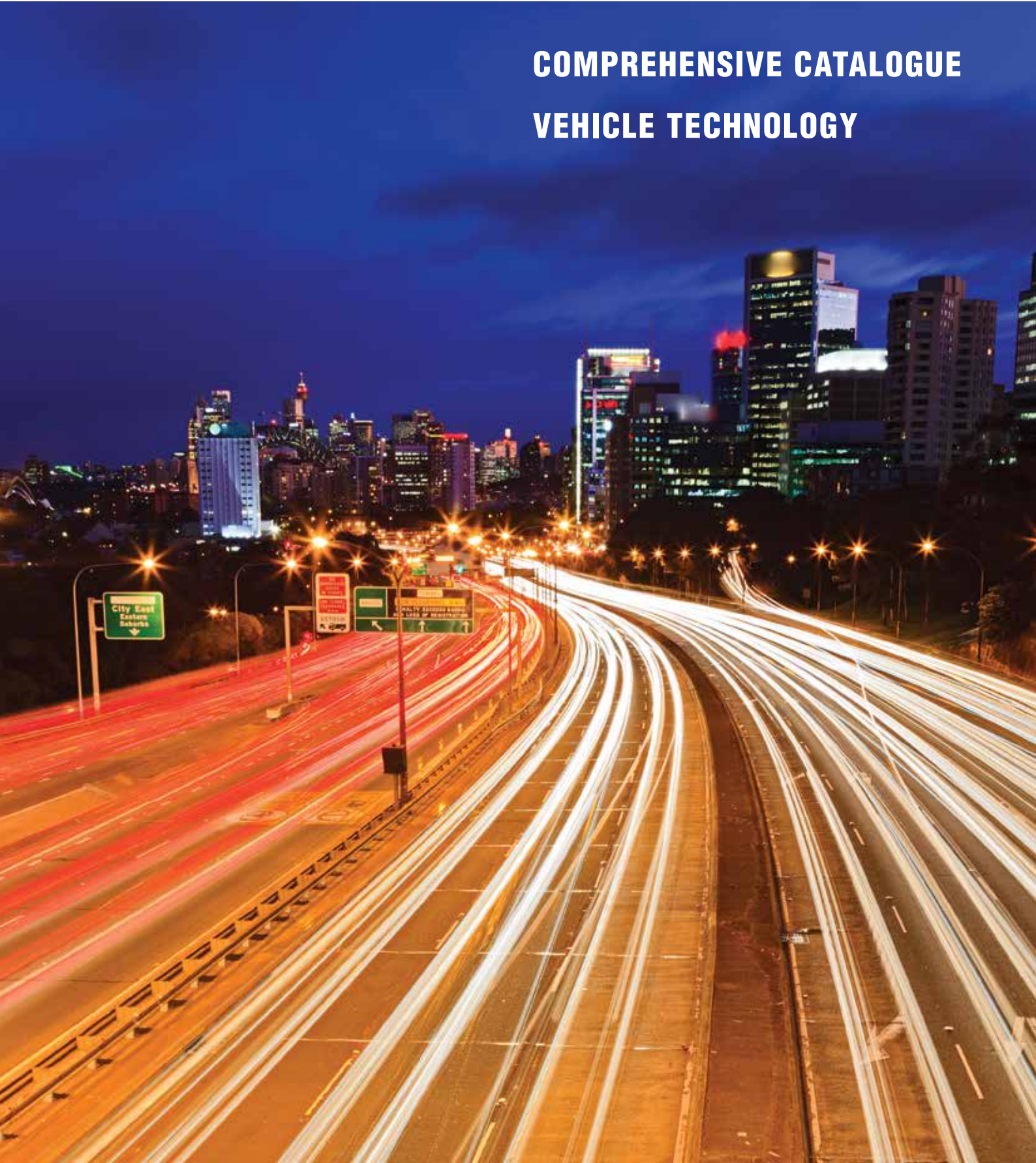


AL-KO
QUALITY FOR LIFE

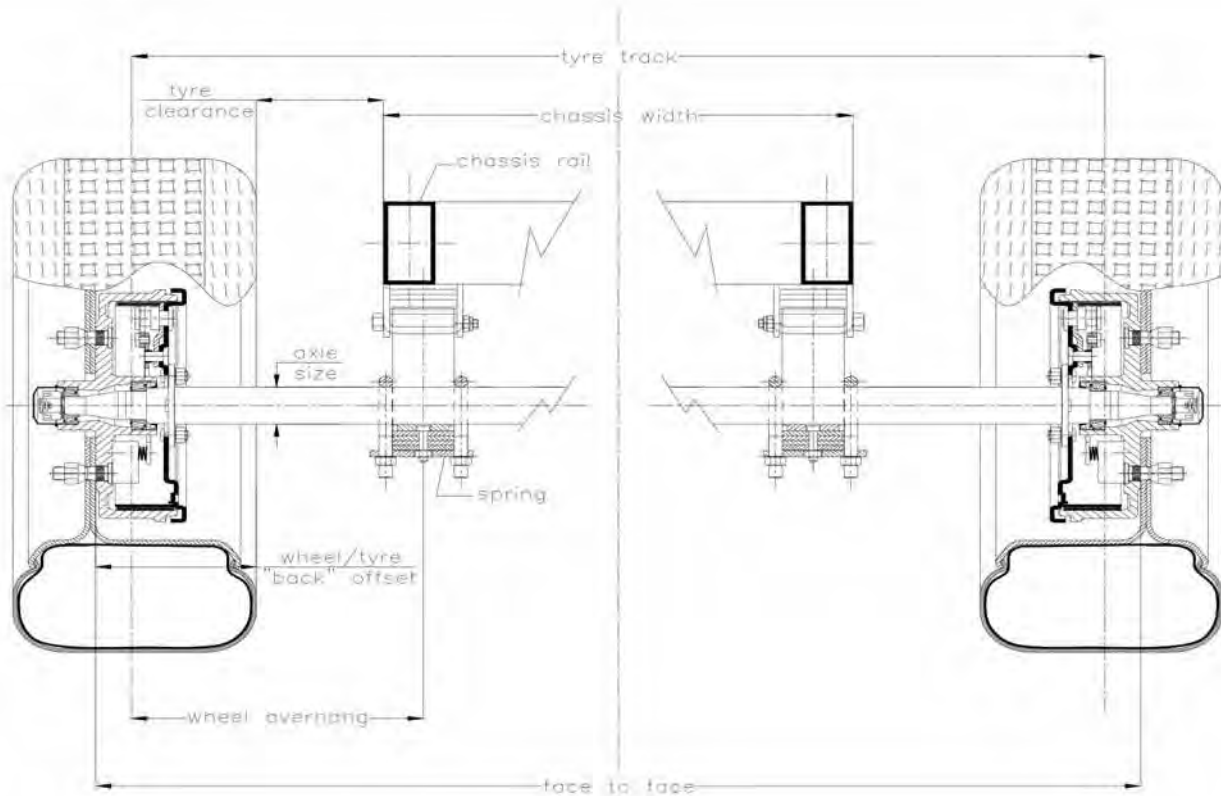
**COMPREHENSIVE CATALOGUE
VEHICLE TECHNOLOGY**



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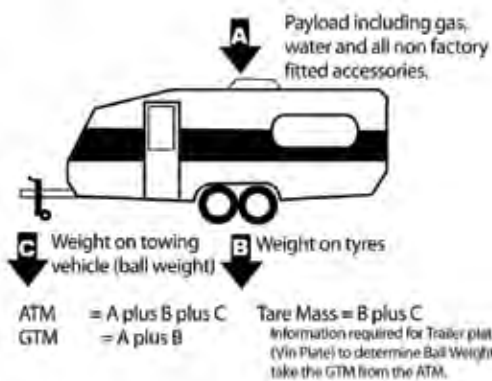
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GUIDE TO TECHNICAL TERMS / AXLE ORDERING



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 inside of body and tyre (per side)



Note: Maximum registerable width permissible is 2500mm. This refers to the widest part of the trailer or caravan. It may be the tyres, the axle grease caps or even the lights on the body, but it cannot be exceeded.

Helpful Hint:

Capacity = GTM
(payload + weight on tyres)

AUSTRALIAN DESIGN RULES

AS APPLICABLE TO TRAILED VEHICLES LESS THAN 4.5 TONNE AGGREGATE TRAILER MASS

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

SUSPENSION

Within a group of axles:

- | two axles must not be more than 2 metres apart; and
- | three axles must not be more than 3.2 metres apart overall.

All axles in a group must be interconnected by a loadsharing suspension except in a close coupled axle group, provided that the load carrying capacity of each axle in the group and the wheels and tyres fitted to it is:

- | at least 120% of the load on that axle with the trailer at its ATM; and
- | at least equal to the load on that axle with the trailer at its ATM and any retractable axle retracted.

Note: A close coupled axle group is where the two axles in a group have their centres not more than one metre apart, or three axles not more than 2 metres apart, or three or more axles not more than 3.2 metres apart.

Note: This information is a guide only. We suggest customers contact the Department of Infrastructure and Regional Development in Canberra for specific advice pertaining to Australian Design Rules.

AL-KO (IRS) AXLES

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

Featuring AL-KO's unique hexagonal rubber suspension system, the IRS axle is manufactured to exact engineering standards and is fully tested using the most sophisticated alignment technology.

- | Range of capacities
- | Zinc plated or galvanised outer tube
- | Bolt-on or u-bolt fixing
- | To suit most wheel types
- | To suit common brake types

AL-KO is also able to custom build axles. Please note that the lead time on these options will be longer than standard.

- | Available braked or unbraked
- | Multitude of brake options
- | Special stub axle lengths
- | Special shock absorber mountings
- | Up to 3 ride heights

Please contact your nearest AL-KO sales office for a specification sheet to assist you with your axle requirements.

INDEPENDENT RUBBER SUSPENSION (IRS) AXLES

With over 15 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.

Conventional suspension componentry can suffer on Australian roads leading to instability and dangerous snaking under heavy loads. AL-KO's remarkable IRS system – rigorously tested in Australian conditions, makes towing instability a thing of the past.



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.

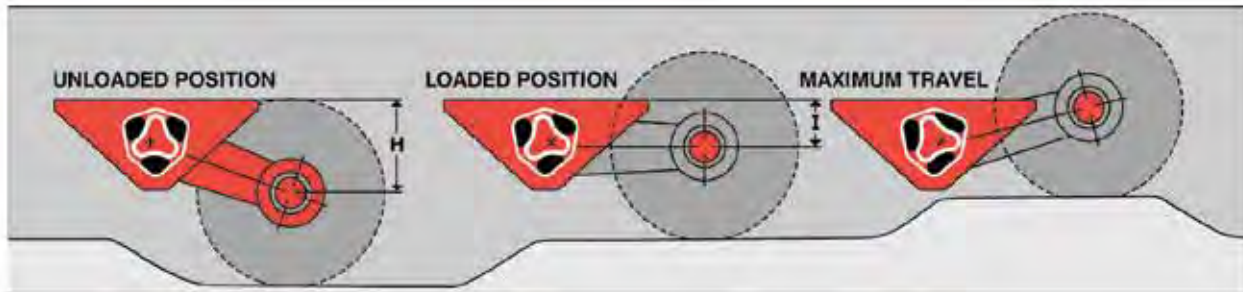


Figure 1

At AL-KO, quality is important and, as such, each individual IRS axle is manufactured to exact engineering standards. AL-KO also uses the most advanced technology to test each axle for toe-in and camber, as well as load rated deflection.

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.

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 Australia's rough terrain and varying conditions better than ever before. Its strength and versatility ensure that this axle is perfect for use in Australia.

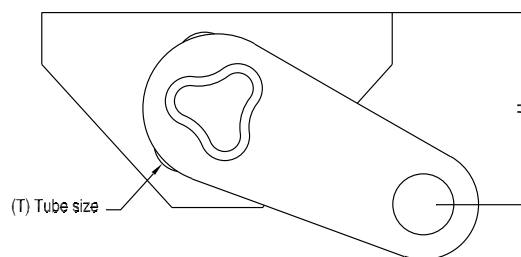
INDEPENDENT RUBBER SUSPENSION (IRS) AXLES

FEATURES AND BENEFITS

Some of the features and benefits of the AL-KO IRS are listed below:

- | Made in Australia for Australian conditions
- | Does not suffer from instability or axle steer in operation
- | Optional shock absorbers to provide better control, increased safety and reduced suspension rebound
- | Available in half, single, tandem and tri-axle
- | Backed by an International company
- | Each axle is tested for optimum performance
- | Lower ride height for marine launching and retrieval
- | Fewer moving parts means less maintenance required
- | Galvanised outer tube axles available for marine applications
- | Withstands 3 times its rating in shock load
- | Easy to fit

AL-KO (IRS) AXLES



STANDARD AXLES

CAPACITY (KG)	OUTER TUBE SIZE (T) (MM)	BRAKE OPTIONS**	MOST COMMON STUB LENGTH / PROFILE (MM)	CHASSIS TO STUB CENTRE (MM) UNLOADED * "NOMINAL" - (H)	MAX WHEEL DIAMETER
HIGHWAY – Zinc plated or hot dipped galvanised tube, plated swing arm stub and inner tube.					
100 – 400	62	Unbraked	205 / LM	85	13"
401 – 850	80	10" Electric	205 / LM	110	14"
851 – 1450	97	10" Electric	205 or 235 / Slimline	130	14"
851 – 1600	110	10" Electric	235 / Slimline / Parallel	145	16"
1601 – 2500	120	12" Electric	255 / 2T	135	16"

OFF ROAD (15"/16" Wheels only) – Zinc plated or hot dipped galvanised tube, plated swing arm stub and inner tube.					
851 – 1600	110	10" Electric, 12" Electric, Hyd or Mech Disc	235 / Slimline / Parallel	145	16"
1601 – 2500	120	12" Electric, Hyd or Mech Disc	255 / 2T	135	16"

MARINE (u-bolt fitted double width brackets) – Hot dipped galvanised tube, plated swing arm, stub and inner tube.					
100 – 400	62	Mechanical Disc or Unbraked	205 / LM	85	13"
401 – 850	80	Hydraulic or Mech Disc	205 / LM	110	14"
851 – 1450	97	Hydraulic or Mech Disc	205 or 235 / Slimline	130	14"
851 – 1600	110	Hydraulic or Mech Disc	235 / Slimline Parallel / 1.5T	145	16"
1601 – 2500	120	Hydraulic or Mech Disc	255 / 2T	135	16"

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

* "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

Helpful Hint:

For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 19.

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.

PART NO	DESCRIPTION
200170	Universal Chassis Bracket Suit 80-120mm outer tube, Zinc plated – Suits standard and low line ride height/ incorporates shock absorber mounting holes.

INTRODUCTION TO AXLES

AL-KO's range of beam axles is extensive.

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

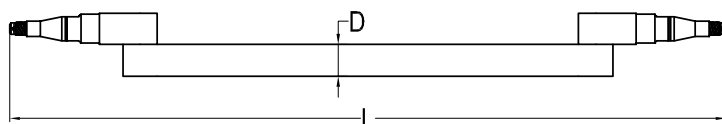
It is the backbone of the carrying system and care should be taken to ensure that the appropriate style and capacity of axle are chosen.

Beam axles come in some "basic" styles and the following is an explanation of each and a guide to assist in selecting the most appropriate beam axle for your application.

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

BARE AXLES

OVERLAY BEAM AXLES



This type of axle is manufactured from solid medium tensile steel, but 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 1450 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. Overlay axles manufactured by AL-KO have undergone extensive evaluation of weld strength and you can be assured of the quality.

AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	STUB AXLE SIZE/ PROFILE (MM)	AXLE CARRYING CAPACITY (KG)	MACHINING PROFILE	LENGTH (L)
40mm	Square	39mm round 205mm Long	1000 kg	LM	Axles can be manufactured to your required length (to nearest 5mm increment)
45mm	Square	45mm round 205mm Long	1450 kg	Slimline	
50mm	Square	50mm round 215mm Long	1600 kg	Parallel	
50mm	Square	56mm round 260mm Long	2000 kg	2.0 tonne	

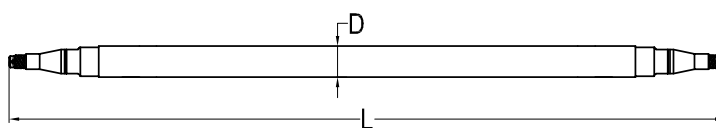
- I Brake mounting flange can be fitted upon request to suit your braking requirements
- I All axles are standard raw black material
- I Hot dipped galvanised or zinc plated available on request

Helpful Hint:

For more comprehensive details of axle/ stub axle machining profiles, please refer to the table on page 19.

BARE AXLES

STRAIGHT BEAM AXLES



This style of axle is the simplest and the most common.

The solid axle steel of varying section size is simply machined on each end. This style of axle is usually used on such applications as domestic trailers, boat trailers and anywhere that the height of the trailer is not a major consideration.

Included in the AL-KO range is a 60 mm round hollow tube axle which is very popular in galvanised form for marine trailers and some caravan applications. The ability to use pre galvanised tubing makes this a suitable product for applications where resistance to corrosion is needed.

Ensure that the anticipated maximum loaded weight is less than the capacity of the straight beam axle you select!

AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	AXLE CARRYING CAPACITY (KG)	MACHINING PROFILE	LENGTH (L)
39mm	Round	750 kg	LM	Axle length to suit standard body width carried in stock (see following pages)
40mm	Square	1000 kg	LM	
45mm	Round	1200 kg	Slimline	
45mm	Square	1450 kg	Slimline	
45mm	Square	1500 kg	1.5 tonne	Axles can be manufactured to your required length (to nearest 5mm increment)
45mm	Square	1600 kg	Parallel	
50mm	Round	1450 kg	Slimline	
50mm	Square	1450 kg	Slimline	
50mm	Square Tube	1450kg	Slimline	
50mm	Square	1500 kg	1.5 tonne	
50mm	Square	1600 kg	Parallel	
50mm	Square	2000 kg	2.0 tonne	
56mm	Round	2000 kg	2.0 tonne	
60mm	Round Tube	1450 kg	Slimline	
63mm	Square	3000 kg	3.0 tonne	
65mm	Round	2500 kg	2.0 tonne	
65mm	Square Tube	2000 kg	2.0 tonne	
75mm	Round	3500 kg	3.0 tonne	

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

All axles are standard raw black material.

Hot dipped galvanised or zinc plated available on request.

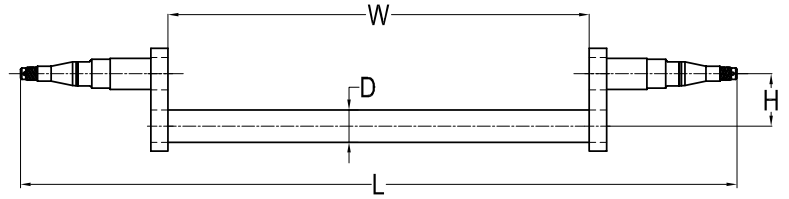
Various 39rd, 40sq & 45sq axle sizes and lengths are kept in stock, ranging from 1625mm to 2465mm in 25mm increments.

Helpful Hint:

For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 19.

BARE AXLES

DROP BEAM 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 beam, 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 beam and the stub axles. This has the effect of dramatically 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.

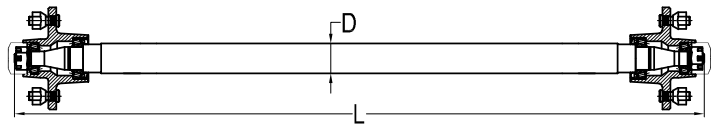
AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	STUB AXLE SIZE/ PROFILE (MM)	AXLE CARRYING CAPACITY (KG)	MACHINING PROFILE	DROP HEIGHT (H) MM / INCHES	DROP ARM WIDTH	LENGTH (L/W)
40mm	Square	39mm round 195mm long	1000 kg	LM	65mm (2 1/2")	25mm	Axles can be manufactured to your required length (to nearest 5mm increment)
					75mm (3")	25mm	
					90mm (3 1/2")	25mm	
					100mm (4")	25mm	
45mm	Square	45mm round 195mm long	1450 kg	Slimline	65mm (2 1/2")	25mm	
					75mm (3")	25mm	
					90mm (3 1/2")	25mm	
					100mm (4")	25mm	
50 mm	Square	56mm round 195mm long	1450 kg	Slimline	75mm (3")	32mm	
		56mm round 195mm long	1600 kg	Parallel	100mm (4")	32mm	
		56mm round 260mm long	2000 kg	2.0 tonne	100mm (4")	32mm	

Helpful Hint:
For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 19.

Other combinations of capacity, length and drop height can be made to order. Contact AL-KO for details.
 Brake mounting flange can be fitted upon request to suit your braking requirements.
 All axles are standard raw black material.
 Hot dipped galvanised or zinc plated available on request.
 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

STRAIGHT ASSEMBLED



AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	AXLE CARRYING CAPACITY (KG)	MACHINING PROFILE/ BEARINGS FITTED	LENGTH (L)	MAX PERMISSABLE WHEEL DIAMETER
39mm	Round	750 kg	LM Profile	Whilst some standard axle lengths are carried in stock, the majority lengths are made to order within 5mm.	14"
40mm	Square	1000 kg	LM Profile		14"
45mm	Round	1200 kg	Slimline		14"
45mm	Square	1450 kg	Slimline		16"
45mm	Square	1500 kg	1.5 tonne		16"
50mm	Round	1450 kg	Slimline		16"
50mm	Square (Tube)	1450 kg	Slimline		14"
50mm	Square	1500 kg	1.5 tonne		16"
50mm	Square	1450 kg	Slimline		16"
50mm	Square	2000 kg	2.0 tonne		16"
60mm	Round (Tube)	1400 kg	Slimline		16"
63mm	Square	3000 kg	3.0 tonne		16"
65mm	Round	2500 kg	2.0 tonne		16"
75mm	Round	3500 kg	3.0 tonne		16"
63mm	Square	3000 kg	3.0 tonne		16"
65mm	Round	2500 kg	2.0 tonne		16"
65mm	Square (Tube)	2000 kg	2.0 tonne		16"
75mm	Round	3500 kg	3.0 tonne		16"

Helpful Hint:

For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 19.

AL-KO manufactures axles to suit most popular wheel patterns. For fitment of less common wheel types, please contact your nearest AL-KO branch.

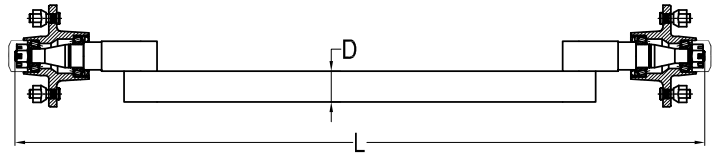
All axles are standard raw black material. Hot dipped galvanised or zinc plated available on request.

various 39rd, 40sq & 45sq axle sizes and lengths are kept in stock, ranging from 1625mm to 2465mm in 25mm increments.

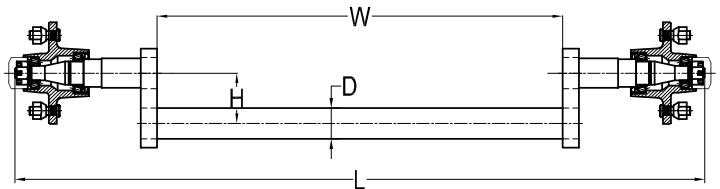
On some applications the combination of chassis clearance (w) and stub axle length required for the wheel/tyre combination may exceed maximum width registerable.

UNBRAKED AXLES

OVERLAY ASSEMBLED



AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	STUB AXLE SIZE/ PROFILE	AXLE CARRYING CAPACITY (KG)	MACHINING PROFILE/ BEARINGS FITTED	LENGTH (L)	MAX PERMISSIBLE WHEEL DIAMETER
40mm	Square	39mm round	1000 kg	LM	Axles can be manufactured to your required length (to nearest 5mm increment)	14"
45mm	Square	45mm round	1200 kg	Slimline		16"
45mm	Square	45mm round	1450 kg	Slimline		14"
50mm	Square	56mm round	2000 kg	2.0 tonne		16"



DROP ASSEMBLED

AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	STUB AXLE SIZE/ PROFILE (MM)	AXLE CARRYING CAPACITY (KG)	MACHINING PROFILE	DROP HEIGHT (H) MM / INCHES	LENGTH (L/W)	MAX PERMISSIBLE WHEEL DIAMETER
40mm	Square	39mm round	1000 kg	LM	65mm ((2 1/2") 75mm (3") 90mm (3 1/2") 100mm (4")	Axles can be manufactured to required length (to nearest 5mm increment)	14"
45mm	Square	45mm round	1450 kg	Slimline	65mm ((2 1/2") 75mm (3") 90mm (3 1/2") 100mm (4")		16"
50mm	Square	56mm round 56mm round 56mm round	1450 kg 1600 kg 2000 kg	Slimline Parallel 2.0 tonne	75mm (3") 100mm (4")		14" 16" 16"

Helpful Hint:

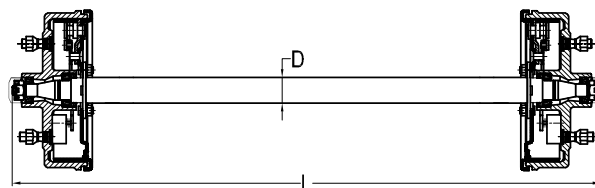
For more comprehensive details of axle/stub axle machining profiles, please refer to the table on page 19.

Large capacities available upon request. All axles are standard raw black material. Hot dipped galvanised or zinc plated available on request.

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

BRAKED AXLES

STRAIGHT ASSEMBLED



AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	AXLE CARRYING CAPACITY (KG)	MACHINING PROFILE	LENGTH (L)	MAX PERMISSABLE WHEEL DIAMETER	COMMON BRAKE OPTIONS	
40mm	Square	1000 kg	LM	Whilst some standard axle lengths are carried in stock, the majority lengths are made to order within 5mm.	14"	9" Mechanical, 9" Hydraulic	
45mm	Round	1200 kg	Slimline		14"	10" Electric, Mech Disc, Hyd Disc	
45mm	Square	1200 kg	Slimline		16"	9" Mechanical, 9" Hydraulic	
45mm	Square	1450 kg	Slimline		14"	9" Mechanical, 9" Hydraulic, 10" Electric, Mech Disc, Hyd Disc	
45mm	Square	1500 kg	1.5 tonne		16"	12" Electric, 11" Hydraulic, 11" Mechanical, Mech Disc, Hyd Disc	
50mm	Square	1600 kg	Parallel		Limited drilling patterns – 16"	10" Electric	
50mm	Round	1450 kg	Slimline		14"	9" Hydraulic, 9" Mechanical, 10" Electric, Mech Disc, Hyd Disc	
50mm	Square	1450 kg	Slimline		14"	11" Hydraulic, 11" Mechanical, Mech Disc, Hyd Disc	
50mm	Square Tube	1450 kg	Slimline		14"	10" Electric, Mech Disc, Hyd Disc	
50mm	Square	1500 kg	1.5 tonne		16"	12" Electric, 11" Hydraulic, 11" Mechanical, Mech Disc, Hyd Disc	
50mm	Square	2000 kg	2.0 tonne		16"	12" Electric, 11" Hydraulic, 11" Mechanical, Mech Disc, Hyd Disc	
56mm	Round	2000 kg	2.0 tonne		To order	16"	12" Electric, 11" Hydraulic, 11" Mechanical, Mech Disc, Hyd Disc
60mm	Round (Tube)	1450 kg	Slimline		To order	14"	10" Electric, Mech Disc, Hyd Disc
63mm	Square	3000 kg	3.0 tonne		To order	16"	12" Electric
65mm	Round	2500 kg	2.0 tonne		To order	16"	12" Electric
65mm	Square Tube	2000 kg	2.0 tonne	To order	16"	12" Electric, 11" Hydraulic, 11" Mechanical, Mech Disc, Hyd Disc	

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

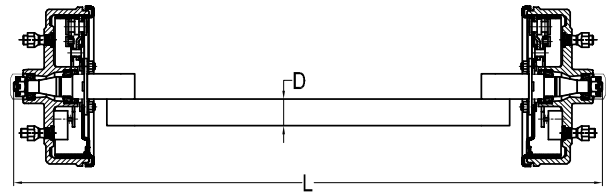
All axles are standard raw black material.

Hot dipped galvanised or zinc plated available on request.

Various 39rd, 40sq & 45sq Axle sizes and lengths are kept in stock, ranging from 1625mm to 2465mm li 25mm increments.

BRAKED AXLES

OVERLAY ASSEMBLED



AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	STUB AXLE SIZE/ PROFILE	AXLE CARRYING CAPACITY (KG)	MACHINING PROFILE/ BEARINGS FITTED	LENGTH (L)	MAX PERMISSABLE WHEEL DIAMETER	COMMON BRAKE OPTIONS
40mm	Square	39mm round	1000 kg	LM	Axles can be manufactured to your required length (to nearest 5mm increment)	14"	9" Mechanical 9" Hydraulic 10" Electric Mechanical Disc Hydraulic Disc
45mm	Square	45mm round	1200 kg	Slimline		16"	
45mm	Square	45mm round	1450 kg	Slimline		14"	
50mm	Square	50mm round	1600 kg	Parallel		14" with 16" drill pattern Brake capacity reduced with larger tyre diameters	10" Electric
50mm	Square	56mm round	1600 kg	2.0 tonne		16"	12" Electrical Mechanical Disc, Hydraulic Disc

Helpful Hint:

For more comprehensive details of axle/ stub axle machining profiles, please refer to the table on page 19.

