounting holes.

Octagon Shock Absorber

Optimal damping thanks to precise tuning. AL-KO octagon shock absorbers have overload protection and are characterised by high-quality seals and a special oil. They are precisely optimised for a clearly defined weight range and significantly improve the driving characteristics of trailers and caravans. Trailer oscillations and "hoping" are reduced significantly.

For a long time drivers have been worried about trailer vibrations on uneven roads. Until now, conventional standard shock absorbers have barely delivered a noticeable improvement on driving safety. They are designed for a weight range that is too large (for example 0 to 4.0 t). Optimum damping was only achieved at medium trailer weights (2.0 t). Damping in the lower weight range is excessive, causing trailer bumps and jolts, while the damping in the upper weight range is inadequate. AL-KO Octagon axle shock absorbers on the other hand improve the trailer's drive characteristics and provide optimum damping – thanks to precise, weight based, tuning.







Part Number	Description	Color	Single Axle Capacity (kg)	Tandem Axle Capacity (kg)
280000HD	European caravan spare part shock absorbr, heavy duty	Blue	1350kg	2700 kg
280005HD	shock absorbr red heavy duty suit 1800kg	Red	1800 kg	3000 kg
99244084	European caravan spare part shock absorber octagon	Green	900 kg	1600 kg
99244085	European caravan spare part shock absorber octagon	Blue	1350kg	2700 kg
99244086	European caravan spare part shock absorber octagon	Red	2000 kg	3500 kg

ENDURO™

TRAILING ARM SUSPENSION

Get serious about real towing freedom with AL-KO's Enduro™ independent trailing arm suspension.

The EnduroTM range gives you the ability to conquer challenging terrain while delivering comfort and handling when you need it most. Designed and engineered by AL-KO, you know it's tested for Australian conditions and made to the quality standards demanded by the global leader in caravan, motorhome and trailer chassis technology. We don't compromise, why should you? With a product range offering freedom in all terrains, there's really only one way to go - go EnduroTM.



Learn more at alkoenduro.com.au



Enduro is divided into 3 categorise Touring, Cross Country & Outback. The 3 divisions are engineered and designed uniquely to perform in different terrain types as outlined in the table below in the suitable conditions section.

FEATURES	ENDURO Touring	ENDURO Cross Country	ENDURO Outback
SUITABLE CONDITIONS	Designed for comfort, control and durability on bitumen, graded dirt roads and corrugated roads for short distances.	Designed for comfort, control and durability on bitumen, graded dirt roads and corrugated roads for longer distances.	Designed for comfort, control and durability across any terrain including extreme off-road and outback roads.
Quality made 4x4 coil springs	✓	✓	✓
Automotive grade & maintenance free bushes	✓	✓	✓
Australian designed, tested & manufactured	✓	✓	\checkmark
Single AL-KO Premium Shock Absorber	✓		
Double AL-KO Premium Shock Absorber		✓	✓
Camber & toe adjustment	✓	✓	✓
Progressive rate bump stop	✓	✓	✓
Electric Drum Brakes	AL ·KO Brakes	AL-KO Off Road Brakes	AL-KO Off Road Brakes
Rebound cable	Not required	Not required	Not required
Wheel Travel	100mm	140mm	140mm
Chassis to Spindle/stub Centre	145mm	158mm	208mm
Max ATM single	2,200kg	2,500kg	2,700kg
Max ATM tandem	3,500kg	3,500kg	4,100kg
Weight Range / Models (ATM)	Single: 1.8T & 2.2T Non load sharing Tandem: 2.9T, 3.3T, 3.5T	Single: 1.6T, 2.0T, 2.5T Non load sharing Tandem: 3.3T, 3.5T	Single: 1.2T, 1.6T, 2.0T, 2.5T, 2.6T, 2.7T Non load sharing Tandem: 2.9T, 3.7T, 4.1T
3 year Manufacturers Warranty	✓	\checkmark	\checkmark

*Suspension weight capacities are dependent on the wheel/tyre combination used. Please contact AL-KO for further details
PLEASE NOTE: Any caravan needs be driven at speeds with respect to the terrain being traversed, the loads carried and care of both the caravan
and towing vehicle. Refer to the New Zealand Transport Agency for guidelines.

ENGINEERED AND BUILT IN AUSTRALIA FOR TOUGH CONDITIONS

Designed, manufactured and rigorously tested for durability, control, comfort and choice of terrain.

SUBJECTED TO AN EXTREME TESTING PROGRAM

Extensive pressure testing has been undertaken at dedicated research and development facilities.

FITTED WITH AL-KO PREMIUM HEAVY DUTY SHOCK ABSORBERS

Heavy duty shock absorbers- designed and pressure tested to optimise performance.

DESIGNED FOR EASY INSTALLATION & ACCURATE ALIGNMENT

Provides maximum adjustability with integrated toe and camber adjustments.

QUALITY MADE 4X4 STYLE COIL SPRINGS

Coil springs manufactured with high quality, high stress spring steel that is up to 30% lighter compared standard grade steel alternatives.

MAINTENANCE FREE BUSHES

High quality maintenance free polyurethane suspension bushes require no additional grease after their initial installation.

NO-COMPROMISE APPROACH

AL-KO is proud of its uncompromising approach. Each component within the AL-KO Enduro™ independent trailing arm suspension system is tested to ensure it meets the highest quality standards and to ensure compatibility with the latest caravan safety features, such as electronic stability control (ESC), an AL-KO world breakthrough.

AXLES

SOLID, STUB & TUBE AXLES

The axle is one of the most important components of any trailed product.

It is the backbone of the carrying system and care should be taken to ensure that the appropriate style and capacity of axle are chosen for your application.

All axle styles are available with a wide variety of hubs and brake types.

AL-KO only source quality materials to construct all axles. The high quality beam that is precision machined is critical in creating the strength required to carry your payload.

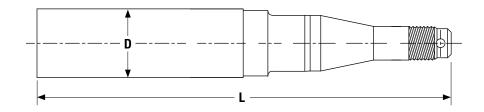
Manufactured to meet your needs for carrying capacity, length and construction type: Bare, Assembled, Straight, Overlay or Drop.

Precision machining to suit standard bearing options for a range of capacities whilst keeping replacement parts easy to come by.

Surface Finishes available include raw (black) or for more corrosive resistance zinc plated and galvanised.



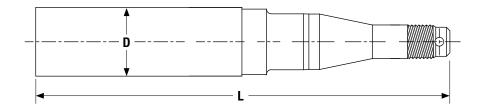
STUB AXLES



Stub Axle Stock Lines

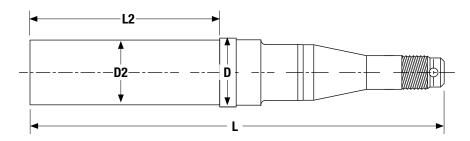
Part Number	Axle Size (D) (mm)	Axle Beam Profile	Capacity Per Pair (kg)	Machining Profile and Detail	Length (L)
143917NZ	39mm	Round	1500kg	LM	235mm
143921NZ	39mm	Round	1500kg	LM Suits marine seal	250mm
143933NZ	39mm	Round	1500kg	LM with 9" hydraulic drum brake mount plate	270mm
143934NZ	39mm	Square	1500kg	LM with 10" Electric brake mount plate	270mm
143938NZ	39mm	Round	1500kg	LM with hydraulic caliper mount plate	270mm
143939NZ	39mm	Round	1500kg	LM with mechanical caliper mount plate	270mm
144092	40mm	Square	1500kg	LM marine	270mm
144100	40mm	Square	1500kg	LM with 10" Electric brake mount plate	270mm
144505	45mm	Square	1500kg	LM	210mm
144509	45mm	Square	1500kg	LM marine	250mm
144628	45mm	Round	1750kg	SL marine	235mm
144620	45mm	Round	1750kg	SL	205mm
144622	45mm	Round	1750kg	SL marine	205mm
144645	45mm	Round	1750kg	SL with 9" hydraulic drum brake mount plate	270mm
144647	45mm	Round	1750kg	SL with hydraulic caliper mount plate - 14"	270mm
144648	45mm	Round	1750kg	SL with hydraulic caliper mount plate - 16"	270mm
144650	45mm	Round	1750kg	SL with mechanical caliper mount plate - 16"	270mm

STUB AXLES



Stub Axle Stock Lines

Part Number	Axle Size (D) (mm)	Axle Beam Profile	Capacity Per Pair (kg)	Machining Profile and Detail	Length (L)
145019	50mm	Square	2500kg	2/2.5T with marine collar	330mm
145033DM	50mm	Square	2500kg	2/2.5T marine with hydraulic and mechanical caliper mount plate	330mm
145033HM	50mm	Square	2500kg	2/2.5T marine with hydraulic caliper mount plate	330mm
145038	50mm	Square	2500kg	2/2.5T with 12" Electric brake mount plate suits 2 piece hub drum	305mm
145038HD	50mm	Square	2500kg	2/2.5T with 12" Electric brake mount plate suits 1 piece hub drum	310mm
145615	56mm	Round	2500kg	2/2.5T	230mm



Stub Axle For Tube Axles

Part Number	Axle Size (D) (mm)	Diameter (D2) (mm)	Axle Beam Profile	Capacity Per Pair (kg)	Machining Profile and Detail	Length (L)	Length (L2)
144654TB141	45mm	40.15mm	Round	1750kg	SL with 10" Electric brake mount plate	280mm	141mm
144654TB141	45mm	40.15mm	Round	1750kg	SL marine	280mm	141mm
144656TB141	45mm	40.15mm	Round	1750kg	SL marine with 10" Electric brake mount plate	280mm	141mm

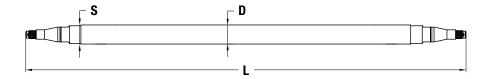
18 ALKO www.alko.co.nz LITALKONZS00001



BARE AXLES

Straight Tube Axles

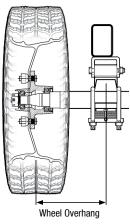
AL-KO provide engineered tube axle constructed from thick wall C450 grade steel tube. Precession made stub axles are aligned, seam and plug welded and checked for quality. Available Coatings - Natural, Zinc plated or Duragal. All axles are supplied standard as raw black material, for available coating please mention when placing order.



Square Tube Size (D)	Stub Profile (S)	Axle Carrying Capacity (kg)	Machining Profile	Maximur Overl Highway		Length (L)
50x50x5mm Square	39mm Round	1500 kg	LM	285mm	215mm	
50x50x5mm Square	40mm Square	1500 kg	LM	285mm	215mm	Axles can be
50x50x6mm Square	45mm Round	1750 kg	SL	285mm	215mm	manufactured to your
50x50x6mm Square	45mm Square	1750 kg	SL	285mm	215mm	required length (to nearest 5mm
50x50x6mm Square	50mm Round	1750 kg	SL	285mm	215mm	increment)
50x50x6mm Square	50mm Square	1750 kg	SL	285mm	215mm	
65x65x6mm Square	50mm Square	2000 kg	2/2.5T	260mm	195mm	

^{*} Brake mounting flange can be fitted upon request to suit your brake requirements.

Axles are manufactured to your requirements, contact your AL-KO branch for lead times.



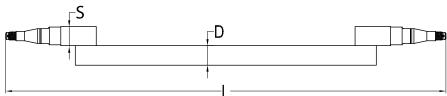
Note: AL-KO advise the overhang length as the distance from the centre of the spring pack to the centre of the tyre.

BARE AXLES

Overlay Tube Axles

This type of axle is manufactured from C450 grade steel tube, however the stub axles are welded on top of the main structural beam. This has the effect of lowering the trailer height an amount equal to the distance from the centre of the beam to the centre of the stub axle. For example on a 45 mm square overlay axle of 1750 kg capacity, the trailer height is lowered by 45 mm compared to a straight axle of the same capacity. Why is lowering of the trailer an advantage? The lower the trailer the better the stability, and the lower wind resistance when towing. Also a lower trailer can be an advantage for accessing. This style of beam axle is extensively used by the caravan industry to provide a strong, reasonably priced, lower ride height axle option. Available Coatings - Natural, zinc plated or hot dipped galvanised. All axles are standard raw black material. Hot dipped galvanised or zinc plated available on request when placing order.

Overlay axles manufactured by AL-KO have undergone extensive evaluation of weld strength and you can be assured of the quality.



Stub Profile (S)	Square Tube Size (D)	Axle Carrying Capacity (kg)	Machining Profile	Maximui Overl Highway		Length (L)
39mm Round	50mm Square	1500 kg	LM	285mm	215mm	
40mm Square	50mm Square	1500 kg	LM	285mm	215mm	Axles can be
45mm Round	50mm Square	1750 kg	SL	285mm	215mm	manufactured to your
45mm Square	50mm Square	1750 kg	SL	285mm	215mm	required length (to nearest 5mm
50mm Round	50mm Square	1750 kg	SL	285mm	215mm	increment)
50mm Square	50mm Square	1750 kg	SL	285mm	215mm	
50mm Square	65mm Square	2500 kg	2/2.5T	260mm	195mm	

^{*} Brake mounting flange can be fitted upon request to suit your braking requirements

The above table references commonly built overlay axles, please consult your AL-KO branch about further options.

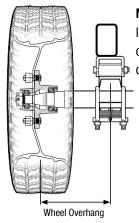
Helpful Hint:

20

For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 7.

CAUTION

On some applications the combination of chassis clearance (w) and stub axle length required for the wheel/ tyre combination may exceed maximum width registerable.



Note: AL-KO advise the overhang length as the distance from the centre of the spring pack to the centre of the tyre.

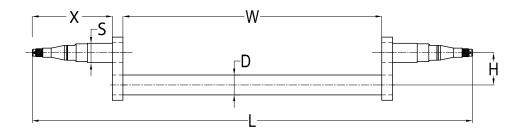
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BARE AXLES

Drop Tube Axles

When an even lower ride height than that available from overlay axles is required, AL-KO produces a series of "drop" axles. This trailer industry term refers to an axle where there is a gap between the stub axle and the main structural tube, and this can vary up to a maximum of 100 mm from centre of the stub axle to the centre of the beam. This is achieved by using welded "drop plates" which join the main structural tube and the stub axles. This has the effect of lowering the trailer and is typically used for such applications as race car trailers and horse floats where an easy and low access into the trailer is needed. When considering the use of a drop axle, there are more dimensional constraints than with other types of beam axles. As the drop plates need to pass the outside of the chassis or body during suspension movement, a drop axle always needs more distance from the body to the wheel centre. Whilst this can at times be a problem, talk to your AL-KO sales contact to assist with what can be made to suit your specific dimensional needs. Available Coatings - Natural, zinc plated or hot dipped galvanised. All axles are standard raw black material. Hot dipped galvanised or zinc plated available on request when placing order.



Stub Axle Profile (S) / Length (mm)	Square Tube Size (D)	Axle Carrying Capacity (kg)	Machining Profile	Drop Height (H) mm/ inches	Drop Arm Width	Stub Extension (X)	Length (L)
45mm Round, 195mm long	50mm Square	1750 kg	SL	65mm (2 1/2")	25mm	170mm	Axles can be
45mm Round, 195mm long	50mm Square	1750 kg	SL	75mm (3")	25mm	170mm	manufactured to your required
45mm Round, 195mm long	50mm Square	1750 kg	SL	100mm (4")	25mm	170mm	length (to nearest 5mm
50mm Round, 195mm long	50mm Square	1750 kg	SL	65mm (2 1/2")	32mm	163mm	increment)

^{*} Brake mounting flange can be fitted upon request to suit your braking requirements

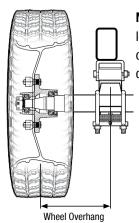
The above table references commonly built drop axles, please consult your AL-KO branch about further options.

Helpful Hint:

For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 7.

CAUTION

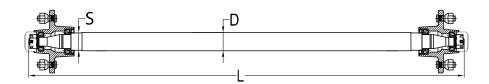
On some applications the combination of chassis clearance (w) and stub axle length required for the wheel/tyre combination may exceed maximum width registerable.



Note: AL-KO advise the overhang length as the distance from the centre of the spring pack to the centre of the tyre.

UNBRAKED AXLES

Straight Tube Axles (Assembled)



Stub Axle Size (S) (mm)	Square Tube Size (D)	Axle Carrying Capacity (kg)	Machining Profile	Max Permissable Wheel Diameter	Max Permissable Wheel Diameter
39mm Round	50mm Square	1500 kg	LM	Whilst some standard	14"
45mm Round	50mm Square	1750 kg	SL	axles lengths are carried in	14"
45mm Square	50mm Square	1750 kg	SL	stock, lengths are for the	16"
50mm Round	50mm Square	1750 kg	SL	majority of product made	14"
50mm Square	50mm Square	1750 kg	SL	to order within 5mm.	16"
50mm Square	65mm Square	2500 kg	2/2.5T		16"

AL-KO manufacturers axles to suit most popular wheel patterns, see page 6 for more information on PCDs. For fitment of less common wheel types, please contact your nearest AL-KO branch.

All axles are standard raw black material. Hot dipped galvanised or Zinc plated available on request when placing order.

Axles are manufactured to your requirements, contact your AL-KO branch for lead times.

Helpful Hint:

For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 7.

CAUTION

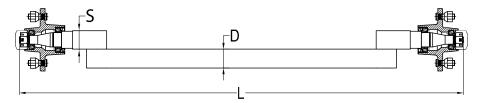
On some applications the combination of chassis clearance (w) and stub axle length required for the wheel/ tyre combination may exceed maximum width registerable.

22 ALKO www.alko.co.nz LITALKONZS00001



UNBRAKED AXLES

Overlay Tube Axles (Assembled)



Stub Axle Size (S) (mm)	Square Tube Size (D)	Axle Carrying Capacity (kg)	Machining Profile	Length (L)	Max Permissable Wheel Diameter
39mm Round	50mm Square	1500 kg	LM	Axles can be	14"
45mm Round	50mm Square	1750 kg	SL	manufactured to your	16"
45mm Round	50mm Square	1750 kg	SL	required length (to	14"
56mm Round	65mm Square	2500 kg	2/2.5T	nearest 5mm increment)	16"

AL-KO manufacturers axles to suit most popular wheel patterns, see page 6 for more information on PCDs. For fitment of less common wheel types, please contact your nearest AL-KO branch.

All axles are standard raw black material. Hot dipped galvanised or Zinc plated available on request when placing order.

The above table refferences commonly built overlay axles. Axles are typically manufactured to your requirements, contact your AL-KO branch for lead times.

Helpful Hint:

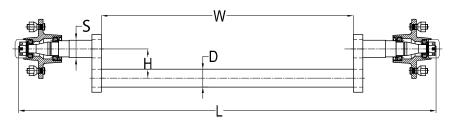
For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 7.

CAUTION

On some applications the combination of chassis clearance (w) and stub axle length required for the wheel/ tyre combination may exceed maximum width registerable.

UNBRAKED AXLES

Drop Tube Axles (Assembled)



Stub Axle Size (S) (mm)	Square Tube Size (D) (D)	Axle Carrying Capacity (kg)	Machining Profile	Avaliable Drop Heights (H)	Length (L)	Max Permissable Wheel Diameter
45mm round	50 mm Square	1750 kg	SL	65mm (2 1/2") 75mm (3") 100mm (4")	Axles can be manufactured to your	16"
56mm round	50 mm Square	1750 kg	SL	75mm (3")	required length (to	14"
56mm round	50 mm Square	1750 kg	SL	100mm (4")	nearest 5mm increment)	14"

AL-KO manufacturers axles to suit most popular wheel patterns, see page 6 for more information on PCDs. For fitment of less common wheel types, please contact your nearest AL-KO branch.

All axles are standard raw black material. Hot dipped galvanised or Zinc plated available on request when placing order.

The above table refferences commonly built drop axles. Axles are typically manufactured to your requirements, contact your AL-KO branch for lead times.

Helpful Hint:

For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 7.

CAUTION

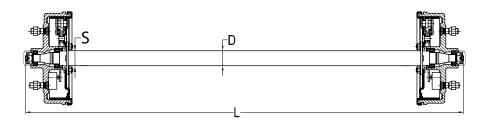
On some applications the combination of chassis clearance (w) and stub axle length required for the wheel/ tyre combination may exceed maximum width registerable.

24 ALKO www.alko.co.nz LITALKONZS00001



BRAKED AXLES

Straight Tube Axles (Assembled)



Stub Axle Size (S) (mm)	Square Tube Size (D) (D)	Axle Carrying Capacity (kg)	Machining Profile	Length (L)	Max Permissable Wheel Diameter	Common Brake Options		
39mm Round	50mm Square	1500 kg	LM	Whilst some standard			14"	10" Electric, 10" Hydraulic & Hydraulic Disc
40mm Square	50mm Square	1500 kg	LM			14"	10" Electric, 10" Hydraulic & Hydraulic Disc	
45mm Round	50mm Square	1750 kg	SL		14"	10" Electric, 10" Hydraulic & Hydraulic Disc		
45mm Square	50mm Square	1750 kg	SL	axles lengths are carried in stock, The	16"	10" Electric, 10" Hydraulic & Hydraulic Disc		
50mm Round	50mm Square	1750 kg	SL	majority are made to order within 5mm.	14"	10" Electric, 10" Hydraulic & Hydraulic Disc		
50mm Square	50mm Square	1750 kg	SL		16"	10" Electric, 10" Hydraulic & Hydraulic Disc		
50mm Square	65mm Square	2500 kg	2/2.5T		16"	12" Electric & Hydraulic Disc		

** Capacities shown are axle capacities and may not necessary reflect compatible brake performance.

For further information on brake options shown please see our brake section on page 38.

AL-KO manufacturers axles to suit most popular wheel patterns, see page 6 for more information on PCDs. For fitment of less common wheel types, please contact your nearest AL-KO branch.

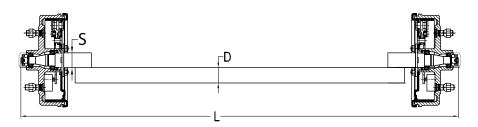
All axles are standard raw black material. Hot dipped galvanised or Zinc plated available on request when placing order.

The above table refferences commonly built axles. Axles are typically manufactured to your requirements, contact your AL-KO branch for lead times.

Larger capacities available on request.

BRAKED AXLES

Overlay Tube Axles (Assembled)



Stub Axle Size (S) (mm)	Square Tube Size (D)	Axle Carrying Capacity (kg)	Machining Profile	Length (L)	Max Permissable Wheel Diameter	Common Brake Options
40mm Square	50mm Square	1500 kg	LM	Axles can be	14"	10" Electric,
45mm Square	50mm Square	1750 kg	SL	manufactured to	16"	10" Hydraulic &
45mm Square	50mm Square	1750 kg	SL	your required length (to nearest 5mm	14"	Hydraulic Disc
50mm Square	65mm Square	2500 kg	2/2.5T	increment)	16"	12" Electric & Hydraulic Disc

^{**} Capacities shown are axle capacities and may not necessary reflect compatible brake performance.

For further information on brake options shown please see our brake section on page 38

AL-KO manufacturers axles to suit most popular wheel patterns, see page 6 for more information on PCDs. For fitment of less common wheel types, please contact your nearest AL-KO branch.

All axles are standard raw black material. Hot dipped galvanised or Zinc plated available on request when placing order.

The above table refferences commonly built overlay axles. Axles are typically manufactured to your requirements, contact your AL-KO branch for lead times.

Larger capacities available on request.

Helpful Hint:

For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 7.

CAUTION

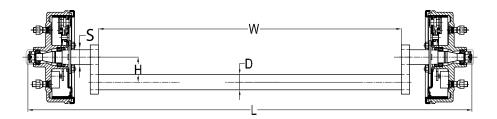
On some applications the combination of chassis clearance (w) and stub axle length required for the wheel/ tyre combination may exceed maximum width registerable.

26 ALKO www.alko.co.nz LITALKONZS00001



BRAKED AXLES

Drop Tube Axles (Assembled)



Stub Axle Size (S) (mm)	Square Tube Size (D)	Axle Carrying Capacity (kg)	Machining Profile	Drop Height (H) MM/ Inches	Length (L)	Max Permissible Wheel Diameter	Common Brake Options
45mm	50mm Square	1400 kg	SL	65mm (2½") 75mm (3") 100mm (4")	Axles can be manufactured to your required	16"	10" Electric, 10" Hydraulic & Hydraulic Disc
50mm	50mm Square	1750 kg	SL	65mm (2½") 100mm (4")	length (to nearest 5mm increment)	14"	10" Electric, 10" Hydraulic & Hydraulic Disc

^{**} Capacities shown are axle capacities and may not necessary reflect compatible brake performance.

For further information on brake options shown please see our brake section on page 38

AL-KO manufacturers axles to suit most popular wheel patterns, see page 6 for more information on PCDs. For fitment of less common wheel types, please contact your nearest AL-KO branch.

All axles are standard raw black material. Hot dipped galvanised or Zinc plated available on request when placing order.

The above table refferences commonly built drop axles. Axles are typically manufactured to your requirements, contact your AL-KO branch for lead times.

Larger capacities available on request.

Helpful Hint:

For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 7.

