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PTO AND DRIVELINE COMPONENTS

PTO AND DRIVELINE COMPONENTS



Aline Trading P/L proudly presents the AKSAN KARDAN range of P.T.O shafts and accessories.

Aline Trading P/L is the sole distributor of the AKSAN KARDAN range of products for Australia. Established in 1979 AKSAN KARDAN, have proven themselves as a leader in their field. Their expert team based in Ankara and Chicago has developed a high quality yet cost effective range of products which are exported throughout Europe, America, The Middle East and Australia.

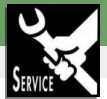
Please contact us today to discuss your requirements.

Note: Series T1 - T8 = Triangle tube.

Series T9 = Splined M profile shafts.

PTO SHAFT TECHNICAL INFORMATION

PTO AND DRIVELINE COMPONENTS / PTO SHAFT TECHNICAL INFORMATION



PTO shafts and associated drive line components are by their nature potentially very dangerous pieces of equipment that if not properly selected, serviced and operated can result in serious injury or death. Please use the information in this section to assist with the selection and servicing of our Aksan PTO shafts.

If you are still not sure, remember. WHEN IN DOUBT. ASK!

SAFETY INFORMATION

PTO AND DRIVELINE COMPONENTS / PTO SHAFT TECHNICAL INFORMATION / SAFETY INFORMATION



PTO - Drive Line Safety.

Warning:

PTO shafts can be very dangerous. A PTO shaft revolving at 540 rpm moves more than 2 metres in less than a second, and has the potential to cause serious injury or death if not used, and maintained properly.

Damaged or missing shielding is the main reason for entanglement. New machinery must have the appropriate shielding in place and must be maintained to prevent injury. Older machinery with damaged or no shielding is the most dangerous and must not be operated until the shielding has been repaired or replaced.

Operator awareness and monitoring of equipment is critical if PTO entanglement is to be avoided. Making repairs while a machine is operating, stepping over or onto revolving shafts, wearing loose or frayed clothing, are all actions that can lead to a serious accident.

Make safety a habit.

Remember:

- **Before** putting into operation or performing any maintenance, ensure all users read, understand and comply with the instructions provided with the implement or tractor.
- **Use** the PTO shafts for their intended use ONLY.
- **When** using PTO driveline equipment do not exceed the power limits or speed the equipment was designed for. If you do not know this information refer to the owner's manual or the manufacturer of the machine. (Shaft capacities are listed under our technical section on this site.)
- **Before** putting into service check for sufficient clearance for the PTO drive shaft in conjunction with the tractors master shield and the implement side safety shield in all operating conditions. (E.g. when cornering, traveling on uneven surfaces or at maximum working depth.) Check the length of the PTO shaft is correct and there is sufficient overlap of the telescopic tubing. In the case of attached or semi-mounted implements always ensure any hitches, lower links, supporting devices etc. are moved to suitable positions and secured to prevent contact with the PTO driveline. Contact between the PTO driveline and tractor or implements will result in damage to the PTO shaft.
- **Do not** exceed the maximum working angles for the PTO shafts. The PTO drive should be disengaged when the joint angle exceeds 45 degrees or the joint angles are unequal. **The maximum operating angle is 25 degrees.** However for short periods at reduced output the maximum angle where contact between PTO drive shaft guard and rotating components is avoided is 45 degrees. When Stationary the max joint angle is 90 degrees. Aim for small identical joint angles when operating the machine. **Wide angle** PTO shafts have a maximum operating angle of 25 degrees. For short periods at reduced output they can be used up to 80 degrees. When stationary the maximum joint angle is also 80 degrees. Greater angles will result in premature wear and damage to the joint. When a wide angle joint is used on a PTO shaft the pivot between the tractor and implement must equal the pivot point of the wide angled joint. The single joint at the other end of the shaft has to run straight.
- **Before each use**, check that all PTO drive shaft safety devices are fitted and fully functional. Ensure the PTO shaft is securely attached to the tractor and implement and safety chains are fitted correctly allowing for full movement before operating. **Only work with a completely guarded drive shaft!**
- **Never** operate the equipment if any shielding is damaged or missing.
- **Be kind to the equipment.** Wear and damage can be caused to the shaft and drive line by aggressively engaging or suddenly stopping the PTO drive.
- **A clutch** or torque limiter if used must be fitted to the implement end of the PTO shaft.
- **A Wide angle unit** if used is fitted to the tractor end of the PTO shaft.
- Any **replacement parts must** be suitable for the application i.e.: correct rating, length and shielding. It is highly suggested that you use our AKSAN spare parts whenever possible.
- **Stay away from any rotating parts.** Disengage the PTO drive turn off the tractor or drive unit and remove the key before going near the implement. Removing the key will ensure no one accidentally starts the equipment when you are working on it.

- **Never** step on, over or go under the PTO drive line.
- **Keep clear** of the equipment and especially the drive line. Wear appropriate clothing. Don't wear loose clothing, jewellery or long hair that could be caught in the drive line.
- **Only** transport a PTO shaft in a horizontal position. There is a risk of injury / accident or damage to the shaft should the two halves of the shaft fall apart.
- **PTO drive shaft components** (especially clutches) can reach high temperatures during operation. DO NOT TOUCH!

POWER RATINGS AND DIMENSIONS

PTO AND DRIVELINE COMPONENTS / PTO SHAFT TECHNICAL INFORMATION / POWER RATINGS AND DIMENSIONS



Please refer to the data below for shaft sizes and capacities.

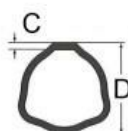
When replacing an old shaft please check the diameter and width of the cross kit (dim A & B) to ensure you are selecting a shaft of equivalent rating.

SERIES	540 - RPM			1000 - RPM			MAX DYNAMIC TORQUE
	POWER		TORQUE	POWER		TORQUE	
	KW	HP	N.m	KW	HP	N.m	
1	12	16	210	18	25	172	320
2	15	21	270	23	31	220	450
4	26	35	460	40	56	380	780
6	47	64	830	74	100	710	1450
8	70	95	1240	110	150	1050	2250
9	88	120	1560	140	190	1340	2900
Values related to 5 degree joint angles, 1000hrs life.							

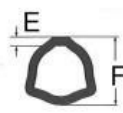
SERIES	DIMENSION					
	A	B	C	D	E	F
1	22	54	3.2	36	4	29
2	23.8	61.3	3.2	36	4	29
4	27	74.6	3.4	43.5	4.5	36
6	30.2	92	4	54	4	44.5
8	34.9	106.5	4	54	5.5	44.5
9	41	108.4	SEE DETAILS BELOW			



Cross kit
(Bearing)



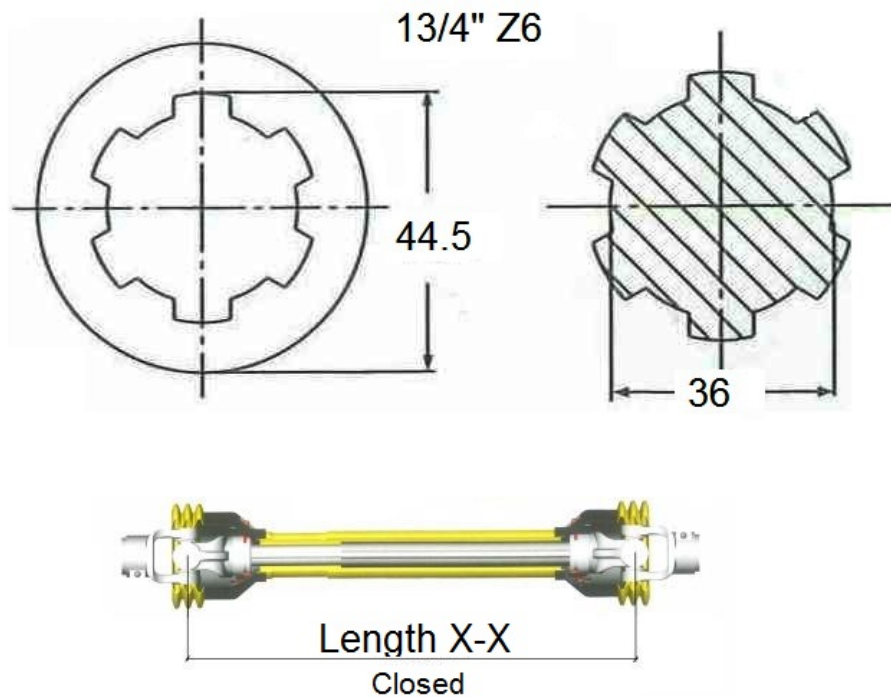
Outer



Inner

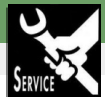
Telescopic sections

Below drawing shows splined M series shaft. Series 9 PTO shafts only.



SERVICING AND PROBLEM SOLVING

PTO AND DRIVELINE COMPONENTS / PTO SHAFT TECHNICAL INFORMATION / SERVICING AND PROBLEM SOLVING



PTO shafts encounter high stresses and loads during their operation. They are designed for this however can sometimes fail for various reasons. When this occurs there are often signs on the shaft or its components that will indicate the cause of the failure.

- **Yoke ears bent apart, power take-off shaft connections damaged, bearing damage on connecting shafts on implement or tractor.** Caused by compression of a PTO shaft that is too long for the application. This can be fixed by shortening the length of the PTO shaft. This process should only be carried out by a person experienced to do so.

- **Deformation / Damage to yoke ears.** Normally caused by excessive torque or shock load. Avoid overloading by engaging drive under load or at high speed. The tractors PTO should be engaged or disengaged at low revs allowing for a reduced shock load on the PTO shaft. A clutch if fitted may also need adjusting if yoke damage is identified.

- **Wear on yoke ears/sides.** This is caused by excessive working angles. The PTO should be disengaged when the joint angle exceeds 45 degrees or the joint angles are unequal. **The maximum operating angle is 25 degrees.** For short periods at reduced output the maximum angle where contact between PTO drive shaft guard and rotating components is avoided is 45 degrees. When Stationary the max joint angle is 90 degrees. Aim for small identical joint angles when operating the machine. **Wide angle** PTO shafts have a maximum operating angle of 25 degrees. For short periods at reduced output they can be used up to 80 degrees. When stationary the max joint angle is also 80 degrees. Greater angles will result in damage to the joint.

- **Excessive wear of telescopic tubing, shaft falls apart, telescopic sections widened.** " Poor lubrication or insufficient tube overlap. Under normal conditions the tubing should be greased every 50 hours. This may vary depending on the conditions encountered. **Telescopic tubes must overlap by at least half of their length during normal operating conditions** and one third of their length in all working conditions.

- **Damage / deformity of telescopic tubes.** Normally caused by excessive torque or shock load. Avoid overloading by engaging drive under load or at high speed. The tractors PTO should be engaged or disengaged at low revs allowing for a reduced shock load on the PTO shaft. A clutch if fitted may also need adjusting if tube damage is identified. Ensure that the PTO shaft does not come in contact with the tractor or machinery during operation or turning. Wear can also be caused by vibration resulting from unequal or excessive joint angles.

- **Bent telescopic tubes.** Normally caused by contact between PTO drive shaft and machine parts or tractor parts like draw bars or linkage arms. Ensure the shaft has clearance during all operating angles.

- **Wear of shield bearings.** Caused by insufficient lubrication. The shields fitted to our Aksan range of PTO shafts are supported by a nylon type bearing normally red or white in colour. These bearings are made from a nylon type material but still require lubrication (grease) to reduce friction wear. Lubricate every 8 hours.

- **Accelerated wear in cross bearings.** Normally caused by excessive load encountered when operating equipment at higher than recommended speeds or power ratings.

- **Cross Bearing arms broken.** Normally caused by excessive torque peak or shock load. Can be a result of a poorly adjusted clutch, impact, or poor driver practice by engaging or disengaging the drive under load or excessive speed.

- **Centring system on wide angle joint broken.** Caused by bending of the joint during operation of standstill by more than 80 degrees. Prevent excess bending by modifying the hitch or operating procedure.

Note. A Poorly adjusted clutch or the absence of a clutch device is cause of the majority of PTO shaft failures we see. This is followed by abuse caused by sharp turning or inappropriate work angles and general lack of lubrication (Grease). Wide angle PTO shafts are particularly prone to failure due to lack of lubrication or poor set up. A wide angle PTO joint should be greased every 8 hours. More often in some conditions. This lubrication is sometimes overlooked or postponed due to the protective shielding around the wide angle joint and will result in premature wear and a reduced life span of the shaft.

Lubrication:

Grease type: Lithium saponified

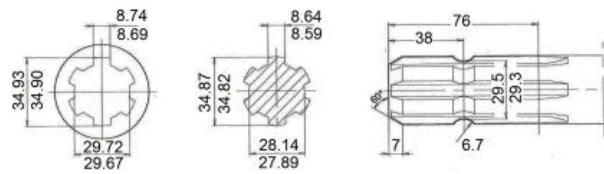
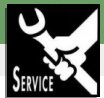
Consistence class: NL-G12

Grease qty: 15g approx. 5 strokes.

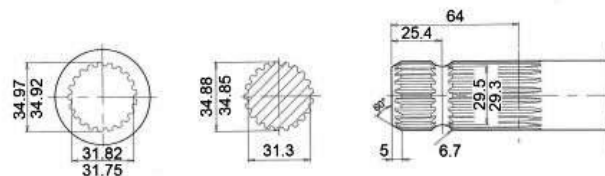
Frequency: Joints cover etc. every 8 hours. Telescopic tube every 50 hours. These may vary depending on specific applications.

STANDARD AGRICULTURAL SPLINES

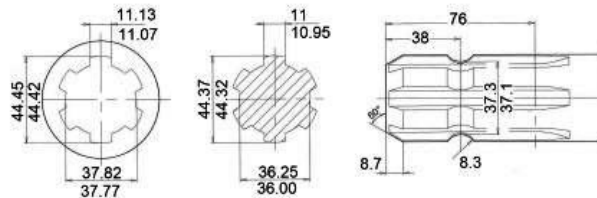
PTO AND DRIVELINE COMPONENTS / PTO SHAFT TECHNICAL INFORMATION / STANDARD AGRICULTURAL SPLINES



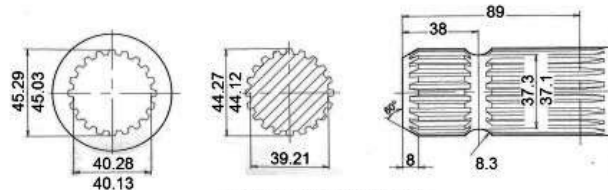
13/8Z6 - STANDARD 540 RPM SPLINE



13/8Z21 - SMALL 1000 RPM SPLINE



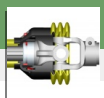
13/4Z6 - 1000 RPM SPLINE



13/4Z20 - 1000 RPM SPLINE

SERIES 1 PTO - 16/25 HP

PTO AND DRIVELINE COMPONENTS / SERIES 1 PTO - 16/25 HP



Aline Trading Pty Ltd stock a diverse range of complete PTO shafts and components.

Listed below are some of the common versions we supply. Other combinations can be assembled to order.

