

AL-KO COUPLING & PARTS



136 Port Wakefield Road, CAVAN SA 5094
Ph. 08 8262 7170 Fax. 08 8262 6123
www.satrailer.com.au

• FIXED COUPLING

This style of coupling, usually suited to a 50mm Australian Standard towball, 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.

			
PART NUMBER	616200	614060	614010
DESCRIPTION	PRESS STEEL COUPLING	2 HOLE COUPLING	ELECTRIC COUPLING & LEVER
WEIGHT RATING	750kg	2000kg	3500kg
SUITS TOWBALL SIZE	50mm	50mm	50mm
MOUNTING HOLE (LXW) & DIAMETER	90mm x 12.2mm	101.6mm x 13.5mm	182.5mm x 55mm x 13.5mm
SURFACE FINISH	ZINC PLATED	PAINTED	ZINC PLATED
BALL TO FIRST CENTRE HOLE (NOMINAL)	110mm	77mm	128mm

Helpful Hint: Use high tensile mounting bolts on all fixed couplings!

• OVER-RIDE COUPLING

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.

				
PART NUMBER	614040	614042	614050	614054
DESCRIPTION	HYDRAULIC OVER-RIDE COUPLING & 19mm MASTER CYLINDER	HYDRAULIC OVER-RIDE COUPLING & 22mm MASTER CYLINDER	MECHANICAL OVER-RIDE COUPLING & LEVER	MECHANICAL OVER-RIDE COUPLING ONLY
WEIGHT RATING	2000kg	2000kg	2000kg	2000kg
SUITS TOWBALL SIZE	50mm	50mm	50mm	50mm
MOUNTING HOLE (LXW) & DIAMETER	184mm x 54mm x 13.5mm	184mm x 54mm x 13.5mm	184mm x 54mm x 13.5mm	184mm x 54mm x 13.5mm
SURFACE FINISH	ZINC PLATED	ZINC PLATED	ZINC PLATED	ZINC PLATED
BALL TO FIRST CENTRE HOLE (NOMINAL)	137mm	137mm	137mm	137mm

• FIXED RING COUPLING

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.

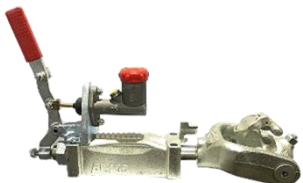
		
PART NUMBER	614304	614309
DESCRIPTION	3" RING FIXED COUPLING (3 HOLE)	3" RING FIXED COUPLING (4 HOLE)
WEIGHT RATING	3500kg	6000kg
RING SIZE	75mm	75mm
MOUNTING HOLE (LXW) & DIAMETER	103mm x 56mm x 16.8mm	182mm x 52mm x 16.8mm
SURFACE FINISH	ZINC PLATED	ZINC PLATED
BALL TO FIRST CENTRE HOLE (NOMINAL)	86mm	116mm

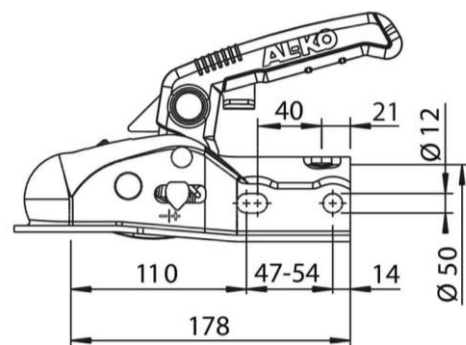
• OFF-ROAD COUPLING

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.

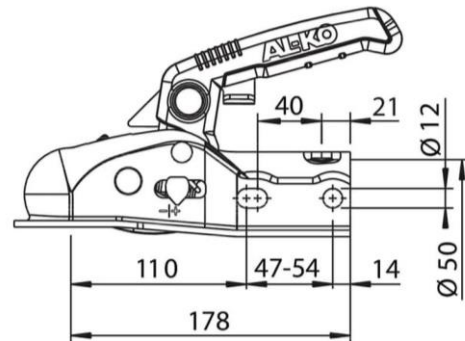
AL-KO has a range of suitable "off-road" couplings in both fixed and override functions to provide the appropriate articulation for this use.