AXLE ASSEMBLY PARTS

LM & SL



190001 Washer 3/4" I.D. x 1 1/2" ZINC **Suits** LM & SL Machinings



190002 Nut slotted 3/4" UNF **Suits** LM & SL Machinings



190003 Split pin 4mm x 25mm ZINC **Suits** LM & SL Machinings

2/2.5T



190015 Washer 25.9 I.D. x 53.6 O.D. x 3.9 **Suits** 2t Machinings & Parallel



190007 Nut slotted 1" UNS 14TPI **Suits** 2t Machinings & Parallel



190005 Split pin 5mm x 40mm **Suits** 2t Machinings & Parallel

Brake to Axle



190052 Washer 3/8" EXT Shake proof **Suits** 9" Hydraulic Brake



190054 Washer 7/16" EXT shake proof **Suits** 10" Electric Brake & 9" Mechanical Brake



190056 Washer flat 7/16" x 7/8" ZINC **Suits** 10" Electric Brake



390011 Mounting nut hex 3/8" UNF

28



390021 Nut hex 7/16 UNF zinc plated

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AXLE ASSEMBLY PARTS

Drop Plates



130003

Axle drop plate
Drop: 3"
Suits Stub: 39rd
Suits Beam: 40sq
Thickness: 25mm



130004

Axle drop plate
Drop: 4"
Suits Stub: 39rd
Suits Beam: 40sq
Thickness: 25mm



130005

Axle drop plate
Drop: 2 1/2"
Suits Stub: 39rd
Suits Beam: 40sq
Thickness: 25mm



130006

Axle drop plate
Drop: 2 1/2"
Suits Stub: 45rd
Suits Beam: 45sq
Thickness: 25mm



130007

Axle drop plate
Drop: 3 1/2"
Suits Stub: 45rd
Suits Beam: 45sq
Thickness: 25mm



130008

Axle drop plate
Drop: 4"
Suits Stub: 45rd
Suits Beam: 45sq
Thickness: 25mm



130009

Axle drop plate
Drop: 3"
Suits Stub: 45rd
Suits Beam: 45sq
Thickness: 25mm



130010

Axle drop plate
Drop: 4"
Suits Stub: 56rd
Suits Beam: 50sq
Thickness: 32mm



130011

Axle drop plate
Drop: 3"
Suits Stub: 56rd
Suits Beam: 50sq
Thickness: 32mm



130015 Axle drop plate Drop: Suits Stub: 45rd Suits Beam: 50sq Thickness: 25mm



130016 Axle drop plate, scalloped. Drop: 4" 45rd Suits Stub: Suits Beam: 50sq Thickness: 32mm



130017 Axle drop plate Drop: 2 1/2" 50rd Suits Stub: Suits Beam: 50sq Thickness: 32mm



130018 Axle drop plate Drop: 2 1/2" Suits Stub: 45rd Suits Beam: 45sq Thickness: 25mm



130019 Axle drop plate Drop: 2 1/2" 45rd Suits Stub: Suits Beam: 45sq Thickness: 32mm



130020 Axle drop plate Drop: 45rd Suits Stub: Suits Beam: 45sq Thickness: 32mm



130021 Axle drop plate Drop: 45rd Suits Stub: Suits Beam: 50sq Thickness: 32mm



130022 Axle drop plate Drop: 50rd Suits Stub: Suits Beam: 50sq Thickness: 32mm



130023 Axle drop plate 2 1/2" Drop: Suits Stub: 45rd Suits Beam: 50sq Thickness: 32mm



130024 Axle drop plate Drop: 45rd Suits Stub: Suits Beam: 50sq Thickness: 32mm

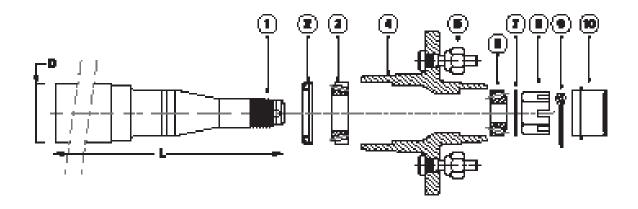
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HUB & STUB AXLE SETS

All AL-KO hub stub assemblies come complete with;

Stub axle (1), Grease seal (2), Inner & outter bearings (3 & 6), Studded hub (4), Wheel Nuts (5), Axle washer (6), Axle nut (7) Split pin (8), Grease cap (9)



Range Overview

The following table is an overview of the product range that can be tailor to suit your requirements.

Axle Size (D) (mm)	Axle Beam Profile	Capacity Per Pair (kg)	Machining Profile	Length (L)	Max Permissable Wheel Diameter
39 mm	Round	1500 kg	LM		14"
40 mm	Square	1500 kg	LM		14"
45 mm	Square	1500 kg	LM		14"
45 mm	Round	1750 kg	SL	Length should be nominated	16"
45 mm	Square	1750 kg	SL	from the stub axle range on	16"
50 mm	Square	2500 kg	2/2.5T	page 16	16"
56 mm	Round	2500 kg	2/2.5T		16"
63 mm	Square	3000 kg	3.0 tonne		16" / Bedford
65 mm	Round	3000 kg	3.0 tonne		16"

Popular Hub & Stub Selections

The following tables are a selection from the total hub stub range that are the most frequentley selected.

Part Number	Maximum Capacity/Pair	Stub Profile	Drilling Pattern	Seal	Bearing
153937MPLNZ	1500kg	39mm round	5 stud FORD	MARINE	LM
153937PLNZ	1500kg	39mm round	5 stud FORD	Standard	LM
154542PLNZ	1750kg	45mm round	5 stud FORD	MARINE	SL
154542PLNZ	1750kg	45mm round	5 stud FORD	MARINE	SL
154641PLNZ	1750kg	45mm round	6 stud LCR	MARINE	SL
155128PL	2500kg	56mm round	6 stud LCR	Standard	2/2.5T

HUBS

AL-KO manufacturers a wide range of trailer hubs and can accommodate just about any wheel drilling pattern.

All of AL-KO's hubs are manufactured from high grade ductile iron to give maximum achievable strength.

Some of AL-KO's hubs are available in zinc plated or hot dipped galvanised finish as well as the traditional raw cast finish.

The capacity of a hub is dependant on the size of wheel bearings fitted and such dimensional limits as flange diameter and the available hole in the wheel to which it is fitted. (On the hub this is the hub outer boss dimension).

To ascertain what hub from the vast AL-KO range is required it is important to know the following:

- 1. Total load you expect a pair of hubs to carry in kg.
- 2. Wheel bearing type to be fitted (LM, SL, 2t, etc). See pages 31-33
- 3. Wheel drilling pattern (HQ Holden, 5 stud Ford, 6 stud Landcruiser).

This information is usually enough to specify the hub you need.

AL-KO can supply hubs from studded only through to hubs complete with studs, wheel nuts, bearings, grease seals and caps supplied.

Plated







TYPE: Hub

DESCRIPTION: 8"
TYPE: Hub

TYPE: 2/2.5T Hub

Standard Hub Part Number	Maximum Capacity Per Pair of Hubs With Fitted Bearing	Available Bearing Types That Can be Fitted	Flange Diameter (Nominal)	Hub Outer Boss Diameter (Nominal)	Drilling Pattern
441200PL	1500 kg	LM	150mm	60.9mm	Ford
440154PL	1750 kg	SL	150mm	60.9mm	Ford
440113PL	1500 kg	LM	150mm	60.9mm	Commodore
440112PL	1500 kg	LM	150mm	60.9mm	HQ Holden
440118PL	1500 kg	LM	150mm	53.0mm	Gemini/Honda (Machined outer boss reduces rating)
440121PL	1500 kg	LM	150mm	60.9mm	Datsun
440117PL	1500 kg	LM	140mm	60.9mm	Mini 7/16
440100PL	1500 kg	LM	139.7mm	60.9mm	undrilled
442200PL	1750 kg	SL	190mm	60.9mm	6 stud Land Cruiser/Nissan
444200PL	2000 kg	2/2.5T	205mm	105.5mm	6 stud Land Cruiser / Nissan
441200G	1500kg	LM/SL	150mm	60.9mm	Ford
441205	1500kg	LM	150mm	60.9mm	HQ
441206	1500kg	LM	150mm	60.9mm	HT
441231	1500kg	LM	150mm	60.9mm	Ford
441204	1500kg	LM	150mm	60.9mm	Commodore
441121	1500kg	LM	140mm	60.9mm	600 x 9 5 x 4.25" PCD
441235	1750kg	SL	150mm	60.9mm	HQ
441240	1750kg	SL	150mm	60.9mm	HT
441245	1750kg	SL	150mm	60.9mm	Ford

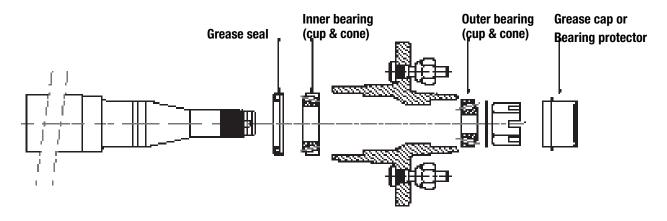
32 ALKO www.alko.co.nz LITALKONZS00001

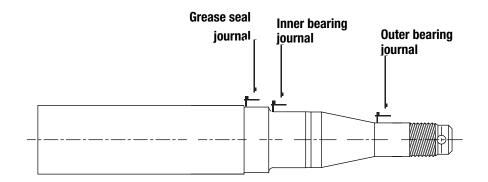


BEARINGS & BEARING SETS

Bearings comprise of two parts, the cup which is pressed into the hub and the cone, this is the part that contains the rollers of the bearing. Bearings should always be replaced in a set, that is the cup and cone together. In a bearing combination in a hub, the bearing on the inside of the hub flange (the side closest to the centre of the trailer) is called the inner bearing. The bearing on the outside is called the outer bearing.

BEARING DETAILS





LM Bearing

Description	Part No.	Manufacturers Part No.	Housing diameter nominal	Bearing journal/seal journal diameter nominal
Inner cup Japanese	491006	LM67010 (Holden Inner)	59.10 mm	N/A
Inner cone Japanese	491007	LM67048 (Holden Inner)	N/A	31.75mm
Outer cup Japanese	491011	LM11910 (Holden outer)	45.20 mm	N/A
Outer cone Japanese	491012	LM11949 (Holden outer)	N/A	19.05mm
Grease seal	491015	28550	59.10 mm	37.5mm
Grease cap	491020	DC1	45.20 mm	N/A
Grease seal marine	491017	N/A	N/A	37.5mm
Seal backing ring	491019	N/A	59.10 mm	N/A
Bearing Protector, no cap (Pair)	630010	N/A	45.20 mm	N/A
Bearing Protector, with cap (Pair)	630020	N/A	45.20 mm	N/A
Bearing Protector Cap – each	630015	N/A	45.20 mm	N/A

SL Bearing

Description	Part No.	Manufacturers Part No.	Housing diameter nominal	Bearing journal/seal journal diameter nominal
Inner cup Japanese	492006	L68110 (Ford inner)	59.10 mm	N/A
Inner cone Japanese	492007	L68149 (Ford inner)	N/A	35.0mm
Outer cup Japanese	492011	LM12710 (Ford outer)	45.20 mm	N/A
Outer cone Japanese	492012	LM12749 (Ford outer)	N/A	22.0mm
Grease seal	492015	28600	59.10 mm	43.9mm
Grease cap	491020	DC1	45.20 mm	N/A
Grease seal marine	491018	N/A	N/A	43.9mm
Seal backing ring	491019	N/A	59.10 mm	N/A
Bearing Protector, no cap (Pair)	630010	N/A	45.20 mm	N/A
Bearing Protector, with cap (Pair)	630020	N/A	45.20 mm	N/A
Bearing Protector Cap – each	630015	N/A	45.20 mm	N/A

2/2.5 Tonne Bearing

Description	Part No.	Manufacturers Part No.	Housing diameter nominal	Bearing journal/seal journal diameter nominal
Inner cup & cone Japanese	494005	HR30210	89.96mm	50.00mm
Outer cup & cone Japanese	494010	15123/15245	61.95mm	31.75mm
Grease seal	494015	64607	89.96mm	60.3mm
Grease cap	493020	DC2	63.00mm	N/A

3 tonne Bearing

34

Description	Part No.	Manufacturers Part No.	Housing diameter nominal	Bearing journal/seal journal diameter nominal
Inner cup & cone Japanese	494005	HR30210	89.96mm	50.00mm
Outer cup & cone Japanese	493002	LM29749/10	65.06mm	38.10mm
Grease seal	494015	64607	89.96mm	60.3mm
Grease cap	495020	DC3	76.00mm	N/A

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Bearing Kits





482005 Trailer Bearing Kit, Japanese, LM.

LM



482015 Trailer Bearing Kit, Chinese, LM

LM



482021 Marine Bearing Kit, Chinese, LM

LM



482051 Marine Bearing Kit, Japanese, LM

SL



484005 Trailer Bearing Kit, Japanese, SL

SL



482036 Trailer Bearing Kit, Chinese, SL

SL



484055 Marine Bearing Kit, Chinese, SL

SL



484051 Marine Bearing Kit, Japanese, SL

SL



484005 Caravan Bearing Kit, Japanese, SL

2/2.5T



487001 Caravan Bearing Kit, Japanese, 2500kg/Pair

2/2.5T



487002M Marine Bearing Kit, Japanese, 2500kg/Pair

GREASE CAPS, BEARING PROTECTORS & SEALS



491020 Grease cap H26. Suits: LM, SL Suits nominal housing diameter: 45.2mm



493020 Grease cap DC2. Suits: parallel / 1.5 tonne & 2/2.5T. Suits nominal



493020P Grease cap DC2 black coated. Suits: parallel /1.5 tonne & 2/2.5T. Suits nominal housing diameter: 63.0mm



630010 Bearing Protector, no cap (Pair)



630020 Bearing Protector, with cap (Pair)



630015
Bearing Protector Cap – each



491015 Seal 609 - LM, Single lip Suits nominal housing diameter: 59.1mm Seal Journal: 37.5mm



491016 Seal 17227 - LM, Double lip Suits nominal housing diameter: 59.1MM Seal Journal: 37.5mm



491017 Seal Marine - LM, 2 Piece Suits nominal housing diameter: 59.1MM Seal Journal: 37.5mm



491018
Seal Marine - SL, 2 Piece
Suits nominal
housing diameter: 59.1MM
Seal Journal: 43.9mm



492015 Seal 610 - SL, Double lip Suits nominal housing diameter: 59.1mm Seal Journal: 43.9mm



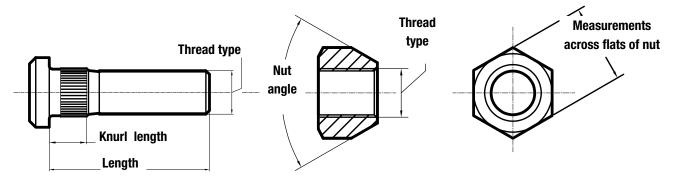
494015 Seal 610 - 2/2.5/3 Tonne. Suits nominal housing diameter: 89.96mm Seal Journal: 60.3mm

36 ALKO www.alko.co.nz LITALKONZS00001



WHEEL STUDS & NUTS

AL-KO wheel studs are all fitted using a knurled section stops the stud from rotating. Always ensure that only quality studs and nuts are used, which are correct for the wheel selected.



Wheel Studs

Part No.	Description	Thread Type & Size	Length From Under Head	Nominal Hole Diameter	Knurl Length From Under Head
490200	7/16" UNF short knurl	7/16 " UNF	41mm	13.5mm	5mm
490205	Plated7/16" UNF short knurl	7/16" UNF	41mm	13.5mm	8mm
490300	1/2" UNF short knurl	1/2" UNF	41mm	13.5mm	9mm
490301	1/2" UNF short knurl industrial	1/2" UNF	51mm	15.5mm	11mm
490301PL	Plated 1/2" UNF short knurl industrial	1/2" UNF	51mm	15.5mm	11mm
490302	1/2" UNF long knurl industrial	1 /2" UNF	57mm	15.5mm	21mm
490305	Plated 1/2" UNF Short knurl	1 2" UNF	41mm	13.5mm	9mm
490358	Plated M12 short knurl	M12 x 1.5	41mm	13.5mm	5mm
490340	M14 x 50mm short knurl	M14 x 1.5	50mm	15.5mm	11mm
490345	M14 x 58mm long knurl	M14 x 1.5	58mm	15.5mm	22mm
490400	9/16" UNF short knurl	9/16" UNF	50mm	15.5mm	12mm
490401	9/16" UNF long knurl	9/16" UNF	57mm	15.5mm	22mm
490402	9/16" UNF short knurl – for 5 stud L/Cruiser	9/16" UNF	50mm	15.5mm	12mm
490420	German AL-KO M14 screw in studM14	-	-	-	-
490501	5/8" UNF long knurl	5/8" UNF	57mm	17.5mm	22mm
490502	5/8" UNF special – short knurl R/Rover 10" Electric	5/8" UNF	51mm	17.5mm	12mm
490600	7/8" BSF short knurl	7/8" BSF	63mm	23.5mm	17mm
490601	7/8" BSF long knurl	7/8" BSF	70mm	23.5mm	23mm

Wheel Nuts

Part Number	Description	Thread Type and Size	Nut Angle	Measurement Across Flats of Nut
490251	7/16" UNF x 60°	7/16" UNF	60°	19mm
490350	1/2" UNF x 60°	1/2" UNF	60°	20.5mm
490355	M12 x 60°	M12	60°	19mm
490451	9/16" UNF x 80°	9/16" UNF	80°	23.8mm (15/16")
490460	9/16" UNF x 60° - for 5 stud L/Cruiser	9/16" UNF	60°	22mm
490551	5/8" UNF radius	5/8" UNF	Radius	25.4mm (1")
490650	7/8" BSF	7/8"BSF	80°	31.75mm (1.25")





NEW ZEALAND LAND TRANSPORT RULES

As Applicable to trailed vehicles less than 3.5 Tonne Gross Laden Weight Trailer Brakes

For trailers with a Gross laden weight of trailer of more than 2,000 kg but less than 2,500 kg a service brake on at least one axle is required either direct or indirect (see below for explanation). The trailer braking system in conjunction with the tow vehicle brakes must be capable of stopping the loaded combination within 7mt at 30km per hour.

Direct service brakes – this service brake system allows the driver of the towing vehicle to directly control the trailer brakes from the driving position. This includes vacuum-operated brakes and pneumatic over hydraulic systems, controlled directly by the driver of the towing vehicle.

or

Indirect service brakes — with this service brake system the action of the driver applying the towing vehicle's brakes causes the trailer to push against the towing vehicle and this force indirectly controls the trailer brakes. This includes override brakes.

For trailers with a Gross laden weight of trailer of more than 2,500 kg but less than 3,500 kg a direct service brake, Breakaway brake system and park are required. The trailer braking system in conjunction with the tow vehicle brakes must be capable of stopping the loaded combination within 7mt at 30km per hour. The park brake must be able to either: a) stop the trailer within 18mt at a speed of 30km per hour. Or b) be capable of holding the trailer at rest on a slope of 1 in 5 (for every 5mts of distance the slope increases 1mt in height)

Direct service brakes – this service brake system allows the driver of the towing vehicle to directly control the trailer brakes from the driving position. This includes vacuum-operated brakes and pneumatic over hydraulic systems, controlled directly by the driver of the towing vehicle.

Breakaway brake system – the system will apply brakes automatically if the trailer is accidentally disconnected from the vehicle. System must be capable of applying brakes for at least 15 minutes.

Parking brakes – brakes are applied by hand and are useful for holding the trailer when it has been disconnected from the towing vehicle.

The above information is correct at the time of printing. For current or specific information on New Zealand regulations please consult the New Zealand Transport Agency.

BRAKES

DRUM & DISC

AL-KO stock a wide range of braking options. When selecting brakes it is important to select the appropriate brake capacity with the stopping power required to arrest the trailing load given the wheel size that is to be fitted. All AL-KO brakes offer quality assurance for stop after stop reliability.







Electric Drum Brakes Smooth efficient braking when operated with a quality brake controller.

With and without park brake option.

Break away capable to conform with the New Zealand Transport Agency requirements.

Available in "Off Road" for extreme rough roads.

Hydraulic Calipers

Available in either stainless steel or

DACROMET™ finish.

Corrosion resistant Piston.

Break away capable to conform with the Land Transport New Zealand requirements.

The simplicity of hydraulic lines for Installation and maintenance.

Ideal for marine over run brake system on light to mid weight trailers.

Suitable for 15mm thick rotors.

Hydraulic Drum Brakes Similar to those used in the automotive industry for many years.

Reliable and efficient.

The simplicity of hydraulic lines for Installation and maintenance.

Perfect partner for on road over run brake system on light to mid weight trailers.

AL-KO www.alko.co.nz

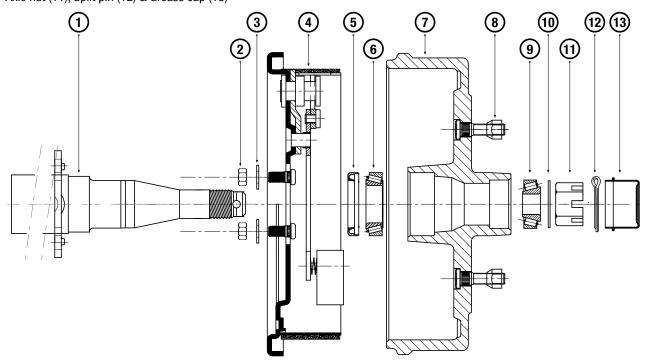


Electric Drum Brake & Stub Kits

AL-KO can provide electric drum brake & stub axle kits in various sizes and capacities.

Kits are available upon request to suit most popular wheel drilling patterns as well as those shown in this section. AL-KO can further tailor your kit request to have bearing cups fitted into the hub or hub drum, your preferred stub machining profile and more.

All AL-KO electric drum brake & stub axle kits come complete with; Stub Axle with Mounting Plate (1), Mounting hard ware (2, 3), Electric brake assembly (4), Grease seal (5), Inner & outer bearings (6 & 9), Studded hub drum (7), Wheel Nuts (8) Axle washer (10), Axle nut (11), Split pin (12) & Grease cap (13)



Popular Selections

The following tables are a selection from the total hub stub range that are the most frequentley selected.

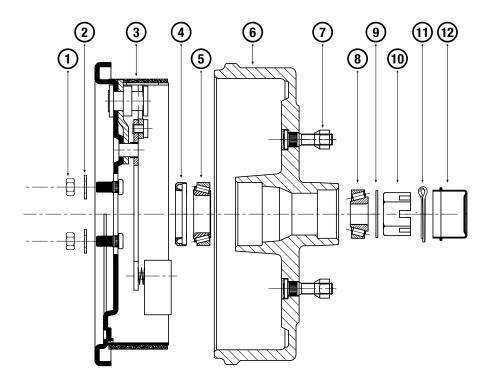
Part Number	Description (Brake Diameter & Linning Width)	Park Brake	Maximum Capacity/Pair	Stub Profile & Length	Drilling Pattern	Bearing
153985NZ	10" x 2 1/4" Premium	Yes	1500kg	39mm Round X 270mm	FORD	LM
153985NZOR	10" x 2 1/4" Off Road	Yes	1500kg	39mm Round X 270mm	FORD	LM
153990NZOR	12" x 2" Off Road	Yes	2500kg	50mm Square	6 Stud LCR	2/2.5T
154551PLNZ	10" x 2 1/4" Premium	Yes	1750kg	45mm Round	FORD	SL
154551NZOR	10" x 2 1/4" Off Road	Yes	1500kg	39mm round	5 stud HT	LM
153990NZTT	12" x 2"	Yes	2500kg	50mm square	6 stud LCR	2/2.5T

Electric Brake Kits

AL-KO can provide electric drum brake kits in various sizes and capacities.

Kits are available upon request to suit most popular wheel drilling patterns as well as those shown in this section. AL-KO can further tailor your kit request to have bearing cups can be fitted into the hub or hub drum and more.

All AL-KO electric drum brake kits come complete with; Mounting hard ware (1 & 2), Electric brake assembly (3), Grease seal (4), Inner & outer bearings (5 & 8), Studded hub drum (6), Wheel Nuts (7) Axle washer (8), Axle nut (10), Split pin (11) & Grease cap (12)



Popular Selections

The following tables are a selection from the total hub stub range that are the most frequentley selected.

Part Number	Description (Brake & Linning Width)	Park Brake	Maximum Capacity/pair	Suits Stub Axle	Drilling Pattern	Bearing
334123PL	10" x 2 1/4" Premium	Yes	1750kg	45mm round	Ford	SL
334100TT	10" x 2 1/4" Trailtech	Yes	1500kg	39mm round	HT	LM
334125	10" x 2 1/4" Premium	No	1750kg	45mm round	Ford	SL
334118TT	10" x 2 1/4" Trailtech	Yes	1500kg	39mm round	6 stud LCR	LM
334166	12" x 2" Premium	No	2500kg	50mm Square	6 stud LCR	2/2.5T

42 ALKO www.alko.co.nz LITALKONZS00001



Electric Drum Brake Hub Drums

Brake drums are selected or nominated by the drum diameter, the wheel drilling pattern and in the case of hub drums, the machining profile and appropriate bearings. AL-KO can provide brake drums drilled to suit the majority of popular wheel drilling patterns ex stock and can manufacture to suit other drilling patterns on request. The table below only lists popular electric brake drums.