We welcome orders from one off specials to large volume OEM requirements.

Please contact us today to discuss your requirements.

Notes:

- Lengths shown below are measured from bearing centre to bearing centre.

- Shaft extension - Shafts should be installed with a 50% (half) tube overlap under normal conditions. A minimum overlap of one third is recommended under all conditions. Extensions above this will result in premature shaft wear / failure.

Common terms:

* QR = Quick release. Refers to yoke or clutch hub style.

* CB = clamp bolt. Refers to yoke or clutch hub style.

* Plain = Non splined bore. Normally supplied with keyway and grub screws for attachment.

* Plain CB = as per plain above with the addition of a clamp bolt for attachment.

* 13/8Z6 = Standard 540 RPM 13/8" diameter 6 spline.

* 13/8Z21 = Standard 1000 RPM 13/8" diameter 21 spline.

* 13/4Z20 = Standard 1000 RPM 13/4" diameter 20 spline.

* 13/4Z6 = Standard 1000 RPM 13/4" diameter 6 spline.

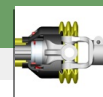
All content © 2013 A-Line Trading - Component Solutions

SPECIFICATIONS							
BEARING	540 - RPM			1000 - RPM			MAX DYNAMIC TORQUE
	POWER		TORQUE	POWER		TORQUE	
	KW	HP	N.m	KW	HP	N.m	
22 x 54	12	16	210	18	25	172	450
Values related to 5 degree joint angles, 1000hrs life.							

Standard Series 1 Shafts			
Part No	Length X-X	End 1	End 2
AL02064	610	13/8Z6 QR	13/8Z6 QR

SERIES 2 PTO - 21/31 HP

PTO AND DRIVELINE COMPONENTS / SERIES 2 PTO - 21/31 HP



Aline Trading Pty Ltd stock a diverse range of complete PTO shafts and components.

Listed below are some of the common versions we supply. Other combinations can be assembled to order.

We welcome orders from one off specials to large volume OEM requirements.

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Notes:

- Lengths shown below are measured from bearing centre to bearing centre.

- Shaft extension - Shafts should be installed with a 50% (half) tube overlap under normal conditions. A minimum overlap of one third is recommended under all conditions. Extensions above this will result in premature shaft wear / failure.

Common terms:

* QR = Quick release. Refers to yoke or clutch hub style.

* CB = clamp bolt. Refers to yoke or clutch hub style.

* Plain = Non splined bore. Normally supplied with keyway and grub screws for attachment.

* Plain CB = as per plain above with the addition of a clamp bolt for attachment.

* 13/8Z6 = Standard 540 RPM 13/8" diameter 6 spline.

* 13/8Z21 = Standard 1000 RPM 13/8" diameter 21 spline.

* 13/4Z20 = Standard 1000 RPM 13/4" diameter 20 spline.

* 13/4Z6 = Standard 1000 RPM 13/4" diameter 6 spline.

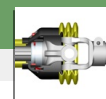
SPECIFICATIONS							
BEARING	540 - RPM			1000 - RPM			MAX DYNAMIC TORQUE
	POWER		TORQUE	POWER		TORQUE	
	KW	HP	N.m	KW	HP	N.m	
23.8 x 61.3	15	21	270	23	31	220	450
Values related to 5 degree joint angles, 1000hrs life.							

Standard Series 2 Shafts			
Part No	Length X-X	End 1	End 2
AL02071	610	13/8Z6 QR	13/8Z6 QR
AL02069	610	1" PLAIN CB	1" PLAIN CB
AL02072	610	13/8Z6 QR	13/8Z6 CB
AL02073	610	13/8Z6 QR	1" PLAIN
AL02074	610	13/8Z6 QR	25mm PLAIN
AL02075	610	13/8Z6 QR	30mm PLAIN
AL02077	610	25mm PLAIN	25mm PLAIN
AL02084	810	13/8Z6 QR	13/8Z6 QR
AL02085	810	11/4 PLAIN CB	11/4 PLAIN CB
AL02086	1010	13/8Z6 QR	13/8Z6 QR
AL02088	1010	13/8Z6 QR	25mm PLAIN
AL02089	1010	13/8Z6 QR	30mm PLAIN
AL02091	1210	13/8Z6 QR	13/8Z6 QR
AL02095	1210	13/8Z6 QR	1" PLAIN

Series Series 2 shafts with clutch.				
Part No	Length X-X	Yoke End	Clutch End	Clutch
AL02070	660	13/8Z6 QR	13/8Z6 CB	YK2-600Nm

SERIES 4 PTO - 35/56 HP

PTO AND DRIVELINE COMPONENTS / SERIES 4 PTO - 35/56 HP



Aline Trading Pty Ltd stock a diverse range of complete PTO shafts and components.

Listed below are some of the common versions we supply. Other combinations can be assembled to order.

We welcome orders from one off specials to large volume OEM requirements.

Please contact us today to discuss your requirements.

Notes:

- Lengths shown below are measured from bearing centre to bearing centre.

- Shaft extension - Shafts should be installed with a 50% (half) tube overlap under normal conditions. A minimum overlap of one third is recommended under all conditions. Extensions above this will result in premature shaft wear / failure.

Common terms:

* QR = Quick release. Refers to yoke or clutch hub style.

* CB = clamp bolt. Refers to yoke or clutch hub style.

* Plain = Non splined bore. Normally supplied with keyway and grub screws for attachment.

* Plain CB = as per plain above with the addition of a clamp bolt for attachment.

* 13/8Z6 = Standard 540 RPM 13/8" diameter 6 spline.

* 13/8Z21 = Standard 1000 RPM 13/8" diameter 21 spline.

* 13/4Z20 = Standard 1000 RPM 13/4" diameter 20 spline.

* 13/4Z6 = Standard 1000 RPM 13/4" diameter 6 spline.

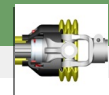
SPECIFICATIONS							
BEARING	540 - RPM			1000 - RPM			MAX DYNAMIC TORQUE
	POWER		TORQUE	POWER		TORQUE	
	KW	HP	N.m	KW	HP	N.m	
27 x 74.6	26	35	460	40	56	380	780
Values related to 5 degree joint angles, 1000hrs life.							

Standard Series 4 Shafts			
Part No	Length X-X	End 1	End 2
AL02112	710	25mm PLAIN	25mm PLAIN
AL02120	810	13/8Z6 QR	13/8Z6 QR
AL02123	760	13/8Z6 QR	11/2" PLAIN CB
AL02126	760	13/8Z6 QR	13/8" PLAIN CB
AL02139	960	13/8Z6 QR	13/8Z6 QR
AL02140	960	13/8Z6 QR	35mm PLAIN CB
AL02151	1160	13/8Z6 QR	13/8Z6 QR
AL02154	1160	13/8Z6 QR	11/2 PLAIN
AL02155	1160	13/8Z6 QR	13/8 PLAIN CB
AL02171	1660	13/8Z6 QR	13/8Z6 QR
AL02173	1660	13/8Z6 QR	11/4 PLAIN CB

Series 4 shafts with clutch.				
Part No	Length X-X	Yoke End	Clutch End	Clutch
AL02114	710mm	13/8Z6 QR	13/8Z6 CB	PK4-780Nm SHEAR BOLT
AL02115	710	13/8Z6 QR	13/8Z6 QR	SD1-1600Nm O/RUN
AL02118	760	13/8Z6 QR	13/8Z6 CB	BS1-900Nm FRICTION
AL02119	760	13/8Z6 QR	11/4 PLAIN CB	BS1-900Nm FRICTION
AL02127	760	13/8Z21 QR	13/8Z6 CB	BS1-900Nm FRICTION
AL02137	960	13/8Z6 QR	13/8Z6 CB	BS1-900Nm FRICTION
AL02148	1110	13/8Z6 QR	13/8Z6 QR	YK4-1000Nm RADIAL PIN
AL02149	1160	13/8Z6 QR	13/8Z6 CB	BS1-900Nm FRICTION
AL02169	1660	13/8Z6 QR	13/8Z6 CB	BS1-900Nm FRICTION
AL02170	1660	13/8Z6 QR	11/4 PLAIN CB	BS1-900Nm FRICTION

SERIES 6 PTO - 64/100 HP

PTO AND DRIVELINE COMPONENTS / SERIES 6 PTO - 64/100 HP



Aline Trading Pty Ltd stock a diverse range of complete PTO shafts and components.

Listed below are some of the common versions we supply. Other combinations can be assembled to order.

We welcome orders from one off specials to large volume OEM requirements.

Please contact us today to discuss your requirements.

Notes:

- Lengths shown below are measured from bearing centre to bearing centre.

- Shaft extension - Shafts should be installed with a 50% (half) tube overlap under normal conditions. A minimum overlap of one third is recommended under all conditions. Extensions above this will result in premature shaft wear / failure.

Common terms:

* QR = Quick release. Refers to yoke or clutch hub style.

* CB = clamp bolt. Refers to yoke or clutch hub style.

* Plain = Non splined bore. Normally supplied with keyway and grub screws for attachment.

* Plain CB = as per plain above with the addition of a clamp bolt for attachment.

* 13/8Z6 = Standard 540 RPM 13/8" diameter 6 spline.

* 13/8Z21 = Standard 1000 RPM 13/8" diameter 21 spline.

* 13/4Z20 = Standard 1000 RPM 13/4" diameter 20 spline.

* 13/4Z6 = Standard 1000 RPM 13/4" diameter 6 spline.

SPECIFICATIONS							
BEARING	540 - RPM			1000 - RPM			MAX DYNAMIC TORQUE
	POWER		TORQUE	POWER		TORQUE	
	KW	HP	N.m	KW	HP	N.m	
30.2 x 92	47	64	830	74	100	710	1450
Values related to 5 degree joint angles, 1000hrs life.							

Values related to 5 degree joint angles, 1000hrs life.



Standard Series 6 Shafts.			
Part No	Length X-X	End 1	End 2
AL02191	760	13/8 Z6 QR	11/2 " PLAIN CB
AL02192	760	13/8 Z6 QR	11/2" PLAIN
AL02193	760	13/8 Z6 QR	13/8 Z6 QR
AL02194	760	13/8 Z6 QR	13/8 Z21 QR
AL02204	960	13/8 Z21 QR	13/8 Z21 QR
AL02207	960	13/8 Z6 QR	13/8 Z6 QR
AL02208	960	13/8 Z6 QR	13/8 Z21 QR
AL02209	960	13/8 Z6 QR	13/4 Z20 QR
AL02210	960	13/8 Z6 QR	13/8 Z6 CB
AL02211	960	13/8 Z6 QR	11/2" PLAIN CB
AL02608	960	13/8 Z6 QR	35mm PLAIN CB
AL02646	960	13/4 Z20 QR	13/4 Z20 QR
AL02218	1260	13/8 Z6 QR	13/4 Z20 QR
AL02224	1260	13/8 Z6 QR	13/8 Z6 QR
AL02229	1260	13/8 Z6 QR	11/2" PLAIN CB
AL02230	1260	13/8 Z6 QR	13/8" PLAIN CB
AL02248	1660	13/8 Z6 QR	13/8 Z6 QR
AL02249	1660	13/8 Z6 QR	13/4 Z20 QR
AL02159	2260	13/8 Z6 QR	13/8 Z6 QR NO COVER
AL02160	2260	13/8 Z6 CB	13/8 Z6 CB NO COVER

Series 6 shafts with clutch.				
Part No	Length X-X	Yoke End	Clutch End	Clutch
AL02142	910mm	13/4Z20 QR	13/4Z20 CB	BS2-1200Nm FRICTION
AL02205	910	13/8Z6QR	13/8Z6 CB	BS2-1200Nm FRICTION
AL02206	910	13/8Z6 QR	13/8Z6 CB	BSD1-1200Nm FRICTION O/RUN
AL02212	910	13/8Z21 QR	13/8Z6 CB	BS2-1200Nm FRICTION
AL02215	910	13/4Z20 QR	13/8Z6 CB	BS2-1200Nm FRICTION
AL02220	1210	13/8Z6 QR	13/8Z6 QR	PK6-1050Nm SHEAR BOLT
AL02221	1210	13/8Z6 QR	13/8Z6 CB	BS2-1200Nm FRICTION
AL02222	1210	13/8Z6 QR	13/4Z6 CB	BS2-1200Nm FRICTION
AL02223	1210	13/8Z6 QR	13/8Z6 CB	BSD1-1200Nm FRICTION O/RUN
AL02228	1210	13/8Z6 QR	11/2" PLAIN CB	BS2-1200Nm FRICTION
AL02231	1210	13/8Z21 QR	13/8Z6 CB	BS2-1200Nm FRICTION
AL02232	1210	13/8Z21 QR	13/4Z6 CB	BS2-1200Nm FRICTION
AL02236	1210	13/4Z20 QR	13/8Z6 CB	BS2-1200Nm FRICTION
AL02237	1210	13/4Z20 QR	13/4Z6 CB	BS2-1200Nm FRICTION
AL02238	1610	13/4Z20 QR	13/4Z20 CB	BS2-1200Nm FRICTION
AL02239	1610	13/8Z6QR	13/4Z20 CB	BS2-1200Nm FRICTION
AL02240	1610	13/8Z21 QR	13/4Z20 CB	BS2-1200Nm FRICTION
AL02241	1610	13/8Z6 QR	13/4Z6 CB	BS2-1200Nm FRICTION
AL02245	1610	13/8Z6 QR	13/8Z6 CB	BS2-1200Nm FRICTION
AL02247	1660	13/8Z6 QR	13/8Z6 CB	BSD1-1200Nm FRICTION O/RUN
AL02254	1610	13/4Z20 QR	13/4Z6 CB	BS2-1200Nm FRICTION
AL02255	1610	13/8Z21 QR	13/8Z6 CB	BSD1-1200Nm FRICTION O/RUN
AL02256	1610	13/4Z20 QR	13/8Z6 CB	BS2-1200Nm FRICTION
AL02257	1610	13/4Z20 QR	13/8Z6 CB	BSD1-1200Nm FRICTION O/RUN
AL02258	1610	13/8Z21 QR	13/4Z6 CB	BS2-1200Nm FRICTION

SERIES 6 WIDE ANGLE PTO 53/83HP

PTO AND DRIVELINE COMPONENTS / SERIES 6 WIDE ANGLE PTO 53/83HP



These wide angle PTO shafts give the agricultural machine the ability to turn on land and work on uneven surfaces at 25 degree angles and up to 80 degree angles for short periods at reduced output. This device gives the possibility to work up to 80 degrees. When stationary the maximum bend angle is also 80 degrees. The wide angle unit is normally fitted to the tractor side but can also be fitted to the implement end when required. Please refer to the safety & servicing sections for further information.

Suitable for tractors between 31-50 HP.

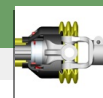
Series 6 Wide Angle Shafts			
Part No	Length X-X	End 1	End 2
AL02201	960	13/8Z6 QR G8 WIDE ANGLE	13/8Z6 QR



SPECIFICATIONS						
BEARING	540 - RPM			1000 - RPM		
	POWER		TORQUE	POWER		TORQUE
	KW	HP	N.m	KW	HP	N.m
32 x 76 27 x 94	39	53	695	61	83	580
Values related to 10 degree joint angles, 1000hrs life.						