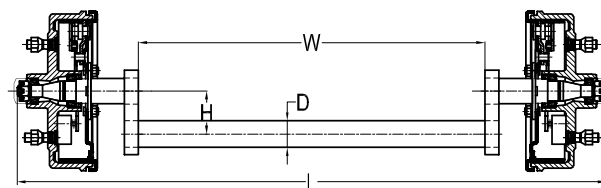
AL-KO manufactures axles to suit most popular wheel patterns. For fitment of less common wheel types, please contact your nearest AL-KO branch. Large capacities available upon request.

All axles are standard raw black material.

Hot dipped galvanised or zinc plated available on request.

BRAKED AXLES

DROP ASSEMBLED



AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	STUB AXLE SIZE/ PROFILE (MM)	AXLE CARRYING CAPACITY (KG)	MACHINING PROFILE/ BEARINGS FITTED	DROP HEIGHT (H) MM / INCHES	LENGTH (L)	MAX PERMISSABLE WHEEL DIAMETER	COMMON BRAKE OPTIONS
40mm	Square	39mm round	1000 kg	LM	65mm ((2 1/2") 75mm (3") 90mm (3 1/2") 100mm (4")	Axles can be manufactured to required length (to nearest 5mm increment)	14"	9" Mechanical, 9" Hydraulic, 10" Electric, Hydraulic Disc, Mechanical Disc
45mm	Square	45mm round	1450 kg	Slimline	65mm ((2 1/2") 75mm (3") 90mm (3 1/2") 100mm (4")		16"	
50mm	Square	56mm round	1450 kg	Slimline	75mm (3") 100mm (4")		14"	9" Mechanical, 9" Hydraulic, 10" Electric, Hydraulic Disc, Mechanical Disc
50mm	Square	56mm round	1600 kg	Parallel	75mm (3") 100mm (4")		16"	10" Electric, Hydraulic Disc,
50mm	Square	56mm round	2000 kg	2.0 tonne	75mm (3") 100mm (4")		16"	12" Electric, Hydraulic Disc, Mechanical Disc

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

Helpful Hint:

For more comprehensive details of axle/ stub axle machining profiles, please refer to the table on page 19.

All axles are standard raw black material.

Hot dipped galvanised or zinc plated available on request. Other combinations of capacity, length and drop height can be made to order.

Contact AL-KO for details.

TOTAL TRAILER SYSTEMS

For trailers with an Aggregate Trailer Mass above 4.5 tonne it is necessary that some of the components used must be approved by the Department of Infrastructure and Regional Development and comply with appropriate Australian Design Rules (ADR's).

To meet this specific need AL-KO can provide a total trailer system.

These Total Trailer Systems comply with the appropriate design rules and approval numbers can be provided for trailer certification.

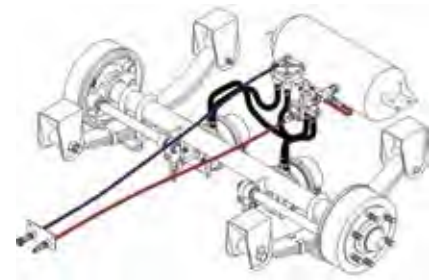
The Total Trailer System comprises Axles with brakes fitted, Suspension systems and Brake Control Systems.

A large range of systems are available and information should be sought on your particular requirement form your nearest AL-KO branch.

Listed is some of the range available.

SINGLE AXLE TOTAL TRAILER SYSTEMS

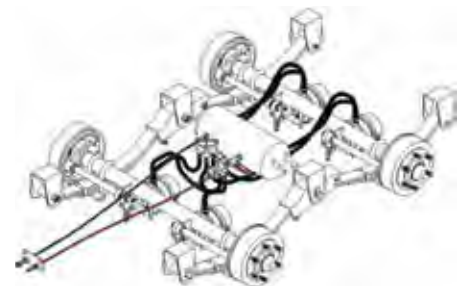
PART NO	DESCRIPTION
118003	3 tonne suit Bedford Wheels (TM1 T030ANV)
118004	4 tonne suit Bedford Wheels (TM1 T040ANV)
118005	5 tonne suit Bedford Wheels (TM1 T050ANV)



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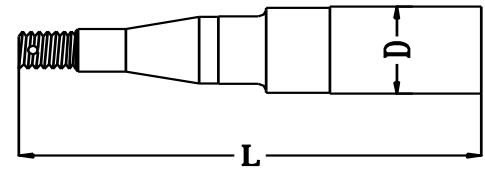
TANDEM AXLE TOTAL TRAILER SYSTEMS

PART NO	DESCRIPTION
118045	4.5 tonne suit Landcruiser Wheels (TM2 T045BNG)
118050	5.5 tonne suit Landcruiser Wheels (TM2 T055BNG)
118060	6 tonne suit Landcruiser Wheels (TM2 T060BNG)
118080	8 tonne suit Bedford Wheels (TM2 T080ANV)
118100	10 tonne suit Bedford Wheels (TM2 T100ANV)



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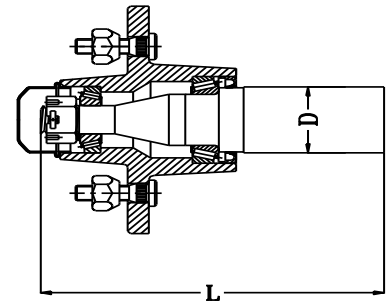
STUB AXLES



PART NO	AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	CAPACITY PER PAIR (KG)	MACHINING PROFILE	LENGTH (L)
143911	39mm	Round	750 kg	LM	205mm
143991	39mm	Round	750 kg	LM	250mm
143920	39mm	Round	750 kg	LM	305mm
144011	40mm	Square	1000 kg	LM	205mm
144091	40mm	Square	1000 kg	LM	250mm
144094	40mm	Square	1000 kg	LM	305mm
144413	45mm	Square	1450 kg	Slimline	205mm
144414	45mm	Square	1450 kg	Slimline	250mm
144415	45mm	Square	1450 kg	Slimline	305mm
144620	45mm	Round	1450 kg	Slimline	205mm
144630	45mm	Round	1450 kg	Slimline	235mm
145033DM	50mm	Square	2000kg	Marine C/W Hyd & Mech Disc Mount Plates	330mm
145033HM	50mm	Square	2000kg	Marine C/W Hyd Disc Mount Plates	330mm
144516	45mm	Square	1500 kg	1.5 tonne	235mm
144622	45mm	Round	1450 kg	Slimline marine	205mm
145015	50mm	Square	2000 kg	2.0 tonne	250mm
145172	50mm	Round	1600 kg	Parallel	205mm
145175	50mm	Round	1600 kg	Parallel	250mm
145615	56mm	Round	2000 kg	2.0 tonne	230mm
145630	56mm	Round	1500 kg	1.5 tonne	320mm
146516	65mm	Round	3000 kg	3.0 tonne	360mm

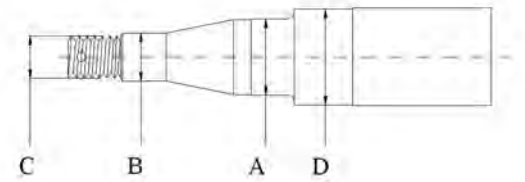
The above lists do not cover the entire of range of available stub axles but refer to "stock" and "common" sizes.

HUB & STUB AXLE SETS



AXLE SIZE (D) (MM)	AXLE BEAM PROFILE	CAPACITY PER PAIR (KG)	MACHINING PROFILE	LENGTH (L)	MAX. PERMISSIBLE WHEEL DIAMETER
39mm	Round	750 kg	LM	stub axle length should be nominated from the stub axle range on page 17	14"
40mm	Square	1000 kg	LM		14"
45mm	Square	1450 kg	Slimline		14"
45mm	Round	1200 kg	Slimline		16"
45mm	Square	1500 kg	1.5 tonne		16"
45mm	Square	1600 kg	Parallel		16"
50mm	Round	1600 kg	Parallel		16"
50mm	Square	1500 kg	1.5 tonne		16"
50mm	Square	1600 kg	Parallel		16"
50mm	Square	2000 kg	2.0 tonne		16"
56mm	Round	2000 kg	2.0 tonne		16"
63mm	Square	3000 kg	3.0 tonne		16"/ Bedford
65mm	Round	2500 kg	3.0 tonne		16"

AXLE/ STUB AXLE MACHINING PROFILE



BEARING TYPE	MANUFACTURER'S BEARING NO. (INNER)	"NOMINAL" INNER BEARING DIAM.(MM)	MANUFACTURER'S BEARING NO. (OUTER)	"NOMINAL" OUTER BEARING DIAM.(MM)	C THREAD SIZE & TYPE (INCHES)	"NOMINAL" SEAL JOURNAL DIAM.(MM)	AL-KO SEAL PART NO.
LM	LM 67048/10	31.75	LM 11949/10	19.05	¾" UNF – 16 TPI	37.5	491015
LM Marine	LM 67048/10	31.75	LM 11949/10	19.05	¾" UNF – 16 TPI	37.5	491017
Slimline	LM 68149/10	35.00	LM 12749/10	22.00	¾" UNF – 16 TPI	43.9	492015
Slimline	LM 68149/10	35.00	LM 12749/10	22.00	¾" UNF – 16 TPI	43.9	491018
Parallel	LM 68149/10	35.00	LM 68149/10	35.00	1" UNS – 14 TPI	43.9	492015
1.5 T	LM 29749/10	38.10	LM 67048/10	31.75	1" UNS – 14 TPI	50.9	493015
2 T	HR 30210	50.00	15123 / 15245	31.75	1" UNS – 14 TPI	60.3	494015
2 T Marine	HR 30210	50.00	15123 / 15245	31.75	1" UNS – 14 TPI	60.3	494013
3 T	HR 30210	50.00	LM 29749/10	38.10	1¼" UNF – 12 TPI	60.3	494015
3 T Marine	HR 30210	50.00	LM 29749/10	38.10	1¼" UNF – 12 TPI	60.3	494013

NUTS / PINS / WASHERS

	PART NO	DESCRIPTION
Kits	192100	Axle nut, pin and washer (LM, Slimline)
	192200	Axle nut, pin and washer (Parallel, 1.5 tonne, 2.0 tonne)
	192300	Axle nut, pin and washer (3.0 tonne)
Nuts	190002	Slotted nut 3 4" unf (LM, Slimline)
	190007	Slotted nut 1" unf 14 TPI (Parallel, 1.5 tonne, 2.0 tonne)
	190008	Slotted nut 1 1/4" unf (3.0 tonne)
Pins	190003	Split Pin – 4mm x 32mm (LM, Slimline)
	190005	Split Pin – 5mm x 40mm (Parallel, 1.5 tonne, 2.0 tonne)
	190006	Split Pin – 6.3mm x 50mm (3.0 tonne)

AUSTRALIAN DESIGN RULES

AS APPLICABLE TO TRAILED VEHICLES LESS THAN 4.5 TONNE AGGREGATE TRAILER MASS

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

BRAKING

1. Trailers up to 750 kg Gross trailer mass – no brakes required .

2. Trailers 750 kg up to 2000 kg Gross trailer mass – brakes on at least 1 axle.

"Efficient" over-run brakes acceptable (Electric Brakes / Power Assisted Brakes acceptable)

3. Trailers 2000 kg to 4500 kg Gross trailer mass – brakes on all wheels. Independent Brakes (Electric / Power Assisted with control from driver whilst in driver's seat) with breakaway system to automatically apply trailer brakes fully for at least 15 minutes (Electric or Power Assisted).

4. Trailers above 4500 kg Gross trailer mass – brakes on all wheels.

Note: This information is a guide only. We suggest customers contact the Department of Infrastructure and Regional Development in Canberra for specific advice pertaining to Australian Design Rules.

DRUM BRAKES

MECHANICAL

Mechanical drum brakes are used for applications where simplicity and robust components are required. The most popular method of operation is using cables. Reference to mechanical centre pull requires steel brake rods to be supplied and when fitted to an axle a load equalizer mechanism must be used.

Note: AL-KO recommends actuation of our mechanical forward pull lever brake is from the bottom of the brake.



PART NO	BRAKE DIAMETER X SHOE WIDTH	METHOD OF OPERATION	RECOMMENDED MAXIMUM LOAD ON 2 BRAKES 13"/14" WHEELS	RECOMMENDED MAXIMUM LOAD ON 2 BRAKES 15"/16" WHEELS	NO. OF MOUNTING BOLTS & MOUNTING DIAMETER	MAX. CABLE INPUT (KG) PER BRAKE
321100	9" x 1 3/4" RH	Mechanical lever	725 kg	600 kg	4 x 7/16" UNF x 76.15 pcd	165
321101	9" x 1 3/4" LH	Mechanical lever	725 kg	600 kg		165
321102	9" x 1 3/4" PAIR	Mechanical lever	1450 kg	1200 kg		
321200	9" x 1 3/4" RH	Mechanical centre pull	725 kg	600 kg	6 x 9 mm (3/8") x 101.6 pcd	
321201	9" x 1 3/4" LH	Mechanical centre pull	725 kg	600 kg		
321202	9" x 1 3/4" PAIR	Mechanical centre pull	1450 kg	1200 kg		
321400	11" x 2" RH	Mechanical centre pull	N/A	1000 kg	6 x 9mm (3/8") x 135 pcd Not equally spaced	295
321401	11" x 2" LH	Mechanical centre pull	N/A	1000 kg		295
321402	11" x 2" PAIR	Mechanical centre pull	N/A	2000 kg		

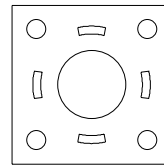


320110

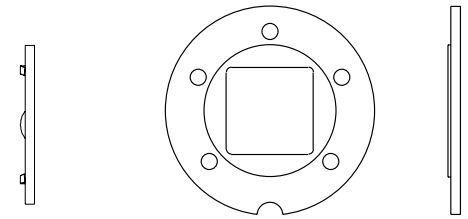
SERVICE PARTS

PART NO	DESCRIPTION
320110	9" Mechanical lever adjuster
320130	Mechanical lever brake expander body
320140	9" Mechanical lever top spring
320141	9" Mechanical lever bottom spring
320150	9" Mechanical lever brake shoe

MECHANICAL BRAKE MOUNTING PLATES



Pressed Mount Plate



Machined Mount Plate

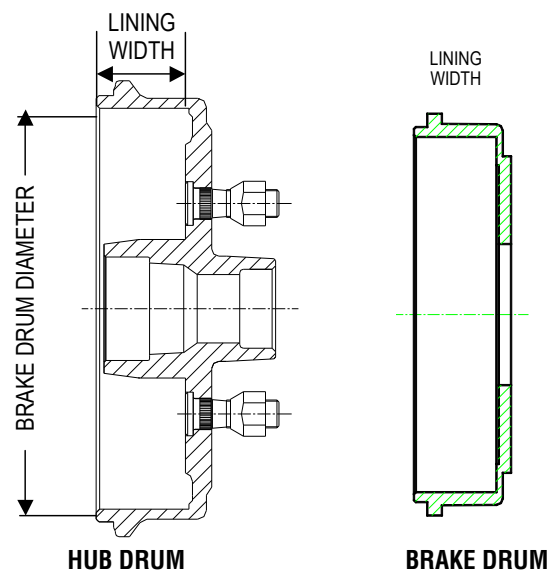
PART NO	DESCRIPTION	TO FIT AXLE SIZE
332100	9" Mechanical Lever	39mm Round
332150	9" Mechanical Lever	45mm Round
332160	9" Mechanical Lever	45mm Square
312100	9" Mechanical Centre Pull	39mm Round
312150	9" Mechanical Centre Pull	45mm Round
322400	11" Mechanical Centre Pull	50mm Square
322460	11" Mechanical Centre Pull	60mm Round
322460	11" Mechanical Centre Pull	65mm Round
322460	11" Mechanical Centre Pull	63mm Square

Helpful Hint:

When selecting mechanical brakes, the required maximum input load must be considered. When using power assisted mechanical brakes, request advice from your local AL-KO branch to select the correct power unit capacity and also about fitting brake equalizer and brake rods (see page 25).

MECHANICAL BRAKE 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 International 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 overleaf lists popular mechanical brake drums.



HUB DRUM

BRAKE DRUM

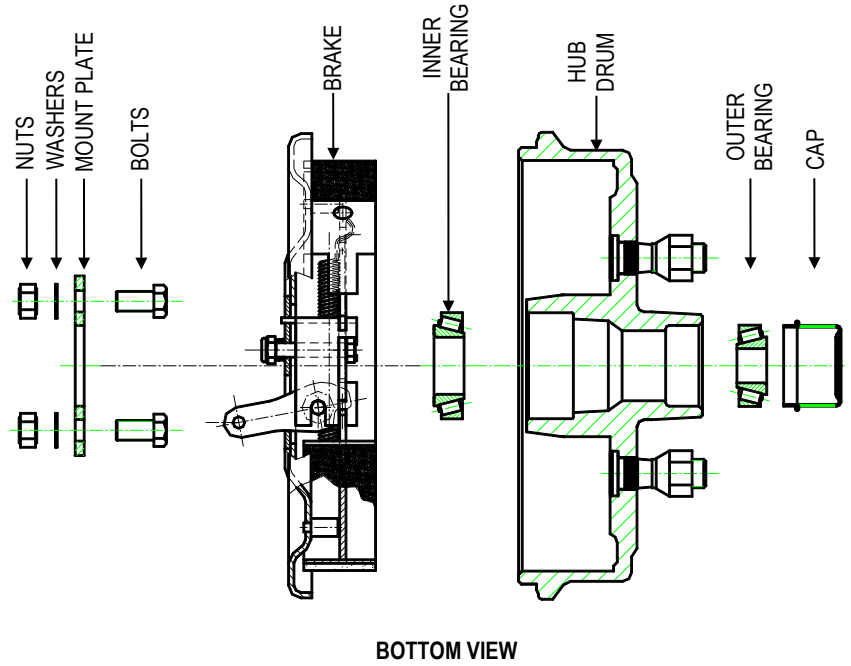
MECHANICAL BRAKE DRUMS

PART NO HUB DRUM FITTED WITH STUDS ONLY	DESCRIPTION (BRAKE DIAMETER & LINING WIDTH)	TYPE OF DRUM	MAX. AXLE CAPACITY	BEARINGS CAN BE FITTED TO HUB DRUMS TO SUIT THESE MACHINING PROFILES	POPULAR WHEEL DRILLING PATTERNS
422207	9" x 1 3/4"	Hub drum	1450 kg	LM/Slimline	Ford 5 x 4.5" PCD
422210	9" x 1 3/4"	Hub drum	1450 kg	LM/Slimline	Commodore 5 x 120mm PCD
422208	9" x 1 3/4"	Hub drum	1450 kg	LM/Slimline	HQ Holden 5 x 4.75" PCD
422213	4" 3 9" x 1	Hub drum	1200 kg	Slimline	6 stud Land Cruiser/Nissan 6 x 140mm PCD
422200	9" x 1 3/4"	Hub drum	1450 kg	LM/Slimline	HT Holden 5 x 4.25" PCD
422212	9" x 1 3/4"	Hub drum	1200 kg	Slimline	5 stud Land Cruiser 5 x 150mm PCD
422216	9" x 1 3/4"	Hub drum	1200 kg	Slimline	Range Rover / Land Rover Defender 5 x 6.5" PCD
422206	9" x 1 3/4"	Hub drum	1450 kg	LM/Slimline	Datsun 4 x 4.5" PCD
415105	11"	Hub + Drum	2300 kg	Can be fitted to 1.5t, 2t and 3t hubs	6 stud Land Cruiser 6 x 140mm PCD
415130	11"	Hub + Drum	2300 kg	Can be fitted to 1.5t, 2t and 3t hubs	Range Rover / Land Rover Defender 5 x 6.5" PCD
415110	11"	Hub + Drum	2300 kg	Can be fitted to 1.5t, 2t and 3t hubs	5 stud Land Cruiser 5 x 150mm PCD
415140	11"	Hub + Drum	2300 kg	Can be fitted to 1.5t, 2t and 3t hubs	Ford F100 5 x 139.7mm
415120	11"	Hub + Drum	2300 kg	Can be fitted to 1.5t, 2t and 3t hubs	Land Rover 5 x 6.5" PCD

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.

BRAKE KITS



Note: AL-KO recommends actuation of our mechanical lever brake is from the bottom of the brake.

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

PART NO	BRAKE DIAMETER AND LINING WIDTH	MAXIMUM CAPACITY / PAIR	COMMONLY USED STUB AXLE SECTION	DRILLING PATTERN AND BEARING TYRE SUPPLIED
321110	9 x 1 3/4" mech lever	1000 kg	40mm	9M/Lever HT LM
321112	9 x 1 3/4" mech lever	1000 kg	40mm	9M/Lever HQ LM
321113	9 x 1 3/4" mech lever	1000 kg	40mm	9M/Lever LM suit Commodore
321114	9 x 1 3/4" mech lever	1000 kg	40mm	9M/Lever LM suit Ford
321117	9 x 1 3/4" mech lever	1200 kg	45mm	5 stud HT Holden Slimline Kit
321118	9 x 1 3/4" mech lever	1200 kg	45mm	5 stud HQ Holden Slimline Kit
321127	9 x 1 3/4" mech lever	1200 kg	45mm	5 stud Ford Slimline Kit
321116	9 x 1 3/4" mech lever	1000 kg	45mm	6 stud Landcruiser Slimline Kit
	11" x 2" centre pull (not shown above)	2300 kg	50mm square / 56 mm round	15"/16" – L/Cruiser 5&6 stud L/Rover 2000 kg

Brake kits are available upon request to suit most popular wheel drill patterns as shown above.

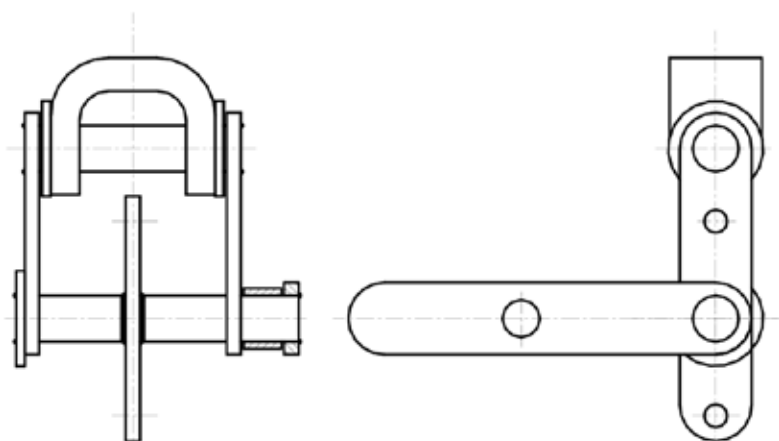
These kits include brakes, mount plates, nuts & bolts, hubs, drums, or hub drums, and complete bearing kits (bearing cups by request can be fitted into the hub or hub drum to your preferred stub machining profile).

CABLE & FITTINGS



323021

PART NO	DESCRIPTION
323020	Brake cable 4mm 7 x 7 wire cable (per metre)
323021	Brake cable adjuster
323022	Brake cable clips
323023	Brake cable pulleys
323025	Brake cable kit (8 metre cable & adjuster, 2 clips & 2 pulleys)
323030	Brake cable kit (10 metre cable & adjuster, 2 clips & 2 pulleys)
323200	Brake equalizer assembly (axle mounted) used for mechanical centre pull brakes only



323200

Helpful Hint:

The brake equalizer assembly is used to operate mechanical brakes that pull towards the centre of the axle.

Connection between the equalizer and the brakes is via solid steel rods and uses a clevis yoke at the equalizer end.

DRUM BRAKES

HYDRAULIC

Hydraulic drum brakes are similar to those used in the automotive industry for many years and are reliable and efficient.

Some models are available with cable operated park brake.

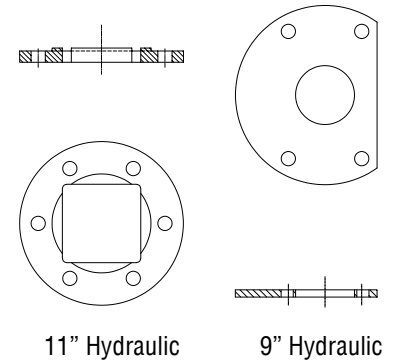


PART NO	BRAKE DIAMETER X SHOE WIDTH	WITH CABLE OPERATED PARK FITTED	RECOMMENDED MAX. LOAD ON 13"/14" WHEELS	RECOMMENDED MAX. LOAD ON 15"/16" WHEELS	NO OF MOUNTING BOLTS & MOUNTING DIAMETER
311100	9" x 1 3/4" RH	No	725 kg each wheel	600 kg each wheel	4 x 3/8" UNF x 101.6mm PCD Not equally spaced
311101	9" x 1 3/4" LH	No	725 kg each wheel	600 kg each wheel	
311102	9" x 1 3/4" Pair	No	1450 kg per pair	1200 kg per pair	
311600	11" x 2" RH	Yes	N/A	1150 kg each wheel	6 x 9mm (3/8") x 89mm PCD
311601	11" x 2" LH	Yes	N/A	1150 kg each wheel	
311602	11" x 2" Pair	Yes	N/A	2300 kg per pair	

SERVICE PARTS

PART NO	DESCRIPTION
319011	Bleed screw 9" hydraulic (AL-KO)
319104	Park brake cable 9" hydraulic
319103	Adaptor inlet port 9" hydraulic (Indian) / 11" hydraulic
319102	Washer inlet adaptor 9" hydraulic (Indian) / 11" hydraulic (old style)
319012	Bleed screw 9" hydraulic (Indian) / 11" hydraulic
319010	Wheel cylinder 9" hydraulic (AL-KO)
319013	Brake shoe (long) 9" hydraulic
319014	Brake shoe (short) 9" hydraulic
319017	Brake shoe hold down kit 9" hydraulic
319111	Park brake cable 11" hydraulic

HYDRAULIC BRAKE MOUNTING PLATES

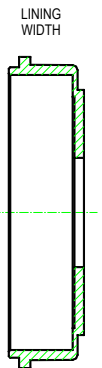


11" Hydraulic

9" Hydraulic

PART NO	DESCRIPTION	TO FIT AXLE SIZE
312200	9" Hydraulic – with & without park 39mm bore	39mm round
312250	9" Hydraulic – with & without park 45mm bore	45mm round
312600	11" Hydraulic – with & without park (60mm bore)	56mm round
312550	11" Hydraulic – with & without park	50mm square
312600	11" Hydraulic – with & without park (60mm bore)	60mm round
312550	11" Hydraulic – with & without park	63mm square

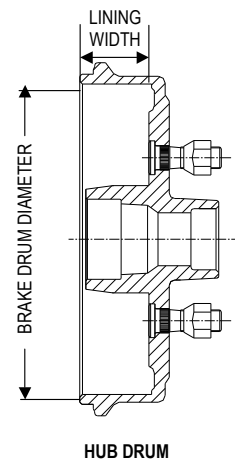
HYDRAULIC BRAKE DRUMS



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.