DESCRIPTION: 10" X 2 1/4" **TYPE:** Hub Drum



DESCRIPTION: 10" X 2 1/4" **TYPE:** Parallel Hub Drum



DESCRIPTION: 12" X 2" **TYPE:** 2/2.5T Hub Drum



DESCRIPTION: 12" **TYPE:** Drum

Drum fitted with studs only	Description	Type of drum	Bearings can be fitted to hub drums to suit these machining profiles	Maximum axle capacity	Popular wheel drilling patterns
428209PL	10" x 2 1/4"	Hub drum	LM	1500 kg	Ford
			SL	1750 kg	Ford
428213PL	10" x 2 1/4'	Hub drum	SL	1750 kg	6 stud LCR/ Nissan
428208PL	10" x 2 1/4"	Hub drum	LM	1500 kg	HQ
			SL	1750 kg	HQ
428212	10" x 2 1/4"	Hub drum	SL	1750 kg	5 stud LCR
429001	12" x 2"	2 tonne Hub Drum	2/2.5T	2500 kg	6 stud LCR/ Nissan
429002	12" x 2"	2 tonne Hub Drum	2/2.5T	2500 kg	5 stud LCR

Brake drums are available in many formats, including undrilled, drilled, studded (with studs & nuts) and with full bearing kits. Other PCDs are available, consult your local AL-KO branch for further information.

It is important to select the appropriate brake capacity with the appropriate bearing configuration to carry and stop the required load given the wheel size that is to be fitted.

The inside drum face where the studs are fitted on the electric hub drum is a machined surface on which the electromagnet runs. When replacing magnets it is recommended that the inside drum face be re-machined or the magnet performance will be affected.

Helpful Hint:

When possible, consider the benifits of matching your tow vehicle stud pattern to your trailers stud pattern.

CAUTION

Do not machine the magnet face to be any closer than 0.3mm from the head of the wheel studs.

BRAKES

Electric Drum Brake Assemblies

Provide smooth efficient braking when operated by a vehicle mounted controller, which also provides the ability for the driver to manually apply the trailer brakes independent of the tow vehicle braking system. They are available both with and without park brake actuation and when used on trailers over 2500 kg gross trailer mass (GTM) can be activated in a break away situation to conform with your legal requirements.

For extreme rough road use we recommend the AL-KO "Off Road" version of electric brakes which are specifically modified to prolong brake componentry life in extreme rugged conditions.

AL-KO Premium Electric Drum Brakes

10" No Park

331202 (Pair)





331201 (Left hand)

331200 (Right hand)

Recommended maximum load on 13"/14" wheels 1600 kg per pair

Recommended maximum load on 15"/16" wheels 1400 kg per pair

Mounting Detail

4 x 7/16" UNF x 76.15mm PCD

12" With Park

331302 (Pair)





331301 (Left hand)

331300 (Right hand)

Park Brake: Yes

Recommended maximum load on 13"/14" wheels

Recommended maximum load on 15"/16" wheels 2500 kg per pair

Mounting Detail

5 x 3/8" UNF x 98mm PCD Not equally spaced

10" With Park

331102 (Pair)





331101 (Left hand)

331100 (Right hand)

Park Brake: Yes

Recommended maximum load on 13"/14" wheels 1600 kg per pair

Recommended maximum load on 15"/16" wheels 1400 kg per pair

Mounting Detail

4 x 7/16" UNF x 76.15mm PCD

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AL-KO Off Road Electric Drum Brake

10" With Park





331151 (Left hand)

331150 (Right hand)

Park Brake:

Recommended maximum load on 13"/14" wheels 1600 kg per pair

Recommended maximum load on 15"/16" wheels

1400 kg per pair

Mounting Detail

4 x 7/16" UNF x 76.15mm PCD

12" With Park

331352 (Pair)





331350 (Left hand)

331351 (Right hand)

Recommended maximum load on 13"/14" wheels

Recommended maximum load on 15"/16" wheels 2500 kg per pair

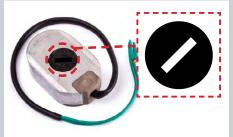
Mounting Detail

5 x 3/8" UNF x 98mm PCD Not equally spaced

AL-KO's Off Road Magnet

For off road application AL-KO have developed a unique magnet specifically designed to prolong magnet life. This magnet is identified by a special high tech plastic core in the centre of the magnet.

This core should be periodically inspected for wear and the magnet replaced if wear is evident. As the off road magnet does not use a magnet retaining clip, we suggest it is held in place for service installation by a light rubber band which will disintegrate on the first brake application.

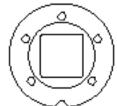


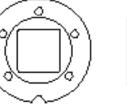
AL-KO's Off road magnets can be identified by the unique slot inplace of a traditional cross.

Electric Drum Brake mounting plates









Pressed Mount Plate to suit 10" Electric brakes

Machined Mount Plate to suit 12" Flectric brakes

			Maomina Moant I i	to to built 12 Elooti lo branco
	Part No.	Description	To Fit Axle Size	Number of Holes & PCD
	332100	10" Electric Mounting Plate (39mm bore)	39mm Round / 40mm square	4 Holes on 76.15mm PCD
	332150	10" Electric Mounting Plate (45mm bore s/line)	45mm round / 45mm square & 50mm square parallel bearings	4 Holes on 76.15mm PCD
	332350	12" Electric Mounting Plate (50mm square)	50mm square	5 Holes on 98mm PCD Not equally spaced
33	332301	12" Electric Mounting Plate (60mm bore)	56mm diameter	5 Holes on 98mm PCD Not equally spaced

10" Electric Drum Brakes Service Parts





339010 Magnet kit 10" oval Sk

Magnet kit 10" oval, Skin pack. Also suits Dexter, Hayes Suits Left & Right Hand



339015

Off Road Magnet kit 10" oval— RH skin pack. 339255 Magnet only



339020

Off Road Magnet kit 10" oval – LH skin pack. 339250 Magnet only



339255

Off Road Magnet 10" oval— RH. Magnet only



339250

Off Road Magnet 10" oval— LH. Magnet only



339120

Brake shoe 10" electric – Primary (Front)



339121

Brake Shoe 10" electric – Secondary (Rear)



339135BX

Brake Shoe axle set - 10" electric with park- Primary & Secondary (4 Shoes per box)



5



339102 Magnet clip – 10" electric 6



7



339114 10" Electric brake, Magnet lever left hand 7



339115 10" Electric brake, Magnet lever right hand

8



7



10



11



339130

10" Electric brake, Shoe retractor spring (Top)

339127

10" Electric brake, Shoe retainer cup & spring

339128

Electric brake, Adjuster spring (Bottom)

339129

10" Electric brake, Park lever return spring

12



13





390021

10" Electric brake, Mounting nut 7/16" UNF Zinc Plated

339103

10" Electric brake, Adjuster plug

190054

10" Electric brake, Mounting washer 7/16" external shake proof

Helpful Hint:

Consider the benefits by replacing an entire backing plate rather than replacing a few parts. It may cost more however it gives peace of mind for all components & in some cases quicker to do.

12" ELECTRIC DRUM BRAKE SERVICE PARTS





339300 Magnet 12" electric Suits Left & Right Hand



339350 Magnet 12" – AL-KO Off Road – LH



339355 Magnet 12" – AL-KO Off Road – RH



339122 Brake Shoe 12" electric – Primary (Front)



339123 Brake Shoe 12" electric – Secondary (Rear)



339102 Magnet clip – 10" electric (oval)



339110 Magnet spring



339127 Shoe retainer cup & spring





339127 Shoe retainer cup & spring



339116 Lever arm left hand



339117 Lever arm right hand



Mounting nut 3/8 UNF



339129 Park lever return spring



390015 Mounting bolt 3\8



339103 Adjuster plug



339128 Electric brake, Adjuster spring (Bottom)



390015 Washer 3/8 EXT shake proof

Helpful Hint:

Consider the benefits by replacing an entire backing plate rather than replacing a few parts. It may cost more however it gives peace of mind for all components & in some cases quicker to do.

Hand Brake & Cable & Equipment



323020 Brake cable 4mm 7 x 7 wire cable (1000 meter reel)



323021 Brake cable adjuster, suits 4mm cable



323022 Brake cable clips, suits 4mm cable



323023 Brake cable pulleys, suits 4mm cable



323024
Brake cable 4mm 7 x 7 wire cable (100 meter length)



Brake cable kit (8 metre cable & adjuster, 2 clips & 2 pulleys)



Brake cable kit (10 metre cable & adjuster, 2 clips & 2 pulleys)



Mechanical park brake mechanism 400mm

Mounting detail: 2 hole

Spacings: 60mm

Diameter: 13mm



Mechanical park brake mechanism, 280mm with cable pulley attached. Suits standard coupling rear fixing hole centres.

May require 618926 to level coupling.

Mounting detail: 2 hole



Spacings: 55mm

614055
Offroad coupling park lever brake plate suits Pin and Ball Couplings.

Mounting detail: 4 hole
Spacings: 184mm x 54mm

Diameter: 13.5mm



Front spacer plate for Mechanical park brake mechanism. Suits 619150,

Mounting detail: 2 hole Spacings: 55mm Diameter: 13mm



Coupling brake plate low profile lever plated.

Mounting detail: 4 hole
Spacings: 184mm x 54mm
Diameter: 13.5mm

50 ALKO www.alko.co.nz LITALKONZS00001



Electric Brake Control Equipment

MOTION SENSING

For the ultimate efficiency with electric brakes a motion sensing controller provides the best balance between the tow vehicle and the trailer braking. This control system can provide manual operation as well as smooth proportional braking when the tow vehicle brakes are applied. To achieve this ultimate performance some operator in-cab adjustments are required.



333029

Electric Dial Resistor A.C.C.12 Volt.

Features:

Mountable to the trailer in a pre-set and go application.

Easy to install.

No need for in car controller.

Easier to share trailers

Note:

This controller requires sufficient 12 volt power to break safely.

This controller cannot be adjusted from the drivers seat.



333061

Tekonsha Prodigy P2 Electric Brake Controller

Features:

Proportional motion sensing

Works with electric over hydraulic brake systems

Auto adjustment - it adjusts itself to varying terrain as you drive

Great for backing into tough spots! Works proportionally in reverse with the ability to disable when not needed

"Boost" feature

Quick and easy disconnect feature Electric trailer brake control for up to 4 braking axles

Approved for: ESC, IQ7 & IQ7 Outback



333063

Tekonsha Primus IQ Electric Brake Controller

Features:

Proportional motion sensing

Utilizes Plug-N-Play port for 2-plug adapters.

Self-diagnostics features will illuminate LED readout when issues occur.

Includes a "Boost" feature.

Works proportionally in reverse.

Snap-in dash mounting clip and hardware included.

Digital LED readout.

Approved for: ESC, IQ7 & IQ7 Outback



333065

Tekonsha P3 Electric Brake Controller

Features:

Proportional motion sensing

5 storable setting options.

Distinct, easy to read LCD display with colour options.

Flashing red warning for no Trailer brake situations.

Select Electric over Hydraulic or Electric brake option.

Snap in, easy to remove for theft prevention Boost feature for levels of customised of braking.

LED indicator showing status of braking system.

Approved for: ESC, IQ7 & IQ7 Outback



333090

Compact IQ Hayman Reese Electric Brake Controller

Features:

Proportional motion sensing

Electrical brake control for 1, 2, or 3 trailer axles.

SmartClick™ compatibility offers Plug and Play installation allowing a quick and easy connection to any SmartClick™ Brake Control Harness and Hayman Reese Towbar Wiring.

Includes a "Boost" feature that gives users the ability to set minimum braking power.

LED indicator showing status of braking system.

Approved for: ESC, IQ7 & IQ7 Outback



333060

Tekonsha 9030 Electric Brake Controller

Features:

Proportional motion sensing

Electrical brake control for 1, 2, 3 or 4 trailer axles

Plug-N-Play feature allows quick and easy connection.

Bicolored LED brake monitor, to assure a complete connection to trailer brakes and give an indication of relative braking power being applied

Compact size and extremely versatile.

Approved for: ESC, IQ7 & IQ7 Outback

Breakaway

For trailers over 2500 kg GTM (refer to Fig 1 on page 5) it is a requirement that, should the tow vehicle and trailer separate accidentally, that all the trailer brakes are applied independently and the trailer is brought to rest.

The breakaway kits itemised are a total solution to the Land Transport New Zealand requirements for breakaway brakes.







333070

Electric Break Away Kit/Battery. (Breaksafe model BS6000) Suitable for 4 wheel brakes / 2 braked axles. **NB*** Does not include monitor.



333080

Electric Break Away Kit/Battery. (Breaksafe model BS6000XP) Suitable for 6 wheel brakes / 3 braked axles. **NB*** Does not include monitor.



333040 Electric Break Away Switch

52



333071 Breaksafe Electric Break Away Switch assembly



333072 Breaksafe Break Away pin with coil cable only



333075 Breaksafe monitor - In-car low voltage warning. Mandatory requirement in some Australian states.

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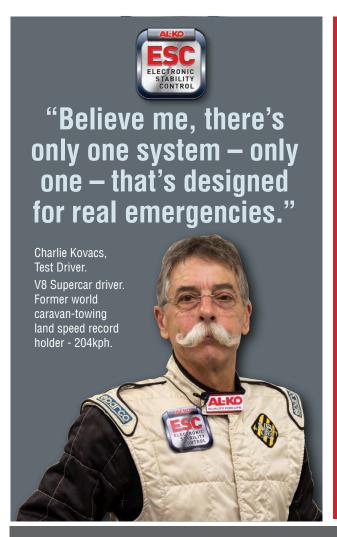
ESC

Electronic Stability Control

In an emergency you need total control as quickly as possible. Only AL-KO ESC makes sure you've got it.

AL-KO ESC brakes all wheels on a caravan simultaneously as soon as a dangerous sideways movment is detected - and holds them on to wipe off speed and stopping distance in the shortest time for maximum control. This maintains the line and stability of the car and caravan allowing you to perform an emergency avoidance manoeuvre. Your car and caravan operate as one - there's no jack-knifing - and you're back on your side of the road with a potential disaster behind you. Why risk towing with anything else?





AL-KO ESC CHECKLIST FOR COMPLETE PEACE OF MIND

SERIOUS SAFETY TECHNOLOGY

More than just sway control. AL-KO ESC is the serious safety technology designed for emergency towing situations.

BRAKES ALL WHEELS

Maximum control in an emergency. Only AL-KO ESC brakes all wheels to wipe off speed and stopping distance.

DESIGNED IN AUSTRALIA

Only AL-KO ESC is designed and made in Australia.

WORKS IN OFF-ROAD CONDITIONS

AL-KO doesn't deactivate in off-road conditions. It continues working effectively to keep you safe.

FULLY CUSTOMISED TO EACH CARAVAN

No compromises on safety. Only AL-KO ESC is fully calibrated and customised to each caravan's specifications.

#1 CHOICE OF LEADING CARAVAN MANUFACTURERS

AL-KO ESC is supported and fitted by the majority of leading caravan manufacturers in Australia.

Without AL-KO ESC, your towed vehicle is not as safe as it could be.

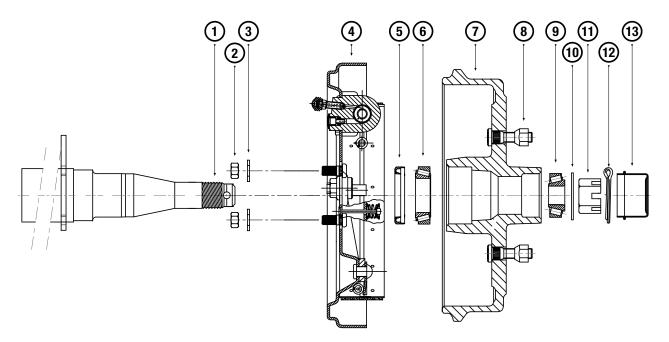
For more Information visit alkoesc.com.au

Hydraulic Drum Brake & Stub Kits AL-KO can provide hydraulic drum brake & stub axle kits in various sizes and capacities.

Kits are available upon request to suit most popular wheel drilling patterns as well as those shown in this section. AL-KO can further tailor your kit request to have bearing cups fitted into the hub or hub drum, your preferred stub machining profile and more.

All AL-KO hydraulic drum brake & stub axle kits come complete with;

Stub Axle with Mounting Plate (1), Mounting hard ware (2, 3), Hydraulic brake assembly (4), Grease seal (5), Inner & outter bearings (6 & 9), Studded hub drum (7), Wheel Nuts (8) Axle Washer (10), Axle nut (11), Split pin (12) & Grease cap (13)



POPULAR SELECTIONS

The following tables are a selection from the total hub stub range that are the most frequentley selected.

Part Number	Description (brake diameter & Linning width)	Park Brake	Maximum Capcity/Pair	Stub Profile	Drilling Pattern	Bearings
153972PLNZ*	9" x 1 3/4"	No	1500kg	39mm Round x 270mm	Ford	LM
153974PLNZ	9" x 1 3/4"	No	1500kg	39mm Round x 270mm	НТ	LM
153977PLNZ	9" x 1 3/4"	No	1500kg	39mm Round x 270mm	6 stud LCR	LM

54 ALKO www.alko.co.nz LITALKONZS00001



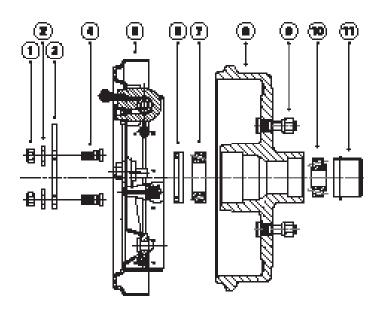
Hydraulic Drum Brake Kits

AL-KO can provide hydraulic drum brake kits in various sizes and capacities.

Brake kits are available upon request to suit most popular wheel drilling patterns as well as those shown above. These kits include brakes, mount plates, nuts & bolts, hubs, drums, or hub drums and complete bearing kits (bearing cups can be fitted into the hub or hub drum to your preferred stub machining profile). Hydraulic brake kits exclude piping, hose and fittings.

All AL-KO hydraulic drum brake kits come complete with;

Mounting hard ware (1, 2, 4), Mounting plate (3), Hydraulic brake assembly (5), Grease seal (6), Inner & outter bearings (7 & 10), Studded hub (8), Wheel Nuts (9) & Grease cap (11)



POPULAR SELECTIONS

The following table is a selection from the total hub stub range that are the most frequently selected.

Part Number	Description (brake diameter & Linning width)	Park Brake	Maximum Capcity/Pair	Stub Profile	Drilling Pattern	Bearings
311113	9" x 1 3/4"	No	1500kg	39mm round	5 stud FORD	LM
311116	9" x 1 3/4"	No	1750kg	45mm round	6 stud LCR	SL
311117	9" x 1 3/4"	No	1750kg	45mm round	5 stud FORD	SL

Hydraulic Drum Brakes

Brake drums are selected or nominated by the drum diameter, the wheel drilling pattern and in the case of hub drums, the machining profile and appropriate bearings. AL-KO can provide brake drums drilled to suit the majority of popular wheel drilling patterns ex stock and can manufacture to suit most other drilling patterns on request. The table below lists popular hydraulic brake drums.



DESCRIPTION: 9" X 1.75" **TYPE:** Hub Drum



DESCRIPTION: 9" X 1.75" **TYPE:** Hub Drum Plated

Drum fitted with studs only	Description	Type of drum	Maximum axle capacity	Bearings can be fitted to hub drums to suit these machining profiles	Popular wheel drilling patterns
422207PL	9" X 1.75"	Hub drum	1500 kg	LM	Ford
422207PL	9" X 1.75"	Hub drum	1750 kg	SL	Ford
422208PL	9" X 1.75"	Hub drum	1500 kg	LM	НТ
422208PL	9" X 1.75"	Hub drum	1750 kg	SL	HT
422265PL	9" X 1.75"	Hub drum	1750 kg	SL	6 stud LCR/ Nissan

Brake drums are available in many formats, including undrilled, drilled, studded (with studs & nuts) and with full bearing kits.

It is important to select the appropriate brake capacity and to seek advice from AL-KO on the appropriate axle machining profile and bearing configuration to carry and stop the required load given the wheel size that is to be fitted.

56 ALKO www.alko.co.nz LITALKONZS00001



BRAKES

Hydraulic Drum Brakes

Hydraulic drum brakes are similar to those used in the automotive industry for many years and are reliable and efficient. The simplicity of hydraulic lines for instalation and maintenance and a perfect partner for on road over run brake system on trailers less than 2500 kg gross laden weight.

9" No Park

311102 (Pair)



311101 (Left hand)

311100 (Right hand)

Park Brake:

Nο

Recommended maximum load on 13"/14" wheels

1450 kg per pair

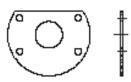
Recommended maximum load on 15"/16" wheels

1200 kg per pair

Mounting Detail

4 x 3/8" UNF x 101.6mm PCD Not equally spaced

Hydraulic Drum Brake Mounting Plates



Pressed Mount Plate to suit 9" Hydraulic brakes

Part No.	Description	To Fit Axle Size	Number of Holes & PCD
312200	9" Hydraulic mounting plate	39mm Round	4 Holes on 101.6mm PCD Not equally spaced
312250	9" Hydraulic mounting plate	45mm Round	4 Holes on 101.6mm PCD Not equally spaced

57

Hydraulic Drum Brakes Service Parts







319011 Bleed screw 9" hydraulic



313003 Adaptor inlet port 9" hydraulic



319102 Washer inlet adaptor 9" hydraulic



Wheel cylinder 9" hydraulic



Brake shoe (long) 9" hydraulic

319014

Brake shoe (short) 9" hydraulic



319017 Brake shoe hold down kit 9" hydraulic



319015 9" Hydraulic top return spring (Long) (Wheel cylinder end)

9



319016 9" Hydraulic bottom return spring (Short)



10

190052 Mounting washer 3/8" EXT shake proof



390011 Mounting nut hex 3/8" UNF

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58



Hydraulic Disc Brake & Stub Kits

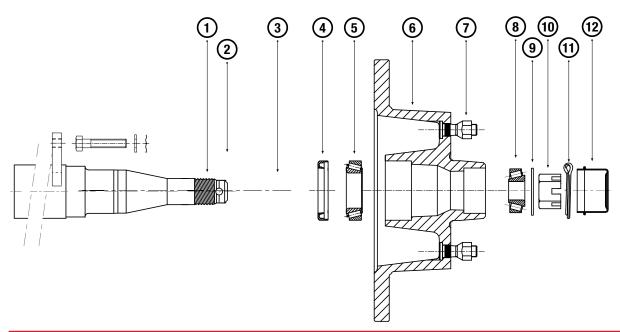
AL-KO can provide hydraulic disc brake & stub axle kits in various sizes and capacities.

Kits are available upon request to suit most popular wheel drilling patterns as well as those shown in this section.

AL-KO can further taylor your kit request to have bearing cups fitted into the hub or hub drum, your preferred stub machining profile and more.

All AL-KO hydraulic disc brake & stub axle kits come complete with;

Stub Axle with Mounting Plate (1), Mounting hard ware (2), Hydraulic caliper assembly (3), Grease seal (4), Inner & outter bearings (5 & 8), Studded hub disc (6), Wheel Nuts (7) Axle Washer (9), Axle nut (10), Split pin (11) & Grease cap (12)



Part Number	Description (Rotor Thickness & Diameter)	Park Brake	Maximum Capacity/Pair	Stub Profile	Drilling Pattern	Bearing
154076GD	15mm x 260	No	1500kg	39mm Round	FORD	LM
154076GSS	15mm x 260	No	1500kg	39mm Round	Ford	LM
154076PLD	15mm x 260	No	1500kg	39mm Round	Ford	LM
154076PLSS	15mm x 260	No	1500kg	39mm Round	Ford	LM
154080PLSS	15mm x 260	No	1750kg	45mm Round	Ford	SL
154576PLD	15mm x 260	No	1750kg	45mm Round	Ford	SL
154580GD	15mm x 260	No	1750kg	45mm Square	Ford	SL
154580PLD	15mm x 260	No	1750kg	45mm Square	6 Stud LCR	SL
154580PLSS	15mm x 260	No	1750kg	45mm Square	Ford	SL
155610DH	15mm x 299	No	2500kg	56mm Round	6 Stud LCR	2/2.5T

Hydraulic Disc Hubs & Rotors

Disc hubs or rotors are available in untreated plain finish ("as cast"). Some disc hubs are also available in hot dip galvanised or zinc plated finish. With the hot dip galvanised and zinc plated finish, wheel bearings and zinc plated wheel studs are fitted and all appropriate surfaces are coated.

Disc hubs are cast to include the hub, which houses the wheel bearings, whilst rotors are fitted to a separate hub. AL-KO can provide disc hubs and rotors drilled to suit the majority of popular wheel drilling patterns ex stock and can manufacture to suit most other drilling patterns on request, depending on compatibility. The table below lists popular disc hubs and rotors.

Disc hubs are available in many formats, including undrilled, drilled, studded (with studs & nuts) and with full bearing kits.

It is important to select the appropriate brake capacity and to seek advice from AL-KO on the suitable axle machining profile and bearing configuration to carry and stop the required load given the wheel size that is to be fitted.

Note: the braking capacity should be matched to the planned maximum trailer mass.



DESCRIPTION: Disc Hub 13" & 14", Galvanised



DESCRIPTION: Disc Hub 16", Zinc Plated



DESCRIPTION: Disc Hub 2T, Zinc Plated

Part No. (drum fitted with studs only)	Type & Wheel size	Maximum axle capacity	Bearings can be fitted to hub disc to suit these machining profiles	Rotor Thickness	Rotor Diameter	Stud Pattern
432250	Disc hub galvanised, 13" & 14"	1500/1750 kg	LM/SL	15mm	260mm	Ford
432250PL	Disc hub zinc plated, 13" & 14"	1500 kg	LM	15mm	260mm	Ford
432252PL	Disc hub zinc plated, 13" & 14"	1750 kg	SL	15mm	260mm	Ford
432145	Disc hub zinc plated, 16"	1750 kg	SL	15mm	299mm	6 stud LCR
432132	Disc hub zinc plated, 16"	2000 kg	2/2.5T	15mm	299mm	6 stud LCR

Disc hubs are available in many formats, including undrilled, drilled, studded (with studs & nuts) and with full bearing kits.