SERIES 8 PTO - 95/150 HP

PTO AND DRIVELINE COMPONENTS / SERIES 8 PTO - 95/150 HP



Aline Trading Pty Ltd stock a diverse range of complete PTO shafts and components.

Listed below are some of the common versions we supply. Other combinations can be assembled to order.

We welcome orders from one off specials to large volume OEM requirements.

Please contact us today to discuss your requirements.

Notes:

- Lengths shown below are measured from bearing centre to bearing centre.

- Shaft extension - Shafts should be installed with a 50% (half) tube overlap under normal conditions. A minimum overlap of one third is recommended under all conditions. Extensions above this will result in premature shaft wear / failure.

Common terms:

* QR = Quick release. Refers to yoke or clutch hub style.

* CB = clamp bolt. Refers to yoke or clutch hub style.

* Plain = Non splined bore. Normally supplied with keyway and grub screws for attachment.

* Plain CB = as per plain above with the addition of a clamp bolt for attachment.

* 13/8Z6 = Standard 540 RPM 13/8" diameter 6 spline.

* 13/8Z21 = Standard 1000 RPM 13/8" diameter 21 spline.

* 13/4Z20 = Standard 1000 RPM 13/4" diameter 20 spline.

* 13/4Z6 = Standard 1000 RPM 13/4" diameter 6 spline.

SPECIFICATIONS						
BEARING	540 - RPM			1000 - RPM		
	POWER		TORQUE	POWER		TORQUE
	KW	HP	N.m	KW	HP	N.m
34.9 x 106.5	70	95	1240	110	150	1050
Values related to 5 degree joint angles, 1000hrs life.						

Standard Series 8 Shafts			
Part No	Length X-X	End 1	End 2
AL02267	860	13/4Z20 QR	13/4Z20 QR
AL02274	1110	13/8Z6 QR	13/8Z6 QR
AL02275	1110	13/8Z6 QR	13/4Z20 QR
AL02278	1110	13/8Z21 QR	13/8Z21 QR
AL02283	1110	13/4Z20 QR	13/4Z20 QR
AL02285	1110	13/4Z20 QR	13/4Z6 QR
AL02280	1610	13/8Z6 QR	13/8Z6 QR

Series 8 shafts with clutch.				
Part No	Length X-X	Yoke End	Clutch End	Clutch
AL02266	600	13/4Z20 CB	13/4Z20 CB	BSD3-1700Nm FRICTION O/RUN
AL02271	1110	13/8Z6 QR	13/8Z6 CB	BS4-1700Nm FRICTION
AL02272	1110	13/8Z6 QR	13/4Z6 CB	BS4-1700Nm FRICTION
AL02273	1110	13/8Z6 QR	13/4Z20 CB	BS4-1700Nm FRICTION
AL02281	1110	13/4Z20 QR	13/4Z6 CB	BS4-1700Nm FRICTION
AL02282	1110	13/4Z20 QR	13/4Z20 CB	BS4-1700Nm FRICTION
AL02286	1110	13/8Z6 QR	13/4Z20 CB	BSD3-1700Nm FRICTION O/RUN
AL02288	1110	13/4Z20 QR	13/4Z20 CB	BSD3-1700Nm FRICTION O/RUN
AL02289	1110	13/8Z21 QR	13/4Z20 CB	BSD3-1700Nm FRICTION O/RUN
AL02276	1610	13/8Z6 QR	13/4Z6 CB	BS4-1700Nm FRICTION
AL02277	1610	13/4Z20 QR	13/4Z6 CB	BS4-1700Nm FRICTION
AL02279	1610	13/4Z20 QR	13/4Z20 CB	BSD3-1700Nm FRICTION O/RUN

SERIES 8 WIDE ANGLE PTO 90/139 HP

PTO AND DRIVELINE COMPONENTS / SERIES 8 WIDE ANGLE PTO 90/139 HP



These wide angle PTO shafts give the agricultural machine the ability to turn on land and work on uneven surfaces at 25 degree angles and up to 80 degree angles for short periods at reduced output. This device gives the possibility to work up to 80 degrees. When stationary the maximum bend angle is also 80 degrees. The wide angle unit is normally fitted to the tractor side but can also be fitted to the implement end when required. Please refer to the safety & servicing sections for further information.

Suitable for tractors between 51-110 HP

Series 8 Wide Angle Shafts			
Part No	Length X-X	End 1	End 2
AL02268	1150	13/8Z6 QR G8 WIDE ANGLE	13/8Z6 QR



SPECIFICATIONS						
BEARING	540 - RPM			1000 - RPM		
	POWER		TORQUE	POWER		TORQUE
	KW	HP	N.m	KW	HP	N.m
39 x 89 32 x 110	66	90	1175	102	139	975
Values related to 10 degree joint angles, 1000hrs life.						

SERIES 9 PTO - 120/190HP

PTO AND DRIVELINE COMPONENTS / SERIES 9 PTO - 120/190HP



Aline Trading Pty Ltd stock a diverse range of complete PTO shafts and components.

Listed below are some of the common versions we supply. Other combinations can be assembled to order.

We welcome orders from one off specials to large volume OEM requirements.

Please contact us today to discuss your requirements.

Notes:

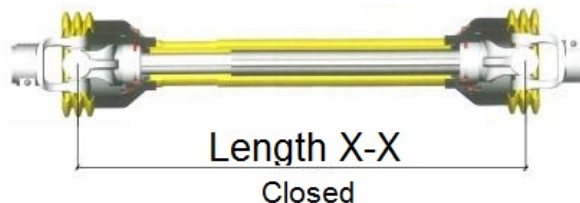
- Lengths shown below are measured from bearing centre to bearing centre.
- Shaft extension - Shafts should be installed with a 50% (half) tube overlap under normal conditions. A minimum overlap of one third is recommended under all conditions. Extensions above this will result in premature shaft wear / failure.

Common terms:

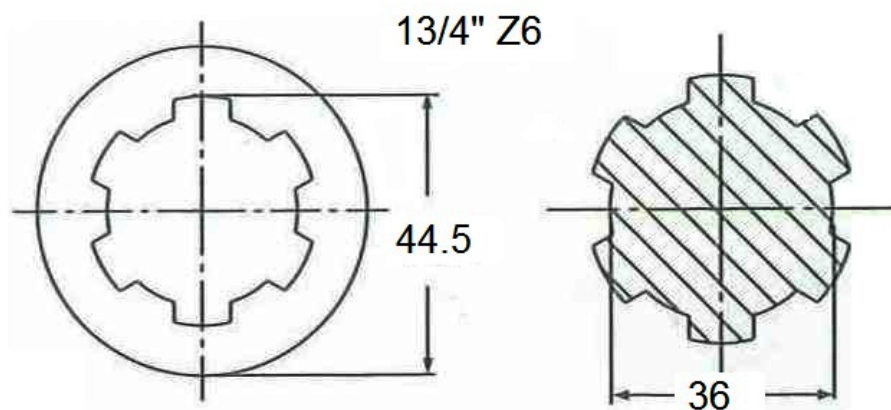
- * QR = Quick release. Refers to yoke or clutch hub style.
- * CB = clamp bolt. Refers to yoke or clutch hub style.
- * Plain = Non splined bore. Normally supplied with keyway and grub screws for attachment.
- * Plain CB = as per plain above with the addition of a clamp bolt for attachment.
- * 13/8Z6 = Standard 540 RPM 13/8" diameter 6 spline.
- * 13/8Z21 = Standard 1000 RPM 13/8" diameter 21 spline.
- * 13/4Z20 = Standard 1000 RPM 13/4" diameter 20 spline.
- * 13/4Z6 = Standard 1000 RPM 13/4" diameter 6 spline.

SPECIFICATIONS							
BEARING	540 - RPM			1000 - RPM			MAX DYNAMIC TORQUE
	POWER		TORQUE	POWER		TORQUE	
	KW	HP	N.m	KW	HP	N.m	
41 x 108.6	88	120	1560	140	190	1340	2900
Values related to 5 degree joint angles, 1000hrs life.							

Series 9 shafts with clutch.				
Part No	Length X-X	Yoke End	Clutch End	Clutch
AL02291	1610	13/4Z20 QR	13/4Z20 CB	BS6-3000Nm 6 PLATE FRICTION O/RUN



Detail of Series T9 solid splined shaft shown below.



CLUTCHES

PTO AND DRIVELINE COMPONENTS / CLUTCHES



SAFETY DEVICES

These devices, in various types and capacities are used to protect the tractor, agricultural machine and the drive shaft against damage caused by over- consumption of energy caused by the overloading of the agricultural machinery in operation.

Aline Trading P/L stock a range of these devices to cover most applications.

Non stock items can be ordered for OEM's if required. Min qtys may apply.

Note: According to international regulations, safety devices (clutches) are designed to be mounted on the machinery side and must be installed with adequate safety guards.

Common terms:

- * QR = Quick release. Refers to yoke or clutch hub style.
- * CB = clamp bolt. Refers to yoke or clutch hub style.
- * Plain = Non splined bore. Normally supplied with keyway and grub screws for attachment.
- * Plain CB = as per plain above with the addition of a clamp bolt for attachment.
- * 13/8Z6 = Standard 540 RPM 13/8" diameter 6 spline.
- * 13/8Z21 = Standard 1000 RPM 13/8" diameter 21 spline.
- * 13/4Z20 = Standard 1000 RPM 13/4" diameter 20 spline.
- * 13/4Z6 = Standard 1000 RPM 13/4" diameter 6 spline.

Friction Clutch

PTO AND DRIVELINE COMPONENTS / CLUTCHES / Friction Clutch



This device protects the agricultural machine and the drive shaft against possible damages by the help of the pre-set torque, due to sudden increases in power consumption of the tractor in operation. The torque is altered by adjusting the tension of the externally mounted springs. Instructions for clutch adjustment are shown separately under friction clutch set up and adjustment.

Friction clutches are available in either 2, 4 or 6 plate models depending on the torque required. They are also supplied with a spline shaft input for use as a separate item or with bearing ears to be incorporated with your PTO shaft.

This device is fitted to the implement side of the PTO shaft.

Aline Trading present a select range of products suitable for popular applications. Other items are available to order for OEM applications.

Note : C.B = Clamp Bolt.

Part No	Model	Torque Nm	Input Yoke / Shaft	Output Bore
AL00316	BS1	900	T4 YOKE	13/8Z6 CB
AL00317	BSM1	900	13/8Z6	13/8Z6 CB
AL00318	BS2	1200	T6 YOKE	13/8Z6 CB
AL00321	BSM2	1200	13/8Z6	13/8Z6 CB
AL00322	BSM2	1200	13/8Z6	11/2" PLAIN CB
AL00323	BS4	1700	T8 YOKE	13/8Z6 CB
AL00324	BS4	1700	T8 YOKE	13/4Z20 CB
AL00325	BSM4	1700	13/8Z6	13/4Z6 CB
AL00329	BSM2	1200	13/8Z6	13/4Z20 CB
AL00332	BSM4	1700	13/8Z6	13/8Z6 CB
AL00348	BSM4	1700	13/4Z20	13/4Z6 CB
AL00356	BSM4	1700	13/4Z20	13/4Z20 CB
AL00392	BSM2	1200	13/8Z6	13/4Z6 CB

AL00321 - BSM2 CLUTCH

13/8Z6 MALE - 13/8Z6 CB (CLAMP BOLT)



AL00316 - BS1CLUTCH

T4 YOKE - 13/8Z6 CB (CLAMP BOLT)



AL00356 - BSM4 CLUTCH
13/4Z20 - 13/4Z20 CB (CLAMP BOLT)



Friction overrun clutch

PTO AND DRIVELINE COMPONENTS / CLUTCHES / Friction overrun clutch



Friction and overrunning clutches are combined clutches in which a friction clutch protects the agricultural machine and drive shaft against torque peaks, while the overrunning clutch eliminates the effects of rotating masses when a tractor in operation is suddenly stopped or slowed down.

This device is fitted to the implement side of the PTO shaft.

Aline Trading present a select range of products suitable for popular applications. Other items are available to order for OEM applications.

Part No	Model	Torque	Input	Output
AL00310	BSD1	1200Nm	T6 YOKE	13/8Z6 CB
AL00312	BSD1	1200Nm	T6 YOKE	13/4Z20 CB
AL00320	BSD1	1200Nm	T6 YOKE	13/8Z6 QR
AL00331	BSDM1	1200Nm	13/8Z6 SHAFT	13/8Z6 CB
AL00313	BSD3	1700Nm	T8 YOKE	13/4Z20 CB
AL00385	BSD5	3000Nm	T9 YOKE	13/4Z20 CB

P/No AL00310

T6 Yoke - 13/8Z6 CB



P/No AL00313

T8 yoke - 13/4Z20 CB



Shear bolt clutch

PTO AND DRIVELINE COMPONENTS / CLUTCHES / Shear bolt clutch



This safety device avoids the transmission of the rotational motion through the agricultural machine due to overloading, by the help of a bolt that shears off while the assembly of the hub and yoke are kept together by a ball bearing allowing the two parts to rotate independently.

This device is fitted to the implement side of the PTO shaft.

Aline Trading present a select range of products suitable for popular applications. Other items are available to order for OEM applications.

Part No	Model	Torque Nm	Input	Output
AL00307	PK4	780	T4 YOKE	13/8Z6 QR
AL00308	PK6	1050	T6 YOKE	13/8Z6 QR
AL00326	PK8	2160	T8 YOKE	13/8Z6 QR



Overrunning clutch

PTO AND DRIVELINE COMPONENTS / CLUTCHES / Overrunning clutch



This device gradually eliminates the kinetic energy accumulated on the flywheel of the agricultural machine, stopping the energy from being transmitted through the tractor when the tractor is in operation and is suddenly stopped or slowed down. When used on an assembly with another safety clutch on the same drive shaft, the overrunning clutch is mounted on the tractor side.

Aline Trading present a select range of products suitable for popular applications. Other items are available to order for OEM applications.

Part No	Model	Input	Output	Torque
AL00311	SDM1	13/8 Z6	13/8z6 QR	1600 Nm
AL00309	SDM3	13/4Z20	13/4Z20 CB	2400 Nm
AL00292	SD1	T4 Yoke	13/4Z6 QR	1600 Nm

AL00309 Shown Below.



Radial Pin Clutch

PTO AND DRIVELINE COMPONENTS / CLUTCHES / Radial Pin Clutch



This device is used to protect the tractor, agricultural machine and drive shaft against possible damages caused by overloads of the agricultural machine, by allowing temporary slippage. Sound during slipping signifies the overload. The tractor should be stopped in order to avoid excessive wear.

This device is fitted to the implement side of the PTO shaft.

Aline Trading present a select range of products suitable for popular applications. Other items are available to order for OEM applications.