PART NO DRILLED DRUM ONLY	DESCRIPTION (BRAKE DIAMETER & LINING WIDTH)	TYPE OF DRUM	MAXIMUM AXLE CAPACITY	BEARINGS CAN BE FITTED TO HUB DRUMS TO SUIT THESE MACHINING PROFILES	POPULAR WHEEL DRILLING PATTERNS
415105	11"	Drum	2300 kg	Can be fitted to 1.5t, 2t & 3t hubs	6 stud Land Cruiser 6 x 140mm PCD
415130	11"	Drum	2300 kg	Can be fitted to 1.5t, 2t & 3t hubs	Range Rover / Land Rover Defender 5 x 6.5" PCD (5/8" wheel studs)
415110	11"	Drum	2300 kg	Can be fitted to 1.5t, 2t & 3t hubs	5 stud Land Cruiser 5 x 150mm PCD
415140	11"	Drum	2300 kg	Can be fitted to 1.5t, 2t & 3t hubs	Ford F100 5 x 139.7mm PCD
415120	11"	Drum	2300 kg	Can be fitted to 1.5t, 2t & 3t hubs	Land Rover 5 x 6.5" PCD

HYDRAULIC BRAKE HUBDRUMS



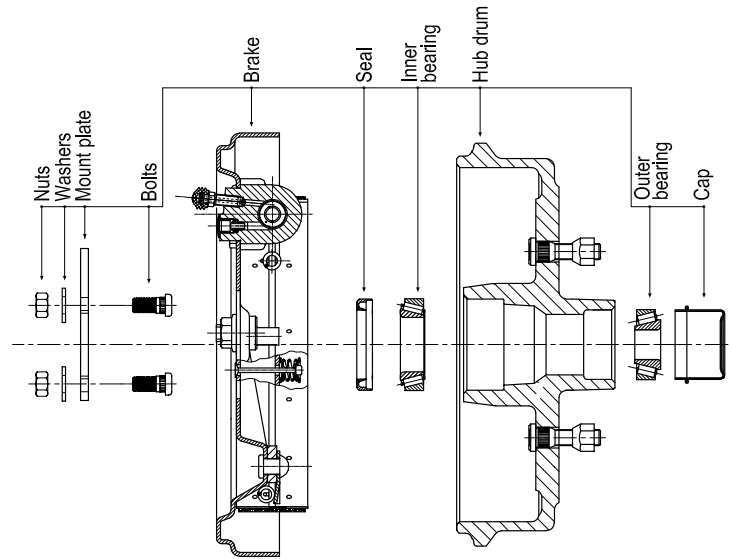
PART NO HUB DRUM FITTED WITH STUDS ONLY	DESCRIPTION (BRAKE DIAMETER & LINING WIDTH)	TYPE OF DRUM	MAX. AXLE CAPACITY	BEARINGS CAN BE FITTED TO HUB DRUMS TO SUIT THESE MACHINING PROFILES	POPULAR WHEEL DRILLING PATTERNS
422200	9" x 1 3/4"	Hub drum	1450 kg	LM/Composite/Slimline	HT Holden 5 x 4.25" PCD
422203	9" x 1 3/4"	Hub drum	1450 kg	LM/Composite/Slimline	Old Valiant 5 x 4" PCD
422204	9" x 1 3/4"	Hub drum	1450 kg	LM/Composite/Slimline	Cortina 4 x 4.25" PCD
422206	9" x 1 3/4"	Hub drum	1450 kg	LM/Composite/Slimline	Datsun 4 x 4.5" PCD
422207	9" x 1 3/4"	Hub drum	1450 kg	LM/Composite/Slimline	Ford 5 x 4.5" PCD
422208	9" x 1 3/4"	Hub drum	1450 kg	LM/Composite/Slimline	HQ Holden 5 x 4.75" PCD
422210	9" x 1 3/4"	Hub drum	1450 kg	LM/Composite/Slimline	Commodore 5 x 120 mm PCD
422211	9" x 1 3/4"	Hub drum	1450 kg	LM/Composite/Slimline	Late Valiant 5 x 4.5" PCD
422219	9" x 1 3/4"	Hub drum	1450 kg	LM/Composite/Slimline	Subaru 4 x 140 mm PCD
422205	9" x 1 3/4"	Hub drum	1200 kg	Slimline	Ford F100 5 x 139.7 mm PCD
422212	9" x 1 3/4"	Hub drum	1200 kg	Slimline	5 stud Land Cruiser 5 x 150 mm PCD
422213	9" x 1 3/4"	Hub drum	1200 kg	Slimline	6 stud Land Cruiser/Nissan 6 x 140 mm PCD
422216	9" x 1 3/4"	Hub drum	1200 kg	Slimline	Range Rover/Land Rover Defender 5 x 6.5" PCD

Brake drums are available in many formats, including undrilled, drilled, studed (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.

BRAKE KITS

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



PART NUMBER	DESCRIPTION (BRAKE DIAMETER & LINING WIDTH)	WITH CABLE OPERATED PARK	MAXIMUM CAPACITY/PAIR	COMMONLY USED STUB AXLE SECTION	DRILLING PATTERN AND BEARING TYPE SUPPLIED
311111	9" x 1 3/4"	No	1000kg	40mm	5 stud HQ LM Kit
311112	9" x 1 3/4"	No	1000kg	40mm	5 stud Commodore LM Kit
311113	9" x 1 3/4"	No	1000kg	40mm	5 stud Ford LM Kit
311114	9" x 1 3/4"	No	1000kg	40mm	5 stud HT Holden LM Kit
311116	9" x 1 3/4"	No	1200 kg	40mm	6 stud L/Cruiser Slimline Kit
311117	9" x 1 3/4"	No	1450 kg	45mm	5 stud Ford Slimline Kit
311118	9" x 1 3/4"	No	1450 kg	45mm	5 stud HQ Slimline Kit
311119	9" x 1 3/4"	No	1450 kg	45mm	5 stud Commodore Slimline Kit
311120	9" x 1 3/4"	No	1450 kg	45mm	5 stud HT Holden Slimline Kit
311121	9" x 1 3/4"	No	1200 kg	45mm	5 stud L/Cruiser Slimline Kit
311214	9" x 1 3/4"	Yes	1000kg	40mm	5 stud HT Holden LM Kit
311216	9" x 1 3/4"	Yes	1200 kg	45mm	6 stud L/Cruiser Slimline Kit
311220	9" x 1 3/4"	Yes	1450 kg	45mm	5 stud HT Holden Slimline Kit

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.

Helpful Hint:

Always mount hydraulic drum brakes with the bleed screw at the upper most position.

HYDRAULIC 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.



MASTER CYLINDERS AND ADAPTORS

PART NO	DESCRIPTION
313001	Master cylinder 3/4"
313005	Master cylinder cap 3/4"
313003	Master cylinder adaptor 3/16" pipe
313007	Master cylinder 7/8" suit AL-KO coupling
313008	Master cylinder cap 7/8"
313011	Master cylinder 1" suit AL-KO coupling
313012	Master cylinder cap suit 1" master cylinder
313013	Master cylinder bowl suit 7/8" (does not include cap)



HOSES

PART NO	DESCRIPTION
313019	Hose hydraulic female-female fittings 3/8" UNF (38cm)
313020	Hose hydraulic male-male fittings 3/8" UNF (38cm)
313021	Hose hydraulic 3/8"UNF male-female fittings151/4" (38cm)
312022	Hose clip chassis (wire type)
313025	Hose bracket ZP (L shape bolt on)
313026	Hose hydraulic 3/8"UNF male-female fittings 80cm
313028	Hose clip (plate type P3052)
319102	Copper washer 16mm x 10mm x 3mm thick

HYDRAULIC ACTUATION EQUIPMENT



PIPING, TUBE NUTS AND FITTINGS

PART NO	DESCRIPTION
313017	Tubing Bundy 3/16" x 17"
313030	Tube nut long 3/16" tube
313031	Tube nut short 3/16" tube
313032	Pipe joiner 3/16" tube
333333	Three way block 3/8" UNF
313042	Tubing Bundy 3/16" x 42 1/2"
313054	Tubing Bundy 3/16" x 54
313056	Tubing Bundy 3/16" x 56 1/2"
313066	Tubing Bundy 3/16" x 66
313068	Tubing Bundy 3/16" x 68 1/2"
313600	Tubing Bundy 3/16" x 6 metre coil

AL-KO iQ7

AL-KO iQ7 – <http://www.alkoiQ7.com.au/>

Not all power assisted braking systems are the same. So when you're towing a large boat trailer, it pays to fit AL-KO iQ7. Only iQ7 stores compressed air within a pressure chamber, allowing immediate brake application the instant it is required. Other systems don't come close. And AL-KO iQ7 includes in-built breakaway technology to stop your trailer if it becomes detached from the tow vehicle. No other parts are required. The bottom line is you'll enjoy superior safety and peace of mind while knowing iQ7 is backed by AL-KO's global expertise and German engineering. For further information and to see a video of AL-KO iQ7 in action visit www.alkoiQ7.com.au. It is a legal requirement for trailers over 2 tonne GTM to include a power assisted braking application. Refer to Australian Design Rules for further information.

There are two models available:

- I **iQ7 XTREME** utilises its own in-car control system and has additional features for ultimate safety and performance. (Controller, mouse and pedal).
- I **iQ7** can be used with your existing approved electric brake controller.

Both models are also available in an 'Outback' version, providing dust protection in extreme conditions.

PART NO	DESCRIPTION
iQ7 XTREME	
355014A	iQ7 XTREME Full actuation kit Auto pedal
355014M	iQ7 XTREME Full actuation kit Manual pedal
356014A	iQ7 OUTBACK XTREME Full actuation kit Auto pedal
356014M	iQ7 OUTBACK XTREME Full actuation kit Manual pedal
355002	iQ7 XTREME Actuator only
355013A	iQ7 XTREME In car kit complete Auto pedal
355013M	iQ7 XTREME In car kit complete Manual pedal
iQ7	
355002EK	iQ7 Elec Kit incl actuator, wiring kit & Primus iQ
355002EKP2	iQ7 Elec Kit incl actuator, wiring kit & P2 Controller
355002EKP3	iQ7 Elec Kit incl actuator, wiring kit & P3 Controller
356002EK	iQ7 OUTBACK Elec Kit incl actuator, wiring kit & Primus iQ
356002EKP2	iQ7 OUTBACK Elec Kit incl actuator, wiring kit & P2 Controller
356002EKP3	iQ7 OUTBACK Elec Kit incl actuator, wiring kit & P3 Controller
355002E	iQ7 Actuator only Suit Electric Brake Controller
350018	iQ7 Wiring Kit for use with Motion Sensing Elec Brake Controller
333063	Tekonsha Primus IQ Electronic Brake Controller
Parts & Accessories	
350003	iQ7 wiring loom – suit XTREME Controller
355005	iQ7 XTREME Manual Brake pad
355006	iQ7 XTREME Auto Brake pad
355008	iQ7 XTREME Mouse Assembly
350045	iQ7 Bleed Gun assy
350148	iQ7 XTREME Brake Controller Assembly



XTREME Controller Mouse



XTREME Brake Pedal Pad



XTREME Electronic Controller Unit

Helpful Hint:

If drum brakes are being used a Residual Line Pressure Valve must be installed in the hydraulic line.

This must be located BEFORE any split in the hydraulic line immediately after or as close as practicable to the master cylinder port.

Residual Line Pressure Valves are available from brake specialists.

DRUM BRAKES

ELECTRIC

Electric drum brakes are an extremely efficient and reliable braking system that require minimum maintenance.

They 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 2000 kg gross trailer mass (GTM) can be activated in a break away situation to conform with the Australian Design Rule 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.



331100

PART NO	BRAKE DIAMETER X SHOE WIDTH	WITH PARK BRAKE PROVISION	RECOMMENDED MAXIMUM LOAD ON 13"/14" WHEELS	RECOMMENDED MAXIMUM LOAD ON 15"/16" WHEELS	NO. OF MOUNTING BOLTS & MOUNTING DIAMETER
AL-KO PREMIUM					
331200	10" x 2 1/4" RH	No	800 kg Each Wheel	700 kg Each Wheel	4 x 7/16" UNF x 76.15mm PCD
331201	10" x 2 1/4" LH	No	800 kg Each Wheel	700 kg Each Wheel	
331202	10" x 2 1/4" Pair	No	1600 kg Per Pair	1400 kg Per Pair	
331100	10" x 2 1/4" RH	Yes	800 kg Each Wheel	700 kg Each Wheel	
331101	10" x 2 1/4" LH	Yes	800 kg Each Wheel	700 kg Each Wheel	
331102	10" x 2 1/4" Pair	Yes	1600 kg Per Pair	1400 kg Per Pair	
331250	10" x 2 1/4" Off Road RH	No	800 kg Each Wheel	700 kg Each Wheel	
331251	10" x 2 1/4" Off Road LH	No	800 kg Each Wheel	700 kg Each Wheel	
331252	10" x 2 1/4" Off Road Pair	No	1600 kg Per Pair	1400 kg Per Pair	
331150	10" x 2 1/4" Off Road RH	Yes	800 kg Each Wheel	700 kg Each Wheel	
331151	10" x 2 1/4" Off Road LH	Yes	800 kg Each Wheel	700 kg Each Wheel	
331152	10" x 2 1/4" Off Road Pair	Yes	1600 kg Per Pair	1400 kg Per Pair	
331300	12" x 2" RH	Yes	N/A	1250 kg Each Wheel	5x 3/8" UNF x 98mm PCD Not equally spaced
331301	12" x 2" LH	Yes	N/A	1250 kg Each Wheel	
331302	12" x 2" Pair	Yes	N/A	2500 kg Per Pair	
331350	12" x 2" Off Road RH	Yes	N/A	1250 kg Each Wheel	
331351	12" x 2" Off Road LH	Yes	N/A	1250 kg Each Wheel	
331352	12" x 2" Off Road Pair	Yes	N/A	2500 kg Per Pair	

PART NO	BRAKE DIAMETER X SHOE WIDTH	WITH PARK BRAKE PROVISION	RECOMMENDED MAXIMUM LOAD ON 13"/14" WHEELS	RECOMMENDED MAXIMUM LOAD ON 15"/16" WHEELS	NO. OF MOUNTING BOLTS & MOUNTING DIAMETER
TRAILTECH™					
331900	10" x 2 1/4" RH	Yes	700 kg Each Wheel	600 kg Each Wheel	4 x 7/16" UNF x 76.15mm PCD
331901	10" x 2 1/4" LH	Yes	700 kg Each Wheel	600 kg Each Wheel	
331902	10" x 2 1/4" Pair	Yes	1400 kg Per Pair	1200 kg Per Pair	
331930	12" x 2" RH	Yes	N/A	1000 kg Each Wheel	5 x 3/8" UNF x 98mm PCD
331931	12" x 2" LH	Yes	N/A	1000 kg Each Wheel	Not equally spaced
331932	12" x 2" Pair	Yes	N/A	2000 kg Per Pair	

SERVICE PARTS



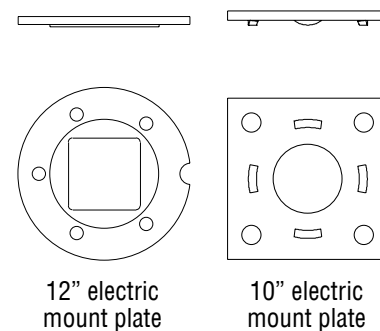
Standard Electric Magnet



Off road electric magnet

ELECTRIC MAGNET

PART NO	DESCRIPTION
339102	Magnet clip – 10” electric (oval)
339110	Magnet spring
339114	Magnet lever LH – suit 10” oval magnet
339115	Magnet lever RH – suit 10” oval magnet
339010	Magnet Kit 10” – AL-KO, Hayes, Dexter (oval) – skin pack
339300	Magnet 12” electric
339350	Magnet 12” – AL-KO Off Road – LH
339355	Magnet 12” – AL-KO Off Road – RH
339015	Magnet kit – 10” – AL-KO Off Road – RH skin pack
339020	Magnet kit – 10” – AL-KO Off Road – LH skin pack
339120	Brake Shoe 10” electric – Primary
339121	Brake Shoe 10” electric – Secondary
339135BX	Brake Shoe axle set – 10” electric with park- Primary & Secondary (4 per box)
339122	Brake Shoe 12” electric – Primary
339123	Brake Shoe 12” electric – Secondary
339116	Magnet lever LH 12” electric
339117	Magnet lever RH 12” electric



12” electric mount plate

10” electric mount plate

ELECTRIC BRAKE MOUNTING PLATES

PART NO	DESCRIPTION	TO FIT AXLE SIZE
332100	10” Electric (39mm bore)	40mm square
332150	10” Electric (45mm bore s/line)	45mm round / 45mm square 50mm square parallel bearings
332160	10” Electric (45mm square)	45mm square
332350	12” Electric (50mm square)	50mm square
332301	12” Electric (60mm bore)	56mm diameter

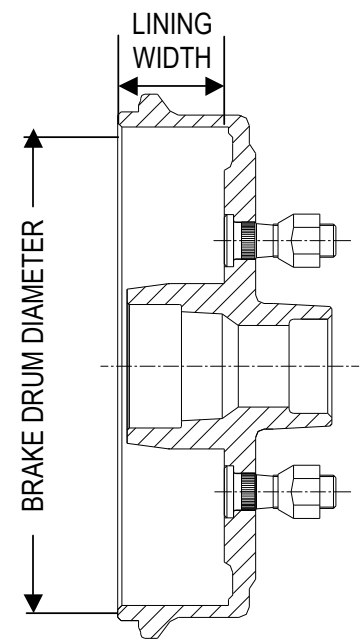
Helpful Hint:

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 excessive clearance or 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.

ELECTRIC BRAKE 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 lists popular electric brake drums.



HUB DRUM

HUB DRUMS

PART NO HUB 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
428209	10" x 2 1/4"	Hub drum	1000 kg	LM	Ford
			1450 kg	Slimline	5 x 4.5" PCD
428213	10" x 2 1/4"	Hub drum	1200 kg	Slimline	6 stud Land Cruiser / Nissan
428220			1600 kg	Parallel	6 x 139.7mm PCD
428210	10" x 2 1/4"	Hub drum	1000 kg	LM	Commodore
			1450 kg	Slimline	5 x 120mm PCD
428208	10" x 2 1/4"	Hub drum	1000 kg	LM	HQ Holden
			1450 kg	Slimline	5 x 4.75" PCD
428200	10" x 2 1/4"	Hub drum	1000 kg	LM	HT Holden
			1450 kg	Slimline	5 x 4.25" PCD
428212	10" x 2 1/4"	Hub drum	1200 kg	Slimline	5 stud Land Cruiser
428225			1600 kg	Parallel	5 x 150mm PCD
428217	10" x 2 1/4"	Hub drum	1200 kg	Slimline	Range Rover/Land Rover Defender
428223			1600 kg	Parallel	5 x 6.5" PCD (5/8" wheel studs)
428205	10" x 2 1/4"	Hub drum	1200 kg	Slimline	Ford F100
428224			1600 kg	Parallel	5 x 139.7mm PCD
428230	10" x 2 1/4"	Hub drum	1500kg	Parallel	5 x 4.5" Ford
429001	12" x 2"	Hub drum	2500 kg	2 tonne	6 stud Land Cruiser / Nissan x 139.7mm PCD
429002	12" x 2"	Hub drum	2500 kg	2 tonne	5 stud Land Cruiser 5 x 150mm PCD

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ELECTRIC BRAKE DRUMS

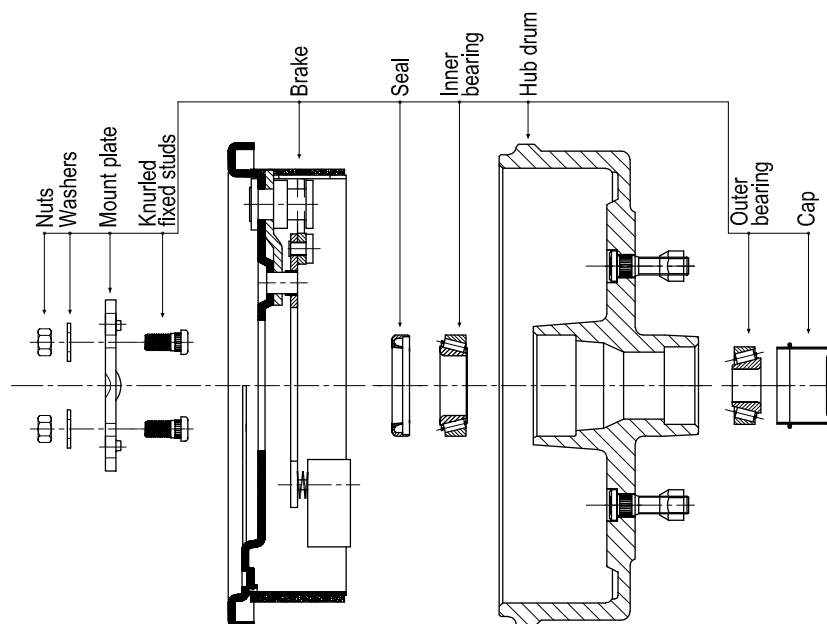
PART NO HUB DRUM FITTED WITH STUDS ONLY	DESCRIPTION	TYPE OF DRUM	MAXIMUM AXLE CAPACITY	BEARINGS CAN BE FITTED TO HUB DRUMS TO SUIT THESE MACHINING PROFILES	POPULAR WHEEL DRILLING PATTERNS
417105	12" x 2"	Drum	2500 kg	Can be fitted to 1.5t, 2t & 3t hubs	6 stud Land Cruiser 6 x 139.7mm PCD
417110	12" x 2"	Drum	2500 kg	Can be fitted to 1.5t, 2t & 3t hubs	5 stud Land Cruiser 5 x 150mm PCD
417120	12" x 2"	Drum	2500 kg	Can be fitted to 1.5t, 2t & 3t hubs	Land Rover 5 x 6.5" PCD
417130	12" x 2"	Drum	2500 kg	Can be fitted to 1.5t, 2t & 3t hubs	Range Rover / Land Defender 5 x 6.5" (5/8" wheel studs)
417140	12" x 2"	Drum	2500 kg	Can be fitted to 1.5t, 2t & 3t hubs	Ford F100 5 x 139.7mm PCD
417150	12" x 2"	Drum	2500 kg	Can be fitted to 1.5t, 2t & 3t hubs	Bedford 6 x 205mm PCD

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.

The inside drum face where the studs are fitted on the electric hub drums 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.

Do not machine the magnet face to be any closer than 0.3mm from the head of the wheel studs. On a new magnet the face is machined flat.

BRAKE KITS



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

PART NO	BRAKE TYPE	BRAKE DIAMETER AND LINING WIDTH	WITH PARK	MAXIMUM CAPACITY / PAIR	COMMONLY USED STUB AXLE SECTION	DRILLING PATTERN AND BEARING TYRE SUPPLIED
334100	AL-KO Premium	10" x 2 1/4"	Yes	1000 kg	40mm	HT Holden LM Bearings
334101	AL-KO Premium	10" x 2 1/4"	Yes	1000 kg	40mm	Commodore LM Bearings
334102	AL-KO Premium	10" x 2 1/4"	Yes	1000 kg	40mm	HQ Holden LM Bearings
334103	AL-KO Premium	10" x 2 1/4"	Yes	1000 kg	40mm	Ford LM Bearings
334120	AL-KO Premium	10" x 2 1/4"	Yes	1450 kg	45mm	HT Holden Slimline Bearings
334121	AL-KO Premium	10" x 2 1/4"	Yes	1450 kg	45mm	Commodore Slimline Bearings
334122	AL-KO Premium	10" x 2 1/4"	Yes	1450 kg	45mm	HQ Holden Slimline Bearings
334123	AL-KO Premium	10" x 2 1/4"	Yes	1450 kg	45mm	Ford Slimline Bearings
334105	AL-KO Premium	10" x 2 1/4"	No	1000 kg	40mm	HT Holden LM Bearings
334116	AL-KO Premium	10" x 2 1/4"	Yes	1400 kg	45mm	6 stud L/Cruiser Slimline Bearings
334117	AL-KO Premium	10" x 2 1/4"	Yes	1400 kg	45mm	5 stud L/Cruiser Slimline Bearings
334125	AL-KO Premium	10" x 2 1/4"	No	1450 kg	45mm	HT Holden Slimline Bearings
334126	AL-KO Premium	10" x 2 1/4"	Yes	1600 kg	50mm square	6 stud L/Cruiser Parallel Bearings
334127	AL-KO Premium	10" x 2 1/4"	Yes	1600 kg	50mm square	5 stud L/Cruiser Parallel Bearings

PART NO	BRAKE TYPE	BRAKE DIAMETER AND LINING WIDTH	WITH PARK	MAXIMUM CAPACITY / PAIR	COMMONLY USED STUB AXLE SECTION	DRILLING PATTERN AND BEARING TYRE SUPPLIED
334126OR	AL-KO Premium Off-Road	10" x 2 1/4"	Yes	1600 kg	50mm square	6 stud L/Cruiser Parallel Bearings
334127OR	AL-KO Premium Off-Road	10" x 2 1/4"	Yes	1600 kg	50mm square	5 stud L/Cruiser Parallel Bearings
334128	AL-KO Premium Off-Road	10" x 2 1/4"	Yes	1600 kg	50mm square	6 stud L/Cruiser Parallel Bearing
334165	AL-KO Premium Off-Road	12" x 2"	Yes	2000 kg	50mm square	5 stud L/Cruiser Hub + Drum 2T Bearings
334165HD	AL-KO Premium Off-Road	12" x 2"	Yes	2000 kg	50mm square	5 stud L/Cruiser Hubdrum 2T Bearings
334166	AL-KO Premium Off-Road	12" x 2"	Yes	2000 kg	50mm square	6 stud L/Cruiser Hub + Drum 2T Bearings
334166HD	AL-KO Premium Off-Road	12" x 2"	Yes	2000 kg	50mm square	6 stud L/Cruiser Hubdrum 2T Bearings

Brake capacity based on 14" tyre diameter. Increased tyre diameter decreases capacity.

BRAKE KITS

PART NO	BRAKE TYPE	BRAKE DIAMETER AND LINING WIDTH	WITH PARK	MAXIMUM CAPACITY / PAIR	COMMONLY USED STUB AXLE SECTION	DRILLING PATTERN AND BEARING TYRE SUPPLIED
334100TT	Trailtech	10" x 2 1/4"	Yes	1000 kg	40mm	HT Holden LM Bearings
334124TT	Trailtech	10" x 2 1/4"	Yes	1000 kg	40mm	Commodore LM Bearings
334102TT	Trailtech	10" x 2 1/4"	Yes	1000 kg	40mm	HQ Holden LM Bearings
334103TT	Trailtech	10" x 2 1/4"	Yes	1000 kg	40mm	Ford LM Bearings
334121TT	Trailtech	10" x 2 1/4"	Yes	1200 kg	45mm	Commodore Slimline Bearings
334122TT	Trailtech	10" x 2 1/4"	Yes	1200 kg	45mm	HQ Holden Slimline Bearings
334123TT	Trailtech	10" x 2 1/4"	Yes	1200 kg	45mm	Ford Slimline Bearings
334116TT	Trailtech	10" x 2 1/4"	Yes	1200 kg	45mm	6 stud L/Cruiser Slimline Bearings

Other brake kits available with Off-Road option on request.

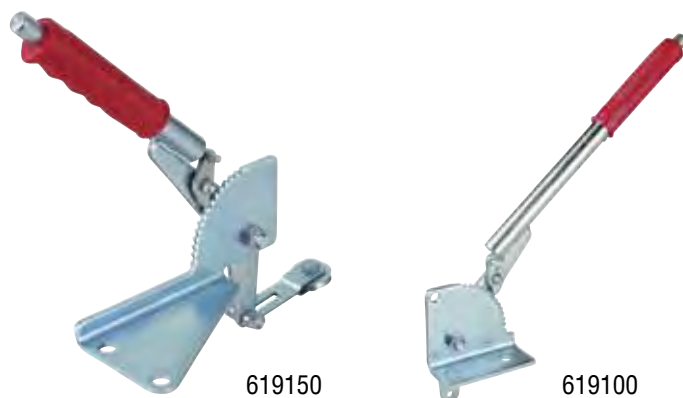
Brake capacity based on 14" tyre diameter. Increased tyre diameter decreases capacity.

Brake kits are available upon request to suit most popular wheel drill 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).

HANDBRAKE & CABLE FITTINGS

The parts listed are an example of the vast AL-KO range of components to complement the range of Electric Drum Brakes.