It is important to select the appropriate brake capacity and to seek advice from AL-KO on the appropriate axle machining profile and bearing configuration to carry and stop the required load given the wheel size that is to be fitted.

60 LITALKONZS00001



BRAKES

Hydraulic Disc Brakes

Hydraulic disc brake calipers are available in either stainless steel for maximum salt water corrosion resistance or zinc plated cast iron. Both styles are fitted with special pistons that will not rust.

The simplicity of hydraulic lines connecting multiple calipers makes this style of caliper suitable for installations where more than one axle is used. Trailers with loaded weights exceeding 2500 kg require independent control and breakaway facility, causing the brakes to automatically be activated should the towing vehicle and the trailer become accidentally disconnected. Hydraulic disc brakes used with a simple system such as the IQ7 fulfil this legal requirement. Hydraulic calipers can also be operated using hydraulic over ride couplings.

Hydraulic calipers are suitable for disc hubs and rotors of thicknesses of 15mm.

DACROMFT™

341001 (Pair)



341000 (Left hand)

341000 (Right hand)

Type: DACROMET™

Recommended maximum load on 13"/14" wheels

1600 kg per pair

Recommended maximum load on 15"/16" wheels

1400 kg per pair **Mounting Detail**

12mm H.T. X 45mm set screws. 88.9mm (3.5")

Stainless Steel

341051 (Pair)



341050 (Left hand)

341050 (Right hand)

Type: Stainless steel

Recommended maximum load on 13"/14" wheels

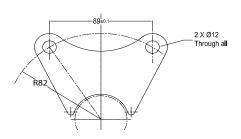
1600 kg per pair

Recommended maximum load on 15"/16" wheels

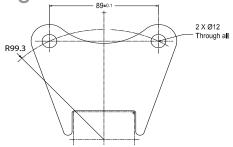
1400 kg per pair **Mounting Detail**

12mm H.T. X 45mm set screws. 88.9mm (3.5")

Hydraulic Disc Brake Mounting Plates



Mount Plate to suit AL-KO hydraulic calipers (13"/14")



Mount Plate to suit AL-KO hydraulic calipers (16")

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Part No.	Description	To Fit Axle Size	Suits Disc Type
342115	Hydraulic caliper mount plate	39mm round	Disc hub (13"/14")
342143	Hydraulic caliper mount plate	40mm square	Disc hub (13"/14")
342147	Hydraulic caliper mount plate	45mm square	Disc hub (13"/14")
342110	Hydraulic caliper mount plate	45mm round	Disc hub (13"/14")
342160	Hydraulic caliper mount plate	50mm square	Hub + Disc (16") 2T & 3T
342165	Hydraulic caliper mount plate	45mm square	Hub + Disc (16") 2T & 3T
342175	Hydraulic caliper mount plate	56mm round	Hub + Disc (16") 2T & 3T

Hydraulic Disc Brake Service Parts





341080 AL-KO hydraulic caliper disc pad kit - 2 pads



341083 Caliper piston kit - per caliper

62



341103 341081
AL-KO hydraulic caliper disc pad Slide pin kit, per caliper - 1 pad





341082 Caliper piston seal repair kit - per caliper



341084 Caliper bleed screw - 2 pce

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Hydraulic Brake Actuation Equipment

The parts listed are an example of the vast AL-KO range of hydraulic components to complement the range of hydraulic drum brakes.



313024HDR

Hydraulic drum brake hose kit for single axle Kit includes:

IXIL IIIGIU	Nit iliciades.		
1	313030	Tube nut long 3/16" tube	
5	313031	Tube nut short 3/16" tube	
1	333333	Three way block 3/8" UNF	
1	313025	Hose bracket - New Zealand	
1	313022	Hose clip, chassis, end clip	
1	313021	Hose hydraulic 15 1/4"	
1	319102	Washer 10mm I.D. x 16mm O.D. x 3mn	



313024NSP

Hydraulic disc brake hose kit for single axle. Kit includes:

1	313030	Tube nut long 3/16" tube
5	313031	Tube nut short 3/16" tube
1	333333	Three way block 3/8" UNF
2	313025	Hose bracket - New Zealand
2	313022	Hose clip, chassis, end clip
2	313021	Hose hydraulic 15 1/4"
2	319102	Washer 10mm I.D. x 16mm O.D. x 3mm



313035

Hydraulic hose 450mm banjo fitting & female 3/8" UNF, Banjo bolt & washers

1	31302 <i>1</i>	Hose hydraulic 450mm with banjo bolt
2	319102	Washer 10mm I.D. x 16mm O.D. x 3mm

HYDRAULIC HOSES & FITTINGS



313019 Hose hydraulic female-female fittings 3/8" UNF (38cm long)



313020 Hose hydraulic male-male fittings 3/8" UNF (38cm long)



313021 Hose hydraulic male-female fittings 3/8" UNF (38cm long)



312022 Hose clip chassis (wire type)



313025 Hose bracket ZP (L shape bolt on)



313026 Hose hydraulic male-female fittings 3/8" UNF (80cm long)



313027 Hose hydraulic banjo-female fittings 3/8" UNF (45cm long)



313028 Hose clip (plate type P3052)



313030 Tube nut long 3/16" tube



313031 Tube nut short 3/16" tube



313032 Pipe joiner 3/16" tube



313600 Tubing Bundy 3/16" x 6mtr coil



319102 Copper washer 16mm x 10mm x 3mm thick

64



333333 Three way block 3/8" UNF

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AL-KO IQ7

AL-KO IQ7 is a power assisted hydraulic braking actuation system, designed specially for large trailers up to 3500kg ATM.

The AL-KO IQ7 allows the control of hydraulic brake systems from the driving position via an in vehicle brake control device. The IQ7 converts electronic signals from the controller to hydraulic pressure delivered to the brake system.

Stored compressed air within a pressure chamber allows immediate brake application the instant it is required significantly improving stopping performance.

Includes breakaway technology to arrest the trailer should it detach from the tow vehicle (a legal requirement for trailers or caravans over 2.5 tonne).

Please note, IQ7 Extreme actuator only should be used with the "extreme" package. The IQ7 "E" version should be used with an AL-KO approved in car electric brake controller.



Available as HT1400 PSI or 1000 PSI Compatible for Disc or Drum brake Internal or External mounting options

Australian Made

Take Total Control With the IQ7 XTREME



AL-KO IQ7

- Converts electronic signal to hydraulic pressure
- Breakaway activates trailer brakes if it becomes detached from the tow vehicle.
- Heavy duty compressor for ultimate stopping power



Brake Pedal Pad

- Smoother proportional braking
- Faster response time
- Greater control in an emergency



Electronic Control Unit

- Dectects & informs driver of lack of air pressure or air leakage
- Dectects & informs driver of inadequate power feed
- Dectects & informs driver of excessive duty cycle
- Dectects & informs driver of trailer disconnection



Controller Mouse

- Panic button for independent braking of the trailer in emergency situations
- Gain Control lever for instant adjustment of braking characteristics

Meet your legal requirements

New Zealand Land Transport Rules state any trailer over 2.5 tonnes and under 3.5 tonnes must incorporate direct service brakes and breakaway brake system.

Direct service brakes – this service brake system allows the driver of the towing vehicle to directly control the trailer brakes from the driving position. This includes pneumatic over hydraulic systems, controlled directly by the driver of the towing vehicle.

Breakaway brake system – the system will apply brakes automatically if the trailer is accidentally disconnected from the vehicle. System must be capable of applying brakes for at least 15 minutes.

Fitting the AL-KO IQ7 system allows the legal use of hydraulic disc brakes.



350520A

IQ7 Xtreme Full actuator & in car kit, Automatic. No ABS, No load sensing. $\dot{}$

Kit includes:

1	355502	IQ7 Actuator HT1400 PSI
1	355006	Automatic brake pad
1	355008	Mouse assembly
1	355148	Evo controller
1	350003XL	Wiring loom 6.5mt
1	350164	IQ7 12 pin socket
1	350215	107 Circuit breaker



350520M

IQ7 Xtreme Full actuator & in car kit, Manual. No ABS, No load sensing.

Kit includes:

1	355502	IQ7 Actuator HT1400 PSI
1	355005	Manual brake pad
1	355008	Mouse assembly
1	355148	Evo controller
1	350003XL	Wiring loom 6.5mt
1	350164	IQ7 12 pin socket
1	350215	IO7 Circuit breaker



355013A

IQ7 Xtreme in-car kit only. Automatic. Kit includes:

ΝI	KIL INCIUGES.			
1	355006	Automatic brake pad		
1	355008	Mouse assembly		
1	355148	Evo controller		
1	350003	Wiring loom		
1	350164	IQ7 12 pin socket		
1	350215	IQ7 Circuit breaker		



355013M

IQ7 Xtreme in-car kit only. Manual. Kit includes:

1	355005	Manual brake pad
1	355008	Mouse assembly
1	355148	Evo controller
1	350003	Wiring loom
1	350164	IQ7 12 pin socket
1	350215	IQ7 Circuit breaker



355014AXL

IQ7 Xtreme in-car kit only. Automatic. Kit includes:

IXILI	IXIL IIIGIUUES.				
1	355006	Automatic brake pad			
1	355008	Mouse assembly			
1	355148	Evo controller			
1	350003XL	Wiring loom 6.5mt			
1	350164	IQ7 12 pin socket			
1	350215	IQ7 Circuit breaker			



355014MXL

IQ7 Xtreme in-car kit only. Manual. Kit includes:

1	355005	Manual brake pad
1	355008	Mouse assembly
1	355148	Evo controller
1	350003XL	Wiring loom 6.5mt
1	350164	IQ7 12 pin socket
1	350215	IQ7 Circuit breaker

66 ALKO www.alko.co.nz LITALKONZS00001





355002EK

IQ7 Primus IQ Electric brake controller kit. Kit includes:

355002E IQ7 Actuator
 350018 In car wiring
 333063 Primus IQ controller



355002EKP2

IQ7 P2 Electric brake controller kit. Kit includes:

1 355002E IQ7 Actuator 1 350018 In car wiring 1 333061 P2 controller



355002EKP3

IQ7 P3 Electric brake controller kit. Kit includes:

1 355002E IQ7 Actuator 1 350018 In car wiring 1 333065 P3 controller



350003E

IQ7 wiring loom elect spare part suits electric drum brakes



350003XL

IQ7 wiring loom spare part. Suits Evo 6.5 meter cable



350018

IQ7 wiring kit for motion sensing controller



3550002

IQ7 Xtreme actuator only



355002E

IQ7 Actuator only. Suits electric brake controller. "E" version.



355520

IQ7 Xtreme HT1400 Actuator only.



355005

IQ7 Xtreme manual brake pad 45mm wide x 60mm long assembly.



255006

IQ7 Xtreme automatic brake pad 45mm wide x 115mm long assembly.



355148

IQ7 Xtreme EVO controller assembly.



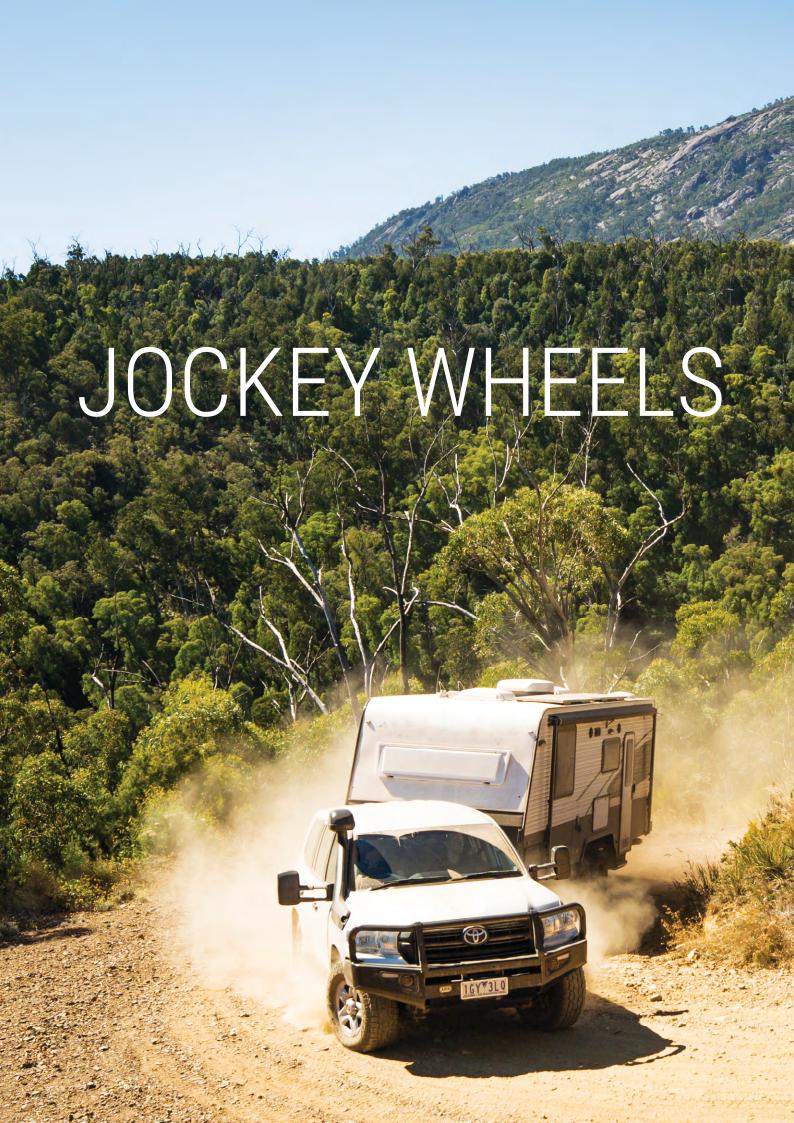
355008

IQ7 Xtreme Mouse assembly.



350164

IQ7 12 pin socket





AL-KO PREMIUM JOCKEY WHEELS

Award winning mobility

For over 15 years, the AL-KO range of Premium Jockey Wheels have been fitted as standard equipment on Australia's leading brands of caravan's and trailers.

AL-KO premium jockey wheels all come with moulded plastic handles to remove the ache associated with the operation of the device.

Quality in every piece. All AL-KO premium jockey wheels contain a thrust bearing assembly aimed at standing the test time as well as being backed up with a spare parts range.

Range mounting brackets makes selecting the right jockey wheel easy with a range of options to suit your application

A wide range of jockey wheels, from the 6" diameter solid wheel model, up to our heavy duty model 250mm diameter pneumatic tyre jockey wheel.



Intelligent engineering is how AL-KO came up with the 3BX swivel brackey allowing for ease of use with a superior design to reduce the dangers incurred with normal operation wear and tear.

A helpful hint when selecting a jockey wheel size; For soft surfaces select a larger wheel size for easier movement.

SWIVEL TYPE

621825G code: NZJW200SLSGLDH



Description

Jockey Wheel, Galvanised, 200mm dia. with locking pin swivel bracket & wheel lock.

Specifications

· ·	
Wheel Size:	200mm dia.
Mounting:	Lock pin swivel
Static Capacity:	400 kg
Closed length:	570mm
Open Length:	820mm
Tube 0.D.:	48mm
Weight:	8.5 kg

628200 code:JW200SL



Description

AL-KO Premium 200mm dia c/w large locking pin swivel bracket Specifications

Wheel Size:	200mm dia.
Mounting:	Lock pin swivel
Static Capacity:	400 kg
Closed length:	570mm
Open Length:	820mm
Tube O.D.:	48mm
Weight:	8 5 ka

626190 code:JW6LDSL



Description

Trailtech 150mm dia c/w large locking pin swivel bracket Specifications

•	
Wheel Size:	150mm dia.
Mounting:	Lock pin swivel
Static Capacity:	350 kg
Closed length:	510mm
Open Length:	760mm
Tube O.D.:	48mm
Weight:	6.75kg

621800



Description

Jockey Wheel, Galvanised, 200mm dia. with swivel bracket
Specifications

Specifications	
Wheel Size:	200mm dia.
Mounting:	Lock pin swivel
Static Capacity:	400 kg
Closed length:	570mm
Open Length:	820mm
Tube 0.D.:	48mm
Weight:	8.5 kg

621805



Description

Jockey Wheel, Galvanised, 250mm dia. solid tire with swivel bracket

Specifications

opcomoationo	
Wheel Size:	250mm dia.
Mounting:	Lock pin swivel
Static Capacity:	400 kg
Closed length:	630mm
Open Length:	880mm
Tube O.D.:	48mm
Weight:	8.5 kg

621820



Description

Jockey Wheel, Plated, 200mm dia. with locking pin swivel special bracket
Specifications

· ·	
Wheel Size:	200mm dia.
Mounting:	Lock pin swivel
Static Capacity:	400 kg
Closed length:	570mm
Open Length:	820mm
Tube O.D.:	48mm
Weight:	8.5 kg



CLAMP TYPE

626600 code:JW6X



Description

Jockey Wheel, 6" dia. No clamp

Specifications

•	
Wheel Size:	150mm dia.
Mounting:	Clamp
Static Capacity:	250 kg
Closed length:	510mm
Open Length:	760mm
Tube O.D.:	48mm
Weight:	4.4kg

99122221 code:



Description

AL-KO Removable Jockey Wheel. Designed to stow stow neatly on the A-Frame when the caravan is being towed.

Specifications

Specifications	
Wheel Size:	215mm dia.
Mounting:	Clamp
Static Capacity:	150kg
Closed length:	560mm
Open Length:	810mm
Tube O.D.:	48mm
Weight:	5.0kg

622600 code:



Description

Designed for use with motorised caravan movers and features extra wide, grooved rubber tyres, swing arm suspension and an integrated load indicator to gauge the noseweight of the caravan up to 200kg.

Specifications

Wheel Size:	200mm dia.
Mounting:	Clamp
Static Capacity:	200 kg
Closed length:	645mm
Open Length:	895mm
Tube O.D.:	48mm
Weight:	9.8kg

628450 code:



Description

The AL-KO Premium 8" Side Wind Jockey Wheel is designed specifically for ease of use in tight locations where a normal top wind jockey wheel may not be suitable.

Specifications

Wheel Size:	200mm dia.
Mounting:	Clamp
Static Capacity:	400kg
Closed length:	771mm
Open Length:	1073mm
Tube O.D.:	48mm
Weight:	7.5kg

622330 code:



Description

AL-KO Jockey Wheels are designed for stability, durability and ease of use, and the solid rubber tyre on this model will ensure a long service life.

Specifications

Wheel Size:	200mm dia.
Mounting:	Clamp
Static Capacity:	300kg
Closed length:	580mm
Open Length:	830mm
Tube O.D.:	48mm
Weight:	5.0kg

621250 code:JW250R



Description

AL-KO Premium 250mm dia Power Mover with clamp. Easy to use ratchet system and features an emergency stop.

Dynamic capacity of 150kg

Specifications

Specifications	
Wheel Size:	200mm dia.
Mounting:	Clamp
Static Capacity:	250kg
Closed length:	625mm
Open Length:	875mm
Tube O.D.:	48mm
Weight:	14.7kg

JOCKEY WHEEL SERVICE PARTS



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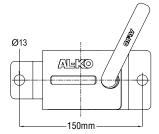
72





629900

Jockey wheel clamp. Suits all AL-KO 48mm O.D. tube clamp type jockey wheels Hole Diameter: 13mm



629915

Jockey wheel double clamp suits all AL-KO 48mm O.D. tube clamp type jockey wheels Hole Diameter: 13mm



622200

C - Clamp weld on, bolt on. suits all AL-KO 48mm O.D. tube clamp type jockey wheels. Hole Diameter: 13mm



629602SP

Jockey wheel thrust bearing kit. Suits all NZ & AUS AL-KO jockey wheels, excludes AL-KO EURO jockey wheesl.



629600

Spare wheel, 150mm solid tyre. **Suits** 626190, 622600



629888

Jockey Wheel - 200mm solid tyre c/w steel wheel. Suits 628200, 622330



629850

W250S - Wheel steel type solid 250mm.

Suits 621805



629625

Jockey wheel handle, roll pin type.



629601

JRH6 - Jockey wheel handle grub screw style.



629615

JW200SLSGLDH Folding handle **Suits** 621825G



629607

Axle bolt & nyloc nut suits 150mm wheel



SBLPA - Adjustable swivel clamp. suits all AL-KO 48mm O.D. tube clamp type jockey wheels.

Hole Diameter: 13mm

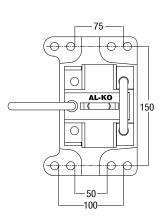


629920

SBLP - Swivel bracket locking

suits all AL-KO 48mm O.D. tube jockey wheels.

Hole Diameter: 13mm



LANDING LEGS

The AL-KO Landing Leg is one of the latest additions to AL-KO's extensive range of quality trailer components. Ideal for stabilising plant trailers, camper trailers, 5th wheeler caravans and agricultural equipment, the AL-KO Landing Leg is a necessary inclusion to the toolkit of the commercial contractor, farmer and camping enthusiast alike. All bases are covered with the AL-KO range of Landing Legs, with static loads ranging from 1,300 to 4,500kg.

The standard plant trailer right up to a fully loaded water tank is easily stabilised into position with the side wind operation. Flexibility is a major feature of the AL-KO Landing Leg range. The customer can choose to include or exclude tube mounting kits.-

The AL-KO Landing Leg is your ideal choice when looking to safely and efficiently stabilise your trailer, camper, 5th wheeler caravan or agricultural machinery.

622057



Description

Round landing leg short, comes with swivel mount.

Specifications

74

Tube Profile:	57.5mm Round
Mount fitted:	Yes
Capacity :	1,300 kg
Stroke length:	400 mm
Open Length:	900 mm
Closed Length:	550 mm
Finish:	Zinc Plated
Weight:	6.7 kg
А	400 mm
В	150 mm
С	167 mm
D	118 mm

622057L



Description

Round landing leg long, comes with swivel mount.

Specifications

Tube Profile:	57.5mm Round
Mount fitted:	Yes
Capacity :	1,300 kg
Stroke length:	380 mm
Open Length:	1440 mm
Closed Length:	1060 mm
Finish:	Zinc Plated
Weight:	9.1 kg
А	910 mm
В	150 mm
С	167 mm
D	118 mm

622070



Description

Square landing leg with drop leg, does not come with swivel mount.

Specifications

Tube Profile:	70mm Square (With drop down leg)
Mount fitted:	No
Capacity :	1,500 kg
Stroke length:	680 mm
Open Length:	1275 mm
Closed Length:	595 mm
Finish:	Zinc Plated
Weight:	11.8 kg
Α	595 mm
В	NA
С	167 mm
D	118mm

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622000 Chassis Mount & Tube Bracket Kit, Zinc Plated

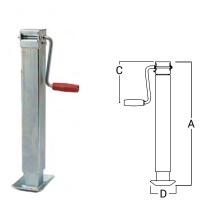


622111 Spare handle for 110mm Square landing leg. Suits 622110



622011 Landing leg pin & chain

622071

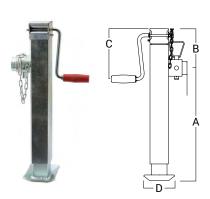


DescriptionDescriptionSquare landing leg, does not come with swivelSquare landing leg, comes with swivel mount. mount.

Specifications

opecinications	
Tube Profile:	70mm Square
Mount fitted:	No
Capacity :	2,000 kg
Stroke length:	360 mm
Open Length:	940 mm
Closed Length:	550 mm
Finish:	Zinc Plated
Weight:	9.9 kg
А	360 mm
В	NA
С	167 mm
D	118mm

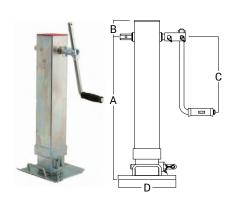
622071WTM



Specifications

Tube Profile:	70mm Square
Mount fitted:	Yes
Capacity :	2,000 kg
Stroke length:	360 mm
Open Length:	940 mm
Closed Length:	580 mm
Finish:	Zinc Plated
Weight:	10.4 kg
А	360 mm
В	150 mm
С	167 mm
D	118 mm

622110



Description Heavy duty landing leg.

Specifications

Specifications	
Tube Profile:	110mm Square
Mount fitted:	No
Capacity :	4,500 kg
Stroke length:	585 mm
Open Length:	1275 mm
Closed Length:	690 mm
Finish:	Zinc Plated
Weight:	32.9 kg
A	610 mm
В	80 mm
С	326 mm
D	250mm

ADJUSTABLE STANDS

When rigid stability is required the AL-KO range of stands fits the bill. Available in varying heights and also in weld on swivel bracket versions. These steady stands are ideal for fixed location stabilizing of trailers and plant equipment.