Part No	Model	Input	Output	Torque
AL00314	YKM2	13/8 Z6	13/8Z6 QR	600 Nm
AL00315	YK4	T4 Yoke	13/8Z6 QR	1000 Nm
AL00319	YKM4	13/8 Z6	13/8Z6 QR	1200 Nm



Friction clutch set up and adjustment.

PTO AND DRIVELINE COMPONENTS / CLUTCHES / Friction clutch set up and adjustment.



FRICITION CLUTCH SETTING

Factory settings.

When delivered from the factory, friction clutches are normally set to their rated torque settings. This is achieved by tensioning the clutch springs to their maximum compressed length. Compressing the springs beyond these lengths will cause damage to the clutch

7mm diameter springs. Max compressed spring length = 32.5mm 2 plate clutch = 1200 Nm, 4 plate clutch = 1700 Nm. (New series)

6mm diameter springs. Max compressed spring length = 28.5mm 2 plate clutch = 720 Nm, 4 plate clutch = 1300 Nm (Old series)

In many cases the clutch will need to be set to suit the specific application. This can be done by following the procedure below.

Slip clutches need to be set if one of the following occurs:

The clutch is new.

The clutch has been repaired (including replacing the friction discs).

The clutch is slipping in work (clutch getting hot, burning out friction discs, machine slowing down in work)

The clutch has been freed up after a period of storage (see "how to free up clutch" below).

How to set clutch:

The setting on the clutch is dependent on many variables - the work, the size of the tractor, the size of the machine. It is best to set up each clutch individually if possible. The aim is to start with a loose clutch and tighten it up to the exact point where it stops slipping in normal work. If set in this way the clutch will slip if any load exceeds this point, protecting both machine and tractor. It is best to set up the clutch with the machine on the tractor and in conditions which approximate to the normal work the machine does.

The bolts which go through the springs and hold tension on the clutch determine the point at which the clutch slips. These must all be set evenly, either by measuring spring length or counting the number of turns the nut has been tightened. The clutch must be quite loose initially to ensure it will slip. Slipping can be identified by the clutch getting very hot. (The clutch will always be quite warm in work as the gearbox gets warm). Run the machine for a short distance (20 metres) in work and check the clutch slips. Then tighten each tension bolt up a turn (more if the clutch was very loose) evenly and run a short distance again. Keep repeating this procedure until the clutch is not slipping - it should only take a few stops.

As you get to the point at which you think it is not slipping tighten the tension bolts half a turn instead of a full turn. Continue to work the slasher checking the clutch regularly; you will soon get an idea of how the clutch is performing. You may want to adjust it for varying conditions. If the clutch is too loose it will slip, wearing out the friction discs, getting hot and possibly damaging the clutch pressure surfaces as well. If the clutch is too tight it will fail to protect the tractor and machine if the machine hits an obstruction (tractor stalls, breakage occurs).

How to free up the clutch after a period of storage:

As outlined in the instructions on the machine the slip clutch can seize if left for long periods without use. The best way to free up a slip clutch is to loosen all the bolts that hold the spring tension on the friction plates (so they are quite loose), then run the machine with it either jammed so it cannot move, or put into heavy work, to slip the clutch. The clutch only needs to be slipped for 30 seconds to a minute to clean up the surfaces. Alternatively dismantle the clutch and clean it.

UNIVERSAL JOINTS - SINGLE

PTO AND DRIVELINE COMPONENTS / UNIVERSAL JOINTS - SINGLE



Aline Trading offer a range of single universal joints suitable for use in many drive line applications.

The list below shows some of the common sizes available.

Other combinations can be made to request from our range of PTO yokes.

Please enquire today.

PART No	SERIES	YOKE 1	YOKE 2
AL00931	T1	25mm PLAIN	25mm PLAIN
AL00933	T1	13/8Z6 QR	13/8Z6 QR
AL00936	T1	13/8Z6 CB	1" PLAIN PLAIN
AL00938	T1	13/8Z21 CB	13/8Z21 CB
AL00939	T1	13/8Z21 CB	1" PLAIN
AL00940	T1	1" PLAIN	25mm PLAIN
AL00941	T1	1" PLAIN	1" PLAIN
AL02756	T1	13/8Z21 QR	13/8Z21 QR
AL00945	T2	25mm PLAIN	1" PLAIN
AL02106	T2	13/8Z21 QR	13/8Z21 QR

AL00939 SHOWN BELOW



AL01338 is a small universal joint with shafts and is suitable for use on roll tarps and other applications. The shafts are connected to the yokes using a fine spline that allows for adjustment and clamp bolt.

Part Number AL01338	
Shaft diameter	21mm
Overall length	357mm
Bearing diameter	16mm
Width across yokes	43mm



UNIVERSAL JOINTS - DOUBLE

PTO AND DRIVELINE COMPONENTS / UNIVERSAL JOINTS - DOUBLE



Aline Trading offer a range of double universal joints suitable for use in many drive line applications.

The list below shows some of the common sizes available.

Other combinations can be made to request from our range of PTO yokes.

Please enquire today.

PART No	SERIES	YOKE 1	YOKE 2	LENGTH
AL01321	T4	11/4 PLAIN CB	11/4 PLAIN CB	305mm
AL01324	T4	13/8 PLAIN CB	13/8 PLAIN CB	305mm
AL02632	T4	35mm PLAIN CB	35mm PLAIN CB	305 mm
AL01325	T4	35mm PLAIN CB	35mm PLAIN CB	376 mm
AL02616	T6	35mm PLAIN CB	35mm PLAIN CB	410 mm
AL02617	T6	13/8Z6 CB	13/8Z6 CB	410mm

AL02616 Shown below.



AL01321 Shown below.



SPARE PARTS

PTO AND DRIVELINE COMPONENTS / SPARE PARTS



This section details the more commonly requested spare parts held by Aline Trading Pty Ltd for their range of driveline components.

YOKES

PTO AND DRIVELINE COMPONENTS / SPARE PARTS / YOKES



Aline Trading stock a comprehensive range of PTO yokes in various capacities, bore configurations and clamping methods.

These yokes are suitable for repairing old shafts, modifying shafts for different applications and making items like single or double universal joints.

The yokes are available in 4 main styles.

(Photos at bottom of page)

- **Plain bore.** Used to fit on machinery with plain (non -splined) shafts with keyways. These yokes are supplied with keyways and grub screws or clamp bolts as required by the design of the yoke.

- **Quick release.** These yokes are fitted with either one or 2 push release pins (depending on the size) and are designed to fit on splined shafts where the PTO shaft needs to be uncoupled on a regular basis.

- **Clamp bolt.** These yokes are fitted with single or double clamping bolts (depending on the size) and are designed to fit on splined shafts where the PTO shaft needs to be held securely in position with and is only removed periodically for servicing etc. Commonly fitted to the implement end of a PTO shaft.

- **Tube yokes.** These yokes fit directly onto the telescopic tube of your PTO shaft to form the inner half of the universal joint. They are supplied with differing bore sizes to suit either the inner or outer tube section. These yokes are held in position by a heavy duty roll pin. (Supplied separately)

Series 1 Yokes			
Bearing size. 22mm x 54mm			
Series	Part No	Bore	Fixing

1	AL00025	25mm - 8mm KEY	S/SCREW
1	AL00024	1" - 1/4" Key	S/SCREW
1	AL00027	13/8 Z6 - SPLINE	Q/RELEASE
1	AL00028	13/8 Z21 - SPLINE	C/BOLT
1	AL00465	11/4" - 5/16" KEY	C/BOLT
1	AL00555	13/8Z21 - SPLINE	Q/RELEASE
Series 2 Yokes			
Bearing size. 23.8mm x 61.3mm			
Series	Part No	Bore	Fixing
2	AL00547	1" - 1/4" KEYWAY	C/BOLT
2	AL00556	13/8Z21 - SPLINE	C/BOLT
2	AL00557	13/8Z6 - SPLINE	Q/RELEASE
2	AL00558	13/8Z21 - SPLINE	Q/RELEASE
2	AL00559	13/8Z6 - SPLINE	C/BOLT
2	AL00560	11/4" - 5/16 KEYWAY	C/BOLT
2	AL00562	25mm - 8mm KEYWAY	C/BOLT
2	AL00564	1" - 5/16" KEYWAY	S/SCREW
2	AL00565	11/4" - 5/16" KEYWAY	S/SCREW
2	AL00566	25mm - 8mm KEYWAY	S/SCREW
2	AL00567	30MM - 8mm KEYWAY	S/SCREW
Series 4 Yokes			
Bearing size. 27mm x 74.6mm			
Series	Part No	Bore	Fixing
4	AL00569	13/8Z6 - SPLINE	Q/RELEASE
4	AL00570	13/8Z21 - SPLINE	Q/RELEASE
4	AL00571	13/8Z6 - SPLINE	C/BOLT
4	AL00572	13/8Z21 - SPLINE	C/BOLT
4	AL00576	35mm - 10mm KEYWAY	C/BOLT
4	AL00577	11/4" - 5/16" KEYWAY	C/BOLT
4	AL00579	13/8" - 3/8" KEYWAY	C/BOLT
4	AL00582	25mm - 8mm KEYWAY	S/SCREW
4	AL00583	30mm - 8mm KEYWAY	S/SCREW
4	AL00584	11/2" - 3/8" KEYWAY	S/SCREW
4	AL00585	11/4" - 8mm KEYWAY	S/SCREW MULTI
Series 6 yokes			
Bearing size. 30.2mm x 92mm			
Series	Part No	Bore	Fixing
6	AL00587	13/8Z6 - SPLINE	Q/RELEASE
6	AL00588	13/4Z6 - SPLINE	Q/RELEASE
6	AL00589	13/8Z21 - SPLINE	Q/RELEASE
6	AL00590	13/4Z20 - SPLINE	Q/RELEASE
6	AL00591	13/8Z6 - SPLINE	C/BOLT
6	AL00592	13/8Z21 - SPLINE	C/BOLT
6	AL00593	35mm - 10mm KEYWAY	C/BOLT
6	AL00594	11/2" - 3/8" KEYWAY	C/BOLT
6	AL00595	11/4" - 5/16" KEYWAY	C/BOLT
6	AL00596	13/8" - 3/8" KEYWAY	C/BOLT
6	AL00598	13/4Z20 - SPLINE	C/BOLT
6	AL00599	OUTER TUBE YOKE	R/PIN
6	AL00600	INNER TUBE YOKE	R/PIN
6	AL00632	ROLL PIN FOR TUBE YOKES	-
Series 8 Yokes			
Bearing size. 34.9mm x 106.5mm			
Series	Part No	Bore	Fixing
8	AL00607	13/8Z6 - SPLINE	Q/RELEASE
8	AL00608	13/4Z6 - SPLINE	Q/RELEASE

8	AL00609	13/8 Z21 - SPLINE	Q/RELEASE
8	AL00610	13/4 Z20 - SPLINE	Q/RELEASE
8	AL00612	OUTER TUBE YOKE	R/PIN
8	AL00613	INNER TUBE YOKE	R/PIN
8	AL00632	ROLL PIN FOR TUBE YOKES	-
8	AL00614	11/2" - 3/8" KEYWAY	S/SCREW
8	AL00615	40mm - 10mm KEYWAY	S/SCREW
8	AL00611	13/8 Z6 - SPLINE	C/BOLT
8	AL00617	13/4 Z6 - SPLINE	C/BOLT
8	AL00618	13/8 Z21 - SPLINE	C/BOLT
8	AL00619	13/4 Z20 - SPLINE	C/BOLT
Series 9 Yokes			
Bearing size 41 x 108.4			
Series	P/No	Bore	Fixing
9	AL00639	1 3/4 Z6 - SPLINE	Q/RELEASE
9	AL00640	1 3/4 Z20 - SPLINE	Q/RELEASE

Splined quick release yoke.



Splined clamp bolt yoke.



Plain bore yoke with clamp bolt, keyway and set screws at 90 degrees.



Plain bore yoke with keyway and set screws



Tube end yoke.



CROSS KIT - BEARINGS

PTO AND DRIVELINE COMPONENTS / SPARE PARTS / CROSS KIT - BEARINGS



Cross kit bearings are available for all common size PTO shafts and universal joints stocked by Aline Trading. New bearings are supplied with circlips and grease nipple.

Part No	Series	A	B
AL01339	AL01338 UNI	16	40
AL00001	T1	22	54
AL00333	T2	23.8	61.3
AL00335	T4	27	74.6
AL00339	T6	30.2	92
AL00345	T6 Wide angle	27 32	94 76
AL00342	T8	35	106.5
AL00007	T9	41	108.4



Cross kit
(Beraing)



CLUTCH PARTS

PTO AND DRIVELINE COMPONENTS / SPARE PARTS / CLUTCH PARTS



Aline Trading Pty Ltd stock a range of spare parts for the Aksan range of friction clutches. These include, Replacement friction discs, clutch hubs, clutch springs and more. Please see below for details.

Clutch Friction Plates	
Part No	Size - OD x ID
AL00363	140 x 83
AL00364	153 x 91
AL00365	160 X 97



Clutch Hubs		
Part No	FITS	Bore
AL00346	BSD1 FRICTION O/RUN	13/8Z6 CB
AL00351	BS1-BSM1	13/8Z6 CB
AL00357	BS1-BSM1	11/4" PLAIN CB
AL00361	BS1-BSM1	13/8" PLAIN CB
AL00352	BS2-BSM2	13/8Z6 CB
AL00371	BS2-BSM2	13/8Z21 CB
AL00353	BS2-BSM2	13/4Z6 CB
AL00358	BS2-BSM2	13/4Z20 CB
AL00360	BS2-BSM2	11/2" PLAIN CB
AL00354	BS4-BSM4	13/8Z6 CB
AL00355	BS4-BSM4	13/4Z6 CB
AL00359	BS4-BSM4	13/4Z20 CB
AL00372	BS4-BSM4	13/8Z21 CB
AL00373	BSD3 FRICTION O/RUN	13/4Z20 CB
AL00375	BSD3 FRICTION O/RUN	13/8Z6 CB
AL00376	BSD3 FRICTION O/RUN	13/4Z6 CB
AL00377	BS5 - 6 PLATE	13/4Z20 CB
AL00378	BS5 - 6 PLATE	13/4Z6 CB

AL00373 - 13/4Z20 Friction Over Run hub. Shown below.



Clutch Springs	
Part No	Fits
AL00350	All friction clutches



Front Flange Plates		
Part No	Description	Suits
AL00367	13/8Z6 SHAFT FLANGE	BSM2 & BSM4
AL00368	13/4Z20 SHAFT FLANGE	BSM2 & BSM4
AL00616	T6 YOKE FLANGE	BS2
AL00341	T8 YOKE FLANGE	BS4

Friction Clutch Parts - Other		
Part No	Description	Fits
AL00628	Rear pressure plate	BS2 - BSM2 BS4 - BSM4
AL00369	Inner plates. 4mm	BS2 - BSM2 BS4 - BSM4
AL00370	Disc drive plate. Hex bore	BS4 - BSM4
AL01197	Centre locating ring.	BS2 - BSM2 BS4 - BSM4

Overrun Clutch Parts		
Part No	Description	Fits
AL00347	Repair Kit 4 springs - 4 drive keys	BSD1-3
AL02603	Bridge Clamp Plate	BSD1-2
AL02604	Bridge Clamp Plate	BSD - 3

PTO COVERS AND CONES

PTO AND DRIVELINE COMPONENTS / SPARE PARTS / PTO COVERS AND CONES



The Safety cover on a PTO shaft is a highly important safety feature and must be checked regularly for damage. If excessive wear or damage is found the shaft should be put out of service until a replacement cover is fitted.