PART NO	DESCRIPTION
323020	Brake cable 4mm 7 x 7 wire cable (per metre)
323021	Brake cable adjuster
323022	Brake cable clips
323023	Brake cable pulleys
323025	Brake cable kit (8 metre cable & adjuster, 2 clips & 2 pulleys)
323030	Brake cable kit (10 metre cable & adjuster, 2 clips & 2 pulleys)
619100	Mechanical park brake mechanism 400mm
619150	Mechanical park brake mechanism 280mm with cable pulley attached

ELECTRIC BRAKE CONTROL EQUIPMENT

MOTION SENSING

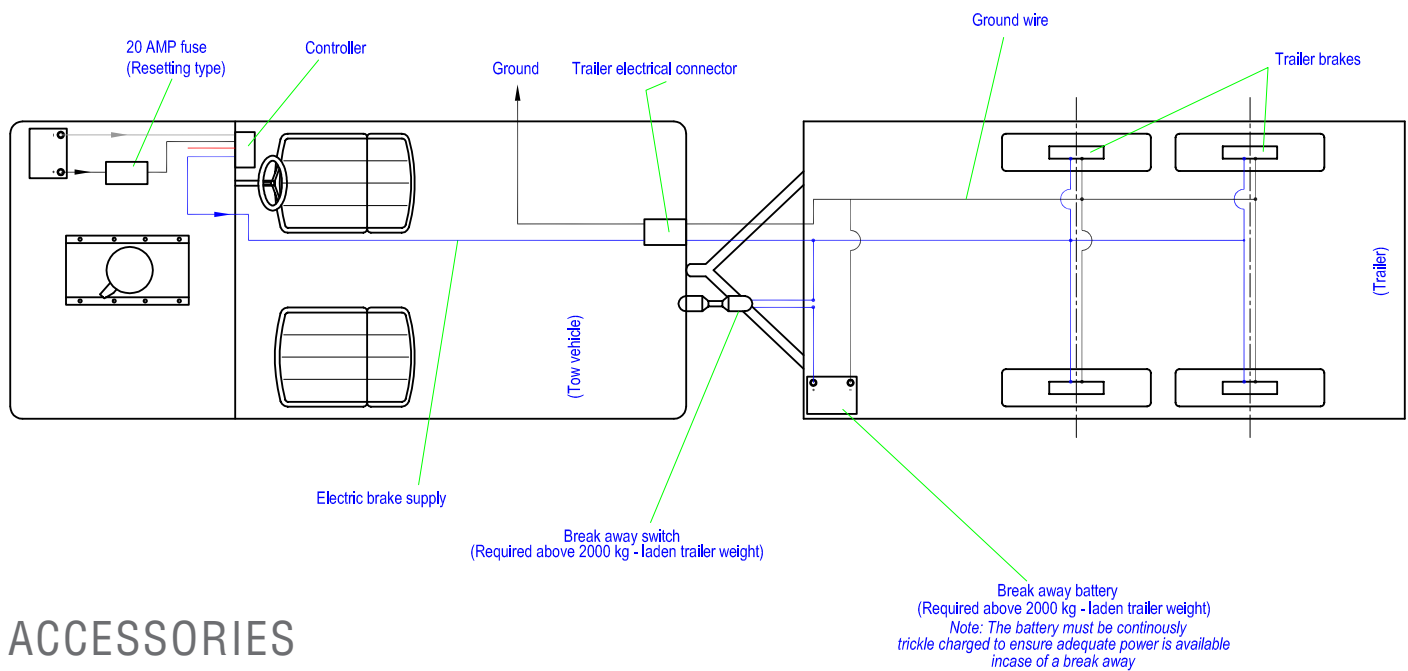
For the ultimate efficiency with electric brakes a motion sensing controller provides the best balance between the tow vehicle and the trailer braking. This control system can provide manual operation as well as smooth proportional braking when the tow vehicle brakes are applied. To achieve this ultimate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



PART NO	DESCRIPTION
333092	Hayes Energize III 81741B Electric Brake Controller
333060	Tekonsha Voyager Electric Brake Controller
333061	Tekonsha Prodigy P2 Electric Brake Controller
333063	Tekonsha Primus IQ Electric Brake Controller
333065	Tekonsha P3 Electric Brake Controller

ELECTRIC BRAKE CONTROL EQUIPMENT

TYPICAL ELECTRIC BRAKE WIRING DIAGRAM



ACCESSORIES

AL-KO can provide a range of small components and accessories to assist with electric brake installation.

PART NO	DESCRIPTION
333029	Electric Brake Resistor – Dial Type
350215	Electric Circuit Breaker – 30 amp
350160	12 pin trailer plug
350164	12 pin trailer socket

BREAKAWAY

For trailers over 2000 kg GTM (refer to Figure 1 on Page 2) it is a requirement that, should the tow vehicle and trailer separate accidentally, that the trailer brakes are applied at full power for a minimum period of 15 minutes.

The breakaway kits itemised are a total solution to the Australian Design Rule requirements.



PART NO	DESCRIPTION
333040	Tekonsha Electric Break Away Switch Assembly complete
333070	Electric Break Away Kit/Battery – 4 wheel brakes (Breaksafe model BS6000)
333071	Breaksafe Electric Break Away Switch assembly complete
333072	Breaksafe Break Away pin with coil cable only (spare part)
333080	Electric Break Away Kit/Battery – 8 wheel brakes (Breaksafe model BS6000XP)
333075	Breaksafe monitor – In-car low voltage warning

ELECTRONIC STABILITY CONTROL

AL-KO ESC

The latest in towing safety technology

AL-KO ESC (Electronic Stability Control) is a vital safety feature designed to give you the best possible response in an emergency avoidance manoeuvre situation such as having to swerve suddenly to avoid a car or animal on the road ahead. Not only does it reduce sway, unlike anything else AL-KO ESC is primarily a serious safety technology for critical towing situations.

How AL-KO ESC Works

The AL-KO ESC constantly senses the lateral (side to side) movement of the caravan while towing. When a critical sway or emergency swerve is detected, the ESC partially applies the caravan brakes. Braking of the caravan only has the effect of pulling the caravan into line behind the tow vehicle and prevents further swaying of the caravan. This allows the driver to remain in control of the vehicle. The ESC is only approved for use on trailers and caravans fitted with approved electric brakes, axles and suspensions.

For further information, see the AL-KO ESC user manual at www.alkoesc.com.au.

Critical swerve or sway is detected by the ESC



ESC partially applies the caravan brakes. The caravan is pulled into line behind the tow vehicle



The sway is stopped and the caravan brakes are released



DISC BRAKES

MECHANICAL DISC BRAKES

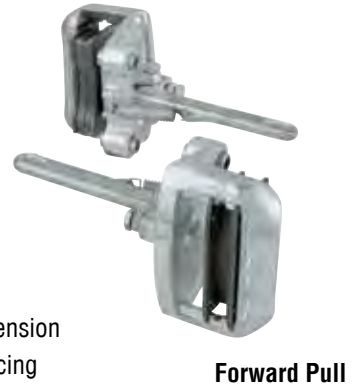
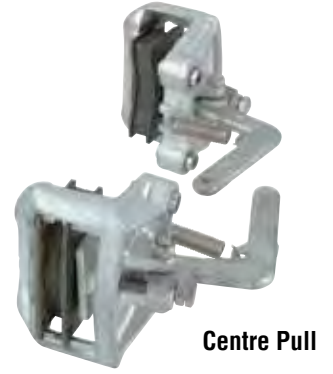
Disc brakes are used for applications where resistance to corrosion is paramount. The open nature of disc brakes makes washing after salt water immersion a simple task. Disc brakes also allow quicker cooling during brake applications and therefore the disc brake system is less prone to brake fade.

AL-KO Light duty mechanical disc brake calipers are hot dip galvanised. The bushes, springs and bolts etc are made from stainless steel.

AL-KO Heavy duty mechanical disc brake calipers are Dacromet® coated for salt water corrosion resistance. The slide pins are made from stainless steel adding to the excellent capacity of this product to continue to function after exposure to corrosive environments.

The mechanical caliper comes in two configurations, forward pull and centre pull as shown in the photos below.

Forward pull is used on beam axles whilst centre pull is used when the AL-KO Independent Rubber Suspension (I.R.S.) is used. The simple cable actuation of these calipers and their uncomplicated design makes servicing a task that can be carried out by the "handyman", saving on servicing cost. AL-KO mechanical calipers are suitable for disc hubs and rotors of thicknesses from 12mm to 15mm.

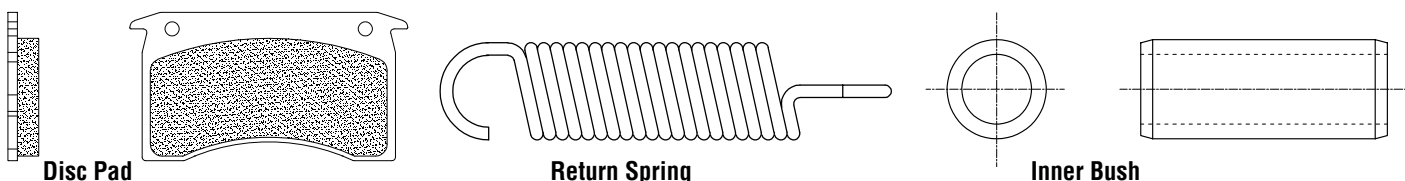


PART NO.	DESCRIPTION	METHOD OF OPERATION	PROTECTIVE COATING	RECOMMENDED MAXIMUM LOAD ON 13"/14" WHEELS	RECOMMENDED MAXIMUM LOAD ON 15"/16" WHEELS	MOUNTING DETAILS BOLT DIAMETER AND SPACING	MAXIMUM CABLE INPUT LOAD
LIGHT DUTY							
323100	Single caliper	Forward pull	Hot dipped galvanised	775 kg each wheel	725 kg each wheel	7/16" UNF H.T x 2 1/4" 88.9mm centres (3.5")	200kg
323102	Pair	Forward pull	Hot dipped galvanised	1550 kg each axle	1450 kg each axle	7/16" UNF H.T x 2 1/4" 88.9mm centres (3.5")	200kg
323000	Single Caliper	Centre pull	Hot dipped galvanised	625 kg each wheel	600 kg each wheel	7/16" UNF H.T x 2 1/4" 88.9mm centres (3.5")	200kg
323002	Pair	Centre pull	Hot dipped galvanised	1250 kg each axle	1200 kg each axle	7/16" UNF H.T x 2 1/4" 88.9mm centres (3.5")	200kg
HEAVY DUTY							
323800	Single Caliper	Forward Pull	Dacromet®	850 kg each wheel	1000 kg each wheel	12mm H.T x 45mm Dacromet® Set screws supplied 88.9mm centres (3.5")	300kg
323850	Single Caliper	Centre Pull	Dacromet®	850 kg each wheel	1000 kg each wheel	12mm H.T x 45mm Dacromet® Set screws supplied 88.9mm centres (3.5")	300kg

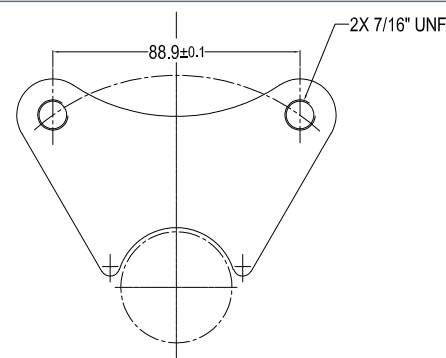
Helpful Hint:

Cable pulls to centre of axle when centre pull callipers are used.

SERVICE PARTS



PART NO	DESCRIPTION
LIGHT DUTY CALIPER SPARES	
349100	Disc pad (set of four)
323126	Inner stainless bush
323125	Outer stainless bush (fixed)
323121	Return spring stainless
323131	Disc pad anti-rattle spring
323128	Disc pad single
HEAVY DUTY CALIPER SPARES	
341080	Disc pad (Set of two. Skin pack)
341081	Slide Pin Kit (Skin pack)

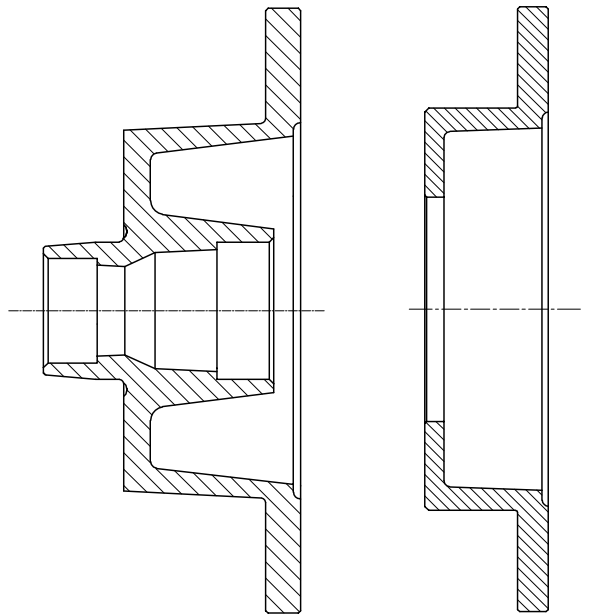


MECHANICAL CALIPER MOUNTING PLATES

PART NO	DESCRIPTION	TO FIT AXLE SIZE	TO SUIT DISC HUB OR DISC ROTOR
LIGHT DUTY CALIPER MOUNT PLATES			
342116	Mechanical caliper mount plate	39mm Round	Disc hub
342140	Mechanical caliper mount plate	40mm Square	Disc hub
342145	Mechanical caliper mount plate	45mm Square	Disc hub
342109	Mechanical caliper mount plate	45mm Round	Disc hub
342148	Mechanical caliper mount plate	50mm Square	Disc hub
342155	Mechanical caliper mount plate	45mm Square	Disc rotor
342150	Mechanical caliper mount plate	50mm Square	Disc rotor
342170	Mechanical caliper mount plate	56mm Round	Disc rotor

PART NO	DESCRIPTION	WHEEL SIZE	TO FIT AXLE SIZE	TO SUIT DISC HUB OR DISC ROTOR
HEAVY DUTY CALIPER MOUNT PLATES				
342199	Mechanical caliper mount plate	13"	39mm Round	Disc hub
342115	Mechanical caliper mount plate	14"	39mm Round	Disc hub
342143	Mechanical caliper mount plate angled	13"/ 14"	40mm Square	Disc hub
342151	Mechanical caliper mount plate angled	13"	40mm Square	Disc hub
342147	Mechanical caliper mount plate angled	14"	40mm Square	Disc hub
342122	Mechanical caliper mount plate	13"	45mm Round	Disc hub
342110	Mechanical caliper mount plate	14"	45mm Round	Disc hub
342130	Mechanical caliper mount plate	16"	45mm Round	Disc hub
342149	Mechanical caliper mount plate angled	14"	50mm Square	16" Disc hub/Disc hub
342156	Mechanical caliper mount plate angled	16"	45mm Square	16" Disc hub/Disc rotor
342159	Mechanical caliper mount plate angled	16"	50mm Square	16" Disc hub/2T Disc hub/Disc rotor
342175	Mechanical caliper mount plate	16"	56mm Round	2T Disc hub/Disc rotor

MECHANICAL 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.

PART NO OF DISC HUB FITTED WITH STUDS ONLY	FINISH	TYPE	BEARINGS CAN BE FITTED TO DISC HUBS SUIT THESE MACHINING PROFILES	POPULAR WHEEL DRILLING PATTERNS
432207	Plain Non-Galvanised	Disc hub	LM / slimline	Ford 5 x 4.5” PCD
432290	Hot dipped Galvanised	Disc hub Marine Suit 13” & 14” Wheels	supplied with slimline cups & cones	Ford 5 x 4.5” PCD
432295	Hot dipped Galvanised	Disc hub Marine Suit 13” & 14” Wheels	supplied with slimline cups & cones	Ford 5 x 4.5” PCD
432210	Plain Non-Galvanised	Disc hub Suit 13” & 14” Wheels	LM / slimline	Commodore 5 x 120mm PCD
432208	Plain Non-Galvanised	Disc hub Suit 13” & 14” Wheels	LM / slimline	HQ Holden 5 x 4.75” PCD
432200	Plain Non-Galvanised	Disc hub Suit 13” & 14” Wheels	LM / slimline	HT Holden 5 x 4.25” PCD
432280	Hot dipped Galvanised	Disc hub Marine Suit 13” & 14” Wh,eels	supplied with slimline cups & cones	HT Holden 5 x 4.25” PCD
432285	Hot dipped Galvanised	Disc hub Marine Suit 13” & 14” Wheels	supplied with slimline cups & cones	HT Holden 5 x 4.25” PCD
431200	Plain Non-Galvanised	Disc hub Suits 600x9 Wheels	LM	600 X 9” 5 x 4.25” PCD
432145	Zinc Plated	Disc hub Suit 16” Wheels	slimline	6 stud Land Cruiser 6 x 139.7mm (6 x 5.5”)
442462	Plain Non-Galvanised	Hub parallel + Rotor Suit 16” Wheels	Parallel	6 stud Land Cruiser. Studs only 6 x 139.7mm (6 x 5.5”)
432105	Plain Non-Galvanised	Disc rotor only	To suit 1.5 & 2 T hub	6 stud Land Cruiser. 6 x 139.7mm (6 x 5.5”)
432127	Zinc Plated	Disc hub Suit 16” Wheels	2T	6 stud Land Cruiser. 6 x 139.7mm (6 x 5.5”)

DISC HUB KITS
GALVANISED
(BOXED)



PART NO. OF BOXED KIT	FINISH	TYPE	BEARINGS FITTED	DETAILS
441290	Hot Dipped Galvanised	Disc hub Marine complete Suit 13" & 14" Wheels	LM	HT Holden 5 x 4.25" PCD Boxed kit complete with bearings, marine seal, dust cap, plated studs & nuts
441291	Hot Dipped Galvanised	Disc hub Marine complete Suit 13" & 14" Wheels	slimline	HT Holden 5 x 4.25" PCD Boxed kit complete with bearings, marine seal, dust cap, plated studs & nuts
441292	Hot Dipped Galvanised	Disc hub Marine complete Suit 13" & 14" Wheels	LM	Ford 5 x 4.5" PCD Boxed kit complete with bearings, marine seal, dust cap, plated studs & nuts
441293	Hot Dipped Galvanised	Disc hub Marine complete Suit 13" & 14" Wheels	slimline	Ford 5 x 4.5" PCD Boxed kit complete with bearings, marine seal, dust cap, plated studs & nuts

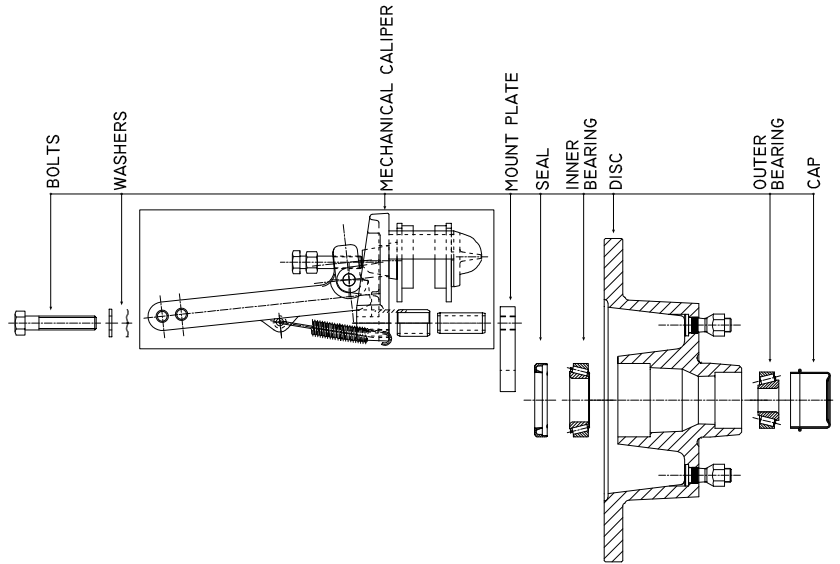
Helpful Hint:

Sometimes the capacity of a braked axle combination is limited by the power of the brake and not the carrying capacity of the axle.

BRAKE KITS

AL-KO can provide mechanical disc brake kits in various drilling patterns and capacities.

These kits include calipers, mount plates, nuts & bolts, hubs, rotors, or disc hubs, and complete bearing kits (bearing cups can be fitted into the hub or disc hub to your preferred stub machining profile).



KIT PART NO.	TYPE	MAXIMUM CAPACITY/PAIR	CALIPER TYPE	BEARING TYPE	DRILLING PATTERN
323161	15mm Hot dipped galv disc hub	1300 kg	Light duty	Slimline	Ford 5 x 4.5" PCD
323162	15mm Hot dipped galv disc hub	1000 kg	Light duty	LM	HT Holden 5 x 4.25" PCD
323166	15mm Hot dipped galv disc hub	1000 kg	Light duty	LM	Ford 5 x 4.5" PCD
323173	15 mm Plain disc hub	1000 kg	Light duty	LM	HQ Holden 5 x 4.75" PCD bearings
323174	15 mm Plain disc hub	1000 kg	Light duty	LM	Ford 5 x 4.5" PCD bearings
323188DH	15mm Plain disc hub	1100 kg	Light duty	Slimline	Landcruiser 6 x 5.5" PCD
323189DH	15mm Plain disc hub	1100 kg	Light duty	Slimline	Landcruiser 5 x 150mm PCD
323115	15 mm Plain disc hub	1000 kg	Light duty	LM	HT Holden 5 x 4.25" PCD LM bearings
323117	15 mm Plain disc hub	1300 kg	Light duty	Slimline	HT Holden 5 x 4.25" PCD Slimline bearings
323118	15 mm Plain disc hub	1300 kg	Light duty	Slimline	Ford 5 x 4.5" PCD Slimline bearings
323305	15mm zinc plated disc hub	2000kg	Heavy duty	2 tonne	Landcruiser 5 x 150mm PCD
323306	15mm zinc plated disc hub	2000kg	Heavy duty	2 tonne	Landcruiser 6 x 5.5" PCD

Brake kits are available upon request to suit most popular wheel drill patterns.

Helpful Hint:

Light duty mechanical caliper mounting bolts should be tightened to a torque of 55Nm (40Ft LB) and use thread locking compound.

CABLE & FITTINGS



323021

PART NO	DESCRIPTION
323020	Brake cable 4 mm 7 x 7 wire cable (per metre)
323021	Brake cable adjuster
323022	Brake cable clips
323023	Brake cable pulleys
323025	Brake cable kit (8 metre cable & adjuster, 2 clips & 2 pulleys)
323030	Brake cable kit (10 metre cable & adjuster, 2 clips & 2 pulleys)

HYDRAULIC DISC BRAKES

Hydraulic disc brake calipers are available in either stainless steel for maximum salt water corrosion resistance or Dacromet® coated. 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 2000 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.

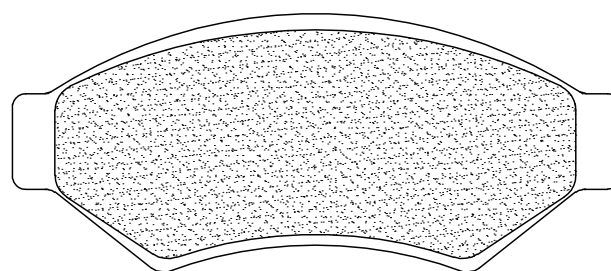
Hydraulic calipers are suitable for disc hubs and rotors of thicknesses from 12mm to 15mm.



PART NO		TYPE	RECOMMENDED MAX. LOAD ON 13"/14" WHEELS	RECOMMENDED MAX. LOAD ON 15"/16" WHEELS	MOUNTING BOLTS AND SPACING
341000	Single caliper	Dacromet®	800 kg each wheel	700 kg each wheel	12mm H.T. X 45mm set screw 88.9mm (3.5")
341001	Pair	Dacromet®	1600 kg each axle	1400 kg each axle	
341050	Single caliper	Stainless steel	800 kg each wheel	700 kg each wheel	
341051	Pair	Stainless steel	1600 kg each axle	1400 kg each axle	

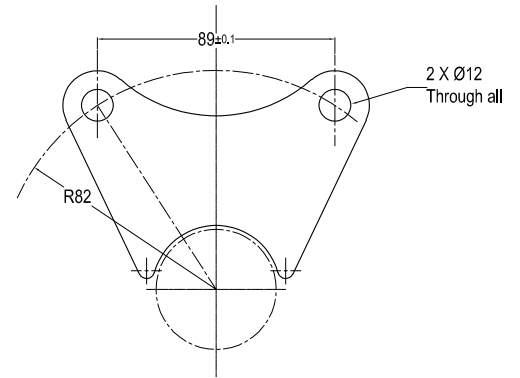
SERVICE PARTS (SKIN PACKED)

PART NO	DESCRIPTION
341080	Disc pad kit – 2 pads
341081	Slide pin kit per caliper
341082	Caliper piston seal repair kit – per caliper
341083	Caliper piston kit – per caliper
341084	Caliper bleed screw – 2 pce



Disc pad

HYDRAULIC CALIPER MOUNTING PLATES



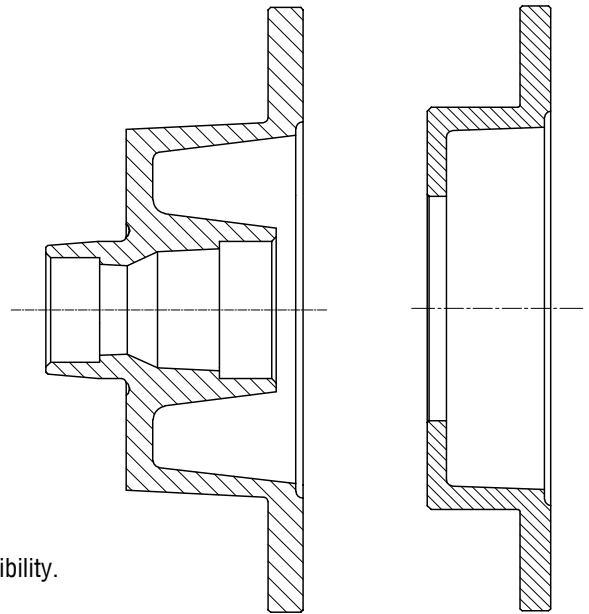
PART NO	DESCRIPTION	TO FIT AXLE SIZE	TO SUIT DISC HUB OR DISC ROTOR
342115	Hydraulic caliper mount plate	39mm round	Disc hub
342143	Hydraulic caliper mount plate	40mm square	Disc hub
342147	Hydraulic caliper mount plate	45mm square	Disc hub
342110	Hydraulic caliper mount plate	45mm round	Disc hub
342160	Hydraulic caliper mount plate	50mm square	Hub + disc rotor
342165	Hydraulic caliper mount plate	45mm square	Hub + disc rotor
342175	Hydraulic caliper mount plate	56mm round	Hub + disc rotor

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.

PART NO OF DISC HUB FITTED WITH STUDS ONLY	FINISH	TYPE	BEARINGS CAN BE FITTED TO DISC HUBS SUIT THESE MACHINING PROFILES	POPULAR WHEEL DRILLING PATTERNS
432207	Plain Non-Galvanised	Disc hub	LM / slimline	Ford 5 x 4.5" PCD
432290	Hot dipped Galvanised	Disc hub Marine Suit 13" & 14" Wheels	supplied with slimline cups & cones	Ford5 x 4.5" PCD
432295	Hot dipped Galvanised	Disc hub Marine Suit 13" & 14" Wheels	supplied with LM cups & cones	Ford 5 x 4.5" PCD
432210	Plain Non-Galvanised	Disc hub Suit 13" & 14" Wheels	LM / slimline	Commodore 5 x 120mm PCD
432208	Plain Non-Galvanised	Disc hub Suit 13" & 14" Wheels	LM / slimline	HQ Holden 5 x 4.75" PCD
432200	Plain Non-Galvanised	Disc hub Suit 13" & 14" Wheels	LM / slimline	HT Holden 5 x 4.25" PCD
432280	Hot dipped Galvanised	Disc hub Marine Suit 13" & 14" Wheels	Supplied with slimline cups & cones	HT Holden 5 x 4.25" PCD
432285	Hot dipped Galvanised	Disc hub Marine Suit 13" & 14" Wheels	Supplied with LM cups & cones	HT Holden 5 x 4.25" PCD
431200	Plain Non-Galvanised	Disc hub Suit 600x9 Wheels	LM	600 X 9" 5 x 4.25" PCD
432145	Zinc Plated	Disc hub Suit 16" Wheels	slimline	6 stud Land Cruiser 6 x 139.7mm (6 x 5.5")
442462	Plain Non-Galvanised	Hub parallel + Rotor Suit 16" Wheels	Parallel	6 stud Land Cruiser. Studs only 6 x 139.7mm (6 x 5.5")
432105	Plain Non-Galvanised	Disc rotor only	To suit 1.5 & 2 T hub	6 stud Land Cruiser 6 x 139.7mm (6 x 5.5")
432127	Zinc Plated	Disc hub Suit 16" Wheels	2T	6 stud Land Cruiser 6 x 139.7mm (6 x 5.5")

DISC HUB KITS GALVANISED (BOXED)



PART NO. OF BOXED KIT	FINISH	TYPE	BEARINGS FITTED	DETAILS
441290	Hot Dipped Galvanised	Disc hub Marine complete Suit 13" & 14" Wheels	LM	HT Holden 5 x 4.25" PCD Boxed kit complete with bearings, marine seal, dust cap, plated studs & nuts
441291	Hot Dipped Galvanised	Disc hub Marine complete Suit 13" & 14" Wheels	Slimline	HT Holden 5 x 4.25" PCD Boxed kit complete with bearings, marine seal, dust cap, plated studs & nuts
441292	Hot Dipped Galvanised	Disc hub Marine complete Suit 13" & 14" Wheels	LM	Ford 5 x 4.5" PCD Boxed kit complete with bearings, marine seal, dust cap, plated studs & nuts
441293	Hot Dipped Galvanised	Disc hub Marine complete Suit 13" & 14" Wheels	Slimline	Ford 5 x 4.5" PCD Boxed kit complete with bearings, marine seal, dust cap, plated studs & nuts

Helpful Hint:

Sometimes the capacity of a braked axle combination is limited by the power of the brake and not the carrying capacity of the axle.

HYDRAULIC 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.