622114 code: AS14

622120 code:AS20 622127 code:AS27



Description
Adjustable stand 14" complete with clamp
Specifications

Capacity :	400 kg
H1 (Closed length):	375mm
H2 (Open Length):	625mm
G1:	70mm
G2:	320mm
L1:	185mm
Tube O.D.:	48mm
Surface Finish:	Zinc plated
Weight:	4.5 kg



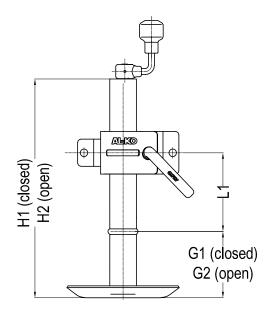
Description
Adjustable stand 20" complete with clamp
Specifications

Capacity :	400 kg
H1 (Closed length):	515mm
H2 (Open Length):	765mm
G1:	160mm
G2:	410mm
L1:	132mm
Tube O.D.:	48mm
Surface Finish:	Zinc plated
Weight:	5 kg



Description
Adjustable stand 27" complete with clamp
Specifications

Capacity :	400 kg
H1 (Closed length):	695mm
H2 (Open Length):	945mm
G1:	360mm
G2:	610mm
L1:	132mm
Tube O.D.:	48mm
Surface Finish:	Zinc plated
Weight:	6 kg





CORNER STEADIES

When rigid stability is required the AL-KO range of stands fits the bill. Available in varying heights and also in weld on swivel bracket versions. These steady stands are ideal for fixed location stabilizing of trailers and plant equipment.

654851



654859



654874



Description

Corner steady drop down 513mm, fitted with Big foot

Specifications

Surface Finish:	Zinc plated
Closed length:	340mm
Open Length:	513mm

Description

Corner steady drop down 590mm, fitted with Big foot

Specifications

Surface Finish:	Zinc plated
Closed length:	410mm
Open Length:	590mm

Description

Corner steady drop down 740mm, fitted with Big foot

Specifications

Surface Finish:	Zinc plated
Closed length:	510mm
Open Length:	740mm

654884



654859B



654874B



Description

Corner steady drop down 840mm, fitted with Big foot

Specifications

Surface Finish:	Zinc plated
Closed length:	610mm
Open Length:	840mm

Description

Corner steady drop down 590mm, fitted with Big foot

Specifications

•	
Surface Finish:	E Coat, Black
Closed length:	410mm
Open Length:	590mm

Description

Corner steady drop down 740mm, fitted with Big foot

Specifications

Surface Finish:	E Coat, Black
Closed length:	510mm
Open Length:	740mm

654874AL



Description

Corner steady drop down 740mm, fitted with large ant free aluminium foot

Specifications

Surface Finish:	Zinc plated
Closed length:	510mm
Open Length:	740mm

654500



Description

Corner steady hex drive 500mm. No wheel.

Specifications

Surface Finish:	Zinc plated
Mounting Type:	Side bolt
Mounting Spacing:	250mm
Slot Size:	14mm x 10mm

654500G



Description

Corner steady hex drive 500mm. No wheel.

Specifications

Surface Finish:	Galvanised
Mounting Type:	Top bolt
Mounting Spacing:	750mm x 25
Hole Size:	6mm

654530



Description

Rear, corner steady hex drive 500mm. With wheel Specifications

Surface Finish:	Zinc plated
Mounting Type:	Side bolt
Mounting Spacing:	250mm
Slot Size:	14mm x 10mm

654555GBF



Description

Corner steady 500mm, fitted with Big foot. No wheel Specifications

Surface Finish:	Galvanised
Mounting Type:	Side bolt
Mounting Spacing:	250mm
Slot Size:	14mm x 10mm

654600



Description

Front, corner steady hex drive 600mm. No wheel

Specifications

Surface Finish:	Zinc plated
Mounting Type:	Side bolt
Mounting Spacing:	250mm
Slot Size:	14mm x 10mm

654630



Description

Rear, corner steady hex drive 600mm. With wheel

Specifications

Surface Finish:	Zinc plated
Mounting Type:	Side bolt
Mounting Spacing:	250mm

654701G



Description

Corner steady hex drive 700mm.

Specifications

Surface Finish:	Galvanised
Mounting Type:	Top bolt
Mounting Spacing:	750mm x 25mm
Hole Size:	6mm

654701



Description

Corner steady hex drive 700mm.

Specifications

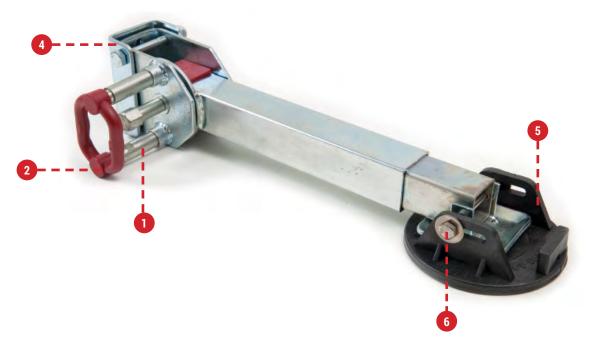
Surface Finish:	Zinc plated
Mounting Type:	Side bolt
Mounting Spacing:	250mm
Slot Size:	14mm x 10mm



655410

Corner steady AL-KO 1000 kg







654882 Drop down pull pin assembly



654880 Corner steady drop down handle



654880AL Corner steady drop down handle Aluminium



654881 Plug for handle



654885 Corner steady drop down mounting bracket



655900

Big foot boxed set of corner steady expansion feet

Suits: Drop down corner steadies



655901

Big foot corner steady expansion - single foot

Suits: Drop down corner steadies



655903

Big foot bolt nut and washer stainless steel



654556 Corner steady bracket side mount



654845 Corner steady hex drive handle 450mm



Corner steady hex drive handle 800mm



Corner steady hex drive off-road handle 1150mm

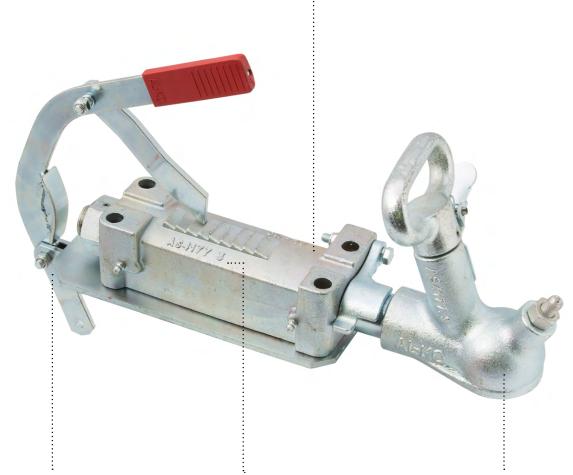




The vital link.

As a dedicated quality supplier, AL-KO ensures that each and every trailer coupling in our extensive range conform to the relevant New Zealand regulations. This guarantees that every AL-KO coupling you use is safe and capable of performing to a high standard.

Fixed couplings to suit Electric brakes up to 3500 kg and over ride couplings for hydraulic actuation up to 2500 kg.



Mechanical park actuation or adaptation available for most AL-KO couplings

AL-KO are serious about quality that's why our couplings are manufactured and compliant to AS4177.3 and New Zealand Transport Agency requirements.

Couplings available to suit 1 7/8" and 50mm towballs. Multiple hitch solutions for specific application from the adventuress traveller to ring couplings suited to heavier industrial applications.

FIXED COUPLINGS

This style of coupling, contains selection for use with 1 7/8" or 50mm standard tow balls, suitable to be used where either there are no brakes fitted to the trailer or the braking system does not require activation from a sliding or overrun coupling.

Typical applications for trailers up to 2500 kg ATM (total loaded mass), where no brakes are required. For independent brake systems such as electric or power operated like the IQ7 system for trailers over 2500 kg ATM (total loaded mass), a fixed coupling is the appropriate selection. Larger capacity fixed couplings for 1 7/8" & 50mm towballs are suitable for up to 3500 kg ATM (total loaded trailer mass) as long as the appropriate braking system is fitted to the trailer.

To Suit 1 7/8" Ball





Lever coupling 4 hole. Suits electric brakes or Coupling snapon 2 hole with adjuster. Suits no brakes.

Specifications

Capacity :	2000 kg
Suits Ball Size:	1 7/8"
Mounting Pattern:	90mm x 36mm
Hole Diameter:	11mm
Ball to First Hole:	110mm
Surface Finish:	Dacromet

Description

electric brakes or no brakes.

Specifications

Capacity :	2000 kg
Suits Ball Size:	1 7/8"
Mounting Pattern:	101.6mm
Hole Diameter:	13.5mm
Ball to First Hole:	77mm
Surface Finish:	Zinc plated

614785



Coupling snapon 4 hole with adjuster. Suits electric brakes or no brakes.

Specifications

Capacity :	2000 kg
Suits Ball Size:	1 7/8"
Mounting Pattern:	102mm x 51mm
Hole Diameter:	13.5mm
Ball to First Hole:	77mm
Surface Finish:	Zinc plated

614800



Description

Multi-Fit Lever coupling 4 hole. Suits 50mm & Premium snap on 4 hole coupling with

Specifications

2500 kg
1 7/8" & 50mm
90 x 36mm
10.5mm
105mm
Zinc Plated

614178D



реѕсприоп

1 7/8" towballs, electric brakes or no brakes. adjuster. Suits electric brakes, with park brake.

Specifications

Capacity :	3500 kg
Suits Ball Size:	1 7/8"
Mounting Pattern:	182.5 x 55mm
Hole Diameter:	13.5mm
Ball to First Hole:	128mm
Surface Finish:	Dacromet

Helpful Hint:

AL-KO recommend the use of high tensile mounting bolts on all fixed couplings.

82 ALKO www.alko.co.nz LITALKONZS00001



To Suit 50mm Ball



Description

Premium snap on 4 hole coupling with adjuster. Suits electric brakes, with park brake Suits electric brakes, no park

Specifications

Capacity :	3500 kg
Suits Ball Size:	50mm
Mounting Pattern:	182.5 x 55mm
Hole Diameter:	13.5mm
Ball to First Hole:	128mm
Surface Finish:	Zinc plated

614010PLM



Description

Marine snap on 4 hole coupling with adjuster. Coupling electric 4 hole premium. No park

Specifications

Capacity :	3500 kg
Suits Ball Size:	50mm
Mounting Pattern:	182.5 x 55mm
Hole Diameter:	13.5mm
Ball to First Hole:	128mm
Surface Finish:	Zinc plated

614015



Description

lever included. Suits 50mm ball. Plated finish.

Specifications

Capacity :	3500 kg
Suits Ball Size:	50mm
Mounting Pattern:	182.5 x 55mm
Hole Diameter:	13.5mm
Ball to First Hole:	128mm
Surface Finish:	Zinc plated

614755



Description

Lever coupling 4 hole, suits 50mm ball. Dacromet finish.

Specifications

Capacity :	2000 kg
Suits Ball Size:	50mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Ball to First Hole:	110mm
Surface Finish:	Dacromet

99247163



Description

50mm ball.

Specifications

Capacity :	1000 kg
Suits Ball Size:	50mm
Mounting Pattern:	55mm x 50mm
Hole Diameter:	11mm
Ball to First Hole:	110mm
Surface Finish:	Zinc plated

614800



Description

Pressed metal lever coupling, Zinc plated suits Multi-Fit Lever coupling 4 hole. Suits 50mm & 1 7/8" towballs, electric brakes or no brakes.

Specifications

Capacity :	2500 kg
Suits Ball Size:	1 7/8" & 50mm
Mounting Pattern:	90 x 36mm
Hole Diameter:	10.5mm
Ball to First Hole:	105mm
Surface Finish:	7inc Plated

www.alko.co.nz 83

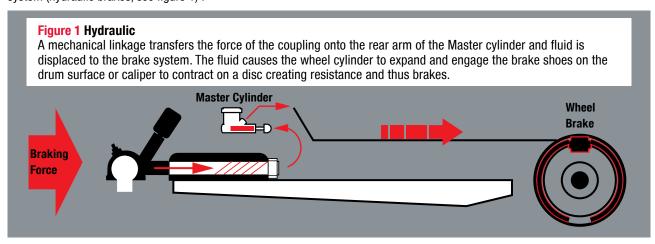
OVERRIDE OR OVERRUN BRAKE COUPLINGS

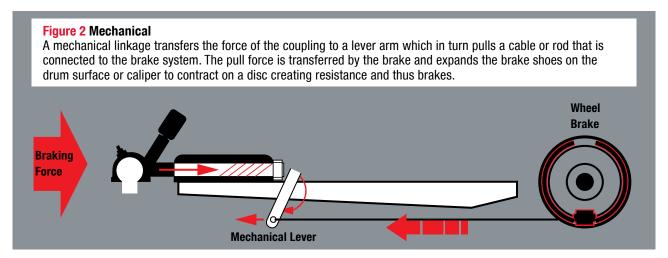
For trailers between 2000 kg and 2500 kg ATM (total loaded mass), braking systems that use an override principle are acceptable as long as they provide adequate braking for the trailer and tow vehicle combination.

This type of coupling is efficient if the ball load is not excessive and when load levelling devices are not used, as these devices impede the smooth operation of the coupling, hindering the brake performance.

How Override Actuation works

The principle of this type of coupling is a sliding shaft attached to the tow ball housing of the coupling, and as the tow vehicle slows down the force of deceleration is passed through the coupling shaft and pushed either on a mechanical linkage (for mechanical brakes, see figure 2) or acts on a linkage connected to a hydraulic cylinder providing hydraulic pressure to a braking system (hydraulic brakes, see figure 1).





Please Note: Land Transport New Zealand state, for trailers with a Gross laden weight of trailer of more than 2,000 kg but less than 2,500 kg a service brake on at least one axle is required either direct or indirect. The trailer braking system in conjunction with the tow vehicle brakes must be capable of stopping the loaded combination within 7mt at 30km per hour.

84 ALKO www.alko.co.nz LITALKONZS00001



To Suit 1 7/8" Ball

614790



Description

Override snap on 4 hole coupling with adjuster

Specifications

Capacity :	2500 kg
Suits Ball Size:	1 7/8"
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Ball to First Hole:	137mm
Surface Finish:	Zinc plated

614791PLNZ



Description

Override snap on 4 hole coupling with adjuster and 3/4" master cylinder. Suits hydraulic brakes. Specifications

Capacity :	2500 kg
Suits Ball Size:	1 7/8"
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Ball to First Hole:	137mm
Surface Finish:	Zinc plated

614792PLNZ



Description

Override snap on 4 hole coupling with adjuster and 7/8" master cylinder. Suits hydraulic brakes. Specifications

Capacity :	2500 kg
Suits Ball Size:	1 7/8"
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Ball to First Hole:	137mm
Surface Finish:	Zinc plated

To Suit 50mm Ball

614795



Description

Override snap on 4 hole coupling with adjuster.

Specifications

Capacity :	2500 kg
Suits Ball Size:	50mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Ball to First Hole:	137mm
Surface Finish:	Zinc plated

614796PLNZ



Description

Override snap on 4 hole coupling with adjuster and 3/4" master cylinder. Suits hydraulic brakes. Specifications

Capacity :	2500 kg
Suits Ball Size:	1 7/8"
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Ball to First Hole:	137mm
Surface Finish:	Zinc plated

614797PLNZ



Description

Override snap on 4 hole coupling with adjuster and 7/8" master cylinder. Suits hydraulic brakes. Specifications

Capacity :	2500 kg
Suits Ball Size:	1 7/8"
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Ball to First Hole:	137mm
Surface Finish:	Zinc plated

SWAY CONTROL COUPLINGS

AL-KO has a specific coupling designed to reduce trailer sway. This 50mm ball type fixed coupling is designed to be used on trailer up to 2500 kg ATM (total loaded mass) and with a maximum tow ball weight of 250 kg.

This unique product incorporates a clamping system that grips the sides of a **specially designed 50mm towball** and resists movement of the trailer. This action slows down any tendency for the trailer to sway or veer from a straight condition. This is particularly beneficial when large trailers such as caravans are buffeted by side winds or by a passing truck and trailer combination.

Note: This type of coupling must only be used with a 50mm ball which has an anti-rotation plate for attachment to the vehicle fitted.

618304

Description

AKS 3004 Stabilizer Kit – (special anti-rotation AL-KO towball, towbar adapter included). Suits electric brakes

Specifications

Canacity :	2500 kg
Capacity :	2500 kg
Suits Ball Size:	50mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Ball to First Hole:	203mm
Surface Finish:	Zinc plated





618100

AKS Anti Rotation 50mm towball plate for lug type tow bar 75mm wide



618200

AKS Anti Rotation 50mm towball plate for weight distributing hitch



618205

AKS Anti Rotation 50mm towball plate for weight distributing hitch 76003 series



618904

AKS Anti Rotation 50mm towball Black



618901

86

AKS Anti Rotation 50mm high rise towball Black



618925

AKS Side Friction Pads for AKS 3004 head - Set of 2



618940

AKS Front & Back Friction Pads for AKS 3004 head - Set of 2



991220759

AKS 1300 Pad Kit

ALKO www.alko.co.nz



RING TYPE COUPLINGS

When used in a commercial or defence department application, often a 75mm ring type towing eye is requested for the offroad coupling.

This style of coupling is similar in function to ball type couplings (fixed and override) but instead of the connection to the tow vehicle being a standard 50mm ball, the connection is a 75mm inside diameter ring and this attaches to a pintle hook fitted to the tow vehicle. These types of couplings are typically used in applications where the tow vehicle is a heavy commercial truck.

As the Australian Standard AS4177 states the 50mm towball to have a maximum capacity of 3500 kg ATM (total loaded mass), ring couplings are used when higher loads are involved.

614095



Override ring coupling - no brake, 4 hole, plated finish

Specifications

opeooat.oo	
Suits brake type:	Hydraulic/Mechanical
Suits	Pintel Hook
Capacity :	3000 kg
Centre of ring to first hole	138mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Surface Finish:	Zinc plated

614092



Override ring coupling - no brake, 4 hole, plated finish

Specifications

Specifications	
Suits brake type:	Hydraulic
Suits	Pintel Hook
Capacity :	2000 kg
Centre of ring to first hole	138mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Surface Finish:	Zinc plated

614128



Description

Override ring coupling - no brake, 4 hole, plated finish

Specifications

opcomoditiono	
Suits brake type:	Mechanical
Suits	Pintel Hook
Capacity :	3000 kg
Centre of ring to first hole	138mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Surface Finish:	Zinc plated





Description

Fixed ring coupling, 4 hole, Plated finish Specifications

Specifications	
Suits brake type:	Electric/Air
Suits	Pintel Hook
Capacity :	6000 kg
Centre of ring to first hole	116mm
Mounting Pattern:	182mm x 52mm
Hole Diameter:	16.8mm
Surface Finish:	Zinc plated



Override ring coupling - no brake, 4 hole, plated finish

Specifications

Suits brake type:	Hydraulic
Suits	Pintel Hook
Capacity :	2000 kg
Centre of ring to first hole	138mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Surface Finish:	Zinc plated

614304



Description

Fixed ring coupling, 3 hole, Plated finish **Specifications**

opeomeations	
Suits brake type:	Electric/Air
Suits	Pintel Hook
Capacity :	3,500 kg
Centre of ring to first hole	86mm
Mounting Pattern:	103mm x 56mm
Hole Diameter:	16.8mm
Surface Finish:	Zinc plated

Pintle Hooks

When used in a commercial or defence department application, often a 75mm ring type towing eye is requested for the offroad coupling.

This style of coupling is similar in function to ball type couplings (fixed and override) but instead of the connection to the tow vehicle being a standard 50mm ball, the connection is a 75mm inside diameter ring and this attaches to a pintle hook fitted to the tow vehicle. These types of couplings are typically used in applications where the tow vehicle is a heavy commercial truck.

50mm towballs typicaly have a maximum capacity of 3500 kg ATM (total loaded mass), ring couplings are used when higher loads are involved.

614310



Description Pintle Hook & Ball combination. Specifications

•	
Hook Capacity:	6000 kg
Ball Capacity:	3500 kg
Mounting Pattern:	45mm x 85mm
Hole Diameter:	12.5mm
Surface Finish:	Painted

614312



Description Pintle hook 10 tonne. **Specifications**

Hook Capacity:	6000 kg
Ball Capacity:	N/A
Mounting Pattern:	45mm x 85mm
Hole Diameter:	12.5mm
Surface Finish:	Painted

614311



Description 6 tonne Pintle Hook receiver **Specifications**

Capacity:	6000 kg
Mounting Pattern:	45mm x 85mm
Hole Diameter:	12.5mm
Surface Finish:	Painted

Pintle Hook Spares



614313 50mm Replacement ball for combination Pintle hook. 3500 kg capacity.

Suits: 614310



614314 Safety clip & chain. SAPHPIN

Suits: 614310, 614312,

88 ALKO www.alko.co.nz LITALKONZS00001



OFF-ROAD COUPLINGS

When a coupling is used in rough off-road conditions, the standard degree of articulation (or angles of available movement) may be insufficient. This articulation problem was solved by the introduction of the original AL-KO Off-Road Ball Coupling.

Now many years down the track our Australian engineers have incorporated feedback from manufacturers, retailers and caravan owners into a new generation of products that provides further improved ease of use and durability for serious off-road use.

Engineered by AL-KO in Australia specifically for extreme off-road adventure, the new AL-KO Off-Road Couplings incorporate extreme vertical and horizontal articulation as well as a quick & easy hitching.

All are made from high quality materials designed to endure serious off road use and provide you with the confidence you need to take your rig in to the most remote parts of Australia or New Zealand.

619350



Description

New model, Off Road coupling 50mm Ball Fixed.

Specifications

Suits brake type:	Electric
Suits	50mm Ball
Capacity :	3500 kg
Centre of ring to first hole	149.5mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Surface Finish:	Zinc plated

619200



Description

New model, Off Road coupling 50mm Ball Override.

Specifications

Suits brake type:	Hydraulic/ Mechanical
Suits	50mm Ball
Capacity :	2000 kg
Centre of ring to first hole	149.5mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Surface Finish:	Zinc plated

619400



Description

Off Road Pin coupling fixed. Features Click-Lock system, includes tow pin.

Specifications

Suits brake type:	Electric
Suits	XPC-1 Tow pin
Capacity :	3500 kg
Centre of pin first hole	138mm
Mounting Pattern:	184mm x 54mm
Hole Diameter:	13.5mm
Surface Finish:	Zinc plated



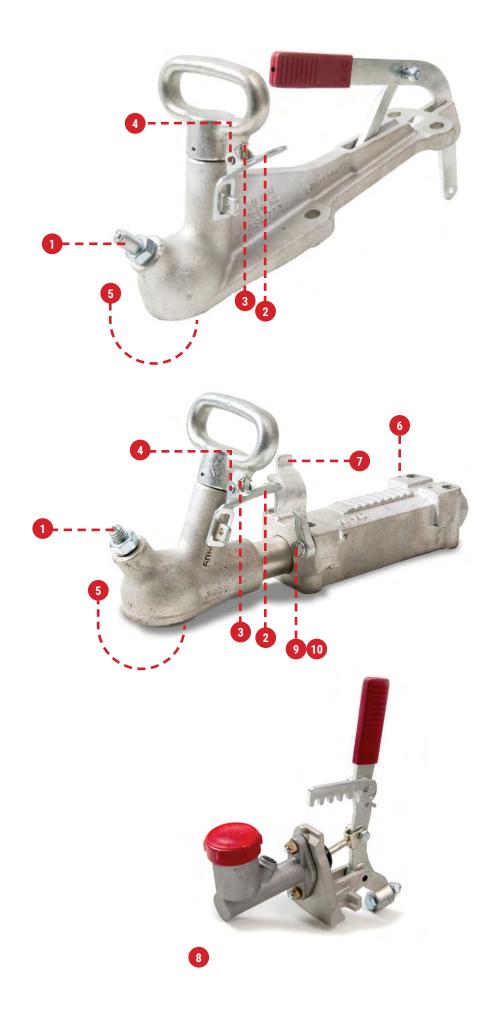
619410

Tow pin for pin coupling 619400



619411

Tow pin cover for tow pin 619410





Coupling Service Parts

2

3

5



610911 Coupling ball adjuster screw.



610924 Coupling handle trigger.



610925 Coupling trigger Spring.

2,3,4,5



Coupling handle, trigger & tongue sub assembley.

4



610926
Roll pin coupling trigger 1/4 in x 7/8 in Zinc Plated

DULLLA

610928 Coupling tongue spring.

2



610909 Coupling plunger type trigger, spring and roll pin skin pack.

7



610934 Coupling Reverse Stop

8



610943 Coupling Hydraulic Conversion With 3/4in Master Cylinder



610944 Coupling Hydraulic Conversion With 7/8in Master Cylinder

9



610945 Washer spring 5/16 Zinc coupling reverse

10

 $\frac{610947}{\text{Coupling reversing latch bolt 3/8 UNF x 2}}$ $\frac{1}{4}$



313001 Master cylinder 3/4"



313007 Master cylinder 7/8" suit AL-KO coupling



6

16

610933 Coupling Override Body Grease Nipple Screw In



313005 Master cylinder cap 3/4"



313003 Master cylinder adaptor 3/16" pipe. Use with copper washer between adaptor & master cylinder



614761 Coupling lever type spare locking lever and spring washers and roll pin assembly



619100 Mechanical parkbrake mechanism AL-KO Australia 400mm



619150 Mechanical parkbrake mechanism AL-KO Australia 280mm with cable pulley attached



619931 Coupling Off-road lock ring spare part. Suits Version 1 Off Road Ball



91385401 European tow ball bolt on with vertical flange & mounting bolts



614314 Pintel hook safety clip & chain. Suits 614310 & 614312



614313 50mm Replacement ball for combination pintel hook. 3500 kg capacity. Suits 614310

92 ALKO www.alko.co.nz LITALKONZS00001



WINCHES

PREMIUM MARINE WINCHES

AL-KO Premium Marine Winches come in 5 capacities – 250 kg, 500 kg, 700 kg, 1000 kg and 1200 kg, and are available with cable or webbing.