Aline Trading keep a range of covers in stock to suit our AKSAN PTO shafts. Each cover is supplied with bearings to suit your shaft. Our covers are supplied at maximum length and can be easily trimmed to suit your required length.

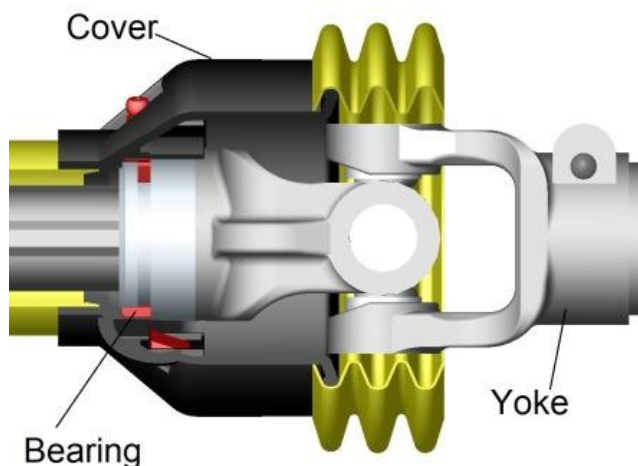
Complete PTO Covers.		
Part No	Series	Length X - X
AL00005	T1	610
AL00336	T2 & T4	960
AL00337	T2 & T4	1660
AL00338	T6 & T8	1160
AL00340	T6 & T8	1260
AL00343	T6 & T8	1660
AL02817	T6 WIDE ANGLE	960
AL00006	T9	1610

AL02817 - T6 wide angle cover shown below.



PTO Safety Cover Bearing Sets	
Part No	Series
AL00334	T2
AL00568	T4
AL00606	T6
AL00605	T8

The PTO safety cover bearing is a split, clip style plastic bearing that connects the safety cover to the PTO shaft. Each shaft will use 2 bearings with different bore size.



PTO Machine Cones	
AL00327	Small
AL00330	Large with I/O

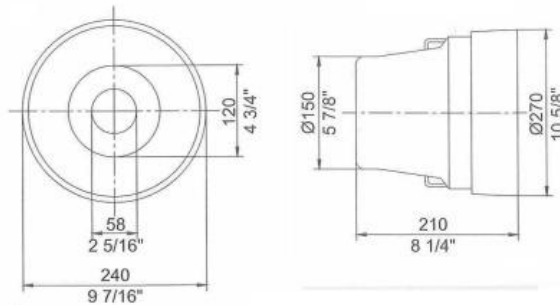
PTO Machine cones are designed to be attached to the machine / gearbox being driven by the PTO shaft to give full coverage of the moving joint. The covers are supplied undrilled so you can drill to suit the gearbox being used.

Aline Trading stock 2 standard sizes.

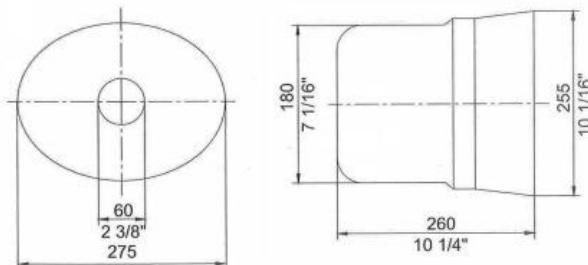
AL00327 â€" Round . For small to medium sized PTO shafts used in a fixed position. i.e.; connecting between 2 fixed position gearboxes.

AL00330 â€" Oval. Suits most sizes of PTO shafts. Used for input drive situations where various angles are encountered. i.e.; tractors to Slasher or Auger drive.

AL00327 shown below.



AL00330 Shown Below.



FLEX COUPLING INSERTS

PTO AND DRIVELINE COMPONENTS / SPARE PARTS / FLEX COUPLING INSERTS



Replacement reinforced inserts to suit our range of flex couplings.

Replacement Inserts.	
Part No	Description
AL00122	6 hole insert with steel bushes. 160mm diam x 18mm thick



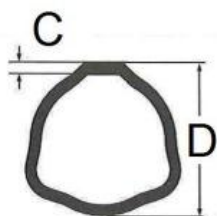
TRANGLE TUBE

PTO AND DRIVELINE COMPONENTS / SPARE PARTS / TRANGLE TUBE

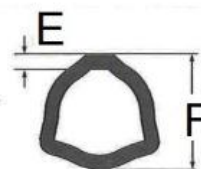


Replacement telescopic triangle series tubing is available for our larger shafts.
Standard length 2m.

PART No	SERIES	DESCRIPTION				
		Item	C	D	E	F
AL00623	6	Inner tube	-	-	4	44.5
AL00622	6 & 8	Outer tube	4	54	-	-
AL00625	8	Inner tube	-	-	5.5	44.5



Outer



Inner

Telescopic sections

FLEX COUPLINGS

PTO AND DRIVELINE COMPONENTS / FLEX COUPLINGS



Flexible couplings are fixed joints that are used to connect two normally aligned shafts without any angle or distance variation. According to the application there are models with either single or double specially designed rubber discs which help the couplings to be used either as dampers in vibration shocks, knocks or short torque increases or to compensate for slight misalignments of the shafts being connected.

Part No	End 1	End 2	O/A Length	Inserts
AL01251	13/8Z6 CB	13/8Z6 CB	322 mm	2
AL01252	13/8Z6 CB	13/8Z6 CB	172 mm	1
AL01255	13/8Z6 CB	13/8Z6 CB	420 mm	1
AL02823	13/8Z6 CB	13/8Z6 CB	195 mm	2

AL01252. Shown below.



AL02823 Shown Below.



AL01251 Shown below.



Replacement Inserts	
Part No	Description
AL00122	160mm Diam x 18 mm thick. 6 Hole with steel inserts.

ADAPTORS

PTO AND DRIVELINE COMPONENTS / ADAPTORS

Aline Trading P/L present a range of quality made Male / Female spline adaptors suitable for many applications.



SPLINED ADAPTORS				
PART No	MALE	FEMALE	LENGTH	NOTE
AL00303	13/8 Z6	13/8' Z6	168	Clamp bolt
AL00304	13/8 Z6	13/8 Z21	168	Clamp bolt
AL00305	13/4Z20	13/8 Z21	168	Clamp bolt
AL00306	13/8 Z6	13/4 Z20	168	Clamp bolt
AL00294	13/8 Z6	25mm	120	Plain
AL00295	13/8 Z6	30mm	120	Plain
AL00300	13/8" Z6	25mm	149	Keyway
AL00301	13/8" Z6	30 mm	149	Keyway
AL00302	13/8"Z6	25mm	168	Plain Tapped.

NOTES: AL00300 & AL00301 have a plain bore female end with keyway and are suitable for use with our A10 & A8 gearboxes.

AL00294 & AL00295 are plain bore only no keyway. Also suited to welding.

AL00302 is supplied as a 25mm plain bore with 2x M8 tapped holes for grub screws. The 65mm diameter body is heavy enough to allow for further machining to suit your specialty needs.

AL00302 - 13/8Z6 male - 25 mm Plain bore. Suitable for machining out to larger diameter diameters.
Body diameter = 65mm



AL00305 - 13/4Z20 male - 13/8Z21 female.



AL00306 - 13/8Z6 male - 13/4Z20 female



AL00300 - 13/8Z6 male - 25mm plain bore female with 8mm keyway.



SPLINED SHAFTS AND SLEEVES

PTO AND DRIVELINE COMPONENTS / SPLINED SHAFTS AND SLEEVES



Aline Trading P/L present a selection of quality splined shafts and sleeves suitable for a wide range of Agricultural and Industrial applications.

Plain Sleeves.

Our range of plain splined sleeves are weldable and are supplied in a zinc coated finish for corrosion resistance. They can be used as they are or you can further modify them to suit your needs.



SPLINED SLEEVES - PLAIN			
PART NO	SPLINE	O.D. mm	LENGTH mm
AL00772	13/8" Z6	48 mm	130 mm
AL00177	13/4" Z6	60 mm	100 mm
AL01692	13/4" Z20	63 mm	100 mm
AL00178	13/8" Z21	48 mm	100 mm

Clamp Bolt Sleeves.

Our range of splined sleeves with interfering clamp bolts are weldable and feature a heavy duty twin bolt external clamp allowing for a strong / positive attachment to your equipment to prevent movement and wear during operation.



SPLINED SLEEVES - INTERFERING CLAMP BOLT			
PART No	SPLINE	O.D mm	LENGTH mm
AL00293	13/8" Z21	50	100
AL00297	13/8" Z6	50	100
AL00298	13/4" Z6	63.5	100
AL00299	13/4" Z20	63.5	100

SPLINED SHAFT.

A Range of agricultural splined shaft is held in stock.

This includes fully splined shafting and single splined shafts.

See details below.

SPLINED SHAFTS - FULL LENGTH SPLINE		
PART NO	SPLINE	LENGTH mm
AL00777	13/8" Z6	500
AL00776	13/8" Z6	1000
AL00778	13/8" Z6	3000
AL01897	1 3/8" Z21	200
AL00770	13/4" Z6	500
AL00779	13/4" Z6	1000
AL00782	13/4" Z6	3000
AL00780	13/4" Z20	600

Below.

Fully splined shafts in 3m lengths.



Below.

P/No AL01897 13/8Z21 x 200mm splined shaft.



SPLINED SHAFTS - SINGLE OR DOUBLE ENDED				
PART No	O/A LENGTH MM	DIAMETER	SPLINE	ENDS
AL00775	600	13/8"	13/8" Z6	ONE
AL00771	2400	40mm	13/8"Z6	BOTH

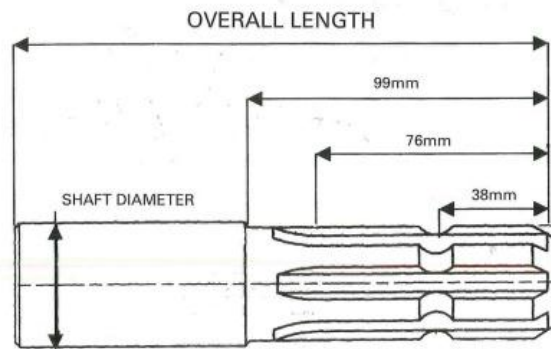
AL00775 shown below is a single ended splined shaft that can be used to suit many applications. AL00775 is a stocked size.

Other shafts can be made to order with spline at one or both ends.



When ordering single or double end splined shafts please confirm.

1. Overall Length.
2. Shaft diameter
3. Single or double end spline.
4. Spline. 13/8Z6, 13/8Z21, 13/4Z20 or 13/4Z6
5. Material. Standard = Grade 1045 . Optional 4140 High Tensile.



FLEXIBLE DISC TYPE COUPLINGS

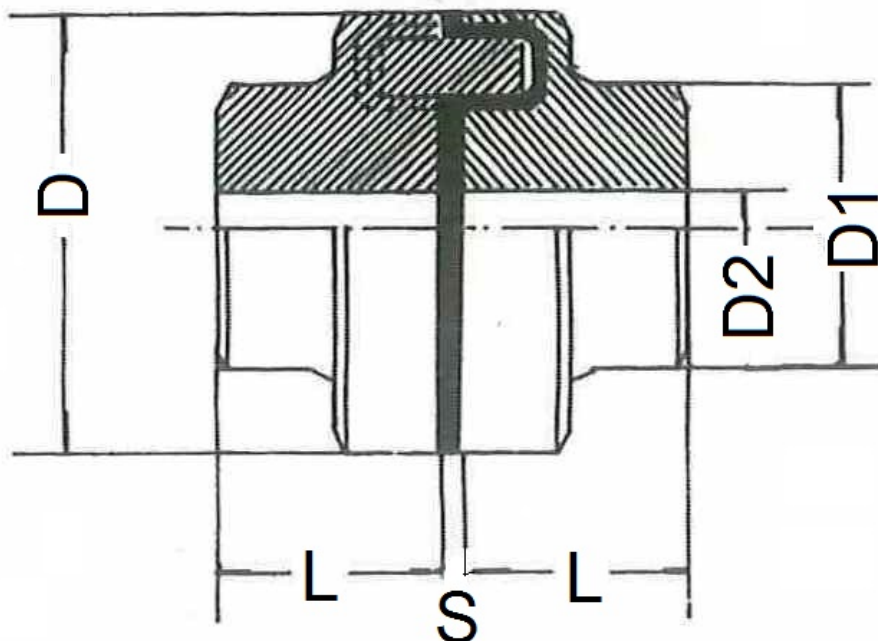
PTO AND DRIVELINE COMPONENTS / FLEXIBLE DISC TYPE COUPLINGS



Suitable for use on electrical or combustion driven units where some shaft misalignment may occur. Introduces limited backlash to absorb lateral, angular and axial forces while maintaining some rotational rigidity.



Part No	Model	Nominal Load		Max rpm	D2	D1	D	L	S
		Kg/m	KW/100rpm						
AL01498	PC67	2.2	.22	10000	9-28	46	67	30	2.5+.5
AL01499	PC82	5.0	.51	8000	10-32	53	82	40	3.0+1
AL01500	PC97	10.5	1.07	7000	12-42	69	97	50	3.0+1

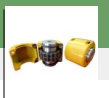




Replacement Inserts	
Part No	Fits
AL01347	PC67
AL01348	PC82
AL01349	PC97

CHAIN SHAFT COUPLINGS

PTO AND DRIVELINE COMPONENTS / CHAIN SHAFT COUPLINGS



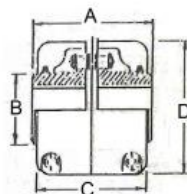
Chain couplings are ideal where high static or starting loads apply.

They are easily disconnected and are composed of two hardened steel sprockets connected by duplex roller chain.

Each coupling is supplied with an aluminium alloy casing.



Part No	Model	Bore		Dimensions				Weight
		Min	Max	A	B	C	D	Kg
AL01046	40 16	15	30	79.4	50	75	92	1.8
AL01048	50 16	18	40	99.7	64	87	110	3.25



Transmission Capacity KW								
Part No	Shaft Diam	RPM						
		10	500	1000	1500	2500	3600	4800
AL01046	30mm	.41	8.85	15.3	21	31.9	43	54.9
AL01048	40mm	.78	16.8	28.9	39.9	60.6	81.6	-
KW x 1.34 = HP								

TURNTABLE BALL BEARINGS - SLEW RINGS

TURNTABLE BALL BEARINGS - SLEW RINGS



Aline Trading Pty Ltd proudly distributes the quality range of bearing products manufactured in Italy by La Leonessa.

La Leonessa was established as a manufacturer of turntable bearings for agriculture, and in 1970 it began to produce industrial slewing bearings (rings).