MASTER CYLINDERS AND ADAPTORS

PART NO	DESCRIPTION
313001	Master cylinder 3/4"
313005	Master cylinder cap 3/4"
313003	Master cylinder adaptor 3/16" pipe
313007	Master cylinder 7/8" suit AL-KO coupling
313008	Master cylinder cap 7/8"
313011	Master cylinder 1" suit AL-KO coupling
313012	Master cylinder cap suit 1" master cylinder
313013	Master cylinder bowl suit 7/8" (does not include cap)



HOSES

PART NO	DESCRIPTION
313019	Hose hydraulic female-female fittings 3/8" UNF (38cm)
313020	Hose hydraulic male-male fittings 3/8" UNF (38cm)
313021	Hose hydraulic 3/8"UNF male-female fittings 15 1/4" (38cm)
312022	Hose clip chassis (wire type)
313025	Hose bracket ZP (L shape bolt on)
313026	Hose hydraulic 3/8"UNF male-female fittings (80cm)
313028	Hose clip (plate type P3052)
319102	Copper washer 16mm x 10mm x 3mm thick

HYDRAULIC ACTUATION EQUIPMENT



PIPING, TUBE NUTS AND FITTINGS

PART NO	DESCRIPTION
313017	Tubing Bundy 3/16" x 17"
313600	Tubing Bundy 3/16" x 6 metre coil
313030	Tube nut long 3/16" tube
313031	Tube nut short 3/16" tube
313032	Pipe joiner 3/16" tube
333333	Three way block 3/8" UNF
313042	Tubing Bundy 3/16" x 42 1/2"
313054	Tubing Bundy 3/16" x 54
313056	Tubing Bundy 3/16" x 56 1/2"
313066	Tubing Bundy 3/16" x 66
313068	Tubing Bundy 3/16" x 68 1/2"

AL-KO iQ7

AL-KO iQ7 – <http://www.alkoiQ7.com.au/>

Not all power assisted braking systems are the same. So when you're towing a large boat trailer, it pays to fit AL-KO iQ7. Only iQ7 stores compressed air within a pressure chamber, allowing immediate brake application the instant it is required. Other systems don't come close. And AL-KO iQ7 includes in-built breakaway technology to stop your trailer if it becomes detached from the tow vehicle. No other parts are required. The bottom line is you'll enjoy superior safety and peace of mind while knowing iQ7 is backed by AL-KO's global expertise and German engineering. For further information and to see a video of AL-KO iQ7 in action visit www.alkoiQ7.com.au. It is a legal requirement for trailers over 2 tonne GTM to include a power assisted braking application. Refer to Australian Design Rules for further information.

There are two models available:

- I **iQ7 XTREME** utilises its own in-car control system and has additional features for ultimate safety and performance. (Controller, mouse and pedal).
- I **iQ7** can be used with your existing approved electric brake controller.

Both models are also available in an 'Outback' version, providing dust protection in extreme conditions.

PART NO	DESCRIPTION
iQ7 XTREME	
355014A	iQ7 XTREME Full actuation kit Auto pedal
355014M	iQ7 XTREME Full actuation kit Manual pedal
356014A	iQ7 OUTBACK XTREME Full actuation kit Auto pedal
356014M	iQ7 OUTBACK XTREME Full actuation kit Manual pedal
355002	iQ7 XTREME Actuator only
355013A	iQ7 XTREME In car kit complete Auto pedal
355013M	iQ7 XTREME In car kit complete Manual pedal
iQ7	
355002EK	iQ7 Elec Kit incl actuator, wiring kit & Primus iQ
355002EKP2	iQ7 Elec Kit incl actuator, wiring kit & P2 Controller
355002EKP3	iQ7 Elec Kit incl actuator, wiring kit & P3 Controller
356002EK	iQ7 OUTBACK Elec Kit incl actuator, wiring kit & Primus iQ
356002EKP2	iQ7 OUTBACK Elec Kit incl actuator, wiring kit & P2 Controller
356002EKP3	iQ7 OUTBACK Elec Kit incl actuator, wiring kit & P3 Controller
355002E	iQ7 Actuator only Suit Electric Brake Controller
350018	iQ7 Wiring Kit for use with Motion Sensing Elec Brake Controller
333063	Tekonsha Primus IQ Electronic Brake Controller
Parts & Accessories	
350003	iQ7 wiring loom – suit XTREME Controller
355005	iQ7 XTREME Manual Brake pad
355006	iQ7 XTREME Auto Brake pad
355008	iQ7 XTREME Mouse Assembly
350045	iQ7 Bleed Gun assy
350148	iQ7 XTREME Brake Controller Assembly



XTREME Controller Mouse



XTREME Brake Pedal Pad



XTREME Electronic Controller Unit

Helpful Hint:

If drum brakes are being used a Residual Line Pressure Valve must be installed in the hydraulic line.

This must be located BEFORE any split in the hydraulic line immediately after or as close as practicable to the master cylinder port.

Residual Line Pressure Valves are available from brake specialists.

TRAILER HUBS AND BEARINGS

AL-KO manufacturer 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 such 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:

- I Total load you expect a pair of hubs to carry in kg.
- I Wheel bearing type to be fitted (LM, slimline, 1.5 t, etc). See page 59.
- I 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.



Helpful Hint:

Many customers prefer to purchase hubs with the bearing cups already fitted into the hub. These cupped hubs have specific part numbers.

Contact your nearest AL-KO office when ordering!

TRAILER HUBS

STANDARD HUB PART NO	MAXIMUM CAPACITY PER PAIR OF HUBS WITH LARGEST BEARING	AVAILABLE BEARING TYPES THAT CAN BE FITTED	FLANGE DIAMETER (NOMINAL)	HUB OUTER BOSS DIAMETER (NOMINAL)	POPULAR WHEEL DRILLING PATTERNS
441200	1450 kg	LM / Slimline	150mm	60.9mm	Ford 5 x 4.5" PCD
441213	1450 kg	LM / Slimline	150mm	60.9mm	Commodore 5 x 120mm PCD
441212	1450 kg	LM / Slimline	150mm	60.9mm	HQ Holden 5 x 4.75" PCD
441218	650 kg	LM	150mm	53.0mm	"Gemini/Honda 4 x 100mm PCD (Machined outer boss reduces rating)"
441215	1000 kg	LM	150mm	60.9mm	Datsun 4 x 4.5" PCD
441210	1450 kg	LM / Slimline	150mm	60.9mm	HT Holden 5 x 4.25" PCD
441219	1000 kg	LM	139.7mm	60.9mm	600 x 9 5 x 4.25" PCD
441100	1450 kg	LM / Slimline	150mm	60.9mm	undrilled
441217	1000 kg	LM	150mm	60.9mm	Mini 7/16 4 x 4" PCD
441211	1450 kg	LM / Slimline	150mm	60.9mm	Late Valiant 5 x 4.5" PCD
441221	1000 kg	LM	150mm	54mm	Camry 5 x 4.5" PCD
441220	1000 kg	LM	150mm	60.9mm	Cortina 4 x 4.25" PCD
441222	600 kg	LM	150mm	52mm	VW Golf 5 x 100mm PCD
441223	600 kg	LM	150mm	52.5mm	Barina/Lancer 4 x 100mm PCD
441119	1450 kg	LM / Slimline	139.7mm	60.9mm	undrilled
442200	1450 kg	Slimline	190mm	60.9mm	6 stud Land Cruiser/Nissan 6 x 139.7mm PCD
442212	1450 kg	Slimline	190mm	60.9mm	5 stud Land Cruiser 5 x 150mm PCD
442100	1450 kg	Slimline	190mm	60.9mm	Undrilled
442214	1450 kg	Slimline	190mm	60.9mm	Ford F100 5 x 5.5" PCD
442213	1450 kg	Slimline	190mm	60.9mm	Subaru 4 x 139.7mm PCD
443060	1450 kg	Slimline	215mm	105mm	Range Rover / LandRover Defender 6.5" PCD (5/8" wheel studs)
443050	1450 kg	Slimline	215mm	105mm	Undrilled
443055	1450 kg	Slimline	215mm	105mm	Land Rover 5 x 6.5" PCD
443200	1500 kg	1.5 tonne	205mm	105.5mm	6 stud Land Cruiser / Nissan 6 x 139.7mm PCD
443210	1500 kg	1.5 tonne	205mm	105.5mm	5 stud Land Cruiser 5 x 150mm PCD
443100	1500 kg	1.5 tonne	205mm	105.5mm	Undrilled

TRAILER HUBS

STANDARD HUB PART NO	MAXIMUM CAPACITY PER PAIR OF HUBS WITH LARGEST BEARING	AVAILABLE BEARING TYPES THAT CAN BE FITTED	FLANGE DIAMETER (NOMINAL)	HUB OUTER BOSS DIAMETER (NOMINAL)	POPULAR WHEEL DRILLING PATTERNS
443230	1500 kg	1.5 tonne	205mm	105.5mm	Land Rover/Defender 5 x 6.5" PCD
443240	1500 kg	1.5 tonne	205mm	85.8mm	Ford F100 5 x 5.5" PCD
443220	1500 kg	1.5 tonne	205mm	105.5mm	Land Rover 5 x 6.5" PCD
442455	1600 kg	Parallel	205mm	80mm	Undrilled
442460	1600kg	Parallel	205mm	80mm	6 stud Land Cruiser / Nissan 6 x 139.7mm PCD
442465	1600kg	Parallel	205mm	80mm	5 stud Land Cruiser 5 x 150mm PCD
442470	1500kg	Parallel	205mm	80mm	Ford 5 x 4.5" PCD
444200	2000 kg	2 tonne	205mm	105.5mm	6 stud Land Cruiser / Nissan 6 x 139.7mm PCD
444210	2000 kg	2 tonne	205mm	105.5mm	5 stud Land Cruiser 5 x 150mm PCD
444100	2000 kg	2 tonne	205mm	105.5mm	Undrilled
444230	2000 kg	2 tonne	205mm	105.5mm	Land Rover/Defender 5 x 6.5" PCD
444240	2000 kg	2 tonne	205mm	85.8mm	Ford F100 5 x 5.5" PCD
444220	2000 kg	2 tonne	205mm	105.5mm	Land Rover 5 x 6.5" PCD
445200	3000 kg	3 tonne	205mm	105.5mm	6 stud Land Cruiser/ Nissan 6 x 139.7mm PCD
445210	3000 kg	3 tonne	205mm	105.5mm	5 stud Land 5 x 150mm PCD
445100	3000 kg	3 tonne	205mm	105.5mm	Undrilled
445230	3000 kg	3 tonne	205mm	105.5mm	Land Rover/Defender 5 x 6.5" PCD
445240	3000 kg	3 tonne	205mm	85.8mm	Ford F100 5 x 5.5" PCD
445220	3000 kg	3 tonne	205mm	105.5mm	Land Rover 5 x 6.5" PCD
446100	3000 kg	3 tonne	10"	150mm	Undrilled
446200	3000 kg	3 tonne	10"	150mm	Bedford 6 x 205mm PCD

GALVANISED FINISH HUBS WITH BEARING CUPS FITTED

Where the high demand for corrosion protection is required such as marine trailer use, AL-KO has developed a range of hot dip galvanised trailer hubs. These hubs are supplied with zinc plated wheel studs and come complete with bearing cups fitted.

PART NO	MAXIMUM CAPACITY PER PAIR OF HUBS WITH FITTED BEARING CUPS	TYPE OF BEARING CUP FITTED	FLANGE DIAMETER (NOMINAL)	HUB OUTER BOSS DIAMETER (NOMINAL)	DRILLING PATTERNS
441205	1000kg	LM	150mm	60.9mm	HQ Holden 5 x 4.75" PCD
441206	1000kg	LM	150mm	60.9mm	HT Holden 5 x 4.25" PCD
441231	1000kg	LM	150mm	60.9mm	Ford 5 x 4.5" PCD
441204	1000kg	LM	150mm	60.9mm	Commodore 5 x 120mm
441121	1000kg	LM	140mm	60.9mm	600 x 9 5 x 4.25" PCD
441235	1450kg	Slimline	150mm	60.9mm	HQ Holden 5 x 4.75" PCD
441240	1450 kg	Slimline	150mm	60.9mm	HT Holden 5x 4.25" PCD
441245	1450kg	Slimline	150mm	60.9mm	Ford 5 x 4.5" PCD

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 SET				
	PART NO	MANUFACTURERS PART NUMBER	HOUSING DIAMETER NOMINAL	BEARING JOURNAL/SEAL JOURNAL DIAMETER NOMINAL
Inner bearing	491005 Japanese 491105 Chinese	LM67048/10 (Holden Inner)	59.10 mm	31.75mm
Outer bearing	491010 Japanese 491110 Chinese	LM11949/10 (Holden outer)	45.20 mm	19.05mm
Grease seal	491015	28550	59.10 mm	37.5mm
Grease cap	491020	DC1	45.20 mm	N/A

SLIMLINE BEARING SET				
	PART NO	MANUFACTURERS PART NUMBER	HOUSING DIAMETER NOMINAL	BEARING JOURNAL/SEAL JOURNAL DIAMETER NOMINAL
Inner bearing	492005 Japanese 491120 Chinese	L68149/10 (Ford inner)	59.10 mm	35.00mm
Outer bearing	492010 Japanese 491130 Chinese	LM12749/10 (Ford outer)	45.20 mm	22.00mm
Grease seal	492015	28600	59.10 mm	43.9mm
Grease cap	493020	DC1	45.20 mm	N/A

PARALLEL BEARING SET				
	PART NO	MANUFACTURERS PART NUMBER	HOUSING DIAMETER NOMINAL	BEARING JOURNAL/SEAL JOURNAL DIAMETER NOMINAL
Inner bearing	492005 Japanese 491120 Chinese	L68149/10	59.10 mm	35.00mm
Outer bearing	492005 Japanese 491120 Chinese	L68149/10	59.10 mm	35.00mm
Grease seal	492015	28600	59.10 mm	43.9mm
Grease cap	493020	DC2	63.00mm	N/A

BEARING DETAILS

1.5 TONNE BEARING SET				
	PART NO	MANUFACTURERS PART NUMBER	HOUSING DIAMETER NOMINAL	BEARING JOURNAL/SEAL JOURNAL DIAMETER NOMINAL
Inner bearing	492010 Japanese	LM29749/10	65.06mm	38.10mm
Outer bearing	491005 Japanese	LM67048/10	59.10mm	31.75mm
Grease seal	493015	30400	68.96mm	50.9mm
Grease cap	493020	DC2	63.00mm	N/A

2/2.5 TONNE BEARING SET				
	PART NO	MANUFACTURERS PART NUMBER	HOUSING DIAMETER NOMINAL	BEARING JOURNAL/SEAL JOURNAL DIAMETER NOMINAL
Inner bearing	494005 Japanese	HR30210	89.96mm	50.00mm
Outer bearing	494010 Japanese	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 SET				
	PART NO	MANUFACTURERS PART NUMBER	HOUSING DIAMETER NOMINAL	BEARING JOURNAL/SEAL JOURNAL DIAMETER NOMINAL
Inner bearing	494005 Japanese	HR30210	89.96mm	50.00mm
Outer bearing	493002 Japanese	LM29749/10	65.06mm	38.10mm
Grease seal	494015	64607	89.96mm	60.3mm
Grease cap	495020	DC3	76.00mm	N/A

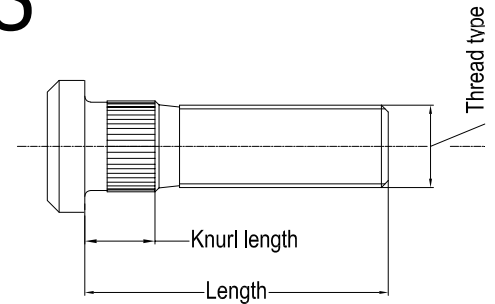
BEARING KITS

All kits are skin packed and barcoded.

PART NO	DESCRIPTION
482036	Trailer Bearing Kit, Chinese, Slimline
484005	Trailer Bearing Kit, Japanese, Slimline
482015	Trailer Bearing Kit, Chinese, LM
482005	Trailer Bearing Kit, Japanese, LM
484055	Marine Bearing Kit, Chinese, Slimline
484051	Marine Bearing Kit, Japanese, Slimline
482021	Marine Bearing Kit, Chinese, LM
482051	Marine Bearing Kit, Japanese, LM
484005	Caravan Bearing Kit, Japanese, Slimline
484501	Caravan Bearing Kit, Japanese, Parallel, 1,600kg/Pair
487001	Caravan Bearing Kit, Japanese, 2,00kg/Pair
487002M	Marine Bearing Kit, Japanese, 2,000kg/Pair

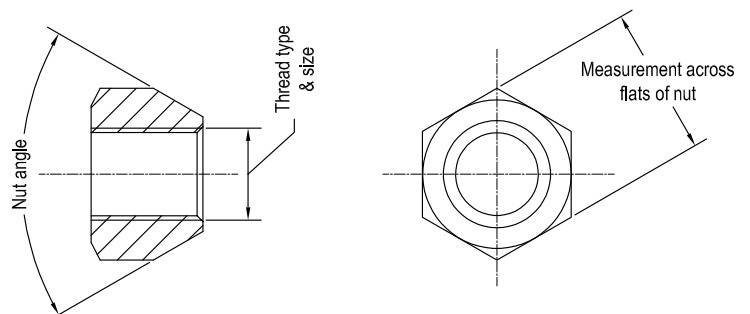
WHEEL STUDS & NUTS

AL-KO wheel studs are all fitted using a knurled section that 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	Plated 7/16" 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
490356	M12 short knurl	M12x1.5	40mm	13.5mm	5mm
490358	Plated M12 short knurl	M12x1.5	41mm	13.5mm	5mm
490340	M14 x 50mm short knurl	M14x1.5	50mm	15.5mm	11mm
490342	M14 x 55mm long knurl	M14x1.5	55mm	15.5mm	11mm
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	M14 x 1.5	-	-	-
490500	5/8" UNF short knurl	5/8" UNF	51mm	17.5mm	12mm
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 NO	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")

COUPLINGS

The coupling is the vital link that joins the trailer to the towing vehicle.

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

To select a suitable coupling, consider the following:

- I What types of brakes are being used?
- I What is the maximum total loaded weight of the trailer planned to be?
- I Can I use a 50 mm ball or do I need a ring type attachment?
- I Is there a need for a specific application? Eg. anti-sway, off road, commercial?

Trailer couplings comprise some specific groups based on their planned usage.

FIXED COUPLINGS

This style of coupling, usually suited to a 50mm Australian Standard tow ball, is 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.

AL-KO couplings are simple to attach to the towball and provide safe secure attachment of the trailer to the tow vehicle.

Typical applications for domestic trailers are up to 750 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 marine trailers over 2000 kg ATM (total loaded mass), a fixed coupling is the appropriate selection. Fixed couplings for 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.



616260

PART NO	DESCRIPTION	SUITS TOW BALL SIZE	MOUNTING HOLE (LXW) AND DIAMETER	SURFACE FINISH	BALL TO FIRST CENTRE HOLE (NOMINAL)
616200	750 kg AK7 Pressed Metal (to suit 50mm drawbar)	50mm	90mm x 12.2mm	Zinc plated	110mm
616260	750 kg AK7 Pressed Metal (to suit 60mm drawbar)	50mm	90mm x 12.2mm	Zinc plated	110mm

Helpful Hint:

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



614062

PART NO	DESCRIPTION	SUITS TOW BALL SIZE	MOUNTING HOLE (LXW) AND DIAMETER	SURFACE FINISH	BALL TO FIRST CENTRE HOLE (NOMINAL)
614062	2000 kg Snap On with Ball Adjust (2 hole)	50mm	101.6mm x 13.5mm	Painted	77mm
614062PL	2000 kg Snap On with Ball Adjust (2 hole)	50mm	101.6mm x 13.5mm	Zinc plated	77mm
614070PL	2000 kg Snap On with Ball Adjust (3 hole)	50mm	111.1mm x 51mm x 13.5mm	Zinc plated	67mm



614010PL

PART NO	DESCRIPTION	SUITS TOW BALL SIZE	MOUNTING HOLE (LXW) AND DIAMETER	SURFACE FINISH	BALL TO FIRST CENTRE HOLE (NOMINAL)
614010PL	3500 kg Fixed – Electric	50mm	182.5mm x 55mm x 13.5mm	Zinc plated	128mm
614010PLWCA	3500 kg Electric with Cable Adjuster Fitted	50mm	182.5mm x 55mm x 13.5mm	Zinc	128mm
614010PLM	3500 kg Electric (Marine Version – No handbrake)	50mm	182.5mm x 55mm x 13.5mm	Zinc plated	128mm



PART NO	DESCRIPTION	SUITS TOW BALL SIZE	MOUNTING HOLE (LXW) AND DIAMETER	SURFACE FINISH	BALL TO FIRST CENTRE HOLE (NOMINAL)
614015PB	Premium 3500kg Electric includes Premium park brake	50mm	182.5mm x 55mm x 13.5mm	Zinc plated	128mm
614015PBWCA	Premium 3500kg Electric includes Premium park brake with cable adjuster fitted	50mm	182.5mm x 55mm x 13.5mm	Zinc plated	128mm

COUPLINGS

OVERRIDE OR OVERRUN BRAKE COUPLINGS

On trailers between 750 kg and 2000 kg total laden mass, braking systems that use an override principal are acceptable, as long as they provide adequate braking for the trailer and tow vehicle combination.

The principal 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) or acts on a linkage connected to a hydraulic cylinder providing hydraulic pressure to a braking system (hydraulic brakes).

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, impeding the brake performance.



614040PL

OVERRIDE TYPE (LESS TOW BALL)

PART NO	DESCRIPTION	SUITS TOW BALL SIZE	MOUNTING HOLE (LXW) AND DIAMETER	SURFACE FINISH	BALL TO FIRST CENTRE HOLE (NOMINAL)
614020PL	1000 kg Hydraulic Override with 3/4" master cylinder conversion	50mm	184mm x 54mm x 13.5mm	Zinc plated	137mm
614040PL	2000 kg Hydraulic Override with 3/4" master cylinder conversion	50mm	184mm x 54mm x 13.5mm	Zinc plated	137mm
614042PL	2000 kg Hydraulic Override with 7/8" master cylinder conversion	50mm	184mm x 54mm x 13.5mm	Painted	137mm
614044PL	2000 kg Hydraulic Override with 1" master cylinder conversion	50mm	184mm x 54mm x 13.5mm	Painted	137mm
614027PL	1000 kg Mechanical Override no plate	50mm	184mm x 54mm x 13.5mm	Zinc plated	137mm
614054PL	2000 kg Mechanical Override no plate	50mm	184mm x 54mm x 13.5mm	Zinc plated	137mm
614050PL	2000 kg Mechanical Override with plate	50mm	184mm x 54mm x 13.5mm	Zinc plated	137mm



610943

HYDRAULIC CONVERSIONS

PART NO	DESCRIPTION	SURFACE FINISH
610949	Hydraulic Conversion S'Assy – less cylinder	Zinc plated
610943	Hydraulic Conversion with 3/4" master cylinder	Zinc plated
610944	Hydraulic Conversion with 7/8" master cylinder	Zinc plated
610959	Hydraulic Conversion with 1" master cylinder	Zinc plated



BRAKE PLATES

PART NO	DESCRIPTION	MOUNTING HOLE (LXW) AND DIAMETER	SURFACE FINISH
614051	Mechanical Override – brake plate only	184mm x 54mm x 13.5mm	Zinc Plated
614052	Mechanical Override – brake plate only (marine style)	184mm x 54mm x 13.5mm	Painted

RING TYPE / COUPLING PARK MECHANISMS

RING TYPE COUPLINGS

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

This style of coupling is similar in function to ball type couplings (fixed and over ride) but instead of the connection to the tow vehicle being a standard 50 mm ball, the connection is a 75 mm inside diameter ring and this attaches to a “pintle hook” fitted to the tow vehicle.

These types of couplings are primarily 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.



75mm Ring type

75MM RING TYPE

PART NO	DESCRIPTION	MOUNTING HOLE (LXW) AND DIAMETER	SURFACE FINISH	CENTRE OF RING TO FIRST CENTRE HOLE (NOMINAL)
614090	2000 kg Hydraulic Override with 3/4" master cylinder conversion	184mm x 54mm x 13.5mm	Painted	138mm
614092	2000 kg Hydraulic Override with 7/8" master cylinder conversion	184mm x 54mm x 13.5mm	Painted	138mm
614094	2000 kg Hydraulic Override with 1" master cylinder conversion	184mm x 54mm x 13.5mm	Painted	138mm
614095	3000 kg Mechanical Override – no brake plate	184mm x 54mm x 13.5mm	Zinc Plated Body	138mm
614096	2000 kg Mechanical Override – no brake plate	184mm x 54mm x 13.5mm	Painted	138mm
614098	2000 kg Mechanical Override with brake plate	184mm x 54mm x 13.5mm	Painted	138mm
614124	3000 kg Hydraulic Ring Override with 1" master cylinder conversion	184mm x 54mm x 13.5mm	Zinc Plated Body	138mm
614128	3000 kg Mechanical Ring Override with brake plate	184mm x 54mm x 13.5mm	Zinc Plated Body	138mm
614097	Coupling Ring – Anti Swivel Plate*	184mm x 54mm x 13.5mm	Painted	138mm

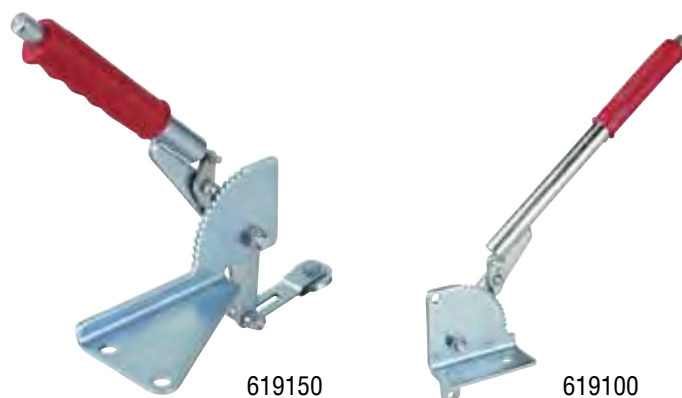
***This anti swivel plate should be used to restrict the rotation of the ring to prevent “Lock Up”. (Talk to your AL-KO customer service personnel).**



614310

PINTLE HOOKS

PART NO	DESCRIPTION
614310	Pintle Hook & Ball Combination – 6 Tonne hook & 3.5 Tonne Ball
614312	Pintle Hook 10 Tonne



619150

619100

PARK BRAKE MECHANISM

PART NO	DESCRIPTION	MOUNTING STYLE
619100	Mechanical Park Brake Mechanism 400mm	Requires separate mounting
619150	Mechanical Park Brake Mechanism 280mm	Mounts under rear of coupling bolts
619125	Mechanical Park Brake Mechanism 315mm – Suits 614015PB and 614015PBWCA Couplings	Mounts on top of one rear coupling mount bolt

ANTI-SWAY TYPE / FIXED & SWIVEL RING TYPE

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 50 mm tow ball 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 a benefit 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. Refer to www.alko.com.au for care and operating instructions.

ANTI-SWAY TYPE

PART NO	DESCRIPTION	MOUNTING HOLE (LXW) AND DIAMETER	SURFACE FINISH	BALL TO FIRST CENTRE HOLE (NOMINAL)
618304	AKS 3004 Stabilizer Kit – (special anti-rotation AL-KO towball, towbar adapter included) max trailer weight 2500kg	184mm x 54mm x 13.5mm	Zinc plated	203mm

PART NO	DESCRIPTION
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	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



RING TYPE COUPLINGS

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

This style of coupling is similar in function to ball type couplings (fixed and over ride) but instead of the connection to the tow vehicle being a standard 50 mm ball, the connection is a 75 mm inside diameter ring and this attaches to a "pintle hook" fitted to the tow vehicle. These types of couplings are primarily 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.



FIXED RING TYPE

PART NO	DESCRIPTION	MOUNTING HOLE (LXW) AND DIAMETER	SURFACE FINISH	RING CENTRE TO FIRST MOUNTING HOLE (NOMINAL)
614304	3500kg 75mm Fixed Ring	103mm x 56mm x 16.8mm	Zinc plated	86mm
614309	6000kg 75mm Fixed Ring	182mm x 52mm x 16.8mm	Zinc plated	116mm

OFF-ROAD COUPLINGS

When a coupling is used for rough off-road use the Australian Standard degree of articulation (or angles of available movement) may be insufficient. AL-KO has solved this problem with the AL-KO Off Road Coupling. When off-road 4WD vehicles tow trailers in rugged outback conditions it is advisable that a coupling specifically designed to have greater angular movement is used.

The AL-KO Off Road Coupling with 360 degree articulation and positive towball latching system offer the maximum degree of articulation as well as a design that has been tested to 2 million fatigue test cycles, so you know that it will pass all tests.

AL-KO has a range of suitable "off-road" couplings in both fixed and override functions to provide the appropriate articulation for this use. As this is a specific application we suggest you contact your nearest AL-KO customer service officer for specific advice.



OFF ROAD COUPLING 50MM BALL TYPE

PART NO	DESCRIPTION	SUITS TOW BALL SIZE	MOUNTING HOLE (LXW)	SURFACE FINISH
619000	AL-KO Off Road Coupling 50mm Fixed 3.5 tonne suit Electric Brakes	50mm	184 x 54mm	Zinc Plate
619010	AL-KO Off Road Coupling 50mm Fixed 2 tonne suit Electric Brakes	50mm	184 x 54mm	Zinc Plate
619050	AL-KO Off Road Coupling 50mm Fixed 2 tonne suit Override Brakes	50mm	184 x 54mm	Zinc Plate
619931SP	AL-KO Off Road Coupling Lock Ring – Skin Pack			
614051	Park Brake Lever for Off Road Coupling			

Refer to the Technical Bulletin section of the AL-KO website www.alko.com.au for fitment suitability.