Perfectly suited for quick boat retrieval onto a multi-roller trailer all 500 kg and above AL-KO Premium Marine Winches are multi speed with 2 or 3 speeds. The 1:1 ratio enables the initial retrieval of the boat onto the rollers and the second (or third) ratios allow for the full weight of your boat to be pulled onto the trailer, with ease.

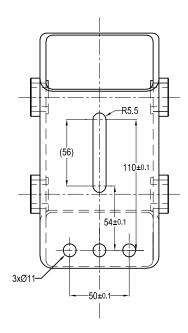
These winches are of the highest quality to ensure long trouble free operation. They feature ultra high strength shaft bushes, a stainless steel drive shaft, drive pawl and spring system for maximum corrosion resistance. A unique feature of the Premium range is the galvanised rectangular frame that provides the high resistance to torsional distortion.

The clever handle design allows quick release and re-attachment to the desired gear shaft without the operator having to jump from one side of the trailer to the other.

The bolt hole patterns suit most existing boat trailers.

The AL-KO winches are covered by registered design.

Winch mounting detail



635003 WPM500 635003W WPM500W





Specifications

•	
Rated Line Pull:	500 kg
Gear Ratio:	3:1 1:1
Hook Type:	"S" Hook
Cable Length:	N/A
Webbing Length:	50mm x 4 mt
Handle Length:	190 mm
Weight:	4.1 kg



Specifications

Rated Line Pull:	500 kg
Gear Ratio:	3:1 1:1
Hook Type:	"S" Hook
Cable Length:	N/A
Webbing Length:	50mm x 4 mt
Handle Length:	190 mm
Weight:	3.9 kg



Specifications

Rated Line Pull:	700 kg
Gear Ratio:	5:11:1
Hook Type:	Snap Hook
Cable Length:	5mm x 6 mt
Webbing Length:	N/A
Handle Length:	190 mm
Weight:	6.9 kg







Specifications

Rated Line Pull:	700 kg
Gear Ratio:	5:11:1
Hook Type:	Snap hook
Cable Length:	N/A
Webbing Length:	50mm x 6 mt
Handle Length:	190 mm
Weight:	6.8 kg

Specifications

a production of the contract o	
Rated Line Pull:	1000 kg
Gear Ratio:	10:1 5:1 1:1
Hook Type:	Snap hook
Cable Length:	6mm x 7.5 mt
Webbing Length:	N/A
Handle Length:	190 mm
Weight:	8.6 kg

Specifications

Rated Line Pull:	1000 kg
Gear Ratio:	10:1 5:1 1:1
Hook Type:	Snap hook
Cable Length:	N/A
Webbing Length:	50mm x 7.5 mt
Handle Length:	190 mm
Weight:	8.1 kg

635015 WPM1200

635015W WPM1200W



Specifications

<u>'</u>	
Rated Line Pull:	1200 kg
Gear Ratio:	15:1 5:1 1:1
Hook Type:	Snap hook
Cable Length:	6mm x 7.5 mt
Webbing Length:	N/A
Handle Length:	190 mm
Weight:	8.7 kg

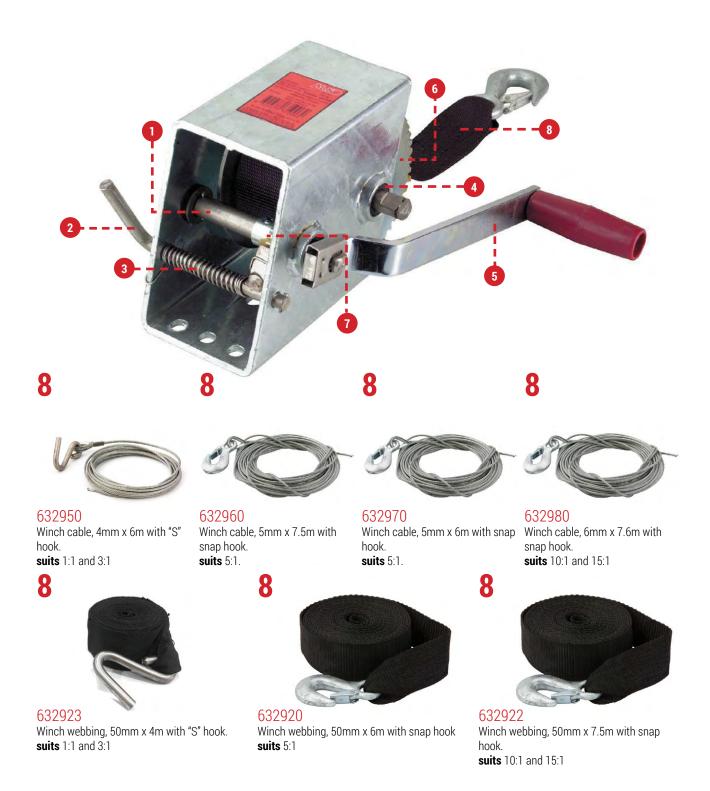


Specifications

Rated Line Pull:	1200 kg
Gear Ratio:	15:1 5:1 1:1
Hook Type:	Snap Hook
Cable Length:	N/A
Webbing Length:	50mm x 7.5m
Handle Length:	190 mm
Weight:	-



Premium Winch Service & Spare Parts





632501

Winch shaft, stainless steel 16 x139mm

suits 1:1 3:1 5:1



632502

Winch shaft, stainless steel 16 x149mm

suits 10:1



632504

Winch shaft, stainless steel 20 x149mm

suits 10:1



632505

Winch shaft, stainless steel 20 x187mm

suits 15:1



632511

Winch pawl stainless steel **suits** 1:1 3:1 5:1



632513

Winch pawl stainless steel **suits** 15:1



632521

Winch pawl spring stainless steel **suits** 1:1 3:1



632523

Winch pawl spring stainless steel **suits** 10:1 5:1 1:1



632524

Winch pawl spring stainless steel suits 15:1



632532

Winch bush 20mm **suits** 10:1 15:1





632531

Winch bush 16mm **suits** 1:1 3:1 5:1

5



635905

Winch Handle, 190mm **suits** All premium winches



632551

Winch drum & gear * suits 1:1 3:1



632553

Winch drum & gear * suits 10:1 15:1



632541

Pinion Gear 16mm bore **suits** 1:1 3:1 5:1 10:1 15:1



632542

Idler gear suits * **suits** 10:1

632543

Idler gear suits **suits** 15:1

*NB Special order / may not be stocked

96 ALKO www.alko.co.nz LITALKONZS00001



AL-KO SPRINGS AND SPRING SETS

AL-KO provides a large range of leaf springs for use on trailers and caravans under all types of conditions and loads.

AL-KO staff will assist you with the appropriate selection of the spring system best suited to your needs and the load you expect to carry.

Most AL-KO springs are given a load rating at a deflection of 50mm.

To make selection of your spring set easy and to ensure you receive exactly what you need, the selection of the combination of parts to provide you with a complete spring set is made up of three steps.

- 1. Select the spring type and size best suited for your application. Note the spring capacities shown are for two springs.
- 2. Select the "hanger kit" that suits the springs, where these are not included.
- 3. Select the "u-bolt kit" that matches the spring and axle configuration.

These three part numbers will ensure you are provided with the most appropriate combination to suit your needs. AL-KO staff will assist, when requested, with any selection criteria.

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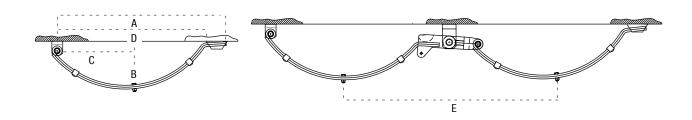
98



SLIPPER SPRINGS KITS

This term describes a leaf spring style where one end of the spring has the "traditional" eye and the other end comprises the open leaf or leaves of the spring forming a "tail" which slides in a "keeper" or "hanger" which is welded to the chassis of the trailer. This style of spring is very simple and long wearing, and is available in both black paint and DACROMET™ Coated finish in some sizes. Slipper springs can be joined on a multi axle trailer with the tail of the front spring sliding over the eye of the rear spring. Alternatively these springs can be attached to the trailer as individual sets. This style of spring arrangement is a simple and low cost solution to multi-axle trailer suspension.





Slipper Springs 50mm Black Low Camber Single Axle Kits

Part No.	Suits Axle Size	Description	Kit Capacity
585062KBL	50mm SQ	2 leaf 50 x 7 Single Axle Spring Set Slipper Black	700 kg
585063KBL	50mm SQ	3 leaf 50 x 7 Single Axle Spring Set Slipper Black	1000kg
585064KBL	50mm SQ	4 leaf 50 x 7 Single Axle Spring Set Slipper Black	1200 kg
585065KBL	50mm SQ	5 leaf 50 x 7 Single Axle Spring Set Slipper Black	1500 kg
585066KBL	50mm SQ	6 leaf 50 x 7 Single Axle Spring Set Slipper Black	1750 kg
585055KBL	50mm SQ	5 leaf 50 x 8 Single Axle Spring Set Slipper Black	2000 kg

All Above Kits Come With The Following Components As Detailed In The Relavant Kit Description				
REF QTY	DESCRIPTION	PART NO	REF QT	Y DESCRIPTION
2	Spring hanger front 50mm	590501	4	U Bolt 50mm x 1/2"
2	Shackle bolt M16 x 90mm galv	590126	8	Nut hex nyloc 1/2" BSW zinc
2	Nut M16 grade 8.8 nyloc galv	590127	8	Washer 1/2 ID 1 OD zinc 16g
2	Spring hanger rear 50mm	590502	2	Fish plate 51 x 51 x 10mm
2	Spring slipper DACROMET™ 50 x 7mm			

REF QTY	DESCRIPTION	PART NO
4	U Bolt 50mm x 1/2"	
8	Nut hex nyloc 1/2" BSW zinc	590119
8	Washer 1/2 ID 1 OD zinc 16g	190053
2	Fish plate 51 x 51 x 10mm	590418d

Slipper Springs 50mm Black Low Camber Tandem Axle Kits

Part No.	Suits Axle Size	Description	Kit Capacity
515062KB	50mm SQ	2 leaf 50 x 7 Single Axle Spring Set Tandem Black	1400K kg
515063KB	50mm SQ	3 leaf 50 x 7 Single Axle Spring Set Tandem Black	2000 kg
515064KB	50mm SQ	4 leaf 50 x 7 Single Axle Spring Set Tandem Black	2400 kg
515065KB	50mm SQ	5 leaf 50 x 7 Single Axle Spring Set Tandem Black	3000 kg
515066KB	50mm SQ	6 leaf 50 x 7 Single Axle Spring Set Tandem Black	3500 kg
515055KB	50mm SQ	5 leaf 50 x 8 Single Axle Spring Set Tandem Black	4000 kg

	All Above Kits Come With The Following Components As Detailed In The Relavant Kit Description										
REF QTY	DESCRIPTION	PART NO	REF QTY	DESCRIPTION	PART NO						
2	Spring hanger front 50mm	590501	4	Fish plate 51 x 51 x 10 mm	590418d						
2	Shackle bolt M16 x 90mm galv	590126	2	Shackle bolt M16 x 100 galv	590128						
4	Nut M16 grade 8.8 nyloc galv	590127	2	Spring centre hanger 50mm	590503						
2	Spring hanger rear 50mm	590502	2	Spring center rocker 50mm	590504						
4	Spring slipper DACROMET™ 50 x 7		2	Bolt M8 x 90 grade 8.8 galv	590129						
8	U Bolt 50mm sq x 1/2		2	M8 galvanised nyloc nut	590130						
16	Nut hex nyloc 1/2 BSW zinc	590119	2	Bolt M20 x 130 grade 8.8 galv	590131						
16	Washer 1/2" ID 1 OD zinc 16g	190053	2	M20 galvanised nyloc nut	590132						

Slipper Springs 50mm, 1/2" I.D. Eye, Black Low Camber

Part No.	Description	Finish	Α	В	С	D	Е	Capacity for two springs
585062NZ	2 leaf 50 x 7 Eye slipper spring	Black	620	90	275	545	786	700 kg
585063NZ	3 leaf 50 x 7 Eye slipper spring	Black	620	90	275	545	786	1000 kg
585064NZ	4 leaf 50 x 7 Eye slipper spring	Black	620	90	275	545	786	1200 kg
585065NZ	5 leaf 50 x 7 Eye slipper spring	Black	620	90	275	545	786	1500 kg
585066NZ	6 leaf 50 x 7 Eye slipper spring	Black	620	90	275	545	786	1750 kg
585055NZ	5 leaf 50 x 8 Eye slipper spring	Black	620	90	275	545	786	2000 kg

100 AL-KO www.alko.co.nz LITALKONZS00001



Slipper Springs 50mm DACROMET™ Low Camber Single Axle Kits

Part No.	Suits Axle Size	Description	Kit Capacity
585062NZD	50mm SQ	Single Axle Spring Set Slipper DACROMET $^{\text{TM}}$ 50 x 7 x 2LF	700 kg
585063NZD	50mm SQ	Single Axle Spring Set Slipper DACROMET™ 50 x 7 x 3LF	1000kg
585064NZD	50mm SQ	Single Axle Spring Set Slipper DACROMET $^{\text{TM}}$ 50 x 7 x 4LF	1200 kg
585065NZD	50mm SQ	Single Axle Spring Set Slipper DACROMET $^{\text{TM}}$ 50 x 7 x 5LF	1500 kg
585066NZD	50mm SQ	Single Axle Spring Set Slipper DACROMET $^{\text{TM}}$ 50 x 7 x 6LF	1750 kg
585055NZD	50mm SQ	Single Axle Spring Set Slipper DACROMET™ 50 x 8 x 5LF	2000 kg

	All Above Kits Come With The Following Components As Detailed In The Relavant Kit Description										
REF QTY	DESCRIPTION	PART NO	REF QTY DESCRIPTION	PART NO							
2	spring hanger front 50mm	590501	4 u bolt 50mm x 1/2"								
2	shackle bolt M16 x 90mm galv	590126	8 nut hex nyloc 1/2" BSW zinc	590119							
2	nut M16 grade 8.8 nyloc galv	590127	8 washer 1/2 id 1" od zinc 16g	190053							
2	spring hanger rear 50mm	590502	2 fish plate 51 x 51 x 10 mm	590418D							
2	spring slipper DACROMET™ 50 x 7										

Slipper Springs 50mm DACROMET™ Low Camber Tandem Axle Kits

Part No.	Suits Axle Size	Description	Kit Capacity
515062KD	50mm SQ	Single Axle Spring Set Tandem DACROMET $^{\text{TM}}$ 50 x 7 x 2LF	1400K kg
515063KD	50mm SQ	Single Axle Spring Set Tandem DACROMET™ 50 x 7 x 3LF	2000 kg
515064KD	50mm SQ	Single Axle Spring Set Tandem DACROMET™ 50 x 7 x 4LF	2400 kg
515065KD	50mm SQ	Single Axle Spring Set Tandem DACROMET™ 50 x 7 x 5LF	3000 kg
515066KD	50mm SQ	Single Axle Spring Set Tandem DACROMET™ 50 x 7 x 6LF	3500 kg
515055KD	50mm SQ	Single Axle Spring Set Tandem DACROMET™ 50 x 8 x 5LF	4000 kg

	All Above Kits Come With The Following Components As Detailed In The Relavant Kit Description										
REF QTY	DESCRIPTION	PART NO	REF QTY	DESCRIPTION	PART NO						
2	Spring hanger front 50mm	590501	4	Fish plate 51 x 51 x 10mm	590418D						
2	Shackle bolt M16 x 90mm galv	590126	2	Shackle bolt M16 x 100 galv	590128						
4	Nut M16 grade 8.8 nyloc galv	590127	2	Spring centre hanger 50mm	590503						
2	Spring hanger rear 50mm	590502	2	Spring center rocker 50mm	590504						
4	Spring slipper DACROMET™ 50 x 7mm		2	Bolt M8 x 90 grade 8.8 galv	590129						
8	U Bolt 50mm sq x 1/2"		2	M8 galvanised nyloc nut	590130						
16	Nut hex nyloc 1/2" BSW zinc	590119	2	Bolt M20 x 130 grade 8.8 galv	590131						
16	Washer 1/2 ID 1 OD zinc 16g	190053	2	M20 galvanised nyloc nut	590132						

Slipper Springs 50mm, 1/2" I.D. Eye, DACROMET™ Low Camber

Part No.	Description	Finish	Α	В	С	D	Е	Capacity for two springs
585062NZD	2 leaf 50 x 7 Eye slipper spring	DACROMET™	620	90	275	545	786	700 kg
585063NZD	3 leaf 50 x 7 Eye slipper spring	DACROMET™	620	90	275	545	786	1000 kg
585064NZD	4 leaf 50 x 7 Eye slipper spring	DACROMET™	620	90	275	545	786	1200 kg
585065NZD	5 leaf 50 x 7 Eye slipper spring	DACROMET™	620	90	275	545	786	1500 kg
585066NZD	6 leaf 50 x 7 Eye slipper spring	DACROMET™	620	90	275	545	786	1750 kg
585055NZD	5 leaf 50 x 8 Eye slipper spring	DACROMET™	620	90	275	545	786	2000 kg

Slipper Springs 50mm DACROMET™ High Camber Single Axle Kits

Part No.	Suits Axle Size	Description	Kit Capacity
585072K	50mm SQ	2 leaf 50 x 7 Single Axle Spring Set Slipper DACROMET $^{\text{TM}}$	700 kg
585073K	50mm SQ	3 leaf 50 x 7 Single Axle Spring Set Slipper DACROMET™	1000kg
585074K	50mm SQ	4 leaf 50 x 7 Single Axle Spring Set Slipper DACROMET™	1200 kg
585075K	50mm SQ	5 leaf 50 x 7 Single Axle Spring Set Slipper DACROMET™	1500 kg
585076K	50mm SQ	6 leaf 50 x 7 Single Axle Spring Set Slipper DACROMET™	1750 kg
585085K	50mm SQ	5 leaf 50 x 8 Single Axle Spring Set Slipper DACROMET™	2000 kg

	All Above Kits Come With The Following Components As Detailed In The Relavant Kit Description										
REF QTY	DESCRIPTION	PART NO	REF QTY	DESCRIPTION	PART NO						
2	Spring hanger front 50mm	590501	4	U Bolt 50mm x 1/2"							
2	Shackle bolt M16 x 90mm galv	590126	8	Nut hex nyloc 1/2" BSW zinc	590119						
2	Nut M16 grade 8.8 nyloc galv	590127	8	Washer 1/2" ID 1 OD zinc 16g	190053						
2	Spring hanger rear 50mm	590502	2	Fish plate 51 x 51 x 10mm	590418d						
2	Spring slipper DACROMET™ 50 x 7mm										

Slipper Springs 50mm DACROMET™ High Camber Tandem Axle Kits

Part No.	Suits Axle Size	Description	Kit Capacity
515072KD	50mm SQ	2 leaf 50 x 7 Single Axle Spring Set Tandem DACROMET $^{\text{TM}}$	1400K kg
515073KD	50mm SQ	3 leaf 50 x 7 Single Axle Spring Set Tandem DACROMET $^{\text{TM}}$	2000 kg
515074KD	50mm SQ	4 leaf 50 x 7 Single Axle Spring Set Tandem DACROMET $^{\text{TM}}$	2400 kg
515075KD	50mm SQ	5 leaf 50 x 7 Single Axle Spring Set Tandem DACROMET $^{\text{TM}}$	3000 kg
515076KD	50mm SQ	6 leaf 50 x 7 Single Axle Spring Set Tandem DACROMET™	3500 kg
515085KD	50mm SQ	5 leaf 50 x 8 Single Axle Spring Set Tandem DACROMET $^{\text{TM}}$	4000 kg

	All Above Kits Come With The Following Components As Detailed In The Relavant Kit Description										
REF QTY	DESCRIPTION	PART NO	REF QTY	DESCRIPTION	PART NO						
2	Spring hanger front 50mm	590501	4	Fish plate 51 x 51 x 10mm	590418d						
2	Shackle bolt M16 x 90mm galv	590126	2	Shackle bolt M16 x 100 galv	590128						
4	Nut M16 grade 8.8 nyloc galv	590127	2	Spring centre hanger 50mm	590503						
2	Spring hanger rear 50mm	590502	2	Spring center rocker 50mm	590504						
4	Spring slipper DACROMET™ 50 x 7		2	Bolt M8 x 90 grade 8.8 galv	590129						
8	U Bolt 50mm sq x 1/2"		2	M8 galvanised nyloc nut	590130						
16	Nut hex nyloc 1/2" BSW zinc	590119	2	bolt M20 x 130 grade 8.8 galv	590131						
16	Washer 1/2" ID 1" OD zinc 16g	190053	2	M20 galvanised nyloc nut	590132						

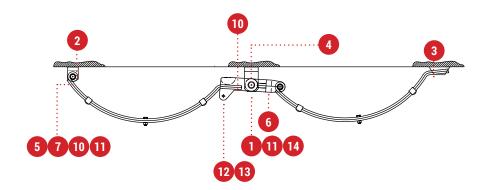
Slipper Springs 50mm, 1/2" I.D. Eye, DACROMET™ High Camber

Part No.	Description	Finish	А	В	С	D	Е	Capacity for two springs
585072NZD	2 leaf 50 x 7 Eye slipper spring	DACROMET TM		140	268		786	700 kg
585073NZD	3 leaf 50 x 7 Eye slipper spring	DACROMET™		140	268		786	1000 kg
585074NZD	4 leaf 50 x 7 Eye slipper spring	DACROMET™		140	268		786	1200 kg
585075NZD	5 leaf 50 x 7 Eye slipper spring	DACROMET TM		140	268		786	1500 kg
585076NZD	6 leaf 50 x 7 Eye slipper spring	DACROMET™		140	268		786	1750 kg
585085NZD	5 leaf 50 x 7 Eye slipper spring	DACROMET™		140	268		7896	2000 kg

102 AL-KO www.alko.co.nz LITALKONZS00001



Eye Slipper Spring 50mm Service & Kit parts





590132 Nyloc nut galvanised M20 for center rocker pin 50mm spring



590501 Spring hanger front 50mm slipper spring



590502 Spring hanger rear 50mm slipper spring



590503 Center hanger for 50mm springs



590126 Shackle bolt M16 x 90mm galvanised for 50mm spring



590504 Center rocker arm. DACROMET™ for 50mm spring C/W Bushes



590508 50mm spring shacle pin & nut kit skin pack - one side only



590119 Nut hex nyloc plated 1/2" BSW



590113 Shackle Bolt Non-Greasable 1/2"



Shackle bolt nyloc galvanised nut M16



590128 Shackle bolt center rocker M16 x 100mm galvanised for 50mm spring



590129 Keeper bolt center rocker for 50mm spring

13



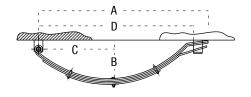
590130 Nut for keeper bolt for 50mm spring

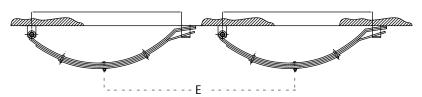
14

590131 Center rocker pin galvanised M20 X 130 for 50mm spring

U-Bolt kits to suit 50mm Springs

PART No.	SPRING LEAF(S)	AXLE SIZE	DESCRIPTION
597107G	2 & 3 Leaf	50mm SQ	U-BOLT KIT GAL 50mm SQ x 115mm U-BOLT SUIT 45mm P'BOLIC & UP TO 3LF SLPR
597121G	4 & 5 Leaf	50mm SQ	U-BOLT KIT GAL 50mm SQ x 127mm U-BOLT SUIT 45mm SLPR 4 & 5LF
597021G	5HD, 6, 7 Leaf	50mm SQ	U-BOLT KIT GAL 50mm SQ x 140mm U-BOLT SUIT 45mm SLPR 5HD, 6, 7LF
597133G	8 & 9 Leaf	50mm SQ	U-BOLT KIT GAL 50mm SQ x 150mm U-BOLT SUIT 45mm SLPR 8 & 9LF





Slipper Springs 45mm Single Axle Kits Black

Part No.	Suits Axle Size	Description	Kit Capacity
514563NZ	50mm SQ	3 leaf 45 x 6 Single Axle Spring Set Slipper Black	600 kg
514564NZ	50mm SQ	4 leaf 45 x 6 Single Axle Spring Set Slipper Black	900kg
514565NZ	50mm SQ	5 leaf 45 x 6 Single Axle Spring Set Slipper Black	1000 kg
514566NZ	50mm SQ	6 leaf 45 x 6 Single Axle Spring Set Slipper Black	1200 kg
514567NZ	50mm SQ	7 leaf 45 x 6 Single Axle Spring Set Slipper Black	1350 kg
514568NZ	50mm SQ	8 leaf 45 x 6 Single Axle Spring Set Slipper Black	1380 kg
514569NZ	50mm SQ	9 leaf 45 x 6 Single Axle Spring Set Slipper Black	1600 kg