Since then the name La Leonessa has been synonymous with products suited to rotation, from the most simple to the most rigorous. They produce different types of industrial slewing bearings (rings) with rollers or balls and with external or internal gear or without gear in diameters up to 3 metres. They also produce Agricultural ball turntable bearings from 300 mm to 1100 mm diameter. La Leonessa have always been the worldwide leaders for this product.

For several decades their trademark has been a synonym for quality, reliability and attention to the demands of the market.

Right from the beginning their aim was to have the best references in every sector of application, thus their impact was immediately international, and continues to be so. Therefore, we are able to meet all your requirements. Innovations in both process and product allow La Leonessa to be a partner to refer to for the most demanding applications, because they use the most advanced technologies in the sector.

TURNTABLE BALL BEARINGS. AGRICULTURAL

TURNTABLE BALL BEARINGS - SLEW RINGS / TURNTABLE BALL BEARINGS. AGRICULTURAL



Applications and use of ball turntable bearings

Aline Tradings range of turntable ball bearings are used in many applications; amongst the most important we could mention are agricultural trailers, irrigation systems and airport luggage carriers.

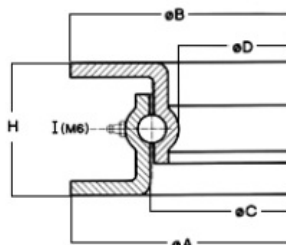
In the applications on vehicles, ball turntable bearings transmit not only axial load, but also radial load and torque. In other applications they transmit mostly axial load. The turntable bearings in the L range are suitable for use on light vehicles with a speed of up to 25 Km/h Turntable bearings in the N-P-T ranges can be used on vehicles with a speed of up to 40 Km/h. The following information includes the limit values of axial load capacity for a speed of 25 Km/h. For applications with speeds above 25 km/h and up to 40 km/h., the load capacity decreases. For applications with speeds of less than 25 km/h, the load capacity may increase up to a maximum of 40%, depending on the size & type of bearing. In these cases further technical information may be required to determine the acceptable load capacity of the turntable bearing. The values shown are valid for use on vehicles that circulate on the roads and under conditions of conventional transport.

Construction of ball turntable bearings.

The turntable basically consists of 2 flange rings which have a semi-circular shaped rolling track. The two rings are securely assembled by inserting steel ball rollers. The units are then thoroughly greased before prime painting and final inspection.

Conditions and Supply of ball turntable bearings

The turntable bearings are supplied with a protective coating of black rust-proofing paint, this is sufficient to adequately protect the product until the end use. The turntable bearings leave the factory already greased and have greasers on the outside. The turntable bearings do not have holes for fixing bolts.



Part No	Model	Dimensions.					Greaser	Ball	Unit	Thrust Load
		H	A	B	C	D	I	Diam mm	Weight Kg	ton
AL02303	U01L030	55	298	293	220	200	1	12	5	0.5
AL02304	U01L040	55	400	400	320	300	1	12	8	0.75
AL02305	U01L050	55	500	500	420	400	1	12	10	1
AL02306	U01N060	65	600	600	516	490	2	14	18	1.7
AL02307	U01N065	65	650	650	568	543	2	14	20	1.7
AL02308	U01N070	65	700	700	620	594	2	14	22	2.2
AL02309	U01N075	65	750	750	668	640	2	14	24	2.2
AL02310	U01N080	65	800	800	718	690	2	14	26	2.5
AL02311	U01N085	65	850	850	767	742	2	14	28	3
AL02312	U01N090	65	900	900	820	793	2	14	30	3.5
AL02313	U01P090	80	890	895	795	766	2	16	36	5
AL02314	U01N100	65	1000	1000	920	895	2	14	33	4
AL02316	U01T100	90	1000	1008	889	856	2	20	60	8
AL02315	U01N105	65	1050	1050	970	945	2	14	35	4.5
AL02317	U01P110	80	1100	1105	1005	976	2	16	45	6.5
AL02319	U01T110	90	1100	1100	980	948	2	20	65	10



FITTING AND MAINTENANCE

TURNTABLE BALL BEARINGS - SLEW RINGS / FITTING AND MAINTENANCE



Assembly of ball turntable bearings

Turntable bearings must be fixed to the structure by using bolts. For correct fixing of the turntable bearing, it is important that the supporting surfaces be as flat and rigid as possible. It should be ensured that the turntable bearing rests on the connecting structure with at least 50% of

its surface and that the supporting areas are distributed symmetrically in regard to the direction of movement. Holes in line with the ball loading plug are not permitted; this plug may be recognised by the welding on the raceway of the external ring. The plug should be placed between 45 degrees and 90 degrees with regard to the direction of movement. To fix the turntable bearing, at least 8.8 quality bolts must be used. The size of the bolts and the recommended tightening torque values are indicated in the table.

The addition of suitable steel locating blocks (at least 4 per side), welded to the supporting structure, allows the bolts to discharge the radial thrust that occurs due to acceleration and deceleration. The ball turntable bearing must not be fixed to the structure by welding. It is advisable to carry out a second greasing before assembly.

It is very important that at no time the small manufactures plate on the outer circumference of the turn table is damaged during the drilling of the fixing holes. When fitting the turn table position the manufactures plate so it faces the direction of travel.

Bolts				
Type of turntable bearing	Minimum no. bolts	Type	Quality	Nut
L-300-400-500-600	4	M12	8.8 min.	Hexagonal or self-blocking
N-600-650-700-750	6	M12-M14		
N-800-850-900-950N-1000-1050	6	M14-M16		
P-900-1000-1100T-1000-1100	8			

Level of resistance according to DIN/ISO 898	8.8
Limit tensile strength R _p in N/mm ²	640

DIN/ISO 13 Metric thread	Resisting section	Core section	Tensioning force	Assembly and tightening torque	
As	A3	F _n	Ms		
mm ²	mm ²	M	Nm	Kgm	
M12	84.3	76.2	38500	78	8
M14	115	105	53000	126	13
M16	157	144	72000	193	20

Maintenance of ball turntable bearings

It is good practise to carry out periodic lubrication of the turntable bearing. The frequency of greasing must be programmed according to working conditions, on average once a month. The operation of pumping new grease should be carried out until the grease leaks out of the fissure between the two rings. During the greasing operation, allow the turntable bearing to rotate.

Lithium grease designated with the marking EP2 or 2 by the leading manufacturers, may be used. For bolts, we advise that you carry out inspections, once a month and depending on use, on the tightening force of the screws, according to the values indicated in the table.

SLEWING BEARINGS

TURNTABLE BALL BEARINGS - SLEW RINGS / SLEWING BEARINGS



Sewing Bearings (Rings)

Product available to order in numerous versions and dimensions.

From an external diameter of 300 mm up to 3000 mm and in versions with external or internal gear or with no gear.

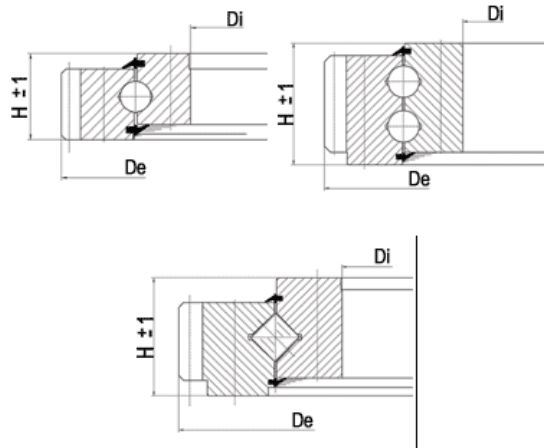
In addition, according to the type of load, these are available with 1 row of balls, 2 rows of balls and one row of rollers.

Materials available according to requirements and in line with market standards.

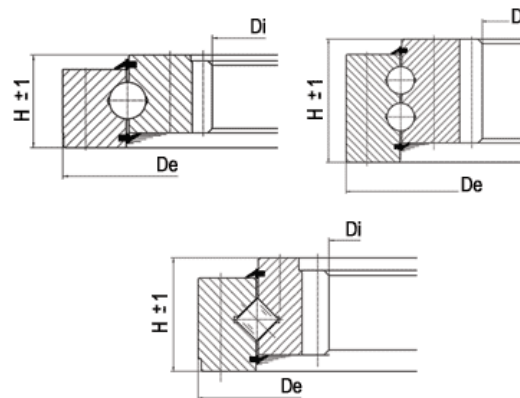
Please contact us with your specific requirements.



Externally Geared Slew Rings



Internally Geared Slew Rings



FLANGED SLEWING BEARINGS

TURNTABLE BALL BEARINGS - SLEW RINGS / FLANGED SLEWING BEARINGS



Flanged slewing bearings.

La Leonessa announced the launch in Jan 2014 of its new born product range, the **flanged slewing bearing** series.

Manufactured according to the highest industrial standards, the new flanged series represent a **natural extension** of the classical product range, the distinguishing factor over nearly fifty years of La Leonessa history, built on **high quality** product **designing** and **manufacturing**. Manufactured from forged or rolled rings, the flanged slewing bearings have no joints, thus optimizing the use of material and maximizing the characteristics of lightness and compactness of the product and of your application.

Please find below a summary of the features, advantages and technical characterizing La Leonessa flanged slewing bearing series:

Features	Advantages
Weight reduction	Higher admitted payload
Compactness	Minimal space required, easy to assemble
Reliability	Long life, smooth rotation, low force to run
Strength	Suits harsh working conditions. dust, humidity, harsh environments

Technical Characteristics	
Profile	"U" & "Z" shape
Outer Diameter	From 498mm to 1198mm
Gear	External, internal and without
Bolting Pattern	Standard and customized
Raceway finishing	Induction hardened

Notes:

Tables & charts shown are indicative and subject to change without notice. Deviation from the characteristics of the reported items might be considered together with our technical department. If not specifically stated, gears are manufactured according to DIN 868/DIN 3972 II considering a pressure angle of 20 degrees. Versions featuring special characteristics might be studied in order to suit the application particular request. COa and Moa are related to the load carrying capabilities of the concerned slewing bearing: such values do not take into account the limiting effect of the bolting. If not specifically indicated flanged slewing bearings are supplied with standard adjustment (play or preload) Slewing bearing interchangeability must be validated after a thorough evaluation of load carrying capability, dimensional & shape parameters. The reported values of F norm & F max are related to the tooth shape, modulus, material and thermal treatment. Although not mentioned in any existing norm, such values are generally used to provide a first estimation of the characteristics of the tooth strength. La Leonessa flanged slewing bearings are manufactured from material supplied by selected and credited suppliers. With reference to EN10204 norm, La Leonessa designs and manufactures flanged slewing bearings for industrial and marine applications and are supported by the most well-known and credited certification

bodies (DNV, TUV, GL, BV, ABS, RMRS, etc.) Slewing bearing specific approval must be provided through our technical department, which carries out the selection based on the operating conditions provided by the customer.

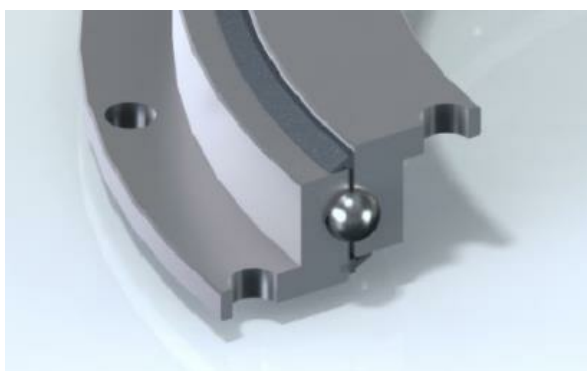
Z TYPE WITHOUT GEAR

TURNTABLE BALL BEARINGS - SLEW RINGS / FLANGED SLEWING BEARINGS / Z TYPE WITHOUT GEAR



Available to order.

Model	Weight	O.D	I.D	H	Load	
					Nom	Max
					kN	
VS064ZB00	30.4	648	434	56		
VS074ZB00	35.8	748	534	56		
VS084ZB00	42.2	848	634	56		
VS094ZB00	47.1	948	734	56		
VS104ZB00	52.3	1048	834	56		
VS119ZB00	61.1	1198	934	56		



Z TYPE INTERNAL GEAR

TURNTABLE BALL BEARINGS - SLEW RINGS / FLANGED SLEWING BEARINGS / Z TYPE INTERNAL GEAR



Available to order.

Model	Weight	O.D	I.D	H	Load	
					Nom	Max
					kN	
VI064ZE00	37	648	445.2	56	16	32
VI074ZE00	43	743	547.2	56	15.62	31.24
VI084ZE00	51	843	649.2	56	15.32	30.64
VI094ZE00	61	948	737.6	56	20.8	41.6
VI104ZE00	65	1048	841.6	56	20.49	40.98
VI114ZE00	80	1198	985.6	56	20.16	40.32



Z TYPE EXTERNAL GEAR

TURNTABLE BALL BEARINGS - SLEW RINGS / FLANGED SLEWING BEARINGS / Z TYPE EXTERNAL GEAR



Available to order.

Model	Weight	O.D	I.D	H	Load	
					Nom	Max
					kN	
VE064Z100	39	640.8	434	56	14.2	28.4
VE074Z100	47	742.8	534	56	14.2	28.4
VE084Z100	53	838.8	634	56	14.2	28.4
VE094Z100	65	950.4	734	56	18.93	37.86
VE104Z100	69	1046.4	834	56	18.93	37.86
VE119Z100	82	1198.4	984	56	18.93	37.86



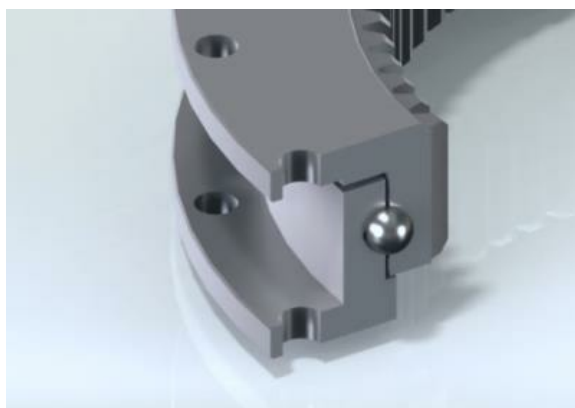
U TYPE INTERNAL GEAR

TURNTABLE BALL BEARINGS - SLEW RINGS / FLANGED SLEWING BEARINGS / U TYPE INTERNAL GEAR



Available to order.