LANDING LEGS

The AL-KO Landing Leg is the latest addition to AL-KO's extensive range of quality trailer components.

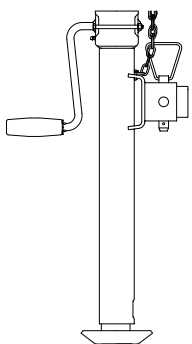
Ideal for stabilising plant trailers, camper trailers, 5th wheeler caravans and agricultural equipment, the AL-KO Landing Leg is a necessary inclusion to the toolkit of the commercial contractor, farmer and camping enthusiast alike. All bases are covered with the AL-KO range of Landing Legs, with static 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.

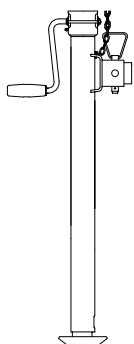
An AL-KO Landing Leg can also be fitted to another brands existing mounting kit. The AL-KO Landing Leg is your ideal choice when looking to safely and efficiently stabilise your trailer, camper, 5th wheeler caravan or agricultural machinery.



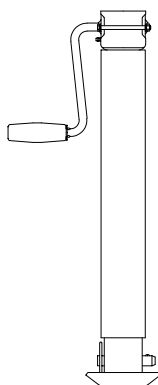
PART NO.	OUTER TUBE MM ²	TUBE MOUNT FITTED	WEIGHT KG	STATIC LOAD CAPACITY KG	SURFACE FINISH	SCREW STROKE MM	A1 MM	A2 MM	B MM	C MM	D MM
622057	Round Ø 57.5	Yes	6.7	1,300	Zinc Plated	400	550	900	400	167	118
622057L	Round Ø 57.5	Yes	9.1	1,300	Zinc Plated	380	1060	1440	910	167	118
622070	Square 70.0 with drop down leg	No	11.8	1,500	Zinc Plated	680	595	1275	-	167	118
622071	Square 70.0	No	9.9	2,000	Zinc Plated	360	580	940	-	167	118
622071WTM	Square 70.0	Yes	10.4	2,000	Zinc Plated	360	580	940	430	167	118
622110	Square 110.0	No	32.9	4,500	Zinc Plated	585	690	1275	-	326	250
622000	Chassis mount & tube bracket kit				Zinc Plated						



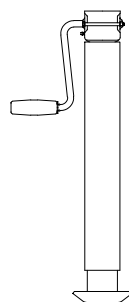
622057



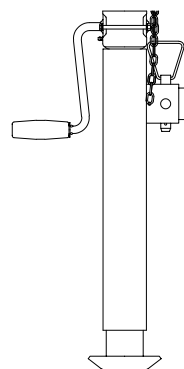
622057L



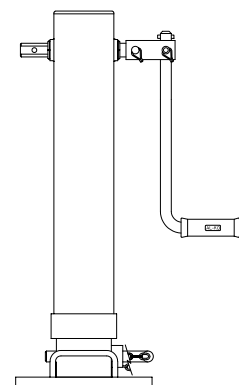
622070



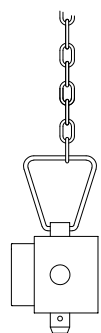
622071



622071WTM



622110



622000

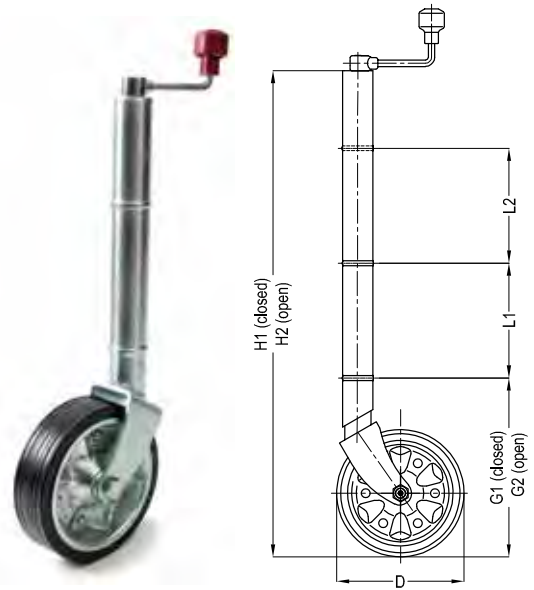
JOCKEY WHEELS

The high class range of standard solid tyre jockey wheels are available with and without standard clamps.

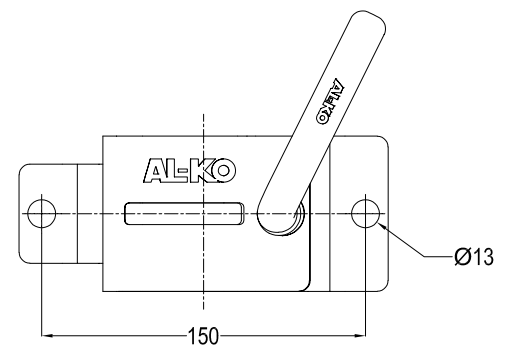
This style of general purpose jockey wheel is suitable for most trailer/caravan applications.

For soft ground surfaces we suggest a large diameter jockey wheel.

PREMIUM JOCKEY WHEELS (JW) WITH AND WITHOUT CLAMPS



PART NO	CODE NO	DESCRIPTION	WEIGHT (KG)	SURFACE FINISH	STATIC CAPACITY (KG)	OUTER TUBE DIAMETER	D (MM) (NOMINAL)	H (MM)	H2	G1	G2	L1
626100	JW6	J/Wheel 150mm (6") with clamp	5.5	Zinc Plated	400kg	48mm	150	507	772	202	467	182
626600	JW6X	J/Wheel 150mm (6") no clamp	4.5	Zinc Plated	400kg	48mm	150	507	772	202	467	182
628100	JW200	J/Wheel 200mm (8") with clamp	7	Zinc Plated	400kg	48mm	200	567	832	262	522	182
628600	JW200X	J/Wheel 200mm (8") no clamp	6	Zinc Plated	400kg	48mm	200	567	832	262	527	182
628325	JW200EH	J/Wheel 200mm (8") extra height with clamp	7	Zinc Plated	400kg	48mm	200	730	995	370	635	132
623650	JW250	J/Wheel 250mm (10") solid tyre with clamp	9	Zinc Plated	400kg	48mm	250	635	885	325	575	180
627600	JW200HDX	J/Wheel 200mm (8") Heavy Duty (weld on) no clamp	9	Zinc Plated	400kg	60mm	200	700	950	N/A	N/A	N/A



CLAMPS

PART NO	DESCRIPTION	WEIGHT (KG)	SURFACE FINISH	OUTER TUBE DIAMETER
629900	Clamp – Weld on - bolt on	1	Zinc Plated	48mm
629915	Clamp – Extra wide*	1.5	Zinc Plated	48mm
622200	Clamp – Cast base - bolt on	1	Zinc Plated	48mm

*Using the premium extra wide clamp on the premium jockey wheel range increases the jockey wheel static capacity. Please ask AL-KO customer service staff for further details.

JOCKEY WHEELS

PREMIUM JOCKEY WHEEL WITH LOCKING PIN SWIVEL BRACKET (SLS AND SL)

Ease of use is the benefit when selecting an AL-KO Swivel Bracket Jockey Wheel. No need to remove it from the trailer - just pull the release handle and the jockey wheel rotates into a suitable travelling position. This unique design is covered by Registered Design in Australia and New Zealand. The swivel bracket can be either welded or bolted to the drawbar. A selection of mounting holes allows the use of u-bolts to attach the jockey wheel to the trailer drawbar. Ideal for marine use.

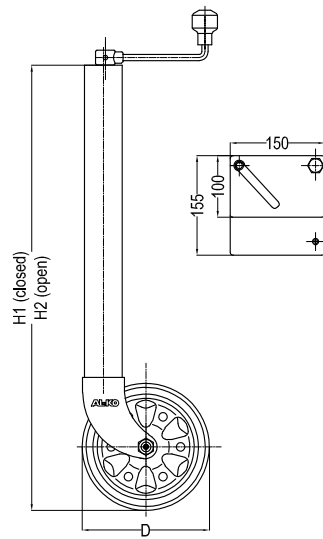
PART NO	CODE NO	DESCRIPTION	WEIGHT (KG)	SURFACE FINISH	STATIC CAPACITY (KG)	OUTER TUBE DIAM.	D (MM)	H (MM)		G
								H1	H2	G1
626200	JW6SL	J/Wheel 150mm (6") lock pin swivel large bracket	7	Zinc Plated	400	48	150	510	760	300
626204	JW6SLS	J/Wheel 150mm (6") lock pin swivel small bracket	7	Zinc Plated	400	48	150	510	760	300
628200G	JW200SL	J/Wheel 200mm (8") lock pin swivel large bracket	8.5	Hot dipped Gal/Dac	400	48	200	570	820	310
628204	JW200SLS	J/Wheel 200mm (8") lock pin swivel small bracket	8.5	Zinc Plated	400	48	200	570	820	310
628200 XP3	JW200SL	J/Wheel 200mm (8") 3 bolt lock pin swivel small bracket	8.5	Zinc Plated	400	48	200	570	820	310
623660 XP3	JW250SL	J/Wheel 250mm (10") 3 bolt lock pin swivel small bracket	11	Zinc Plated	400	48	200	630	880	320

PREMIUM JOCKEY WHEELS (JW) WITH WELD ON SWIVEL PLATE (SPW)

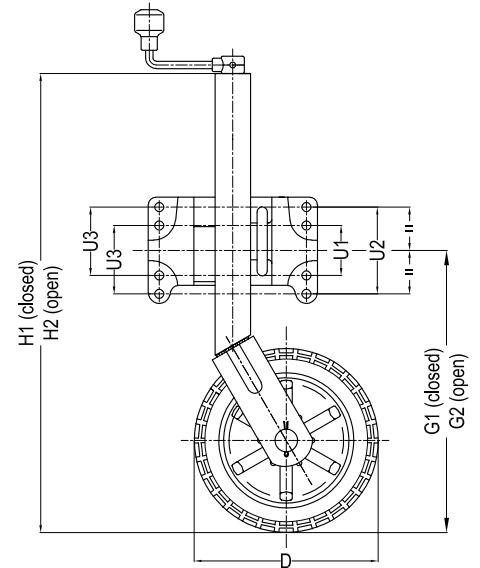
PART NO	CODE NO	DESCRIPTION	WEIGHT (KG)	SURFACE FINISH	STATIC CAPACITY (KG)	OUTER TUBE DIAM.	D (MM)	H (MM)	
								H1	H2
627400	JW200HDSPW	J/Wheel 200mm (8") Heavy duty with swivel plate (weld on – supplied loose)	12.2	Zinc Plated	400	60mm	200	700	950



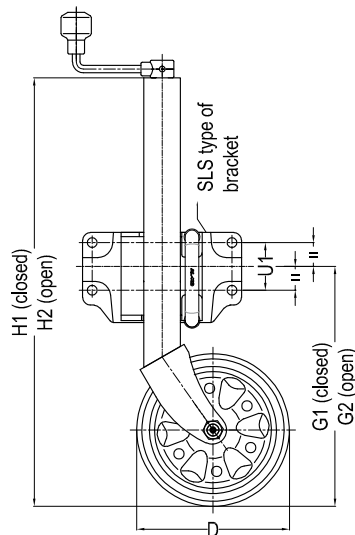
[MM]	U [MM] HOLE SIZE (Ø14)		
G2	U1	U2	U3
FOR DRAW BAR DEPTH			
	50MM	100MM	75MM
525	63	113	88
525	63	-	-
560	63	113	88
560	63		
560	63		
570	63		



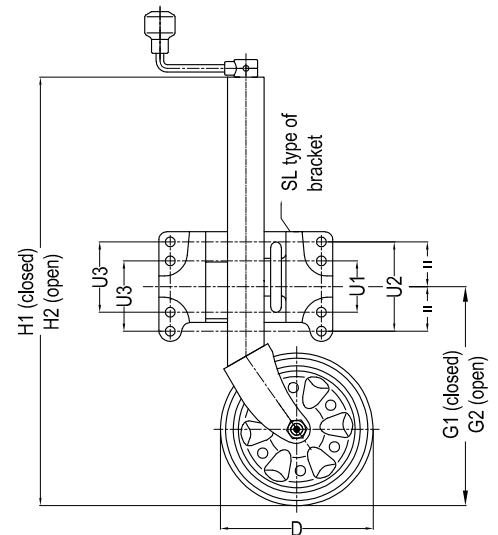
JW with Weld on Swivel Plate



JW250 with SL type bracket



JW with SLS type of bracket



JW with SL type of bracket

Helpful Hint:

Use a large wheel for soft ground !

JOCKEY WHEELS

TRAILTECH JOCKEY WHEELS CLAMP STYLE

This range of standard solid tyre jockey wheels are lighter duty than our premium range.



PART NO	CODE NO	DESCR.	WEIGHT (KG)	SURFACE FINISH	STATIC CAPACITY (KG)	OUTER TUBE DIAM.	D (MM) (NOM.)	H (MM)	H2	G1	G2	L1
626030	JW6P	Trailtech J/Wheel 150mm (6") no clamp	3	Zinc Plated	350kg	48mm	150	520	770		500	180
626050	JW6LDR	Trailtech J/Wheel 150mm (6") with clamp	5	Zinc Plated	350kg	48mm	150	510	760	202	457	180
629250TT	JW250TT	Trailtech J/Wheel 250mm (10") solid tyre with clamp	8	Zinc Plated	350kg	48mm	245	635	885	325	575	180
629250GTT	JW250GTT	Trailtech J/Wheel 250mm (10") solid tyre with clamp	9	Hot Dipped Gal/Dac	350kg	48mm	245	635	885	325	575	180

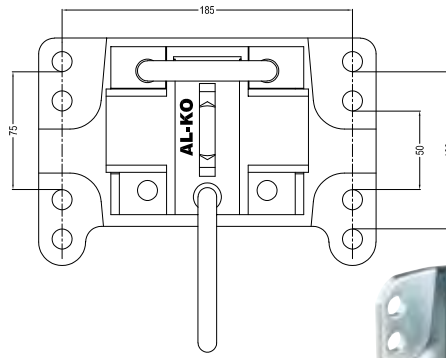
TRAILTECH JOCKEY WHEELS SWIVEL STYLE

This range of standard solid tyre jockey wheels are lighter duty than our premium range.



PART NO	CODE NO	DESCRIPTION	WEIGHT (KG)	SURFACE FINISH	STATIC CAPACITY (KG)	OUTER TUBE DIAM.	D (MM)	H (MM)		G [MM]		U [MM] HOLE SIZE (Ø14)		
								H1	H2	G1	G2	U1	U2	U3
														FOR DRAW BAR DEPTH
						50MM	100MM	75MM						
626190	JW6LDSL	Trailtech J/ Wheel 150mm (6") lock pin swivel large bracket	6.75	Zinc Plated	350kg	48mm	150	510	760	310	560	63	113	88
626190G	JW6LDSL	Trailtech J/ Wheel 150mm (6") lock pin swivel large bracket	6.5	Hot Dipped Gal/Dac	350kg	48mm	200	510	760	310	560	63	113	88
628200SLTT	JW200SLTT	Trailtech J/ Wheel 200mm (8") lock pin swivel large bracket	7.5	Zinc Plated	350kg	48mm	200	570	820	310	560	63	113	88
628200SLGTT	JW200SLTT	Trailtech J/ Wheel 200mm (8") lock pin swivel large bracket	8.5	Hot Dipped Gal/Dac	350kg	48mm	200	570	820	310	560	63	113	88
629250SLTT	JW250SLTT	Trailtech J/ Wheel 250mm (10") lock pin swivel large bracket	10.5	Zinc Plated	350kg	48mm	245	630	880	395	645	63	113	88
629250SLGTT	JW250SLGTT	Trailtech J/ Wheel 250mm (10") lock pin swivel large bracket	11	Hot Dipped Gal/Dac	350kg	48mm	245	630	880	395	645	63	113	88

JOCKEY WHEELS



ADJUSTABLE SWIVEL BRACKETS

This unique swivel bracket is designed to fit 48mm outer tubes, allowing you to adjust the height position and also enables you to swivel the jockey wheel for travel. This unique design is covered by Registered Design in Australia and New Zealand.

PART NO	CODE NO	DESCRIPTION	WEIGHT (KG)
629935	SBPLA	Adjustable swivel jockey wheel bracket	3.3

FIXED SWIVEL BRACKETS

Swivel brackets are supplied loose and the Jockey wheel welds to the bracket.

PART NO.	CODE NO.	DESCRIPTION	WEIGHT KG	SURFACE FINISH	STATIC CAPACITY (KG)	OUTER TUBE DIAMETER	U1 [MM]	U2 [MM]	U3 [MM]	U [MM] HOLE SIZE
629920	SBLP	Swivel bracket large	2.5	Zinc Plated	400	48mm	63	113	88	14
629944	SBLPS	Swivel bracket small	2.45	Zinc Plated	400	48mm	63	-	-	14
629923		Swivel bracket 3 bolt large	2.65	Zinc Plated	400	48mm	63	113	88	14

POWER MOVER

The AL-KO Power Mover is the easy & convenient way to move any caravan or trailer without back breaking effort. The ratchet drive mechanism of the AL-KO Power Mover is strong enough to move the caravan or trailer even up small inclines.

For correct use, please refer to the operating instructions at www.alko.com.au



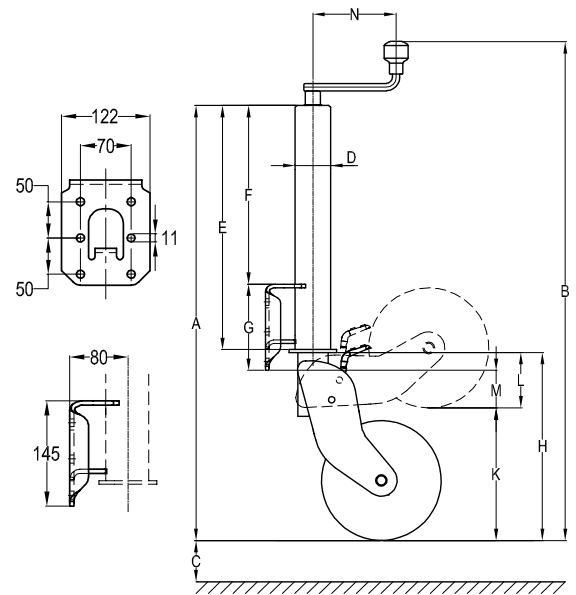
PART NO.	CODE NO.	DESCRIPTION	WEIGHT (KG)	STATIC CAPACITY (KG)	DYNAMIC CAPACITY (KG)	D (MM) (NOMINAL)	H (MM)	H2	G1	G2	L1	L2
621250	JW250R	J/Wheel 250mm (10") solid tyre Power Mover with clamp	14.7	350	150	245	625	875	335	585	85	85

JOCKEY WHEELS

AUTO RETRACT JOCKEY WHEELS

AL-KO produce a couple of heavy duty Auto Retract Jockey Wheels for heavier applications. Winding the handle automatically retracts the wheel and fork to a travelling position.

500KG



PART NO.	CODE	DESCRIPTION	STATIC LOAD MAX	DYNAMIC LOAD MAX	SURFACE FINISH	MOUNTING BRACKET	DIM. A		DIM. B
							MIN	MAX	MIN
622455	JWSA500	J/Wheel 200mm (8") Semi-auto retract	500 kg	300 kg	Gal/ Zinc Plated	Supplied to outer tube	730	975	840

DIM. C (MAX TRAVEL)	DIM. D (OUTER TUBE DIAMETER)	DIM. E	DIM. F	DIM. G	DIM. H	DIM. K	DIM. L	DIM. M (MIN MM)	DIM. N	APPROX WEIGHT
245mm	60mm	410mm	300mm	145mm	330mm	235mm	90mm	75mm	140mm	10kg

800KG



PART NO.	CODE	DESCRIPTION	STATIC LOAD MAX	SURFACE FINISH	DIM. A		DIM. B TUBE Ø	
622800	JWA800	J/Wheel 260mm auto retract	800 kg	Hot Dip Gal	830	Supplied welded		73.5

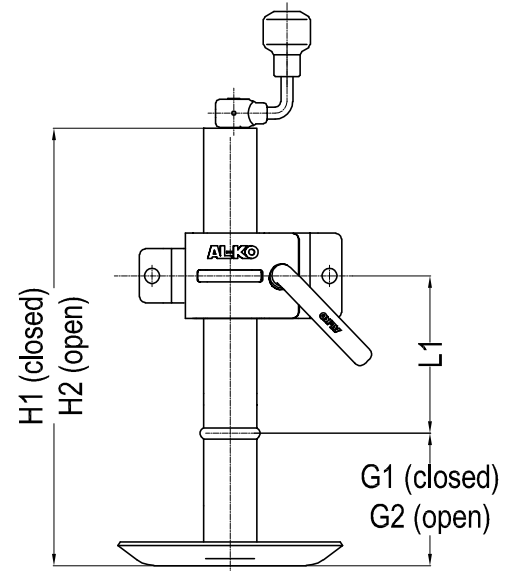
DIM. C MAX TRAVEL	DIM. D	DIM. E	DIM. F	APPROX. WEIGHT (KG)
300	450	250	190	15

JOCKEY WHEELS

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.



PART NO	CODE NO	DESCRIPTION	WEIGHT (KG)	SURFACE FINISH	STATIC CAPACITY (KG)	OUTER TUBE DIAMETER	H1	H2	G1	G2	L1
622114	AS14	Adjustable stand 14" complete with clamp	4.5	Zinc plated	400	48mm	375	625	70	320	185
622120	AS20	Adjustable stand 20" complete with clamp	5	Zinc plated	4000	48mm	515	765	160	410	132
622127	AS27	Adjustable stand 27" complete with clamp	6	Zinc plated	400	48mm	695	945	360	610	132

SPARE PARTS

AL-KO can supply a large range of spare parts for our range of jockey wheels and stands.



PART NO	CODE NO	DESCRIPTION
629900	C	Clamp
629915	CW	Premium Wide Clamp
629950	CEL	Clamp extra length handle
629100	JRTH	Jockey wheel traction handle to
629600	W6	Wheel 6"
629800	W8	Wheel 8"
629888	W200S	Wheel 200 steel rim
629850	W250	Wheel 250mm Solid tyre
629601	JRH6	Jockey wheel handle (suit grub screw type)
629610	JRH6SP	Jockey wheel handle (suit grub screw type) skin pack
629625	JRH6P	Jockey wheel handle (suit pin type)
629626	JRH6PSP	Jockey wheel handle (suit pin type) skin pack
629701	JRH8HD	Jockey wheel handle (to suit JWHD)
629951	JRCH	Jockey wheel clamp handle
629951SP	JRCHSP	Jockey wheel clamp handle skin pack
629602	JRTB	Thrust bearing
629602SP	JRTBSP	Thrust bearing Skin pack
629206	JRSSL	Spring (to suit locking pin)
629506	JRSSH	Spring (to suit locking pin heavy duty)
629607	JRAB6	Axle bolt (to suit JW6) with Nyloc
629807	JRAB8	Axle bolt (to suit JW200) with Nyloc

AL-KO provides the following U bolt kits for fixing our range of swivel locking pin jockey wheels to standard drawbar sizes:

626260		U Bolt kit (skinpack) to suit swivel jockey wheels -suit drawbar 100 x 50
626262		U Bolt kit (skinpack) to suit swivel jockey wheels – suit drawbar 75 x 50

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.

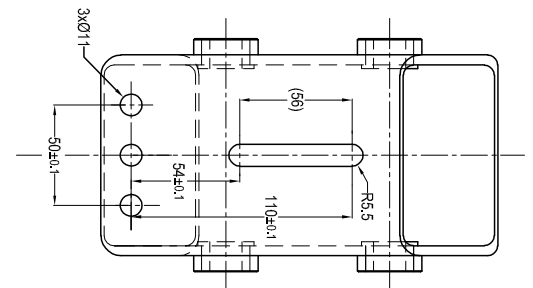


635005W

The AL-KO winches are covered by registered design.

PART NO	MODEL NO	RATED LINE PULL CAPACITY	GEAR RATIO	"S" HOOK / SNAP HOOK	CABLE LENGTH	WEBBING LENGTH	HANDLE LENGTH	APPROX. WEIGHT
635001W	WPM250W	250 kg	1:1	"S" Hook		50mm x 4m	190mm	3.4 kg
635003	WPM500	500 kg	3:1 1:1	"S" Hook	4mm x 6m		190mm	4.1 kg
635003W	WPM500W	500 kg	3:1 1:1	"S" Hook		50mm x 4m	190mm	3.9 kg
635005	WPM700	700 kg	5:1 1:1	Snap hook	5mm x 6m		190mm	6.9 kg
637002	WPM700S	700kg	5:1 1:1	"S" Hook	5mm x 6m		190mm	6.9kg
635005W	WPM700W	700 kg	5:1 1:1	Snap hook		50mm x 6m	190mm	6.8 kg
635010	WPM1000	1000 kg	10:1 5:1 1:1	Snap hook	6mm x 7.5m		190mm	8.6 kg
635010W	WPM1000W	1000 kg	10:1 5:1 1:1	Snap hook		50mm x 7.5m	190mm	8.1 kg
635015	WPM1200	1200 kg	15:1 5:1 1:1	Snap hook	6mm x 7.5m		190mm	8.7 kg
635015W	WPM1200W	1200 kg	15:1 5:1 1:1	Snap hook		50mm x 7.5m	190mm	8.2 kg

PREMIUM MARINE WINCH SPARE PARTS



Base/ Mounting Details

PART NO.	TYPE	TO SUIT WINCHES	DIMENSIONS	FITTING
632950	Winch cable	1:1 and 3:1	4mm x 6m	"S" hook
632970	Winch cable	5:1	5mm x 6m	Snap hook
632990	Winch cable	10:1 and 15:1	6mm x 7.6m	Snap hook
632923	Winch webbing	1:1 and 3:1	50mm x 4m	"S" hook
632920	Winch webbing	5:1	50mm x 6m	Snap hook
632922	Winch webbing	10:1 and 15:1	50mm x 7.5m	Snap hook
635905	Winch Handle	All premium winches	190mm	

Other spare parts available on request.

WINCHES

TRAILER WINCHES

The AL-KO Trailer Winches come in 3 capacities – 250 kg, 500 kg and 700 kg.

This range of AL-KO Trailer Winches are single ratio and are fitted with a fixed handle. These winches are well suited for most trailer applications. The strong enclosed construction ensures high resistance to distortion and the frame and most components are zinc plated for corrosion resistance.

The bolt hole patterns suit most existing trailer mounts.

The AL-KO winches are covered by registered design.



632120

PART NO	MODEL NO	RATED LINE PULL CAPACITY	GEAR RATIO	"S" HOOK / SNAP HOOK	CABLE LENGTH	WEBBING LENGTH	HANDLE LENGTH	APPROX. WEIGHT
632120		250 kg	1:1	"S" Hook	4mm x 6m			3.0 kg
636003	WT500	500 kg	3:1	"S" Hook	4mm x 6m		190mm	4.0 kg
636003W	WT500W	500 kg	3:1	"S" Hook		50mm x 4m	190mm	3.8 kg
636005	WT700	700 kg	5:1	Snap hook	5mm x 6m		230mm	6.8 kg
636005W	WT700W	700 kg	5:1	Snap hook		50mm x 6m	230mm	6.7 kg

WINCH SPARE PARTS

PART NO	TYPE	TO SUIT WINCHES	DIMENSIONS	FITTING
632950	Winch cable	1:1 and 3:1	4mm x 6m	"S" hook
632970	Winch cable	5:1	5mm x 6m	Snap hook
632990	Winch cable	10:1 and 15:1	6mm x 7.6m	Snap hook
632923	Winch webbing	1:1 and 3:1	50mm x 4m	"S" hook
632920	Winch webbing	5:1	50mm x 6m	Snap hook
632922	Winch webbing	10:1 and 15:1	50mm x 7.5m	Snap hook

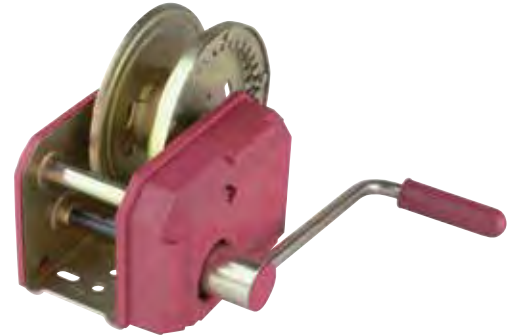
Other spare parts available upon request

WINCHES

AL-KO SAFETY WINCHES (LESS CABLE)

The AL-KO range of safety winches provide the muscle that ensures problems in lifting, lowering, manoeuvring or positioning heavy loads are a thing of the past. Whether it's caravans on boggy ground, boat trailers up ramps, irrigation pumps up riverbanks, rubble sliding up scaffolding, erecting lighting towers on highways, etc - whatever the task there is an AL-KO winch to match the job.