				
PART NUMBER	619350	619200	619200/53	619200/43
DESCRIPTION	ELECTRIC SWIVEL OFF-ROAD COUPLING (NON-OVERRIDE) (NEW STYLE)	OVER-RIDE OFF-ROAD COUPLING ONLY (NEW STYLE)	MECHANICAL OVER-RIDE OFF-ROAD COUPLING & LEVER (NEW STYLE)	HYDRAULIC OVER-RIDE OFF-ROAD COUPLING & 19mm MASTER CYLINDER (NEW STYLE)
WEIGHT RATING	3500kg	2000kg	2000kg	2000kg
SUITS TOWBALL SIZE	50mm	50mm	50mm	50mm
MOUNTING HOLE (LXW)	184mm x 54mm	184mm x 54mm	184mm x 54mm	184mm x 54mm
SURFACE FINISH	ZINC PLATED	ZINC PLATED	ZINC PLATED	ZINC PLATED



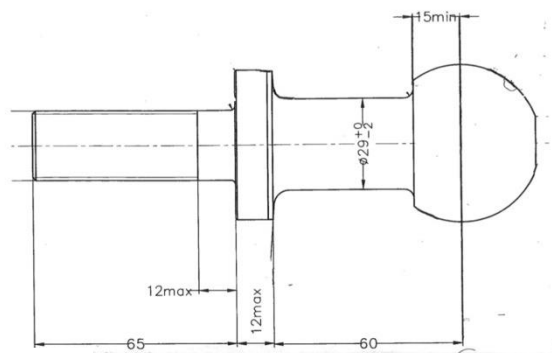
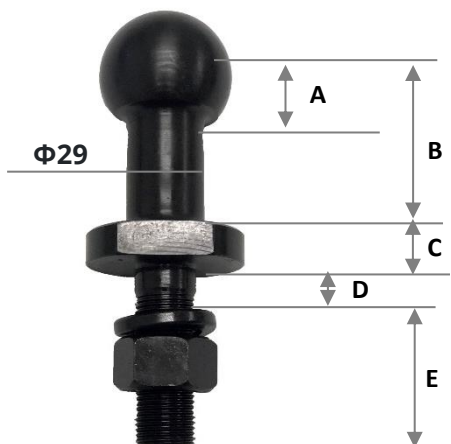
**AK AK161 50MM 1.6 TON COUPLING
SUIT 50MM RD DRAWBAR**

PART NO.	Maximum capacity	Maximum ball weight	Mounting hole centres	Mounting hole diameter	Shaft width	Shaft shape
991730219	1600KG	120	47-54MM	12mm	50MM	Round



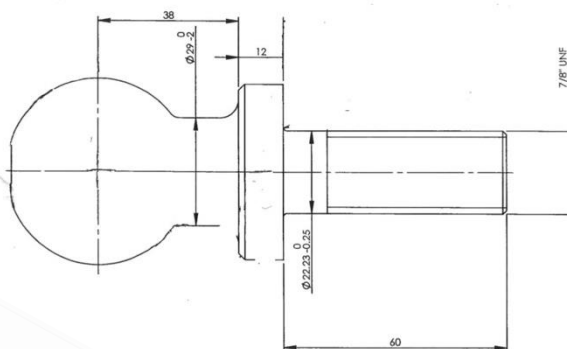
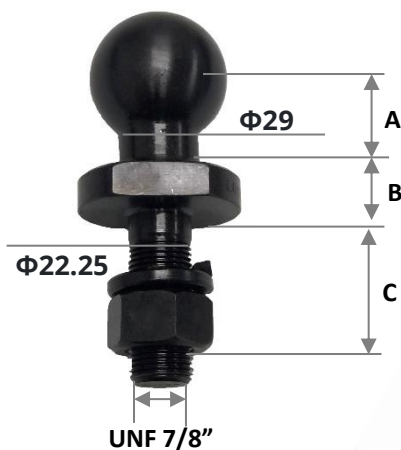
**AK AK270 50MM 2.7 TON COUPLING
SUIT 50MM RD DRAWBAR**