	All Above Kits Come With The Following Components As Detailed In The Relavant Kit Description							
REF QTY	DESCRIPTION	PART NO	REF QTY	DESCRIPTION	PART NO			
2	Spring hanger front 45mm shallow	590442	4	U Bolt 50mm x 1/2"				
2	Bolt 1/2in BSW x 3 1/2" zinc	590113	8	Washer 1/2" ID 1" OD zinc 16g	190053			
2	Washer 1/2 id 1" od zinc 16g	190053	8	Nut hex nyloc 1/2" BSW zinc	590119			
2	Nut hex 1/2" BSW silver zinc	590111	2	Gal fish plate slotted	590415g			
2	Spring slipper black 45mm x 6mm		2	45mm rear spring hanger	590445			

Slipper Springs 45mm x 6mm, 1/2" I.D. Eye, Black

Part No.	Description	Finish	Α	В	С	D	Е	Capacity for two springs
584563	3 leaf Eye slipper spring	Black	765mm	155mm	330mm	700mm	725mm	600 kg
584564	4 leaf Eye slipper spring	Black	765mm	155mm	330mm	700mm	725mm	600 kg
584565	5 leaf Eye slipper spring	Black	765mm	155mm	330mm	700mm	725mm	900 kg
584566	6 leaf Eye slipper spring	Black	765mm	155mm	330mm	700mm	725mm	900 kg
584567	7 leaf Eye slipper spring	Black	765mm	155mm	330mm	700mm	725mm	1000 kg
584568	8 leaf Eye slipper spring	Black	765mm	155mm	330mm	700mm	725mm	1000 kg
584569	9 leaf Eye slipper spring	Black	765mm	155mm	330mm	700mm	725mm	1200 kg

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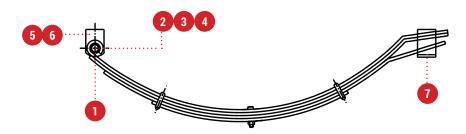
Slipper Springs 45mm DACROMET™ Single Axle Kits

Part No.	Suits Axle Size	D	escription	Kit Capacity
514563DNZ	50mm SQ	3 leaf 45 x 6 Single Axle	Spring Set Slipper DACROMET™	600 kg
514564DNZ	50mm SQ	4 leaf 45 x 6 Single Axle	Spring Set Slipper DACROMET™	900kg
514565DNZ	50mm SQ	5 leaf 45 x 6 Single Axle	Spring Set Slipper DACROMET™	1000 kg
514566DNZ	50mm SQ	6 leaf 45 x 6 Single Axle	Spring Set Slipper DACROMET™	1200 kg
514567DNZ	50mm SQ	7 leaf 45 x 6 Single Axle	Spring Set Slipper DACROMET™	1350 kg
514568DNZ	50mm SQ	8 leaf 45 x 6 Single Axle	Spring Set Slipper DACROMET™	1450 kg
514569DNZ	50mm SQ	9 leaf 45 x 6 Single Axle	Spring Set Slipper DACROMET™	1600 kg
All	Above Kits Come With	The Following Compon	ents As Detailed In The Relavant Kit Des	cription
REF QTY DESCRIP	TION	PART NO	REF QTY DESCRIPTION	PART NO
2 Spring har	nger front 45mm shallow	590442	4 U Bolt 50mm x 1/2"	
2 Bolt 1/2" E	3SW x 3 1/2" zinc	590113	8 Washer 1/2" ID 1" OD zinc 16g	190053
2 Washer 1/	2" ID 1" OD zinc 16g	190053	8 Nut hex nyloc 1/2" BSW zinc	590119
2 Nut hex 1/	2" BSW silver zinc	590111	2 Gal fish plate slotted	590415G
2 Spring slip	per black 45mm x 6mm		2 45mm rear spring hanger	590445

Slipper Springs 45mm x 6mm, 1/2" I.D. Eye, DACROMET TM

Part No.	Description	Finish	Α	В	С	D	Е	Capacity for two springs
584563D	3 leaf Eye slipper spring	DACROMET™	765mm	155mm	310mm	700mm	725mm	600 kg
584564D	4 leaf Eye slipper spring	DACROMET™	765mm	155mm	310mm	700mm	725mm	900 kg
584565D	5 leaf Eye slipper spring	DACROMET™	765mm	155mm	310mm	700mm	725mm	1000 kg
584566D	6 leaf Eye slipper spring	DACROMET™	765mm	155mm	310mm	700mm	725mm	1200 kg
584567D	7 leaf Eye slipper spring	DACROMET™	765mm	155mm	310mm	700mm	725mm	1450 kg
584569D	9 leaf Eye slipper spring	DACROMET™	765mm	155mm	310mm	700mm	725mm	1600 kg

Eye Slipper Spring 45mm Service & Kit parts





106

590001



2



590110 Washer 1/2" Spring Zinc



590113 Shackle Bolt Non-Greasable 1/2"





590119 Shackle Bolt Nyloc Nut 1/2" BSW



Spring nylon bush 1/2"

590442 Shallow Front Slipper Hanger 45mm spring 1/2" bolt



590443 Deep Front Slipper Hanger 45mm spring 1/2" bolt



590445 Rear Slipper Hanger 45mm spring

U-Bolt kits to suit 45mm Springs

PART No.	SPRING LEAF(S)	AXLE SIZE	DESCRIPTION
597000G	3 Leaf	50mm SQ	U-BOLT KIT GAL 50mm SQ x 115mm U-BOLT SUIT 45mm P'BOLIC & UP TO 3LF SLPR
597005G	4 & 5 Leaf	50mm SQ	U-BOLT KIT GAL 50mm SQ x 127mm U-BOLT SUIT 45mm SLPR 4 & 5LF
597021G	5, 6, 7 Leaf	50mm SQ	U-BOLT KIT GAL 50mm SQ x 140mm U-BOLT SUIT 45mm SLPR 5, 6, 7LF
597040G	8 & 9 Leaf	50mm SQ	U-BOLT KIT GAL 50mm SQ x 150mm U-BOLT SUIT 45mm SLPR 8 & 9LF

All Above U-Bolt Kits Come With The Following Components As Detailed In The Relavant Kit Description							
QTY	DESCRIPTION	QTY	DESCRIPTION				
4	U-Bolts	8	Nyloc Nut 1/2" BSW Zinc				
2	Spring pad/Axle Pad	8	Washer 1/2" 16G Zinc				
2	Slotted fishplates						

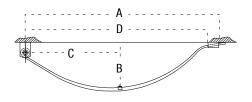
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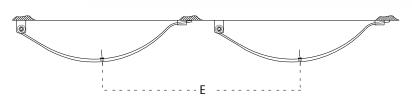


PARABOLIC SPRINGS

Using automotive design technology, the parabolic spring is a slipper type which has only one leaf. This single leaf tapers at the ends and is thicker in the middle of the spring. The performance of these springs is similar to that of multi leaf slipper springs, but without multiple leaves lends itself to DACROMET™ coating for the marine trailer industry due to it's ability to resist the rusting that naturally occurs in a salt water environment.



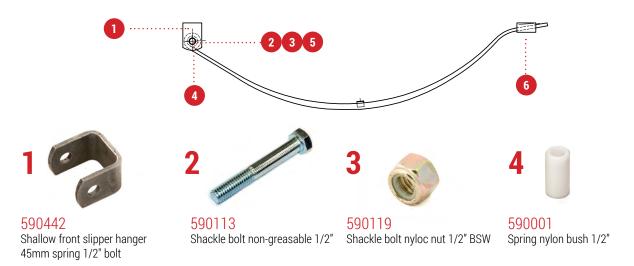




Parabolic Springs, 1/2" I.D. Eye, DACROMET™

Part No.	Description	Finish	Α	В	С	D	Е	Capacity for two springs
584523D	3 leaf Eye slipper spring	DACROMET™	755mm	150mm	350mm	690mm	860mm	600 kg
584525D	4 leaf Eye slipper spring	DACROMET™	755mm	150mm	350mm	690mm	860mm	1000 kg
584527D	5 leaf Eye slipper spring	DACROMET™	755mm	150mm	350mm	690mm	860mm	1400 kg

Parabolic Spring Service & Kit parts







EYE TO EYE (SHACKLE) SPRINGS

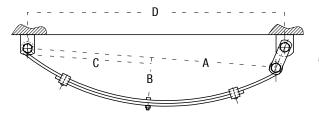
This style of spring is the "traditional" automotive leaf spring.

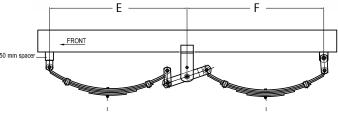
Both ends of the spring are coiled into an eye into which a bush is placed. The front of the spring is captive in a spring "hanger" and the rear of the spring is allowed to swing on shackle bolts and shackle plates around a rear "hanger" or "dumb jack" and pin.

This spring system gives smooth operation, with the parts which naturally wear over time, being able to be replaced.

Eye to eye springs are the most commonly used spring when a multi axle configuration is being considered. By linking the springs through a "rocker" assembly, a transfer of load is achieved when one axle is carrying a large percentage of the weight (crossing kerbs etc.) so that the loads are more evenly spread throughout the system.







Eye To Eye 45MM X 8MM Centre Bolt Central 9/16" i.D. Eye

Part No.	Description	Finish	Α	В	С	D	Е	F	G	Capacity for two springs
574582	2 Leaf Eye to Eye Spring	Black	711mm	120mm	355mm	735mm	830mm	825mm	960mm	700 kg
574583	3 Leaf Eye to Eye Spring	Black	711mm	120mm	355mm	735mm	830mm	825mm	960mm	850 kg
574584	4 Leaf Eye to Eye Spring	Black	711mm	120mm	355mm	735mm	830mm	825mm	960mm	1100 kg
574585	5 Leaf Eye to Eye Spring	Black	711mm	120mm	355mm	735mm	830mm	825mm	960mm	1300 kg
574586	6 Leaf Eye to Eye Spring	Black	711mm	120mm	355mm	735mm	830mm	825mm	960mm	1500 kg
574588	8 Leaf Eye to Eye Spring	Black	711mm	120mm	355mm	735mm	830mm	825mm	960mm	1900 kg

Eye To Eye 45MM X 8MM Centre Bolt Central 9/16" I.D. Eye

Part No.	Description	Finish	А	В	С	D	Е	F	G	Capacity for two springs
574590	6 Leaf Eye to Eye Spring	Black	835mm	114mm	418mm	860mm	936mm	936mm	1046mm	1450 kg
574591	7 Leaf Eye to Eye Spring	Black	835mm	114mm	418mm	860mm	936mm	936mm	1046mm	1600 kg

Eye to Eye 45MM X 8MM Centre Bolt Offset 9/16" I.D. Eye

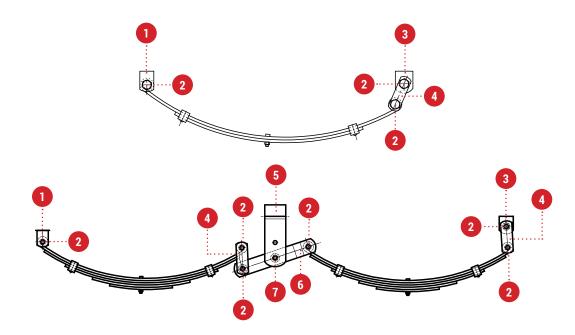
Part No.	Description	Finish	A	В	С	D	Е	F	G	Capacity for two springs
574595	5 Leaf Eye to Eye Spring	Black	710mm	105mm	300mm	705mm	830mm	825mm	850mm	1300 kg
574596	6 Leaf Eye to Eye Spring	Black	710mm	105mm	300mm	705mm	830mm	825mm	850mm	1500 kg
574598	8 Leaf Eye to Eye Spring	Black	710mm	105mm	300mm	705mm	830mm	825mm	850mm	1700 kg

108 AL-KO www.alko.co.nz LITALKONZS00001



EYE & EYE SPRINGS SUPPORT

45mm Leaf





590600

Front Hanger 45mm spring 9/16" **W** 45mm **D** 9/16"



590608

Shackle pin 9/16" x 3 1/2" solid with 9/16" nyloc nut

D 9/16" **L** 3 1/2"



590604

Rear Hanger DumbJack 45mm spring

W 45mm **D** 5/8"



590606

9/16" Shackle plate, 75mm centres

L 75mm

D 9/16"



590601

Centre hanger suit 45mm tandem shackle springs - 9/16"

Suits: 590616



Rocker assembly suit 45mm shackle spring suit 5/8" pin



590611

Shackle pin non-greasable **D** 5/8" **L** 3 1/2"



590614

Shackle pin nyloc nut 5/8" UNF



590615

Shackle pin nyloc nut 9/16" UNF



590002

Spring nylon bush **ID** 9/16" **OD** 7/8"

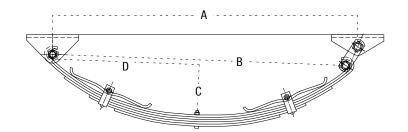
L 45mm



590004

Spring nylon bush **ID** 9/16" **OD** 3/4"

L 45mm

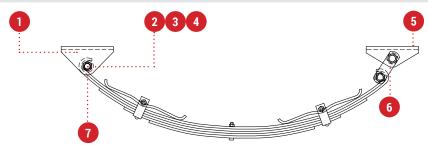


OUTBACK Single Axle Trailer Kits inc. U-Bolts

Part No. For 1 Kit	Description Of Spring In Kit	Finish	Single Axle Set up dimension "A" (No load)	Axle Size (For U-Bolts)
536075	5 Leaf Eye to Eye Spring	Black	865mm / 875mm	45mm Square
536076	6 Leaf Eye to Eye Spring	Black	865mm / 875mm	45mm Square
536077	7 Leaf Eye to Eye Spring	Black	865mm / 875mm	50mm Square
536078	8 Leaf Eye to Eye Spring	Black	865mm / 875mm	50mm Square
536079	9 Leaf Eye to Eye Spring	Black	865mm / 875mm	50mm Square
536080	10 Leaf Eye to Eye Spring	Black	865mm / 875mm	50mm Square

60mm X 7mm OUTBACK (16mm Eye)

Part No. For 1 Side	Description	Finish	В	С	D	Capacity for two springs
576075	5 Leaf Eye to Eye Spring	Black	841mm	158mm	420mm	1150 kg
576076	6 Leaf Eye to Eye Spring	Black	841mm	158mm	420mm	1350 kg
576077	7 Leaf Eye to Eye Spring	Black	841mm	158mm	420mm	1550 kg
576078	8 Leaf Eye to Eye Spring	Black	841mm	158mm	420mm	1750 kg
576079	9 Leaf Eye to Eye Spring	Black	841mm	158mm	420mm	2000kg
576080	10 Leaf Eye to Eye Spring	Black	841mm	158mm	420mm	2500kg





590630 Front Hanger 60mm Outback



590707 Shackle Pin 16mm.

590713

Shackle Plate 16mm, 64mm centres CEHLIES



590632 Shackle Pin Greasable 16mm



590633 Spring & Dumb jack steel bush 16mm



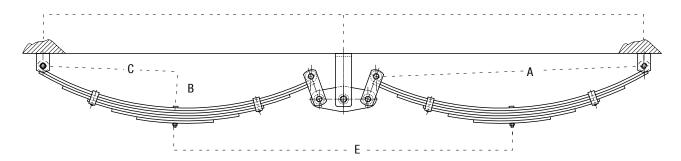
590708 Shackle Pin nyloc nut 16mm



590003 Spring nylon bush 16mm

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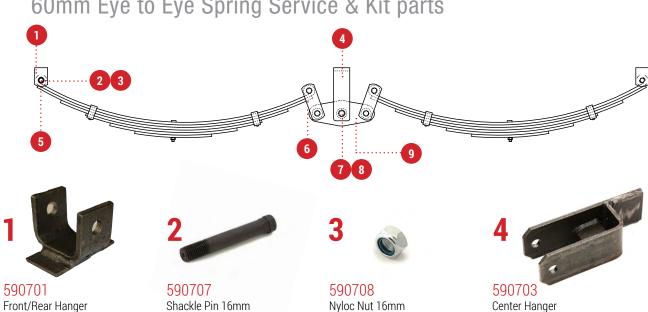




60mm X 6mm Tandem Rocker (16mm Eye)

Part No. For 1 Side	Description	Finish	A	В	С	D	E	Capacity for two springs
546205	5 Leaf Tandem Assembley (1 Side)	Black	700mm	120mm	386mm	825mm	893mm	700 kg
546206	6 Leaf Tandem Assembley (1 Side)	Black	700mm	120mm	386mm	825mm	893mm	850 kg
546207	7 Leaf Tandem Assembley (1 Side)	Black	700mm	120mm	386mm	825mm	893mm	1100 kg

60mm Eye to Eye Spring Service & Kit parts





Spring nylon bush 16mm



Shackle Plate 16mm, 64mm centres



Centre Rocker Pin Greasable 18mm

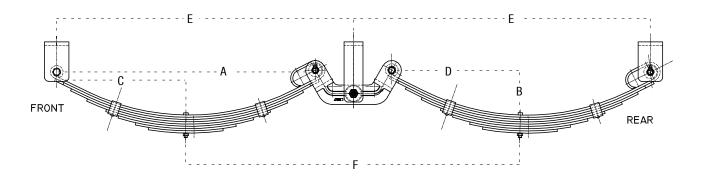




Rocker Arm

ROCKER ROLLER SPRINGS

For installation instructions for Rocker Roller spring sets, please refer to the technical bulletin section at www.alko.com.au



Rocker Roller Assemblies 60mm x 6mm 16mm Eye, Black

Part No.	Description	Finish	Α	В	С	D	Е	F	Capacity for two springs
576450	LH 60mm x 5 leaf suit 14" wheels	Black	687mm	117mm	396mm	291mm	787mm	785mm	950 kg to 1100 kg
576451	RH 60mm x 5 leaf suit 14" wheels	Black	687mm	117mm	396mm	291mm	787mm	785mm	950 kg to 1100 kg
576460	LH 60mm x 6 leaf suit 14" wheels	Black	687mm	117mm	396mm	291mm	787mm	785mm	1105 kg to 1250 kg
576461	RH 60mm x 6 leaf suit 14" wheels	Black	687mm	117mm	396mm	291mm	787mm	785mm	1105 kg to 1250 kg
576470	LH 60mm x 7 leaf suit 14" wheels	Black	687mm	117mm	396mm	291mm	787mm	785mm	1300 kg to 1500 kg
576471	RH 60mm x 7 leaf suit 14" wheels	Black	687mm	117mm	396mm	291mm	787mm	785mm	1300 kg to 1500 kg
576650	LH 60mm x 5 leaf suit 16" wheels	Black	687mm	117mm	343mm	343mm	787mm	888mm	1300 kg to 1450 kg
576651	RH 60mm x 5 leaf suit 16" wheels	Black	687mm	117mm	343mm	343mm	787mm	888mm	1300 kg to 1450 kg
576660	LH 60mm x 6 leaf suit 16" wheels	Black	687mm	117mm	343mm	343mm	787mm	888mm	1450 kg to 1600 kg
576661	RH 60mm x 6 leaf suit 16" wheels	Black	687mm	117mm	343mm	343mm	787mm	888mm	1450 kg to 1600 kg
576670	LH 60mm x 7 leaf suit 16" wheels	Black	687mm	117mm	343mm	343mm	787mm	888mm	1625 kg to 2100 kg
576671	RH 60mm x 7 leaf suit 16" wheels	Black	687mm	117mm	343mm	343mm	787mm	888mm	1625 kg to 2100 kg
576680	LH 60mm x 8 leaf suit 16" wheels	Black	687mm	117mm	343mm	343mm	787mm	888mm	1900 kg to 2245 kg
576681	RH 60mm x 8 leaf suit 16" wheels	Black	687mm	117mm	343mm	343mm	787mm	888mm	1900 kg to 2245 kg

112 ALKO www.alko.co.nz LITALKONZS00001



Rocker Roller Assemblies 60mm x 6mm 16mm Eye, Black Tandem Kits

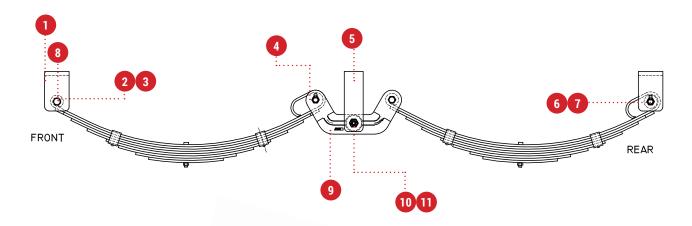
Part No.	Suits Axle Size	Description	Kit Capacity
576452NZ	50mm SQ	SPRING R/ROLLER SET 60 x 6 x 5LF 2200	DKG - 14" 700 kg
576462NZ	50mm SQ	SPRING R/ROLLER SET 60 x 6 x 6LF 2500	DKG - 14" 1000kg
576472NZ	50mm SQ	SPRING R/ROLLER SET 60 x 6 x 7LF 3000	DKG - 14" 1200 kg
576672NZ	50mm SQ	SPRING R/ROLLER SET 60 x 7 x 7LF 4200	DKG - 16" 1500 kg
576682NZ	50mm SQ	SPRING R/ROLLER SET 60 x 7 x 8LF 4490	DKG - 16" 1750 kg
А	III Above Kits Come Wit	h The Following Components As Detailed In	The Relavant Kit Description
REF QTY DESCRI	PTION	PART NO REF QTY DESCR	IPTION PART NO
1 R/Roller	left hand side assembly	8 U Bolts	5/8" galv to suit 50mm axle
1 R/Roller	right hand side assembly	16 5/8" Ny	loc nuts zinc

Rocker Roller Assemblies 60mm x 6mm 16mm Eye, DACROMET™

16 16mm Flat washers galv

4 Fishplates galv to suit 60mm x 50mm

Part No.	Description	Finish	Α	В	С	D	Е	F	Capacity for two springs
576460D	LH 60mm x 6 leaf suit 14" wheels	DACROMET™	687mm	117mm	396mm	291mm	787mm	785mm	1105 kg to 1250 kg
576461D	RH 60mm x 6 leaf suit 14" wheels	DACROMET™	687mm	117mm	396mm	291mm	787mm	785mm	1105 kg to 1250 kg
576470D	LH 60mm x 7 leaf suit 14" wheels	DACROMET™	687mm	117mm	396mm	291mm	787mm	785mm	1300 kg to 1500 kg
576471D	RH 60mm x 7 leaf suit 14" wheels	DACROMET™	687mm	117mm	396mm	291mm	787mm	785mm	1300 kg to 1500 kg
576670D	LH 60mm x 7 leaf suit 16" wheels	DACROMET™	687mm	117mm	343mm	343mm	787mm	888mm	1625 kg to 2100 kg
576671D	RH 60mm x 7 leaf suit 16" wheels	DACROMET™	687mm	117mm	343mm	343mm	787mm	888mm	1625 kg to 2100 kg
576680D	LH 60mm x 8 leaf suit 16" wheels	DACROMET™	687mm	117mm	343mm	343mm	787mm	888mm	1900 kg to 2245 kg
576681D	RH 60mm x 8 leaf suit 16" wheels	DACROMET™	687mm	117mm	343mm	343mm	787mm	888mm	1900 kg to 2245 kg





576302 Front/Rear hanger 60mm



590707 Shackle pin 16mm



590708 Shackle pin nyloc nut 16mm



576301 Steel roller bush



576301ZN Steel roller bush Zinc plated.



570305 Centre rocker hanger



576304 Shackle pin greasable 16mm



590708 Shackle pin nyloc nut 16mm



590003 Spring nylon bush 16mm



576303 Centre rocker arm



576303D Centre rocker arm. Dacromet



576306 Centre rocker pin greasable 18mm



114



590712 Centre rocker pin nyloc nut 18mm



590632ZN Shackle pin greasable 16mm Zinc plated.



590632 Shackle Pin Greasable 16mm



590707ZN Shackle pin 16mm Zinc plated.

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HANGER KITS

In selecting a set of springs you will need to identify a spring hanger kit.

This kit comprises the spring hangers, pins, rockers etc for attaching the spring set to the chassis of the trailer or caravan. It does not include the axle fitting components. (See U Bolt Kits)

The hanger kits for single axles contain the parts for one axle fitment. The hanger kits for tandem axles contain the parts for fitting two axles.

To select the appropriate hanger kit:

- Identify the type of spring, i.e. slipper, parabolic, shackle etc.
- Identify the axle kit type, i.e. single or tandem
- Identify the shackle pin size, (see the spring chart) i.e. 1/2", 9/16" etc.
- For shackle springs check the eye to eye length as there are two kit options. i.e. 700/711mm and 835mm (different centre hangers and rockers are used.)

Select the part number you need for your combination.

Identify the type of spring, i.e. slipper, parabolic, shackle etc.

590133

Hanger kit single axle 50mm slipper spring. Includes Front hangers, Rear hangers, Pins & nuts.

Kit includes

2 x 590501	Spring hanger front 50mm
2 x 590126	Spring hanger rear 50mm
2 x 590126	Shackle bolt 16mm
2 x 590127	Nut 16mm



595005

45mm Single axle kit for 45mm wide slipper springs with 1/2" shackle bolts

Kit includes

2 x 590442	45mm Front hanger
2 x 590445	45mm Rear hanger
2 x 590113	1/2" Bolt

2 x 590113 1/2" Bolt 2 x 590119 1/2" Nut

590134

Rocker kit 50mm slipper spring. Includes Rocker arms, Centre hangers, Pins & nuts.