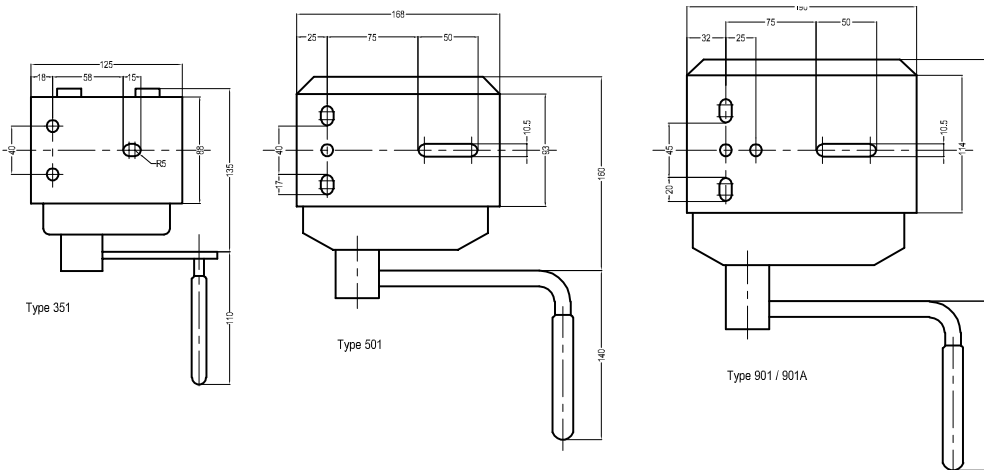
Made to the strictest safety and quality control ensures you get the best safety winch for any application.



PART NO	TYPE	TRACTION LOAD DATA FOR VERTICAL LIFT MAX TRACTION FORCE			WINDING FORCE ON HANDLE	MIN LOAD TO ACTIVATE BRAKE	DRUM DIAMETER (MM)	DRUM CAPACITY USING CABLE (M)	HANDLE CRANK LENGTH	GEAR RATIO	APPROX WEIGHT
		MIN	AV	MAX							
631235	351 = 350 kg	350 kg	250 kg	150 kg	20 kg	25 kg	38 mm	15 m	200 mm	2.5:1	2 kg
631250	501 = 500 kg	500 kg	335 kg	170 kg	20 kg	25 kg	48 mm	20 m	230 mm	3.75:1	4 kg
631290	901 = 900 kg	900 kg	615 kg	330 kg	18 kg	25 kg	63 mm	25 m	300 mm	8.75:1	7 kg

WINCH CABLES FOR AL-KO SAFETY WINCHES

PART NO	TYPE	TO SUIT WINCHES	DIMENSIONS	FITTING
632990	Safety winch cable	631235 Type 351	4 mm x 15 m	Snap hook
632991	Safety winch cable	631250 Type 501	5 mm x 20 m	Snap hook
632993	Safety winch cable	631290 Type 901	7 mm x 20 m	Snap hook



AUSTRALIAN DESIGN RULES

SUSPENSION REQUIREMENTS AS APPLICABLE TO TRAILED VEHICLES LESS THAN 4.5 TONNE AGGREGATE TRAILER MASS

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

SUSPENSION

Within a group of axles:

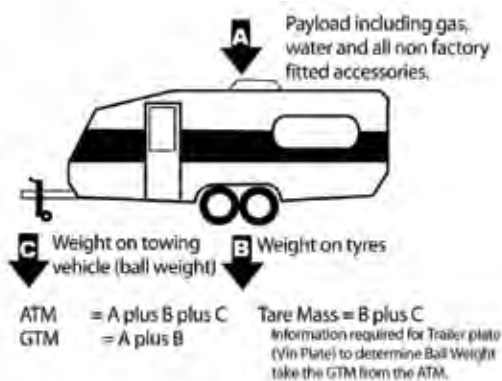
- | two axles must not be more than 2 metres apart; and
- | three axles must not be more than 3.2 metres apart overall.

All axles in a group must be interconnected by a loadsharing suspension, except in a close coupled axle group, provided that the load carrying capacity of each axle in the group and the wheels and tyres fitted to it is:

- | at least 120% of the load on that axle with the trailer at its ATM; and
- | at least equal to the load on that axle with the trailer at its ATM and any retractable axle retracted.

Note: A close coupled axle group is where the two axles in a group have their centres not more than one metre apart, or three axles not more than 2 metres apart, or three or more axles not more than 3.2 metres apart.

Note: This information is a guide only. We suggest customers contact the Department of Infrastructure and Regional Development in Canberra for specific advice pertaining to Australian Design Rules.



Helpful Hint:

Capacity = GTM
(payload + weight on tyres)

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 parts.

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.

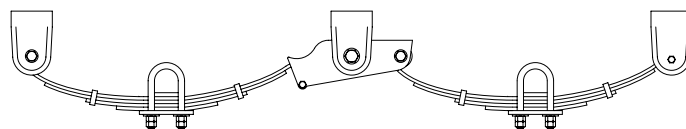
These three part numbers will ensure you are provided with the most appropriate combination to suit your needs. AL-KO staff will assist, when requested, with any selection criteria.

HEAVY DUTY & COMMERCIAL SPRING SETS

With this range of products, AL-KO offers several **complete systems where all fittings are provided.**

These springs are of varying styles and feature heavy quality fittings to stand up to higher loads.

Springs above 4.5 tonne ATM (aggregate trailer mass) where required, conform the Australian Design Rules.



COMMERCIAL / HEAVY DUTY SPRING SETS COMPLETE	PART NO.	SPRING WIDTH AND THICKNESS	NUMBER OF SPRING LEAVES	TO SUIT AXLE SECTION
2.25 TONNE SINGLE AXLE SLIPPER SPRING SET TM1- 5050	535005	50mm x 9mm	6	56mm ROUND
2.75 TONNE SINGLE AXLE SLIPPER SPRING SET TM1- 5060	535006	50mm x 9mm	7	56mm ROUND
2.75 TONNE SINGLE AXLE SLIPPER SPRING SET TM1- 7030L	537513	75mm x 11mm	3	65mm ROUND
4.5 TONNE TANDEM AXLE SLIPPER/ROCKER SPRING SET TM2 -5050	545005	50mm x 9mm	6	56mm ROUND
5.5 TONNE TANDEM AXLE SLIPPER/ROCKER SPRING SET TM2 -5060	545006	50mm x 9mm	7	56mm ROUND
5.5 TONNE TANDEM SLIPPER / ROCKER SPRING SET TM2-7030L	547503	75mm x 11mm	3	65mm ROUND
6.0 TONNE TANDEM SLIPPER / ROCKER SPRING SET TM2-7040L	547504L	75mm x 11mm	4	65mm ROUND
8 TONNE TANDEM SLIPPER / ROCKER SPRING SET TM2-7040	547504	75mm x 11mm	4	75mm ROUND

SLIPPER SPRINGS

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 45MM X 6MM

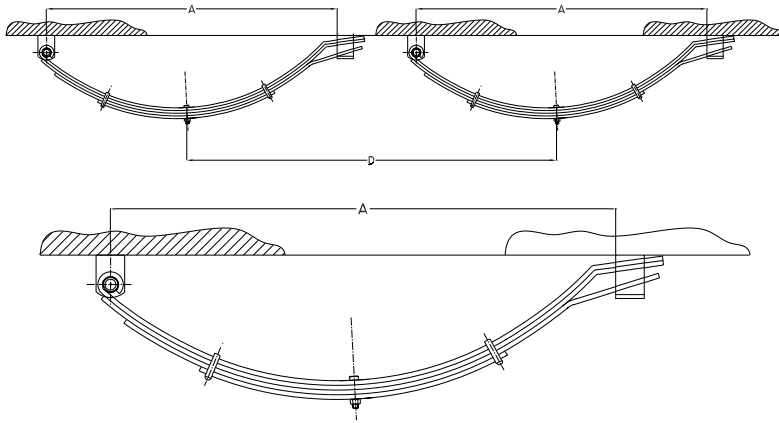
CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO TAIL	FREE CAMBER	EYE TO CENTRE BOLT	SHACKLE B DIAM.
600 kg	45mm x 6mm x 3 Leaf	765mm	155mm	330mm	1/2"
600 kg	45mm x 6mm x 3 Leaf	765mm	155mm	310mm	1/2"
900 kg	45mm x 6mm x 4 Leaf	765mm	155mm	330mm	1/2"
900 kg	45mm x 6mm x 4 Leaf	765mm	155mm	310mm	1/2"
1000 kg	45mm x 6mm x 5 Leaf	765mm	155mm	330mm	1/2"
1000 kg	45mm x 6mm x 5 Leaf	765mm	155mm	310mm	1/2"
1200 kg	45mm x 6mm x 6 Leaf	765mm	155mm	330mm	1/2"
1200 kg	45mm x 6mm x 6 Leaf	765mm	155mm	310mm	1/2"
1350 kg	45mm x 6mm x 7 Leaf	765mm	155mm	330mm	1/2"
1350 kg	45mm x 6mm x 7 Leaf	765mm	155mm	310mm	1/2"
1380 kg	45mm x 6mm x 8 Leaf	765mm	155mm	330mm	1/2"
1380 kg	45mm x 6mm x 8 Leaf	765mm	155mm	310mm	1/2"
1600 kg	45mm x 6mm x 9 Leaf	765mm	155mm	330mm	1/2"
1600 kg	45mm x 6mm x 9 Leaf	765mm	155mm	310mm	1/2"

SLIPPER SPRINGS 45MM X 8MM

CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO TAIL	FREE CAMBER	EYE TO CENTRE BOLT	SHACKLE B DIAM.
700 kg	45mm x 8mm x 2 Leaf	711mm	110mm	350mm	9/16"
850 kg	45mm x 8mm x 3 leaf	711mm	110mm	350mm	9/16"
1100 kg	45mm x 8mm x 4 leaf	711mm	110mm	350mm	9/16"
1350 kg	45mm x 8mm x 5 leaf	711mm	110mm	350mm	9/16"
1500 kg	45mm x 8mm x 6 leaf	711mm	110mm	350mm	9/16"
1700 kg	45mm x 8mm x 7 leaf	711mm	110mm	350mm	9/16"

SLIPPER SPRINGS 60MM X 6MM

CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO TAIL	FREE CAMBER	EYE TO CENTRE BOLT	SHACKLE B DIAM.
1100 kg	60mm x 6mm x 5 leaf	765mm	150mm	330mm	5/8"
1300 kg	60mm x 6mm x 6 leaf	765mm	150mm	330mm	5/8"
1400 kg	60mm x 6mm x 7 leaf	765mm	150mm	330mm	5/8"
1700 kg	60mm x 6mm x 9 leaf	765mm	150mm	330mm	5/8"
2000 kg	60mm x 6mm x 10 leaf	765mm	150mm	330mm	5/8"



Helpful Hint:

Spring description such as 45mm x 6mm refers to the leaf width and thickness.

BOLT	SPRING BUSH DIMENSIONS	SINGLE AXLE SET UP DIMENSION "A" (NO LOAD)	NOMINAL AXLE CENTRES MINIMUM "D"	PART NUMBER FOR ONE SPRING (NO HANGERS INCLUDED)	SPRING SURFACE FINISH
	1/2" X 7/8" X 45mm	700mm	725mm	584563	BLACK
	1/2" X 7/8" X 45mm	700mm	725mm	584563D	DACROMET™ COATED
	1/2" X 7/8" X 45mm	700mm	725mm	584564	BLACK
	1/2" X 7/8" X 45mm	700mm	725mm	584564D	DACROMET™ COATED
	1/2" X 7/8" X 45mm	700mm	725mm	584565	BLACK
	1/2" X 7/8" X 45mm	700mm	725mm	584565D	DACROMET™ COATED
	1/2" X 7/8" X 45mm	700mm	725mm	584566	BLACK
	1/2" X 7/8" X 45mm	700mm	725mm	584566D	DACROMET™ COATED
	1/2" X 7/8" X 45mm	700mm	725mm	584567	BLACK
	1/2" X 7/8" X 45mm	700mm	725mm	584567D	DACROMET™ COATED
	1/2" X 7/8" X 45mm	700mm	725mm	584568	BLACK
	1/2" X 7/8" X 45mm	700mm	725mm	584568D	DACROMET™ COATED
	1/2" X 7/8" X 45mm	700mm	725mm	584569	BLACK
	1/2" X 7/8" X 45mm	700mm	725mm	584569D	DACROMET™ COATED

BOLT	SPRING BUSH DIMENSIONS	SINGLE AXLE SET UP DIMENSION "A" (NO LOAD)	NOMINAL AXLE CENTRES MINIMUM "D"	PART NUMBER FOR ONE SPRING (NO HANGERS INCLUDED)	SPRING SURFACE FINISH
	9/16" x 7/8"	645mm	860mm	584582	BLACK
	9/16" x 7/8"	645mm	860mm	584583	BLACK
	9/16" x 7/8"	645mm	860mm	584584	BLACK
	9/16" x 7/8"	645mm	860mm	584585	BLACK
	9/16" x 7/8"	645mm	860mm	584586	BLACK
	9/16" x 7/8"	645mm	860mm	584587	BLACK

BOLT	SPRING BUSH DIMENSIONS	SINGLE AXLE SET UP DIMENSION "A" (NO LOAD)	NOMINAL AXLE CENTRES MINIMUM "D"	PART NUMBER FOR ONE SPRING (NO HANGERS INCLUDED)	SPRING SURFACE FINISH
	5/8" x 7/8" x 60mm	700mm	860mm	586005	BLACK
	5/8" x 7/8" x 60mm	700mm	860mm	586006	BLACK
	5/8" x 7/8" x 60mm	700mm	860mm	586007	BLACK
	5/8" x 7/8" x 60mm	700mm	860mm	586009	BLACK
	5/8" x 7/8" x 60mm	700mm	860mm	586011	BLACK

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 its ability to resist the rusting that naturally occurs in a salt water environment.

PARABOLIC SPRINGS (SLIPPER)

CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO TAIL	FREE CAMBER	EYE TO CENTRE BOLT	SHACKLE BOLT DIAMETER
600 kg	45mm x 13mm	755mm	150mm	350mm	1/2"
600 kg	45mm x 13mm	755mm	150mm	350mm	1/2"
1000 kg	45mm x 15mm	755mm	150mm	350mm	1/2"
1000 kg	45mm x 15mm	755mm	150mm	350mm	1/2"
1400 kg	45mm x 18mm	755mm	150mm	350mm	1/2"
1400 kg	45mm x 18mm	755mm	150mm	350mm	1/2"

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.

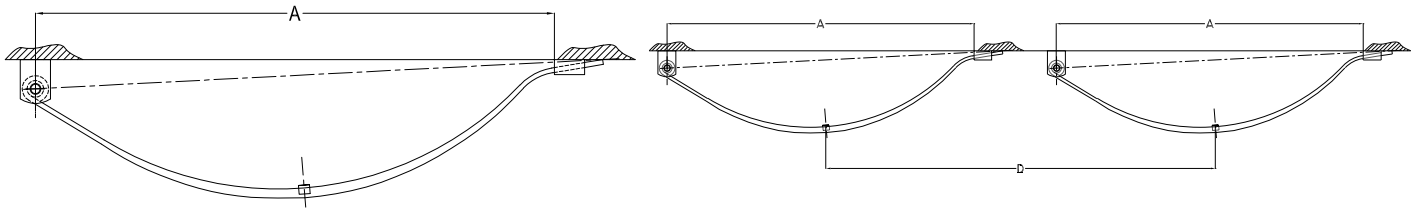
Eye to eye springs are the most commonly used spring when a multi axle configuration is being considered. By linking the springs through a "rocker" assembly, a transfer of load is achieved when one axle is carrying a large percentage of the weight (crossing kerbs etc.) so that the loads are more evenly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

EYE TO EYE (SHACKLE) SPRINGS 45MM X 8MM CENTRE BOLT CENTRAL

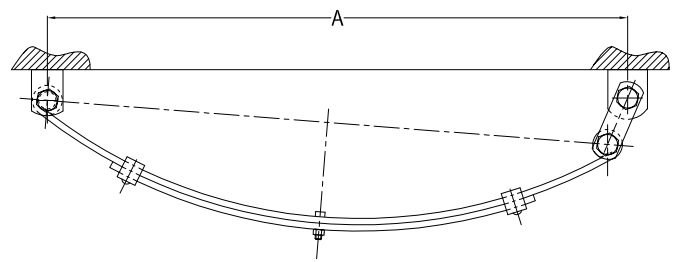
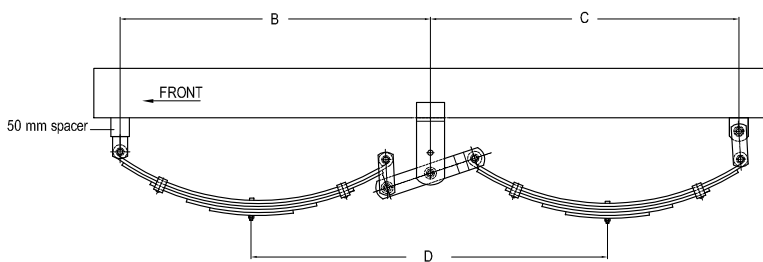
CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO EYE	FREE CAMBER	EYE TO CENTRE BOLT	SHACKLE BOLT DIAMETER
700 kg	45mm x 8mm x 2 leaf	711mm	120mm	355mm	9/16"
850 kg	45mm x 8mm x 3 leaf	711mm	120mm	355mm	9/16"
1100 kg	45mm x 8mm x 4 leaf	711mm	120mm	355mm	9/16"
1300 kg	45mm x 8mm x 5 leaf	711mm	120mm	355mm	9/16"
1500 kg	45mm x 8mm x 6 leaf	711mm	120mm	355mm	9/16"
1900 kg	45mm x 8mm x 8 leaf	711mm	120mm	355mm	9/16"

Helpful Hint:

If it has a grease nipple, it needs greasing! Regular greasing of spring components promotes longer component life.



	SPRING BUSH DIMENSIONS	SINGLE AXLE SET UP DIMENSION "A" (NO LOAD)	NOMINAL AXLE CENTRES MINIMUM "D"	PART NUMBER FOR ONE SPRING (NO HANGERS INCLUDED)	SPRING SURFACE FINISH
	1/2" X 7/8" X 45mm	690mm	860mm	584523	BLACK
	1/2" X 7/8" X 45mm	690mm	860mm	584523D	DACROMET™ COATED
	1/2" X 7/8" X 45mm	690mm	860mm	584525	BLACK
	1/2" X 7/8" X 45mm	690mm	860mm	584525D	DACROMET™ COATED
	1/2" X 7/8" X 45mm	690mm	860mm	584527	BLACK
	1/2" X 7/8" X 45mm	690mm	860mm	584527D	DACROMET™ COATED



	SPRING BUSH DIMENSIONS	SINGLE AXLE SET UP DIMENSION "A" (NO LOAD)	TANDEM AXLE SET UP DIMENSION "B" & "C" (NO LOAD)		NOMINAL AXLE CENTRES MINIMUM "D"	PART NUMBER FOR ONE SPRING (NO HANGERS INCLUDED)	SPRING SURFACE FINISH
			B	C			
	9/16" x 45mm	735mm	830mm	825mm	960mm	574582	BLACK
	9/16" x 45mm	735mm	830mm	825mm	960mm	574583	BLACK
	9/16" x 45mm	735mm	830mm	825mm	960mm	574584	BLACK
	9/16" x 45mm	735mm	830mm	825mm	960mm	574585	BLACK
	9/16" x 45mm	735mm	830mm	825mm	960mm	574586	BLACK
	9/16" x 45mm	735mm	830mm	825mm	960mm	574588	BLACK

EYE TO EYE (SHACKLE) SPRINGS 45MM X 8MM CENTRE BOLT CENTRAL

CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO EYE	FREE CAMBER	EYE TO CENTRE BOLT	SHACKLE BOLT DIAMETER
1450 kg	45mm x 8mm x 6 leaf	835mm	114mm	418mm	9/16"
1600 kg	45mm x 8mm x 7 leaf	835mm	114mm	418mm	9/16"

EYE TO EYE (SHACKLE) SPRINGS 45MM X 8MM CENTRE BOLT OFFSET

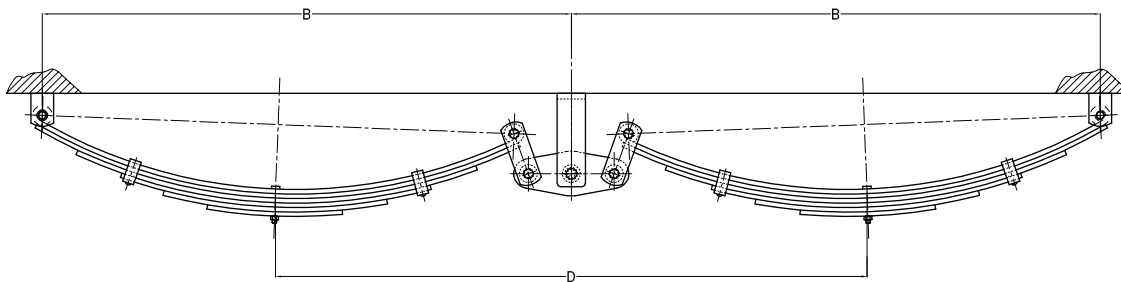
CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO EYE	FREE CAMBER	EYE TO CENTRE BOLT	SHACKLE BOLT DIAMETER
1300 kg	45mm x 8mm x 5 leaf OffSet	710mm	105mm	300mm	9/16"
1450 kg	45mm x 8mm x 6 leaf OffSet	710mm	105mm	300mm	9/16"
1800 kg	45mm x 8mm x 8 leaf OffSet	710mm	105mm	300mm	9/16"

EYE TO EYE (SHACKLE) SPRINGS TANDEM ROCKER SIDES 60MM X 6MM CENTRE BOLT OFFSET

CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO EYE	FREE CAMBER	EYE TO CENTRE BOLT	SHACKLE BOLT DIAMETER
1000 kg	60mm x 6mm x 5 leaf OffSet	700mm	120mm	386mm	16mm
1500 kg	60mm x 6mm x 6 leaf OffSet	700mm	120mm	386mm	16mm
1700 kg	60mm x 6mm x 7 leaf OffSet	700mm	120mm	386mm	16mm

SPRING BUSH DIMENSIONS	SINGLE AXLE SET UP DIMENSION "A" (NO LOAD)	TANDEM AXLE SET UP DIMENSION "B" & "C" (NO LOAD)		NOMINAL AXLE CENTRES MINIMUM "D"	PART NUMBER FOR ONE SPRING (NO HANGERS INCLUDED)	SPRING SURFACE FINISH
		B	C			
9/16" x 7/8" x 45mm	860mm	936mm	936mm	1046mm	574590	BLACK
9/16" x 7/8" x 45mm	860mm	936mm	936mm	1046mm	574591	BLACK

SPRING BUSH DIMENSIONS	SINGLE AXLE SET UP DIMENSION "A" (NO LOAD)	TANDEM AXLE SET UP DIMENSION "B" & "C" (NO LOAD)		NOMINAL AXLE CENTRES MINIMUM "D"	PART NUMBER FOR ONE SPRING (NO HANGERS INCLUDED)	SPRING SURFACE FINISH
		B	C			
9/16" x 45mm	705mm	830mm	825mm	850mm	574595	BLACK
9/16" x 45mm	705mm	830mm	825mm	850mm	574596	BLACK
9/16" x 45mm	705mm	830mm	825mm	850mm	574598	BLACK



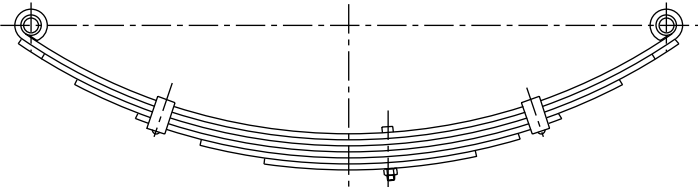
SPRING BUSH DIMENSIONS	TANDEM AXLE SET UP DIMENSION "B" (NO LOAD)	NOMINAL AXLE CENTRES MINIMUM "D"	PART NUMBER FOR ONE SIDE INCLUDING HANGERS	SPRING SURFACE FINISH
5/8" X 7/8" X 60mm	835mm	912mm	546205	BLACK
5/8" X 7/8" X 60mm	835mm	912mm	546206	BLACK
5/8" X 7/8" X 60mm	835mm	912mm	546207	BLACK

EYE TO EYE (SHACKLE) SPRINGS 60MM X 6.5MM CENTRE BOLT OFFSET

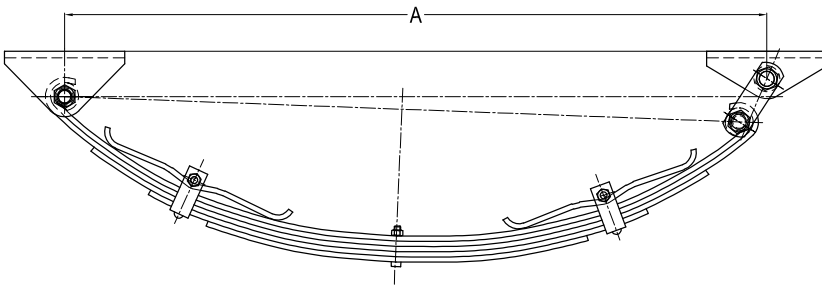
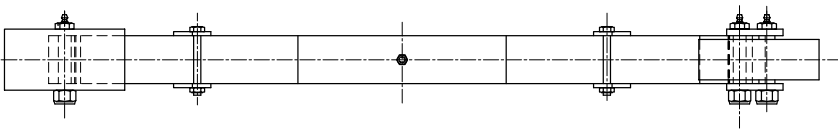
CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO EYE	FREE CAMBER	EYE TO CENTRE BOLT
1980 kg	60mm x 6.5mm x 6 leaf	685mm	117mm	385mm
2200 kg	60mm x 6.5mm x 7 leaf	685mm	117mm	385mm

EYE TO EYE (SHACKLE) SPRINGS 60MM X 7MM "OUTBACK"

CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO EYE	FREE CAMBER	EYE TO CENTRE BOLT	SHACKLE BOLT DIAMETER
1150 kg	60mm x 7mm x 5 leaf "Outback"	841mm	158mm	420mm	16mm
1350 kg	60mm x 7mm x 6 leaf "Outback"	841mm	158mm	420mm	16mm
1550 kg	60mm x 7mm x 7 leaf "Outback"	841mm	158mm	420mm	16mm
1750 kg	60mm x 7mm x 8 leaf "Outback"	841mm	158mm	420mm	16mm
2000kg	60mm x 7mm x 9 leaf "Outback"	841mm	158mm	420mm	16mm
2500kg	60mm x 7mm x 10 leaf "Outback"	841mm	158mm	420mm	16mm



LT	SHACKLE BOLT DIAMETER	SPRING BUSH DIMENSIONS	PART NUMBER FOR ONE SPRING (NO HANGERS INCLUDED)	SPRING SURFACE FINISH
	5/8"	5/8" X 7/8" X 60mm	576066	BLACK
	5/8"	5/8" X 7/8" X 60mm	576067	BLACK



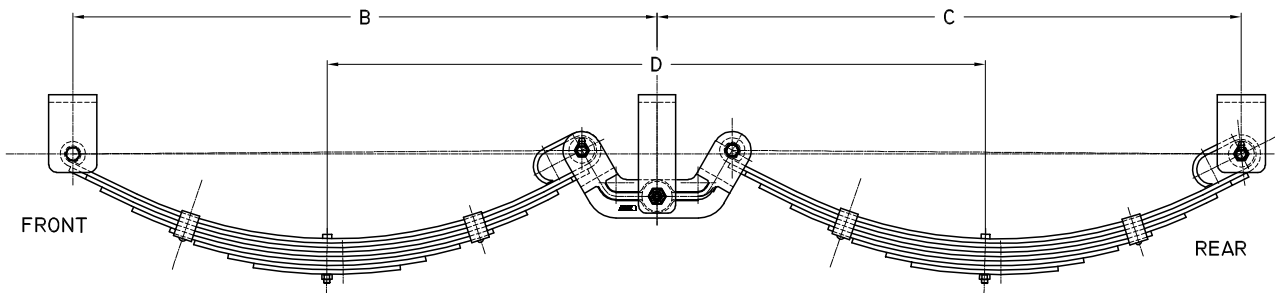
SPRING BUSH DIMENSIONS	SINGLE AXLE SET UP DIMENSION "A" (NO LOAD)	PART NUMBER FOR ONE SIDE WITH HANGERS	SPRING SURFACE FINISH	PART NUMBER FOR SINGLE AXLE TRAILER SET WITH ALL FITTINGS INCLUDING U BOLT KITS (5/8 IN)	AXLE SIZE (FOR U BOLTS)
5/8" X 7/8" X 60mm	865mm / 875mm	576075	BLACK	536075	45mm square
5/8" X 7/8" X 60mm	865mm / 875mm	576076	BLACK	536076	45mm square
5/8" X 7/8" X 60mm	865mm / 875mm	576077	BLACK	536077	50mm square
5/8" X 7/8" X 60mm	865mm / 875mm	576078	BLACK	536078	50mm square
5/8" X 7/8" X 60mm	865mm / 875mm	576079	BLACK	536079	50mm square
5/8" X 7/8" X 60mm	865mm / 875mm	576080	BLACK	536080	50mm square

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 SPRINGS

CAPACITY FOR TWO SPRINGS	DESCRIPTION	LENGTH OF SPRING FROM EYE TO EYE	FREE CAMBER	EYE TO CENTRE BOLT
950kg to 1100kg	60mm x 5 leaf suit 14" wheels	687mm	117mm	396mm front spring
				291mm rear spring
1105kg to 1250kg	60mm x 6 leaf suit 14" wheels	687mm	117mm	396mm front spring
				291mm rear spring
1300kg to 1500kg	60mm x 7 leaf suit 14" wheels	687mm	117mm	396mm front spring
				291mm rear spring
1300kg to 1450kg	60mm x 5 leaf suit Suit 15"/16" wheels	686mm	117mm	343mm front spring
				343mm rear spring
1450kg to 1600kg	60mm x 6 leaf suit Suit 15"/16" wheels	686mm	117mm	343mm front spring
				343mm rear spring
1625kg to 2100kg	60mm x 7 leaf suit 15"/16" wheels	686mm	117mm	343mm front spring
				343mm rear spring
1900kg to 2245kg	60mm x 8 leaf	686mm	117mm	343mm front spring
				343mm rear spring



SHACKLE BOLT DIAMETER	SPRING BUSH DIMENSIONS	TANDEM AXLE SET UP NOMINAL DIMENSION "B" & "C" (NO LOAD)		NOMINAL AXLE CENTRES MINIMUM "D"	PART NUMBER FOR ONE SIDE (INCLUDES HANGERS)	SPRING SURFACE FINISH
		B	C			
16mm	16mm x 22mm x 60mm	787mm		785mm	LH 576450	BLACK
					RH 576451	BLACK
16mm	16mm x 22mm x 60mm	787mm		785mm	LH 576460 LH 576460D	BLACK /DACROMET
					RH 576461 RH 576461D	BLACK /DACROMET
16mm	16mm x 22mm x 60mm	787mm		785mm	LH 576470 LH 576470D	BLACK /DACROMET
					RH 576471 RH 576471D	BLACK /DACROMET
16mm	16mm x 22mm x 60mm	787mm		888mm	LH576650	BLACK
					RH576651	BLACK
16mm	16mm x 22mm x 60mm	787mm		888mm	LH576660	BLACK
					RH576661	BLACK
16mm	16mm x 22mm x 60mm	787mm		888mm	LH 576670 LH 576670D	BLACK /DACROMET
					RH 576671 RH 576671D	BLACK /DACROMET
16mm	16mm x 22mm x 60mm	787mm		888mm	LH 576680 LH 576680D	BLACK /DACROMET
					RH 576681 RH 576681D	BLACK /DACROMET

Helpful Hint:

Rocker Roller capacities are based on 30mm to 35mm deflection

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:

1. Identify the type of spring, i.e. slipper, parabolic, shackle etc.
2. Identify the axle kit type, i.e. single or tandem.
3. Identify the shackle pin size, (see the spring chart) i.e. 1/2", 9/16" etc.
4. 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.