PART NO.	Maximum capacity	Maximum ball weight	Mounting hole centres	Mounting hole diameter	Shaft width	Shaft shape
991730082	2700Kg	120Kg	47-54MM	12mm	50MM	Round



AKS 3000 HIGH RISE TOW BALL

PART NO.	SUIT TOWBALL SIZE (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
618901	50	15	60	12	12	65



AKS 3000 STANDARD TOW BALL

PART NO.	SUIT TOWBALL SIZE (mm)	A (mm)	B (mm)	C (mm)	UNF
618904	50	38	12	60	7/8"

SPARE PARTS to suit SWAY CONTROL COUPLING

SA**TRAILER**

& CHASSIS EQUIPMENT

LOCKABLE COUPLINGS**AL-KO****614065LPL**

**COUPLING SNAP ON 2 & 3 HOLE ZINC
PLATED LOCKABLE INCLUDES LOCK & KEYS**

CAPACITY	SUITS BRAKING SYSTEM	HOLE CENTRES	BOLT HOLE SIZE	RECOMMENDED BOLT SIZE	RECOMMENDED BOLT GRADE
750 KG	NON BRAKED	3 BOLT 111MM X 51MM	13.5MM	10MM	GRADE A4-80

**614054LPL**

**COUPLING 2T OVERRIDE LOCKABLE ZINC
PLATED INCLUDES LOCK & KEYS NO BRAKE PLATE**

CAPACITY	SUITS BRAKING SYSTEM	HOLE CENTRES	BOLT HOLE SIZE	RECOMMENDED BOLT SIZE	RECOMMENDED BOLT GRADE
2000 KG	OVER RIDE HYDRAULIC & MECHANICAL	4 BOLT 184MM X 54MM	13.5MM	12MM	GRADE A4-80



614015L

COUPLING ELECTRIC LOCKABLE
3.5T ZINC PLATED INCLUDES LOCK & KEYS

CAPACITY	SUITS BRAKING SYSTEM	HOLE CENTRES	BOLT HOLE SIZE	RECOMMENDED BOLT SIZE	RECOMMENDED BOLT GRADE
3500 KG	ELECTRIC & POWER ASSISTED	4 BOLT 182.5MM X 55MM	13.5MM	12MM	GRADE A4-80



614015LPBWCA

COUPLING ELECTRIC LOCKABLE 3.5T PREMIUM
PUSH BUTTON PARK LEVER WITH CABLE ADJUSTER

CAPACITY	SUITS BRAKING SYSTEM	HOLE CENTRES	BOLT HOLE SIZE	RECOMMENDED BOLT SIZE	RECOMMENDED BOLT GRADE
3500 KG	ELECTRIC & POWER ASSISTED	4 BOLT 182.5MM X 55MM	13.5MM	12MM	GRADE A4-80

	PART No.	DESCRIPTION	SURFACE FINISH	MOUNTING HOLE (LXW) & DIAMETER
	P6575	19mm or 3/4" MASTER CYLINDER ONLY	--	--
	P7890	22mm or 7/8" MASTER CYLINER ONLY	--	--
	313001	19mm ALKO MASTER CYLINDER	--	--
	610943	MASTER CYLINDER MOUNT BRACKET c/w 19mm MASTER CYLINDER	ZINC PLATED	--
	610944	MASTER CYLINDER MOUNT BRACKET c/w 22mm MASTER CYLINDER	ZINC PLATED	--
	614053	MECHANICAL BASE PLATE & LEVER	ZINC PLATED	184mm x 54mm x 13.5mm
	619100	AK ZINC PLATED HANDBRAKE LEVER	ZINC PLATED	--

	PART NO.	DESCRIPTION
	619150	AK HANDBRAKE LEVER AUTOMOTIVE STYLE
	P4982	19MM MASTER CYLINDER CAP ONLY
 OR	MC78C	7/8" MASTER CYLINDER CAP ONLY WHITE/BLACK
	78BC	7/8" RESERVOIR COMPLETE & CAP
	78BOWL	7/8" PLASTIC BOWL ONLY No CAP
	618100	RETENSION PLATE to suit AKS 2000 & 3000 (SUITS TOWBALL SIZE : 50MM, SIZE : 75mm WIDE)