Kit includes

2 x 590503	Spring centre hanger 50mm
2 x 590504	Spring centre Rocker 50mm
2 x 590128	Shackle bolt 16mm
2 x 590127	Nut 16mm
2 x 590129	8mm Keeper bolt
2 x 590130	8mm nut
2 x 590131	20mm Centre rocker nin

2 x 590132 20mm Nut



595010

Single axle kit for 45mm wide slipper springs with 9/16" shackle bolts

Kit includes

2 x 590600	45mm Front hanger
2 x 590445	45mm Rear hanger
2 x 590608	9/16" Bolt & nut



595015

Single axle kit for 45mm wide slipper springs with 5/8" shackle bolts

Kit includes

2 x 590451	60mm Front hanger
2 x 590450	60mm Rear hanger
2 x 590125	5/8" Bolt
2 x 590614	5/8" Nut



595020

Tandem axle kit for 45mm wide slipper springs with 1/2" shackle bolts

Kit includes

itit iiioiaaco	
4 x 590443	45mm Deep front hanger
2 x 590445	45mm Rear hanger
4 x 590113	1/2" Bolt
4 x 590119	1/2" Nut

4 x 590608



Tandem axle kit for 45mm wide slipper springs with 9/16" shackle bolts

Shackle pin 9/16 & nut



EYE TO EYE SPRING HANGER KITS



595050

Single axle kit for 45mm shackle springs with 9/16" shackle bolts

Kit includes

2 x 590600	Spring hanger
6 x 590608	Shackle pin 9/16" with nuts
2 x 590604	9/16" Spring dumb jack
4 x 590606	9/16" Shackle plate
2 x 590002	9/16" Spring bush



595060

Tandem axle kit for 45mm shackle springs with 9/16" shackle bolts & 700mm/711mm spring lengths

Kit includes

2 x 590600	Spring hanger
12x590608	Shackle pin 9/16" & nut
2 x 590611	Shackle pin 5/8"
2 x 590614	Nut 5/8"
2 x 590604	Spring dumb jack
8 x 590606	Shackle plate
4 x 590002	Spring bush 9/16"
2 x 590601	Centre rocker hanger
2 x 590616	Rocker arm
2 x 590005	Spring bush 5/8"

OUTBACK SPRING HANGER KIT



595055

Single axle kit for long Outback spring with 16mm shackle bolts

Kit includes

0	0 ' 1 ' (1
2 x 590630	Spring hanger front
6 x 590632	Shackle pin greasable
6 x 590708	Nyloc nut 16mm
2 x 590631	Spring dumb jack
4 x 590713	Shackle plate

U-BOLTS & KITS

To complete the total spring kit selection, you need to identify the U bolt kit that is appropriate.

U bolt kits contain the U bolts, nuts & washers, axle pads and fish plates.

Each U BOLT KIT contains components for ONE axle only. When ordering for a multi axle application, order the number of kits to correspond with the number of axles.

To select your U bolt kit:

118

- 1. Identify what width of spring you are using: 45mm or 60mm
- 2. Identify the number of spring leaves, i.e. 2,3,7,etc.
- 3. Identify the section of the axle, i.e. 39mm round, 50mm square etc.

Simply read across the tables to find the appropriate part number for the U bolt kit you require.

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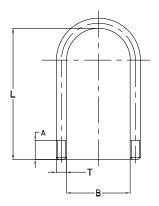


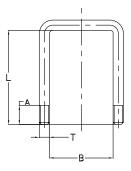
U-Bolt Kit to suit 45mm & 50mm Sping Width

Spring Leaf(s)	Axle size 39mm RND	Axle size 40mm SQ	Axle size 45mm RND	Axle size 45mm SQ	Axle size 60mm Tube	Axle size 50mm RND	Axle size 65mm SQ
1 Leaf	597000						
2 Leaf	597000						
3 Leaf	597000	597005	597010				
4 Leaf		597005	597010				
5 Leaf		597005	597015	597020	597030		
6 Leaf			597015	597020	597030	590727	597035
7 Leaf				597025	597030		597040
8 Leaf				597025	597030		597040
9 Leaf							597040

SPRING Leaf(S)	Axle size 40mm SQ	Axle size 45mm RND	Axle size 45mm SQ	Axle size 50mm RND	Axle size 50mm SQ	Axle size 56mm RND	Axle size 60mm RND	Axle size 65mm SQ
4 Leaf X 6mm	597065	597070	597080					
5 Leaf X 6mm		597075	597095	597135				
6 Leaf X 6mm			597095	597135	597105			
7 Leaf X 6mm			597095		597105			
8 Leaf X 6mm					597105	597130		
"Outback" 5 Leaf		597116	597115	597137	597126			
"Outback" 6 Leaf				597137	597126			
"Outback" 7 Leaf					597120			
"Outback" 8 Leaf					597120			
"Outback" 9 Leaf					597127			
"Outback" 10 Leaf								597106
Long Outback					597127			
ROCKER ROLLER 7 Leaf					597125	597130	597140	
ROCKER ROLLER 8 Leaf					597125	597130	597140	

U-BOLTS

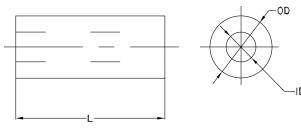




Part No.	Axle Section "B"	U Bolt Length "L"	Nominal Thread Length "A"	Thread Type "T"	Finish
591145	39mm Round	115mm / 4 1/2"	50mm	1/2" BSW	Black
591150	39mm Round	127mm / 5"	50mm	1/2" BSW	Black
591345	45mm Round	115mm / 4 1/2"	50mm	1/2" BSW	Black
591350	45mm Round	127mm / 5"	50mm	1/2" BSW	Black
591355	45mm Round	140mm / 5 1/2"	50mm	1/2" BSW	Black
591555	50mm Round	140mm / 5 1/2"	50mm	1/2" BSW	Black
592515	50mm Round	145mm / 5"	50mm	5/8" BSW	Black
591565	50mm Round	165mm / 6 1/2"	50mm	1/2" BSW	Black
591566	56mm Round	153mm / 6"	50mm	1/2" BSW	Black
591245	40mm Square	115mm / 4 1/2"	50mm	1/2" BSW	Black
591250	40mm Square	127mm / 5"	50mm	1/2" BSW	Black
591255	40mm Square	140mm / 5 1/2"	50mm	1/2" BSW	Black
591445	45mm Square	115mm / 4 1/2"	50mm	1/2" BSW	Black
591450	45mm Square	127mm / 5"	50mm	1/2" BSW	Black
591455	45mm Square	140mm / 5 1/2"	50mm	1/2" BSW	Black
591455G	45mm Square	145mm/ 5 3/4"	50mm	1/2" BSW	Galv
591465	45mm Square	165mm / 6 1/2"	50mm	1/2" BSW	Black
592455	45mm Square	160mm / 6 1/4"	50mm	5/8" BSW	Black
592455G	45mm Square	160mm / 6 1/4"	50mm	5/8" BSW	Galv
591645	50mm Square	115mm / 4 1/2"	50mm	1/2" BSW	Black
591645G	50mm Square	115mm / 4 1/2"	50mm	1/2" BSW	Galv
591655	50mm Square	140mm / 5 1/2"	50mm	1/2" BSW	Black
591655G	50mm Square	140mm / 5 1/2"	50mm	1/2" BSW	Galv
592505	50mm Square	150mm / 6"	50mm	5/8" BSW	Black
591660	50mm Square	153mm / 6"	50mm	1/2" BSW	Black
591660G	50mm Square	153mm / 6"	50mm	1/2" BSW	Galv
591665	50mm Square	165mm / 6 1/2"	50mm	1/2" BSW	Black
591665G	50mm Square	165mm / 6 1/2"	50mm	1/2" BSW	Galv
592506	50mm Square	165mm / 6 1/2"	50mm	5/8" BSW	Black
592506G	50mm Square	165mm / 6 1/2"	50mm	5/8" BSW	Galv
592566	56mm Round	165mm / 6 1/2"	50mm	5/8" BSW	Black
592666	60mm Round	165mm / 6 1/2"	50mm	5/8" BSW	Black
592666G	60mm Round	165mm / 6 1/2"	50mm	5/8 BSW	Galv
590108	60.3mm Round Tube	153mm / 6"	50mm	1/2 BSW	Black
592630	63mm Square	180mm / 7"	63mm	5/8 BSW	Black



SPRING BUSHES





590001 Spring nylon bush **ID** 1/2" **OD** 7/8" **L** 45mm



590002 Spring nylon bush **ID** 9/16" **OD** 7/8" **L** 45mm



 $\begin{array}{ccc} \textbf{590003} \\ \textbf{Spring nylon bush} \\ \textbf{ID } 5/8" & \textbf{OD } 7/8" & \textbf{L } 60 \text{mm} \end{array}$



590004Spring nylon bush **ID** 9/16" **OD** 3/4" **L** 45mm



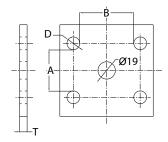
590005 Spring nylon bush **ID** 5/8" **OD** 7/8" **L** 45mm



576301 Rocker Roller Spring steel bush 60mm wide, suits16mm Pin

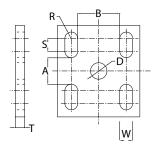


576301ZN Steel roller bush Zinc plated.



Fish Plates (Punched Hole)

Part No.	Description	Surface Finish	А	В	T	D
590401	Fish plate	Black	45mm	45mm	8mm	14mm
591410	Fish plate	Black	40mm	60mm	8mm	14mm
590413	Fish plate	Black	40mm	45mm	8mm	14mm
590414	Fish plate	Zinc Plated	45mm	60mm	10mm	14mm
590414G	Fish plate	Galvanised	45mm	60mm	10mm	14mm
590417	Fish plate	Black	50mm	60mm	8mm	14mm
590418D	Fish plate	DACROMET™	51mm	51mm	10mm	14mm
590465	Fish plate	Black	60mm	65mm	10m	17mm



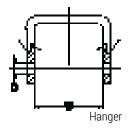
Fish Plates (Slotted)

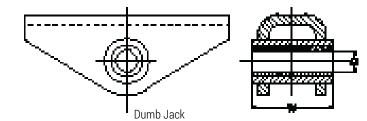
Part No.	Description	Surface Finish	А	В	Т	S	R	D	W
590415	Fish plate slotted	Black	39mm	45mm	10mm	14mm	7mm	19mm	14mm
590415G	Fish plate slotted	Galvanised	39mm	45mm	10mm	14mm	7mm	19mm	14mm
590420	Fish plate slotted	Black	60mm	45mm	10mm	2.5mm	8.5mm	19mm	17mm
590420G	Fish plate slotted	Galvanised	60mm	45mm	10mm	2.5mm	8.5mm	19mm	17mm
590456	Fish plate slotted	Black	60mm	55mm	10mm	2.5mm	8.5mm	19mm	17mm
590456G	Fish plate slotted	Galvanised	60mm	55mm	10mm	2.5mm	8.5mm	19mm	17mm

122 AL-KO www.alko.co.nz LITALKONZS00001



Spring Hangers & Shackle Plates







590444 Rear parabolic hanger 45mm spring **W** 45mm



590443
Deep front slipper hanger 45mm spring 1/2" bolt **W** 45mm **D** 1/2"



590442 Shallow front slipper hanger 45mm spring 1/2" bolt **W** 45m **D** 1/2"



590445 Rear slipper hanger 45mm spring **W** 45mm



590446 Front Slipper Hanger 60mm spring 5/8" bolt **W** 60mm **D** 5/8"



590447 Rear Slipper Hanger 60mm spring **W** 60mm



590450 Rear Slipper Hanger on strap 60mm spring **W** 60mm



590451 Front Slipper Hanger on strap 60mm spring 5/8" bolt 60 **W** 5/8"



590600Front Hanger 45mm spring 9/16" bolt **W** 45mm **D** 9/16"



590630 Front Hanger 60mm "Outback" **W** 60mm **D** M16

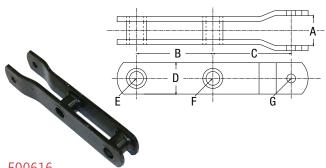


590631 Rear Hanger DumbJack "Outback" 60mm spring **W** 60mm **D** M16



590604 Rear Hanger DumbJack 45mm spring **W** 45mm **D** 5/8"

Tandem Rocker Spring Rocker Assemblies



590616

Rocker assembly suit 45mm shackle spring suit 5/8" pin

A: 48mm

B: 122mm

C: 125mm

D: 50mm

G: Suits 9/16" bolt

E: Suits 9/16" bolt

F: Suits 5/8" bolt

590705

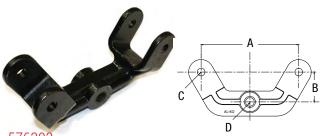
Rocker assembly suit 60mm shackle spring.

A: 202mm

B: 60mm

C: Suits 16mm bolt

D: Suits 18mm bolt **E:** Suits 16mm bolt



Rocker assembly suit 60mm Rocker Roller springs. Painted

A: 203mm

D:18mm diameter

B: 62mm

C: 16mm



Rocker assembly suit Rocker Roller springs. Dacromet

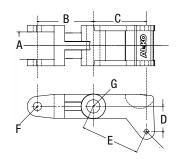
A: 203mm

B: 62mm

C: 16mm

D:18mm diameter





590504

Center rocker arm. DACROMET™ FOR 50mm spring C/W Bushes

A: 52mm

B: 105mm **E:** 110mm

C: 100mm

D: 47mm

F: Suits 16mm bolt

G: Suits 20mm bolt

Tandem Centre Hangers



590601

Centre hanger suit 45mm tandem shackle springs - 9/16"

Suits: 590616



590703

Centre Hanger suit 60mm tandem rocker springs - 18mm pin

Suits: 590705



576305

Centre Hanger suit 60mm tandem rocker roller springs - 18mm pin

Suits: 576303



590503

Center hanger for 50mm springs

Suits: 590504



Eye to Eye Shackle Plates Single & Tandem



590607

9/16" Shackle plate, 50mm centres

L 50mm

D 9/16"



590606

9/16" Shackle plate, 75mm centres

L 75mm

D 9/16"

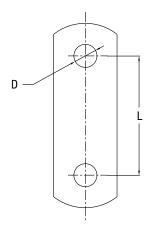


590713

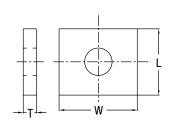
16mm Shackle plate, 64mm centres

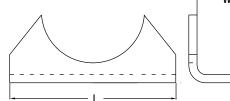
L 64mm

D 16mm



Spring Pad / Axle Pad









590510

Spring pad to suit round and square, Black **L** 47mm **W** 40mm **T** 8mm



590516

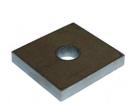
Spring pad to suit round and square, Black **L** 47mm **W** 40mm **T** 10mm



590510G

Spring pad to suit round and square, Galvanised

L 47mm **W** 40mm **T** 8mm



590513

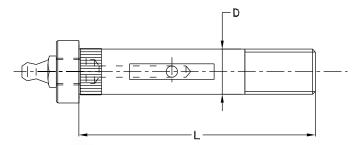
Spring pad to suit 65mm round axle, Black **L** 60mm **W** 65mm **T** 10mm



590515

Spring pad for 60mm tube axle, Zinc **L** 100mm **W** 35mm

Spring Shackle Pins & Nuts





590113 Shackle bolt non-greasable **D** 1/2" **L** 3 1/2"



590608 Shackle pin 9/16" x 3 1/2" solid with 9/16" nyloc nut **D** 9/16" **L** 3 1/2"



590609 Shackle pin greasable **D** 9/16" **L** 3 1/2"



590610 Shackle pin greasable **D** 5/8" **L** 3 1/4"



590611 Shackle pin non-greasable **D** 5/8" **L** 3 1/2"



590125 Shackle bolt non-greasable **D** 5/8" **L** 4"



590632 Shackle pin "Outback" M16 x 100mm with grease nipple **D** 16mm **L** 100mm



590707 Shackle pin M16 x 100mm nongreasable suit tandem 60mm rocker springs **D** 16mm **L** 100mm



590711
Centre rocker pin M18 x 100mm greasable suit tandem 60mm rocker springs

D 18mm L 100mm



590119 Shackle bolt nyloc nut 1/2" BSW



590614 Shackle pin nyloc nut 5/8" UNF



590615 Shackle pin nyloc nut 9/16" UNF



590708 Shackle pin nyloc nut M16



590712 Centre rocker pin nyloc nut M18

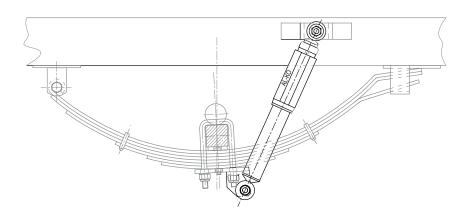


590620 Grease nipple 1/8" BSP



576307 Shackle Pin M16 with 45 degree nipple suit roller end on Rocker Roller spring







658001 Top bracket (single)



658006 Bottom bracket (Single) left hand (suit 60mm springs)



658007
Bottom bracket (single) right hand (suit 60mm springs)



658003 Shock absorber, single for beam axles (Black) **Note:** Number stamped on shock absorber is 283722 refer to part number 658003.



658005 Shock absorber kit. Suits single beam axle set (Suit 60mm springs)

RIMS, TYRES & MUDGUARDS



Rims

Part No.	Description	PCD	Offset	Capacity per wheel	Contour	Brand
641514G	Steel Wheel 13" x 5" Galvanised	Ford	Zero	750kg	J	N/A
641614GNZ	Steel Wheel 14" x 6" Galvanised	Ford	+15mm	850kg	JJ	N/A
641715G	Steel Wheel 15" x 7" Galvanised	6 Stud LCR	-7mm	850kg	J	N/A
641901	Alloy Wheel 14" x 6" Gloss Black	Ford	Zero	850kg		Vulcan
641902	Alloy Wheel 14" x 6" Matt Black	Ford	Zero	850kg		Vulcan
641905	Alloy Wheel 13" x 5" Machined Black	Ford	Zero	850kg		Thor
641906	Alloy Wheel 13" x 5" Matt Black	Ford	Zero	850kg		Thor
641907	Alloy Wheel 13" x 5" Gloss Black	Ford	Zero	1000kg		Atlas

Tyres

Part No.	Description	Capacity per wheel
644165	Trailer tyre 165R13C	670kg
644175	Trailer tyre 175/70R13	670kg
644185	Trailer tyre 185R14C	850kg
644225	Trailer tyre 225/70R15C	1120kg
644190	Trailer tyre 195/50R13C CT7000. Compass	1000kg

Rim & Tyre

128

Part No.	Description	Rim	Tyre
645012NZ	Wheel & tyre assembly 13 X 5" Galvanised Ford with 175/70R13 tyre.	641514G	644175
645013NZ	Wheel & tyre assembly 13 X 5" Galvanised Ford with 165R13 tyre.	641541G	644165
645014NZ	Wheel & tyre assembly 14 X 6" Galvanised Ford with 185R14C tyre	641614GNZ	644185
645015NZ	Wheel & tyre assembly 15 X 7" Galvanised 6 stud LCR with 225/70R15C tyre.	641715G	644225
6445013NZ195	Wheel & tyre assembly 13 X 5" Galvanised Ford with 195/50R13C tyre.	641514G	644175
645213NZ	Alloy wheel & tyre assembly 13 X 5" Black Ford with 175/70R13 tyre. Inc. Caps, Nuts & Valve.	641514G	644175
645214MBNZ	Alloy wheel & tyre assembly 14 X 6" Matt Black Ford with 185R14C tyre.	641902	644185
645214NZ	Alloy wheel & tyre assembly 14 X 6" Gloss Black Ford with 185R14C tyre.	641901	644185

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REMIS PRODUCTS

Room Dividers

Privacy & Sun Protection

Large windscreens and side windows offer beautiful views from your motorhome, but they also let prying eyes inside. And when the sun is shining through those large windows, the interior guickly heats up.

The easy-to-install solution: REMIfront, consisting of a front roller blind and side panels, blocks out the drivers cab almost completely. And as an additional bonus, it considerably reduces heating and cooling.

It offers an almost complete blockout and shields you from view, significantly expanding the usable living space in your motorhome and preserving your privacy.



The windscreen roller blind uses a two-piece sliding element with a magnetic catch. This fastens in the middle of the windscreen, with the rear view mirror neatly integrated into the blackout blind to keep it out of the way.



675035 REMIS Front 3, Left side window Mercedes Sprinter. REMIS# 10021023



REMIS Front 3, Front window Mercedes Sprinter 2007 on. REMIS# 10023924

675038 JP2

REMIS Front 3, With rain sensor Mercedes Sprinter 2007 on. JP2/JP4

675038RD

REMIS Front 3, With rain sensor Mercedes Sprinter 2007 on. REMIS# 10059902



REMIS Front 3, Right side window Mercedes Sprinter. REMIS# 10021024



675045
REMIS Front 3, Left side window Fiat Ducato
REMIS# 10043742



675043
REMIS Front 3, Front window Fiat Ducato
REMIS# 10043741



675044
REMIS Front 3, Right side window Fiat Ducato. REMIS# 10043743

SKYLIGHTS

Vario 2 Main Features

- Tinted hood lid
- High opening angle (up to 60°)
- For a range of roof thicknesses
- Three locking positions:
 - 1. Completely closed
 - 2. Ventilation position
 - 3.85mm opening
- Insect protection available with normal or midge gauze



675028 VARIO 2 SIZE 500 x 700mm Suits: 46mm - 55mm thick roof REMIS# 10036393

675029

VARIO 2 SIZE 500 x 700mm Suits: 25mm - 35mm thick roof REMIS# 10038061



675011 REMISTOP VISTA Sky light 400 x 400mm Suits thickness 28mm - 33mm REMIS# 10061927

ROOM DIVIDERS

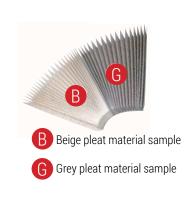
Flexible and indvidual usage, High-quality pleated material & Comfortable living style

It is the small crucial elements that ensure that we feel completely comfortable in our home on wheels.

With REMIform room divider, caravans and motorhomes become even more homely. The natural partitioning of the open space creates a cosy, intimate atmosphere. The most noticeable properties: a compact design, low weight and particularly quiet to operate.



Curved Track





675102 Remis room divider beige

Remis room divider beige 1500 x 1900mm REMIS# 10002842

675132

Remis room divider grey 1500 x 1900mm REMIS# 10002899

675101

REMIS Room divider beige 800 x 1900mm REMIS# 10053812 (10002770)

675131

Remis room divider grey 800 x 1900mm REMIS# 10002856



SECURITY ACCESSORIES

AL-KO ATS

The AL-KO Anti-Theft System (ATS) provides the most effective way of protecting your investment from theft. The AL-KO ATS utilises state of the art GPS tracking to provide high level protection with real time tracking.

AL-KO ATS is the smallest, simplest, truly global security solution in existence. Charge up or hard wire the GPS tracker, press one button and you're away. Bundled with a minimum of 12 months global connectivity, AL-KO ATS includes the tiny Black Knight Z-11 GPS tracking device + accessories, the free Black Knight real time tracking app (for realtime multi-platform tracking on the go).

The AL-KO ATS System Includes:

Black Knight Z-11 HIGH-PERFORMANCE TRACKING DEVICE INTELLIGENT ALERTS
HIGH ACCURACY
TRACK ON THE GO
ADVANCED SIMPLICITY
INSTANT CONNECTIVITY
INTERNATIONAL ROAMING



698000Z3

AL-KO ATS anti theft system kit includes component and 12 month connectivity z3 model

Learn more at www.alkoats.com.au



650300

AL-KO Easy Clamp. Anti-Theft wheel clamp adjustable to suit 13 to 15" Wheels. Key operated Lock



616950

Secure "Universal" coupling lock. Suits most Australian 50mm ball couplings.



616900

Coupling lock & key AK7-AK10/2



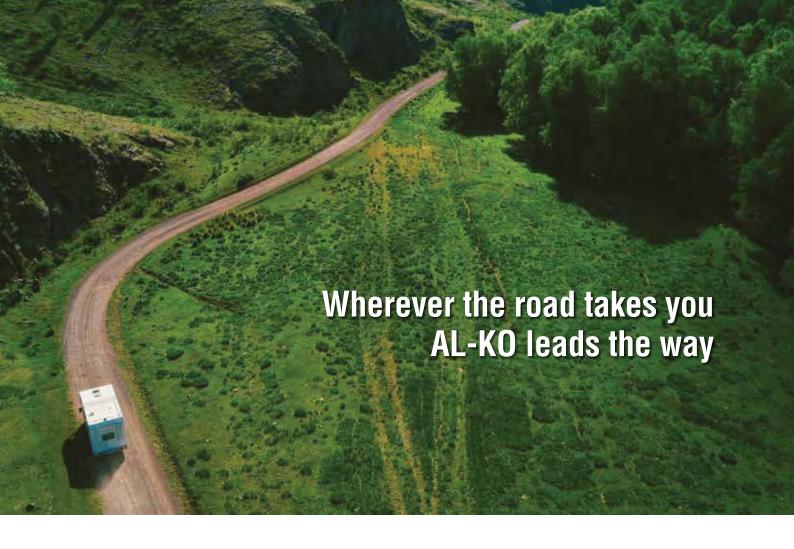
991310891

European caravan spare part AKS3004 security device.



991310892

European caravan spare part AKS3004 safety anti theft unit AL-KO P/N 1310892 safety plus



For further information contact CM TRAILER PARTS

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ASHBURTON

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Email: sales@cm.net.nz

www.cmtrailer.co.nz www.alko.co.nz