PART NO	SLIPPER SPRING HANGER KITS
595005	SINGLE AXLE KIT FOR SPRINGS WITH 1/2" SHACKLE BOLTS
595010	SINGLE AXLE KIT FOR SPRINGS WITH 9/16" SHACKLE BOLTS
595015	SINGLE AXLE KIT FOR SPRINGS WITH 5/8" SHACKLE BOLTS
595020	TANDEM AXLE KIT FOR SPRINGS WITH 1/2" SHACKLE BOLTS
595025	TANDEM AXLE KIT FOR SPRINGS WITH 9/16" SHACKLE BOLTS

PART NO	PARABOLIC SPRING HANGER KITS
595040	SINGLE AXLE KIT FOR SPRINGS WITH 1/2" SHACKLE BOLTS

PART NO	EYE TO EYE (SHACKLE) SPRING HANGER KITS
595050	SINGLE AXLE KIT FOR SPRINGS WITH 9/16" SHACKLE BOLTS
595060	TANDEM AXLE KIT FOR SPRINGS WITH 9/16" SHACKLE BOLTS AND 700mm/711mm SPRING LENGTHS
595070	TANDEM AXLE KIT FOR SPRINGS WITH 9/16" SHACKLE BOLTS AND 835mm SPRING LENGTHS



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:

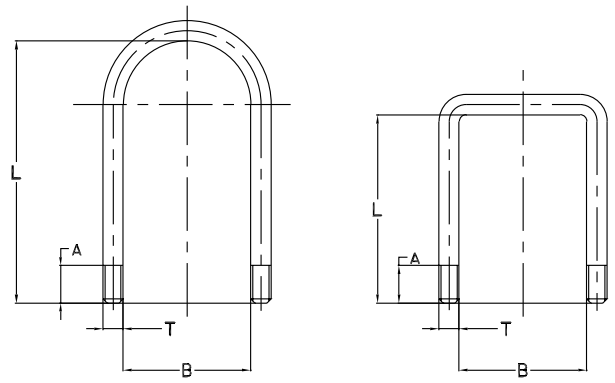
1. Identify what width of spring you are using: 45mm or 60mm.
2. Identify the number of spring leaves, i.e. 2,3,7,etc.
3. Identify the section of the axle, i.e. 39mm round, 50mm square etc.

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

45MM SPRING WIDTH	AXLE SIZE						
	39MM R	40MM SQ	45MM R	45MM SQ	60MM TUBE	50MM R	50MM 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

60MM SPRING WIDTH	AXLE SIZE							
	40MM SQ	45MM R	45MM SQ	50MMR	50MM SQ	56MM R	60MMR	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					597125			
"Outback" 10 leaf					597127			597106
ROCKER ROLLER 5 LEAF			597115		597124			
ROCKER ROLLER 6 LEAF			597115		597124			
ROCKER ROLLER 7 LEAF					597125	597130	597140	
ROCKER ROLLER 8 LEAF					597125	597130	597140	

U-BOLTS



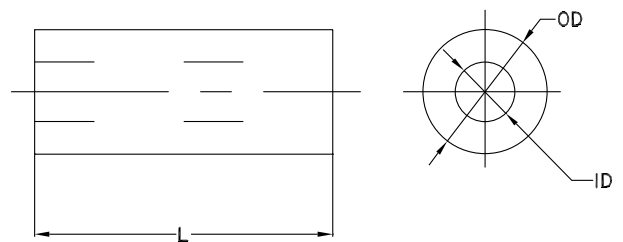
PART NO	AXLE SECTION "B"	U BOLT LENGTH "L"	NOMINAL THREAD LENGTH "A"	THREAD TYPE "T"	FINISH
591145	39mm Round	115mm / 4 1/2"	50mm	1/2" BSW	Black
591150	39mm Round	127mm / 5"	50mm	1/2" BSW	Black
591345	45mm Round	115mm / 4 1/2"	50mm	1/2" BSW	Black
591350	45mm Round	127mm / 5"	50mm	1/2" BSW	Black
591355	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
591460	45mm Square	150mm / 6"	50mm	1/2" BSW	Black
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
592465	45mm Round	145mm / 5 3/4"	50mm	5/8" BSW	Black
592506	50mm Square	165mm / 6 1/2"	50mm	5/8" BSW	Black
592506G	50mm Square	165mm / 6 1/2"	50mm	5/8" BSW	Galv
592507	50mm Square	180mm / 7"	50mm	5/8" BSW	Black
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
592575	50mm Round	145mm / 5 3/4"	50mm	5/8" BSW	Black
592630	63mm Square	180mm / 7"	63mm	5/8" BSW	Black

U BOLT NUTS & WASHERS

PART NO	DESCRIPTION
590119	Nut 1/2" BSW Nyloc Zinc Plated
590120	Nut 5/8" BSW Nyloc Zinc Plated
190053	1/2" Flat Washer Zinc Plated
190057	5/8" Flat Washer Zinc Plated
590117	Washer 5/8" spring x 1/8 sq
590122	Nut Hex 5/8" BSW Galvanised
590123	Washer M12 Galvanised
590124	Washer M16 Galvanised

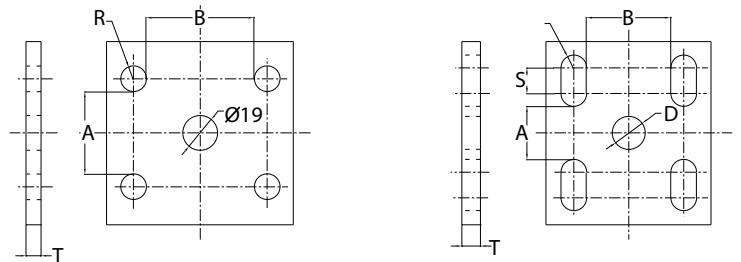
SPRING BUSHES AND FISH PLATES

SPRING BUSHES



PART NO	DESCRIPTION	ID	OD	L
590001	Spring nylon bush	1/2"	7/8"	45mm
590002	Spring nylon bush	9/16"	7/8"	45mm
590003	Spring nylon bush	5/8"	7/8"	60mm
590004	Spring nylon bush	9/16"	3/4"	45mm
590005	Spring nylon bush	5/8"	7/8"	45mm

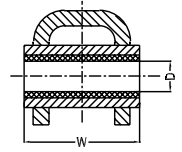
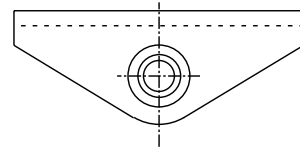
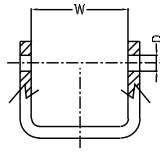
FISH PLATES



PART NO	DESCRIPTION	SURFACE FINISH	A	B	T	S	R
590401	Fish Plate	Black	45	45	8		
591410	Fish Plate	Black	40	60	8		
590413	Fish Plate	Black	40	45	8		
590414	Fish Plate	Zinc Plated	45	60	10		
590414G	Fish Plate	Galvanised	45	60	10		
590417	Fish Plate	Black	50	60	8		
590415	Fish Plate Slotted	Black	39	45	10	14	7
590415G	Fish Plate Slotted	Galvanised	39	45	10	14	7
590420	Fish Plate Slotted	Black	60	45	10	2.5	8.5
590420G	Fish Plate Slotted	Galvanised	60	45	10	2.5	8.5
590456	Fish Plate Slotted	Black	60	55	10	2.5	8.5
590456G	Fish Plate Slotted	Galvanised	60	55	10	2.5	8.5
590465	Fish Plate	Black	60	65	10		8.5

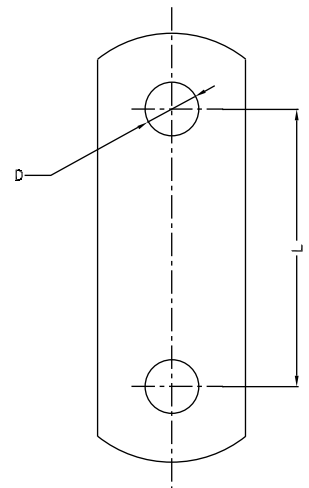
SPRING HANGERS AND SHACKLE PLATES

SPRING HANGERS – SINGLE AXLE



PART NO	DESCRIPTION	W	D
590444	Rear Parabolic Hanger 45mm spring	45	
590443	Deep Front Slipper Hanger 45mm spring 1/2" bolt	45	1/2"
590442	Shallow Front Slipper Hanger 45mm spring 1/2" bolt	45	1/2"
590445	Rear Slipper Hanger 45mm spring	45	
590446	Front Slipper Hanger 60mm spring 5/8" bolt	60	5/8"
590447	Rear Slipper Hanger 60mm spring	60	
590450	Rear Slipper Hanger on strap 60mm spring	60	
590451	Front Slipper Hanger on strap 60mm spring 5/8" bolt	60	5/8"
590600	Front Hanger 45mm spring 9/16" bolt	45	9/16"
590630	Front Hanger 60mm "outback"	60	M16
590631	Rear Hanger DumbJack "outback" 60mm spring	60	M16
590604	Rear Hanger DumbJack 45mm spring	45	5/8"

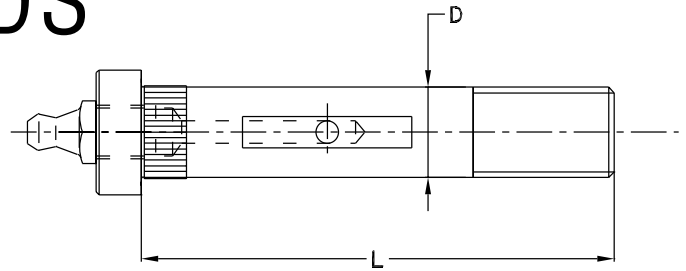
EYE TO EYE SPRING SHACKLE PLATES – SINGLE & TANDEM



PART NO	DESCRIPTION	D	L
590606	Shackle plate suit 45mm wide spring	9/16"	75mm
590607	Shackle plate suit 45mm wide spring	9/16"	50mm
590713	Shackle plate suit 60mm wide tandem rocker and outback spring	M16	64mm

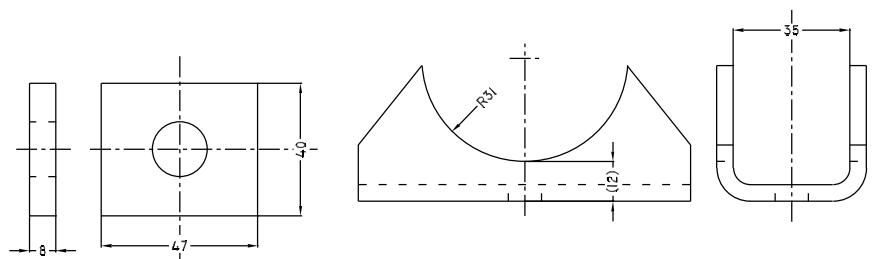
SHACKLE PINS AND SPRING AXLE PADS

EYE TO EYE SPRING SHACKLE PINS & NUTS



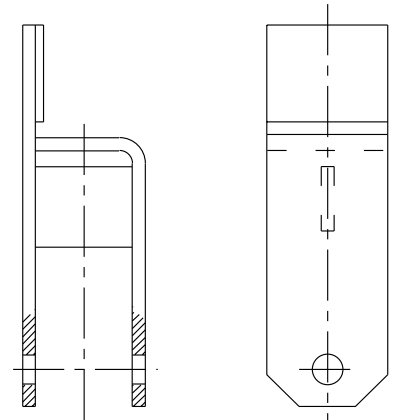
PART NO	DESCRIPTION	D	L
590113	Shackle Bolt Non-Greasable	1/2"	3 1/2"
590608	Shackle Pin 9/16" x 3 1/2" solid with 9/16" nyloc nut	9/16"	3 1/2"
590609	Shackle Pin Greasable	9/16"	3 1/2"
590610	Shackle Pin Greasable	5/8"	3 1/4"
590611	Shackle Pin Non-Greasable	5/8"	3 1/2"
590125	Shackle Bolt Non-Greasable	5/8"	4"
590632	Shackle Pin "Outback" M16 x 100mm with grease nipple	16mm	100mm
590707	Shackle Pin M16 x 100mm Non-Greasable suit Tandem 60mm rocker springs	16mm	100mm
590711	Centre Rocker Pin M18 x 100mm Greasable suit Tandem 60mm rocker springs	18mm	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		

SPRING PAD / AXLE PAD



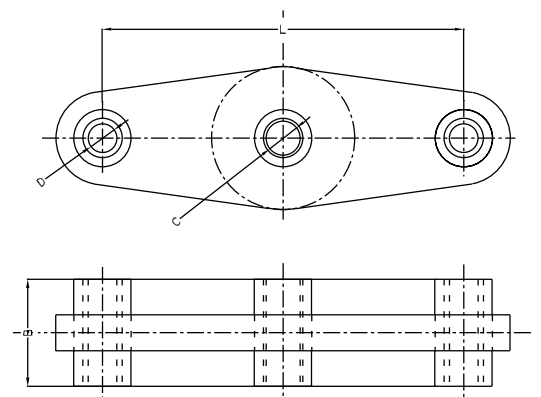
PART NO.	DESCRIPTION	SURFACE FINISH	L	W	T
590510	Spring Pad to suit round and square	Black	47mm	40mm	8mm
590516	Spring Pad to suit round and square	Black	47mm	40mm	10mm
590510G	Spring Pad to suit round and square	Galvanised	47mm	40mm	8mm
590513	Spring Pad to suit 65mm round axle/63m square axle	Black	60mm	65mm	10mm
590515	Spring Pad for 60mm tube axle	Zinc Plated	See diagram above right		

SPRING HANGERS AND ROCKERS



TANDEM SPRING HANGERS

PART NO	DESCRIPTION
590601	Centre hanger suit 45mm shackle pins
590703	Centre Hanger suit 60mm Tandem Rocker Springs – 18mm pin
576305	Centre Hanger suit 60mm Tandem Rocker Roller Springs – 18mm pin
576302	Front or Rear Hanger Tandem Rocker Roller Springs
590701	Front or Rear Hanger Tandem Rocker Springs
576301	Roller only – Spare Part



TANDEM ROCKER SPRING ROCKERS

PART NO	DESCRIPTION
590616	Rocker assembly suit 45mm shackle spring suit 5/8" pin
590705	Rocker assembly suit 60mm shackle spring 18mm pin 202mm centres
576303	Rocker assembly suit Rocker Roller springs

CORNER STEADIES

AL-KO manufactures a range of corner steadies that set the standards for this type of product. Made from quality materials these well designed corner steadies ensure that the end user is able to stabilize the caravan or trailer with the minimum of effort.

Note: Corner steadies are not designed to be used as a jack or as the means of lifting the trailer or caravan off the ground. They are designed to stabilize the trailer or caravan when stationary.

AL-KO was the first company to introduce the hexagon drive on the screw shaft of the corner steady, providing positive drive. Some innovative customers use a hexagon socket and a cordless drill to quickly and effortlessly raise and lower the steady.

The unique AL-KO plastic end knob and plastic grip make the use of the winding handle simple and comfortable.

All AL-KO corner steadies have been tested and meet the requirements of Caravan Industry Association Australia (CIAA), the Australian controlling body for caravan manufacturing standards. Steadies are available in conventional wind down style and also in “drop down” style, where the steady can be swung from the horizontal travelling position to different angles including the optimum position of vertical. The “drop down” corner steady requires only a small amount of winding to steady the caravan. The top of the range corner steady is the German designed 1000 kg heavy duty steady which is the ultimate in strength and style.

Most AL-KO corner steadies are suitable to be fitted with the AL-KO Big Foot™.

The AL-KO Big Foot™ is also able to be fitted as an aftermarket product to most caravans/trailers on the Australian Market. This unique product provides the corner steady with a flat load bearing surface, ideal for soft ground. No more carrying around pieces of wood to put under the corner steady on soft ground!

Helpful Hint:

Corner steadies need grease applied to the screw threads occasionally to prevent seizing!



DROP DOWN CORNER STEADIES

PART NO	DESCRIPTION	SURFACE FINISH	OPEN LENGTH	CLOSED LENGTH
654859	Drop Down Corner Steady with Bigfoot™ fitted	Zinc Plated	590mm	410mm
654859B	Drop Down Corner Steady with Bigfoot™ fitted	Black E Coat	590mm	410mm
654874	Drop Down Corner Steady with Bigfoot™ fitted	Zinc Plated	740mm	510mm
654874B	Drop Down Corner Steady with Bigfoot™ fitted	Black E Coat	740mm	510mm
654884	Drop Down Corner Steady with Bigfoot™ fitted	Zinc Plated	840mm	610mm
654884B	Drop Down Corner Steady with Bigfoot™ fitted	Black E Coat	840mm	610mm
654885	Drop Down Corner Steady Chassis bracket (spare part)	Zinc Plated	N/A	N/A



CORNER STEADIES

PART NO	DESCRIPTION	MOUNTING STYLE	SURFACE FINISH	LEG LENGTH
654500	Hex Drive – Front	Side mount or weld on	Zinc Plated	500mm
654500G	Hex Drive – Front	Top mount bolt on	Galvanised	500mm
654530	Hex Drive – Rear with Wheel	Side mount or weld on	Zinc Plated	500mm
654555GBF	Hex Drive – Front – side bolt with Bigfoot™ fitted	Side mount	Galvanised	500mm
654600	Hex Drive – Front	Side mount or weld on	Zinc Plated	600mm
654630	Hex Drive – Rear with Wheel	Side mount or weld on	Zinc Plated	600mm
654701	Hex Drive – Front	Side mount or weld on	Zinc Plated	700mm
654701G	Hex Drive – Front	Top mount bolt on	Galvanised	700mm
654556	Corner steady bracket for side bolt			



EUROPEAN STYLE

PART NO	DESCRIPTION	SURFACE FINISH	LENGTH
655410	Hex Drive "European Style" 1000kg Galvanised 495mm capacity	Galvanised	500mm
655409	Support bracket for 655410 European Steady		
655520	Corner steady thread insert 20mm less screws and washers		



CORNER STEADY HANDLES

PART NO	DESCRIPTION	SURFACE FINISH	OVERALL LENGTH
654700	Hex Drive Handle	Zinc Plated	800 mm
654702	Hex Drive Off Road Handle	Zinc Plated	1150 mm
654845	Hex Drive suit Drop Down Steady	Zinc Plated	450mm



BIG FOOT™

PART NO	DESCRIPTION
655900	Big Foot™ – boxed set of corner steady supports
655901	Big Foot™ – single foot piece
655902	Big Foot™ – Hardware Kit

Most AL-KO corner steadies are suitable to be fitted with the AL-KO Big Foot™.

The AL-KO Big Foot™ is also able to be fitted as an aftermarket product to most caravan trailers on the Australian Market.

This unique product provides the corner steady with a flat load bearing surface, ideal for soft ground. No more carrying around pieces of wood to put under the corner steady on soft ground!

Big Foot™ is a registered trademark of AL-KO International.

Big Foot™ is covered by registered design.

WHEELS & TYRES

WHEELS

PART NO	DESCRIPTION
641513	13 x 4.5 J Painted 5 x 4.5" Ford 0 Offset 750kg Rating
641513G	13 x 4.5 J Galvanised 5 x 4.5" Ford 0 Offset 750kg Rating
641614	14 x 6 J Painted 5 x 4.5" Ford +15mm Offset 850kg Rating
641614G	14 x 6 J Galvanised 5 x 4.5" Ford +15mm Offset 850kg Rating
641616	14 x 6 J Painted 6 x 5.5" L/Cruiser 850kg Rating
641715	15 x 7 J Painted 6 x 5.5" L/Cruiser -7mm Offset 850kg Rating
641715G	15 x 7 J Galvanised 6 x 5.5" L/Cruiser -7mm Offset 850kg Rating
641816	16 x 6 K Painted 6 x 5.5" L/Cruiser 8mm Offset 1700kg Rating



TYRES

PART NO	DESCRIPTION
644165	Trailer Tyre 165R13C – 670kg
644185	Trailer Tyre 185R14C – 850kg
644225	Trailer Tyre 225/70R15C – 1120kg



WHEEL & TYRE ASSEMBLY

PART NO	DESCRIPTION
645013	13" Ford Gal Wheel & 165R13 Tyre 670kg
645014	14" Ford Gal Wheel & 185R14 C Tyre 850kg
645113	13" Ford White Wheel & 165R13 Tyre 670kg
645114	14" Ford White Wheel & 185R14 C Tyre 850kg
645115	15" L/Cruiser 6 Stud White Wheel & 220/70RC15 Tyre 850kg
645116	16" L/Cruiser 6 Stud White Wheel & 195/50R16C Tyre 1060kg

SECURITY ACCESSORIES

AL-KO ANTI-THEFT SYSTEM (ATS)

AL-KO ATS is a state-of-the-art tracking system designed to help combat the rising theft of caravans, trailers & motorhomes. The AL-KO Anti-Theft System (ATS) provides the most effective way of protecting your investment from theft. Incorporating state of the art GPS tracking in addition to Microdot technology ATS provides multi-level protection.

AL-KO ATS has been released in response to recent reports that indicate that caravan theft is a significant and growing problem in Australia. With their high value, caravans are prime targets for thieves and it is estimated that around 500 caravans are reported stolen each year in Australia.

In developing the Anti-Theft System, AL-KO has collaborated with Black Knight Global Tracking Systems, to include a world first, purposely designed GPS global tracking device utilising state of the art M2M (machine to machine) connectivity. Refer to www.alkoATS.com.au for further information.



PART NO	DESCRIPTION
698000	AL-KO Anti-Theft System (ATS)GPS Tracker includes 12 month Connectivity and Microdot Marker

WHEEL CLAMP



PART NO	DESCRIPTION
650300	AL-KO Easy Clamp Anti-Theft Wheel Clamp Adjustable to suit 13 to 15" Wheels Key operated Lock

COUPLING LOCK



PART NO	DESCRIPTION
616950	Secure "Universal" Coupling Lock Suits most Australian 50mm ball Couplings

ACCESSORIES



MUD GUARDS

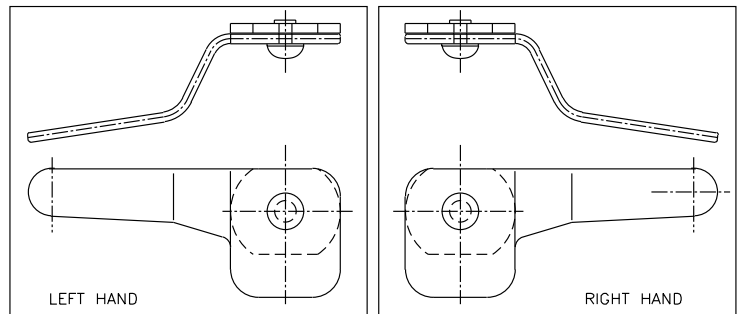
PART NO	DESCRIPTION	MATERIAL
652017	Mud Guard Single – Suit 13” wheel	Toughened Plastic (silver)
652018	Mud Guard Single – Suit 14” wheel	Toughened Plastic (silver)
652014	Mud Guard Single – Suit 14” wheel	Steel
652034	Mud Guard Single – Suit 16” wheel – 250mm wide x 2mm	Steel
652034CP	Mud Guard Single – Suit 16” wheel – 250mm wide x 2.3mm	Steel Checker Plate
652029	Mud Guard Tandem – Suit Slipper – 14” wheel (1450mm)	Steel
652030	Mud Guard Tandem – Suit Rocker – 14” wheel (1680mm)	Steel



TAILGATE SPRINGS

PART NO	DESCRIPTION	MATERIAL	DIMENSIONS
589901	Tailgate Spring 13mm RH Short	Spring Steel	480mm
589911	Tailgate Spring 16mm RH Short	Spring Steel	480mm
589921	Tailgate Spring 19mm RH Short	Spring Steel	480mm
589902	Tailgate Spring 13mm RH Long	Spring Steel	730mm
589912	Tailgate Spring 16mm RH Long	Spring Steel	730mm
589922	Tailgate Spring 19mm RH Long	Spring Steel	730mm

TAILGATE CATCHES



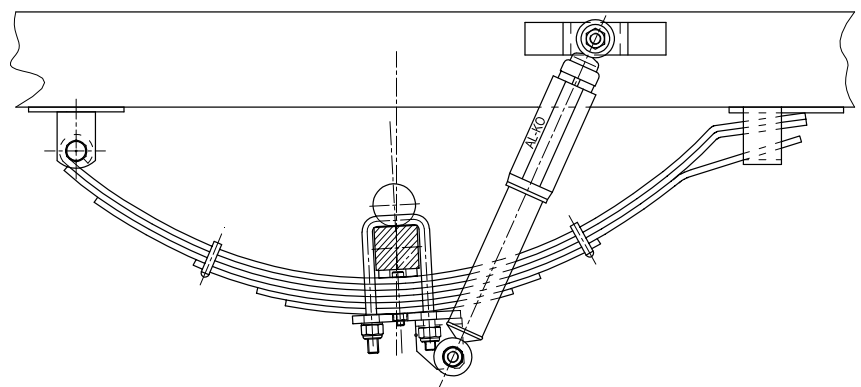
PART NO	DESCRIPTION
653010	Tailgate Catches – Pair
653011	Tailgate Catch – LH
653012	Tailgate Catch – RH

BEARING PROTECTORS FOR MARINE TRAILERS



PART NO	DESCRIPTION
630010	Bearing Protector (loose - no cap) – Pair
630020	Bearing Protector (Clam pack - with cap) – Pair
630015	Bearing Protector Cap – each

TRAILER SHOCK ABSORBER KIT



PART NO	DESCRIPTION
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)
658005	Shock Absorber Kit – Single beam axle set (Suit 60mm springs)



**For further information visit
www.alko.com.au**

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8am to 5pm (Mon to Thurs)
8am to 4.30pm (Fri)



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