Model	Weight	O.D	I.D	H	Load	
					Nom	Max
					kN	
VI049UE00	38	498	331	82	11.3	22.6
VI070UE00	61	700	530	82	11.3	22.6
VI080UE00	68	804	636	82	16.3	32.6
VI088UE00	76	880	708	82	16.3	32.6
VI100UE00	88	1000	831	82	16.3	32.6



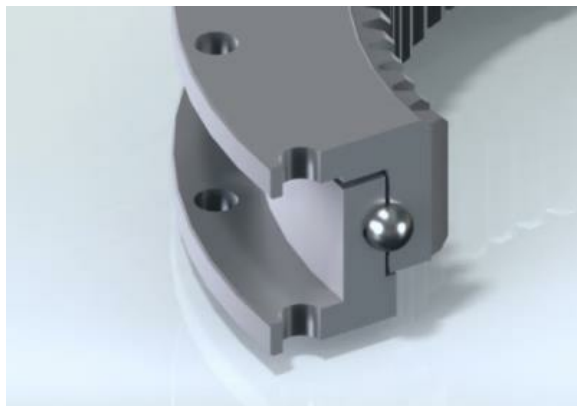
U TYPE WITHOUT GEAR

TURNTABLE BALL BEARINGS - SLEW RINGS / FLANGED SLEWING BEARINGS / U TYPE WITHOUT GEAR



Available to order.

Model	Weight	O.D	I.D	H	Load	
					Nom	Max
					kN	
VS049UE00	38	498	331	82		
VS070UE00	61	700	530	82		
VS080UE00	68	804	636	82		
VS088UE00	76	880	708	82		
VS100UE00	88	1000	831	82		



WORM DRIVE SLEW RING

TURNTABLE BALL BEARINGS - SLEW RINGS / WORM DRIVE SLEW RING

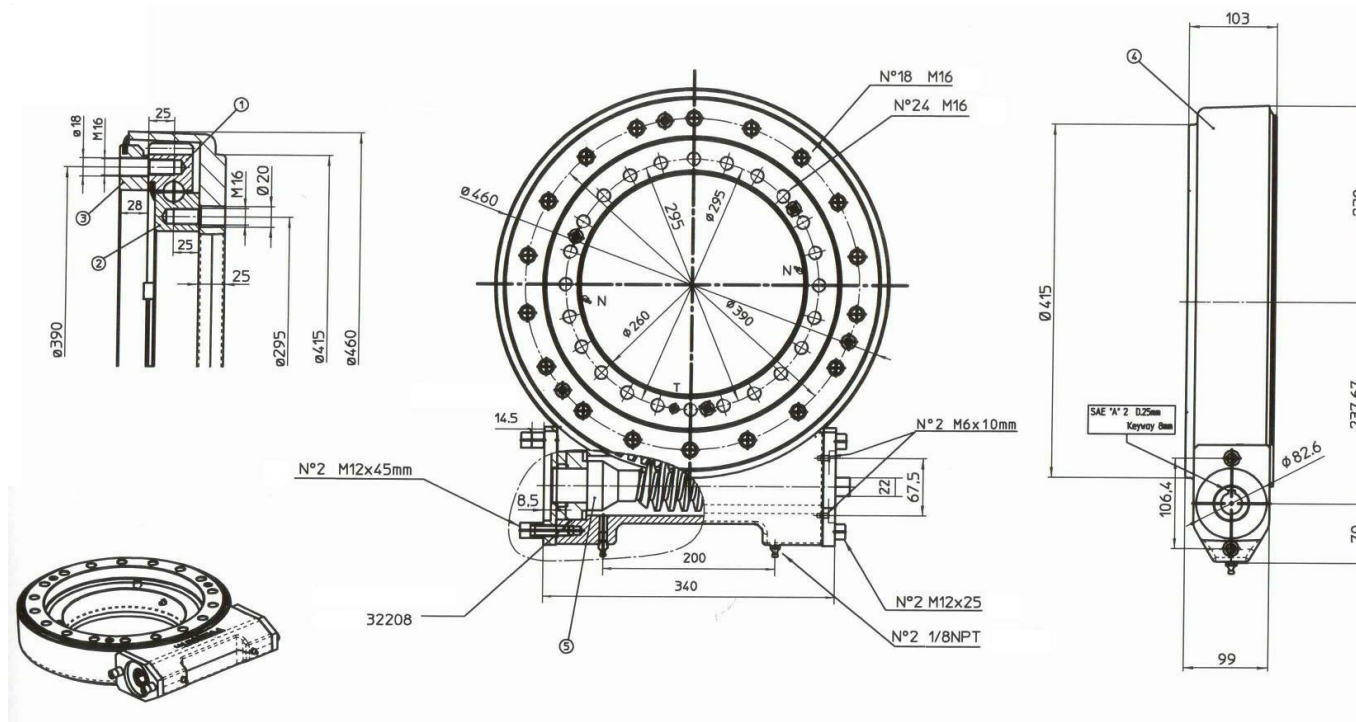


A Compact and economical solution, often used to substitute the traditional slewing ring/pinion assembly.



Specifications	
Part No	AL02320
Model	VE043AC8
Unit Weight:	50 kg
Module:	5
No. Teeth:	85
Ratio	85:1
Pitch Diameter:	427.34
No. of Worm Threads:	1
Helix Angle:	6 deg
Pressure Angle:	14 deg 30
Helix Direction:	Right hand
Maximum Output Torque at tooth:	250 daNm
Maximum output torque for short time:	370 daNm
Mounting holes (inner):	24 x M16
Mounting holes (outer):	18 x M16
Grease Points:	2 1/8-27NPT x 45 deg @ 180 deg

Materials	
1:	42CrMo4 Q&T
2:	42CrMo4 Normalised
3:	C45
4:	Al Si 11 Cu2Fe
5:	20Mn Cr5



HYDRAULIC CYLINDERS

HYDRAULIC CYLINDERS



General Information.

Aline Trading P/L present a range of quality Italian made multi stage hydraulic cylinders designed for use on tipping trailers, ute backs and many other applications.

Our cylinders are made from hot-rolled tubes (without welding), having a maximum tensile stress $R = N/mm^2$ 590, yield point $R_s = N/mm^2$ 460. The last extension, on the contrary, in C 40 hot-rolled. The pressed cap and bottom disc are made with Fe 50 hot-pressed.

The external surface of all the extensions have a **chromium-plated** film applied with an approximate thickness of mm. 0,010 - 0,015, with a medium superficial ruggedness $R_a = 0, 15- 0, 20$.

The extension guide is secured by delrin rings, for both the external and internal sliding.

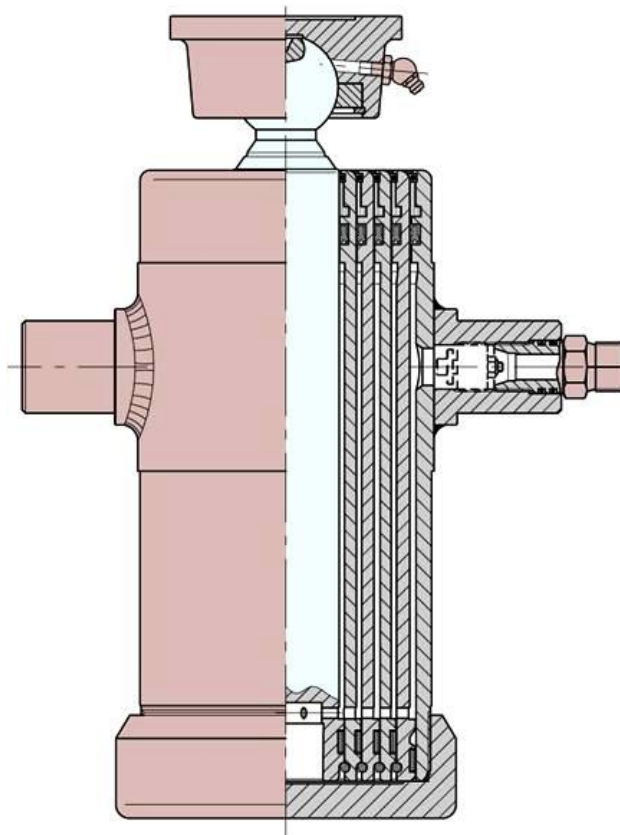
The seals used are highly resistant to permanent deformation and wear, with a working temperature from -40 Deg to +110 Deg C.

It is recommended, for better functioning and durability of the cylinder itself, to use hydraulic mineral oils and mount appropriate filters to prevent the possibility of infiltration of impurities inside the cylinder.

Rated pressure **160 Bar** reaching maximum point of 180 Bar.

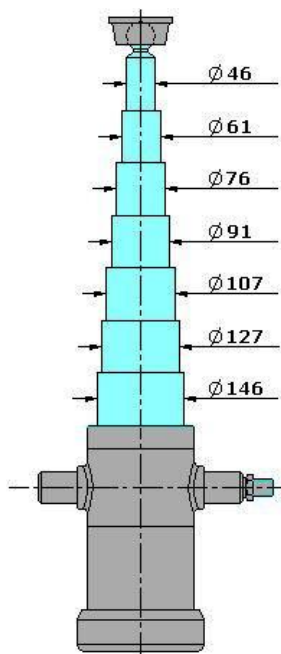
Absolutely avoid the cylinders reaching the end of their stroke and touching the body when in rest position. Over extending of the cylinders should be prevented by use of a physical, electric or hydraulic limiting device. Characteristics and dimensions are not binding.

Note: Sizes listed herein are our normal stocked range. Other sizes are available against volume OEM orders.



Thrust in Kilograms for single extension

Rated pressure 160 Bar reaching maximum point of 180 Bar.



Pressure (Bar)	46	61	76	91	107	127	146
100	1.660	2.920	4.530	6.500	8.980	12.660	16.730
125	2.070	3.650	5.660	8.120	11.230	15.820	20.910
160	2.650	4.670	7.250	10.400	14.370	20.250	26.770

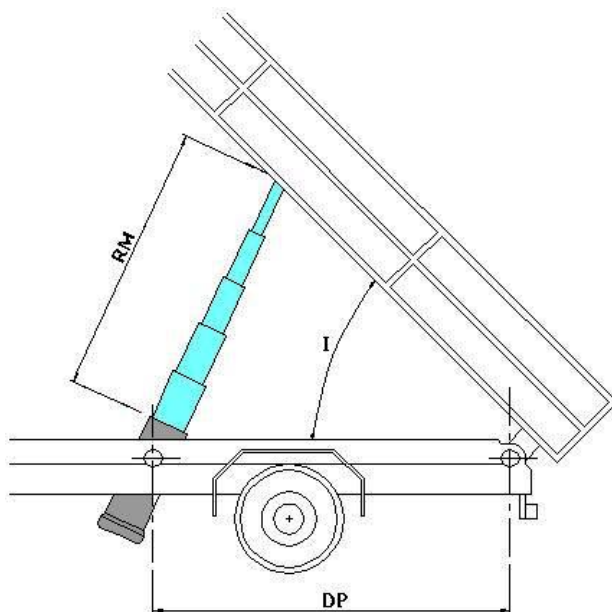
Body tilting tables.

RM = Jack stroke.

DP = Distance between pins in mm

I = Box tilting.

Note: Make sure that the cylinder does not bottom or top out and the box does not rest on it when in the home position.



Body tilting table based on the distance between pins and cylinder stroke.																						
Dimensions shown are the angles in Degrees.																						
DP/RM	480	500	600	680	700	800	850	900	950	1000	1050	1150	1200	1250	1300	1500	1700	1850	1900	2150	2300	2600
800	-	-	44	50	52	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
900	-	-	-	44	45	53	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000	-	-	-	40	41	47	50	53	57	60	-	-	-	-	-	-	-	-	-	-	-	-
1100	-	-	-	-	-	43	45	48	51	54	57	-	-	-	-	-	-	-	-	-	-	-
1200	-	-	-	-	-	-	41	44	47	49	52	57	-	-	-	-	-	-	-	-	-	-
1300	-	-	-	-	-	-	-	40	43	45	48	52	55	58	-	-	-	-	-	-	-	-
1400	-	-	-	-	-	-	-	-	40	42	44	48	51	53	55	-	-	-	-	-	-	-
1500	-	-	-	-	-	-	-	-	-	-	41	45	47	49	51	60	-	-	-	-	-	-
1600	-	-	-	-	-	-	-	-	-	-	-	42	44	46	48	56	-	-	-	-	-	-
1700	-	-	-	-	-	-	-	-	-	-	-	-	41	43	45	52	60	-	-	-	-	-
1800	-	-	-	-	-	-	-	-	-	-	-	-	-	41	42	49	56	62	-	-	-	-
1900	-	-	-	-	-	-	-	-	-	-	-	-	-	40	46	53	58	60	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	50	55	57	-	-	-
2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	48	52	54	62	-	-
2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	45	50	51	58	-	-
2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	47	49	56	60	-
2400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	45	47	53	57	-
2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	44	45	51	55	-
2600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	43	49	53	60
2700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	41	47	50	58
2800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	45	48	55
2900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	47	53
3000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	45	51

BALL END TOP MOUNT CYLINDERS

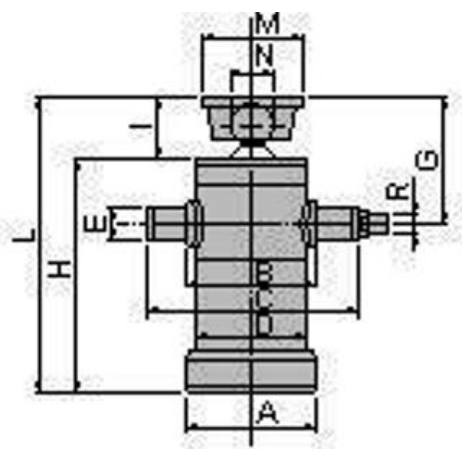
HYDRAULIC CYLINDERS / BALL END TOP MOUNT CYLINDERS



Ball end top mount cylinders.



Cylinder specifications.												
Part No	Stroke mm	No of Stages	Extension diameter in mm							Capacity @ 100 bar in Kg	Weight	Capacity
			46	61	76	91	107	127	146		Kg	lt
AL00078	700	3	Y	Y	Y	-	-	-	-	3000	17	2.7
AL00076	680	4	Y	Y	Y	Y	-	-	-	5000	19	3.3
AL00097	1050	3	-	Y	Y	Y	-	-	-	5000	32	5.9
AL00098	1050	4	-	Y	Y	Y	Y	-	-	8000	28	5
AL00106	1250	6	Y	Y	Y	Y	Y	Y	-	5000	26	6.8
AL00112	1500	4	-	Y	Y	Y	Y	-	-	8000	38	10



Cylinder Dimensions.												
Part No	Dimensions of cylinders in mm											
	A	B	C	D	E	G	H	I	L	M	N	R
AL00078	110	115	195	95	35	145	315	70	385	100	45	1/2"
AL00076	130	135	215	114	35	145	250	70	320	100	45	1/2"
AL00097	130	135	220	114	35	155	430	80	510	125	55	1/2"
AL00098	130	135	215	114	40	145	310	70	410	100	45	1/2"
AL00106	145	150	230	127	40	145	290	65	355	100	45	1/2"
AL00112	145	150	230	127	40	155	455	80	535	115	55	1/2"

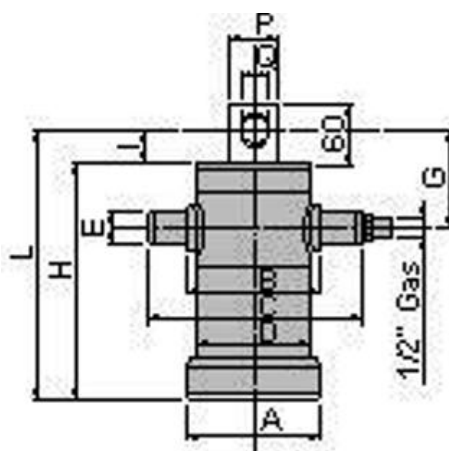
HOLE END TOP MOUNT CYLINDERS

HYDRAULIC CYLINDERS / HOLE END TOP MOUNT CYLINDERS

Hole end top mount cylinders



Cylinder specifications.												
Part No	Stroke mm	No of Stages	Extension diameter in mm							Capaci y @ 100 bar in Kg	Weight	Capacity
			46	61	76	91	107	127	146		Kg	lt
AL00099	1050	3	-	Y	Y	y	-	-	-	5000	33	5.8
AL00096	1300	4	-	Y	Y	Y	Y	-	-	8000	35	9.0



Cylinder Dimensions.											
Part No	Dimensions of cylinders in mm										
	A	B	C	D	E	G	H	I	L	P	Q
AL00099	130	135	215	114	35	108	430	33	463	60	31
AL00096	145	150	230	127	40	108	405	33	438	60	31

HOLE END BOTTOM MOUNT CYLINDERS

HYDRAULIC CYLINDERS / HOLE END BOTTOM MOUNT CYLINDERS

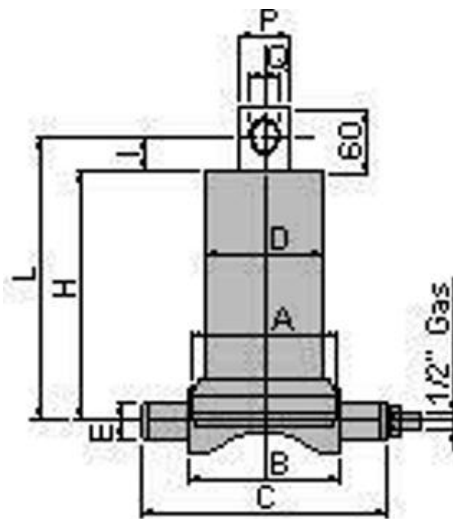


Hole end bottom mount cylinders.



Cylinder specifications.

Part No	Stroke mm	No of Stages	Extension diameter in mm							Capaci y @ 100 bar in Kg	Weight Kg	Capacity lt
			46	61	76	91	107	127	146			
AL00087	700	3	Y	Y	Y	-	-	-	-	3000	17	2.7
AL00093	800	3	Y	Y	Y	-	-	-	-	3000	18	3
AL00100	1050	3	-	Y	Y	Y	-	-	-	5000	33	5.8
AL00103	1150	3	-	Y	Y	Y	-	-	-	5000	36	6.3
AL00105	1200	4	-	Y	Y	Y	Y	-	-	8000	35	8.1
AL00115	1500	4	-	Y	Y	Y	Y	-	-	8000	38	10
AL00120	1700	4	-	Y	Y	Y	Y	-	-	8000	45	11.3
AL00116	1500	5	-	Y	Y	Y	Y	Y	-	9000	51	12.2
AL00125	1850	5	-	Y	Y	Y	Y	Y	-	9000	59	14.9
AL00127	2150	5	-	Y	Y	Y	Y	Y	-	9000	62	17.3



Cylinder Dimensions.

Part No	Dimensions of cylinders in mm									
	A	B	C	D	E	H	I	L	P	Q
AL00087	110	115	195	95	45	315	36	351	45	26
AL00093	110	115	195	95	45	345	36	381	45	26
AL00100	130	135	215	114	45	425	33	458	60	31
AL00103	130	135	215	114	45	460	33	493	60	31
AL00105	145	150	230	127	45	380	33	413	60	31
AL00115	145	150	230	127	45	455	33	488	60	31
AL00120	145	150	230	127	45	505	33	538	60	31
AL00116	170	175	265	152	45	395	33	428	60	31
AL00125	170	175	265	152	45	465	33	498	60	31
AL00127	170	175	265	152	45	525	33	558	60	31

CYLINDER MOUNTS

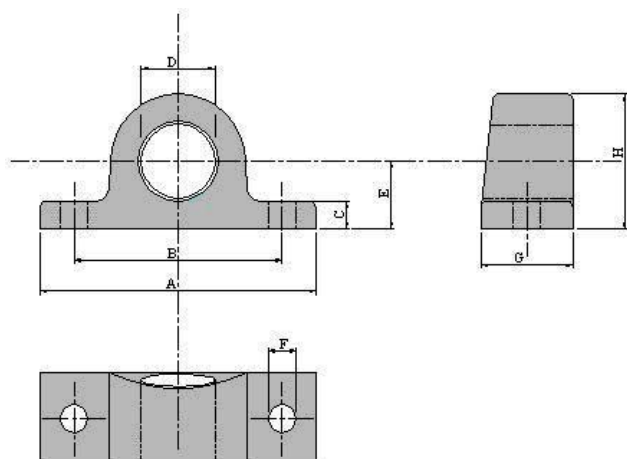
HYDRAULIC CYLINDERS / CYLINDER MOUNTS



Bolt on cylinder mounts.



Part No	A	B	C	D	E	F	G	H	Kg
AL01827	130	95	12	35.5	30	13	40	56	0.9
AL01852	140	108	15	40.5	33	15	45	66	1.2
AL01860	140	108	15	45.5	33	15	45	66	1.2



CUSTOM DESIGNS

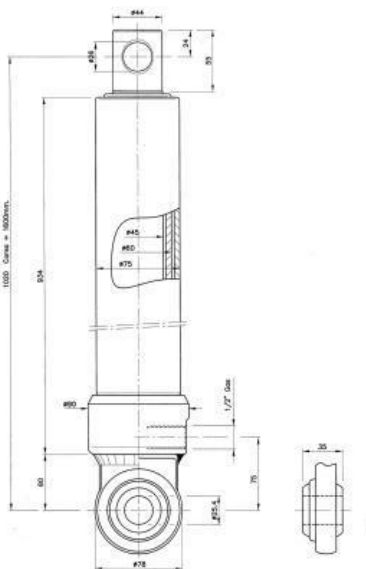
HYDRAULIC CYLINDERS / CUSTOM DESIGNS



Are you an OEM requiring a hydraulic cylinder with a specific design?

Aline Trading P/L can supply single or multi stage hydraulic cylinders made to suit your requirements. (Min quantities apply)

Please contact us today for a quotation.



HYDRAULIC POWER PACKS

HYDRAULIC CYLINDERS / HYDRAULIC POWER PACKS



Aline Trading Pty Ltd.
12V power Packs.

12V - 9.0 Lt TANK

HYDRAULIC CYLINDERS / HYDRAULIC POWER PACKS / 12V - 9.0 Lt TANK

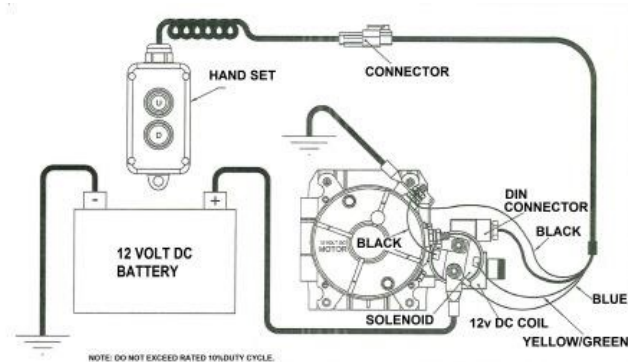
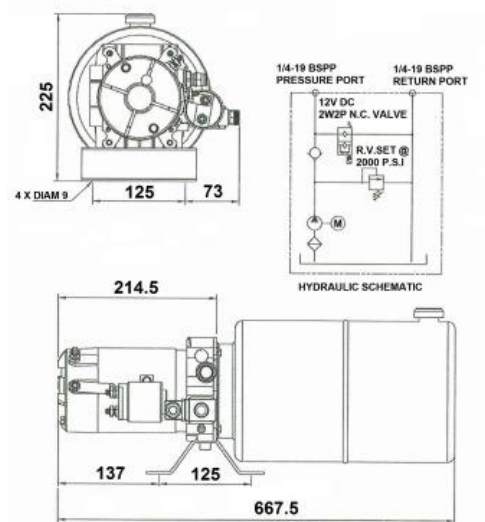


Aline Trading Pty Ltd.
A quality single action 12V DC Power pack with 9.0 litre tank, Suitable for use with our range of hydraulic cylinders and many other applications. Supplied with hand controller and 3 metre lead.

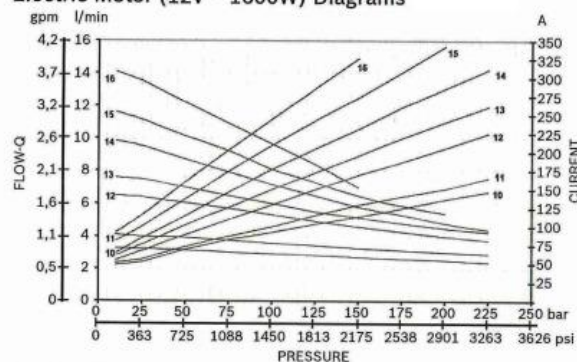
Part Number	Tank Size
AL01455	9.0 Lt



Note: The drawing below shows a round tank. The 9.6lt tank supplied is a rectangular tank, 203mm wide x 172mm high.



Electric Motor (12V – 1600W) Diagrams



12V - 16 Lt TANK

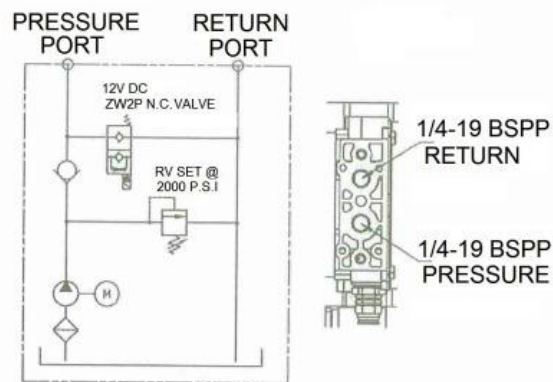
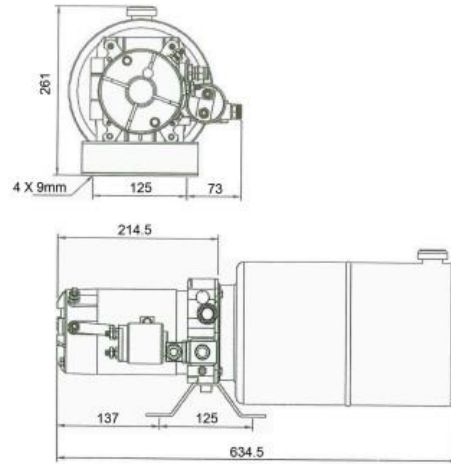
HYDRAULIC CYLINDERS / HYDRAULIC POWER PACKS / 12V - 16 Lt TANK



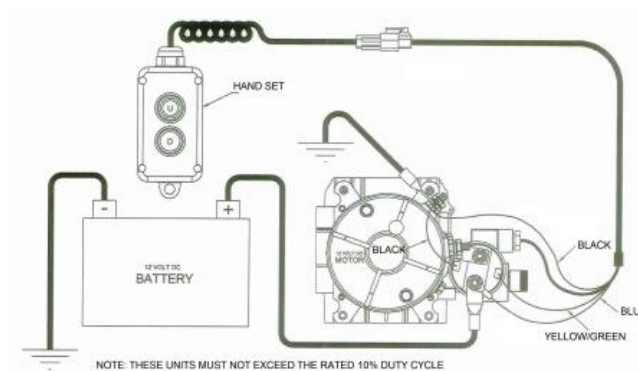
Aline Trading Pty Ltd.

A quality single action 12V DC power pack with 16 litre tank, suitable for use with our range of hydraulic cylinders and other applications. Supplied with hand controler and 3m lead.

Part Number	Tank Size
AL01456	16 Lt



HYDRAULIC SCHEMATIC



HAND - 7 Lt TANK

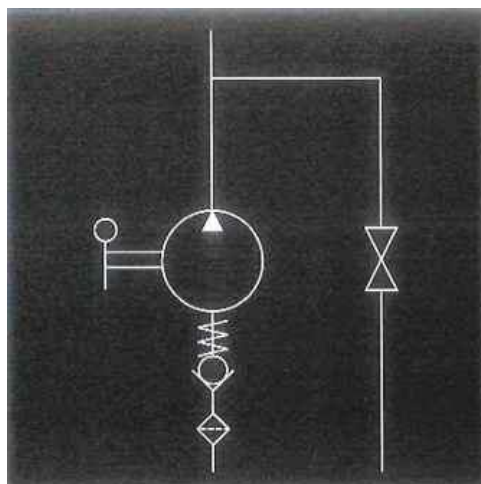
HYDRAULIC CYLINDERS / HYDRAULIC POWER PACKS / HAND - 7 Lt TANK



Aline Trading Pty Ltd
A quality double acting hand pump with 7 lt steel tank for single acting cylinders.



SPECIFICATIONS	
Part Number	AL00117
Displacement/stroke	45 cc
Pressure Optimal	80 BAR
Handle force @ 80 BAR	250N
Pressure Max	280 BAR
Handle force at 280 BAR	900N
Dry weight incl handle	9.3 KG
Oil Tank Capacity.	7 Lt
O/A Height	450 mm
Mount Holes.	90mm H x 195mm W
Handle length	600 mm
Pump body	Cast Iron - black
Piston coating.	Niploy
Externals incl handle	White zinc plated.
Tank	Metal 7 Lt - Black



HJ600 HYDRAULIC JACK

HYDRAULIC CYLINDERS / HJ600 HYDRAULIC JACK



Single acting hydraulic jack

Aline trading P/L presents a quality made single acting hydraulic jack suitable for numerous applications including engine lifters, ute jibs, auger height adjusters, conveyor height adjusters and much more.



Specifications	
Model	HJ600
Part Number	AL01335
Lift capacity	8000 Kg
Dual pumping action.	Faster lift action
Hard chromed piston.	Rust prevention.
Stroke	500mm
closed length eye - eye	630mm
Closed length o/all	670mm
Mount holes top and bottom	Suits 16mm pin
Piston diameter	34mm
Unit weight	15kg

JOCKEY WHEELS AND PARKING JACKS

JOCKEY WHEELS AND PARKING JACKS



Aline Trading P/L present a comprehensive range of quality made mechanical parking jacks and jockey wheels suitable for a wide range of trailers and farm equipment. We also offer a range of hydraulic parking jacks suitable for larger agricultural and Industrial equipment.

The well known and respected SIMOL range of jacks from Italy form core of our range and is supplemented by our own Aline range of products. Please contact us today with your enquiry.

JOCKEY WHEELS

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS



Aline Trading P/L present a comprehensive range of quality made jockey wheels suitable for a wide range of trailers and farm equipment.

Please contact us today with your enquiry.

AL00714 JOCKEY WHEEL 250 Kg AUTO FOLD

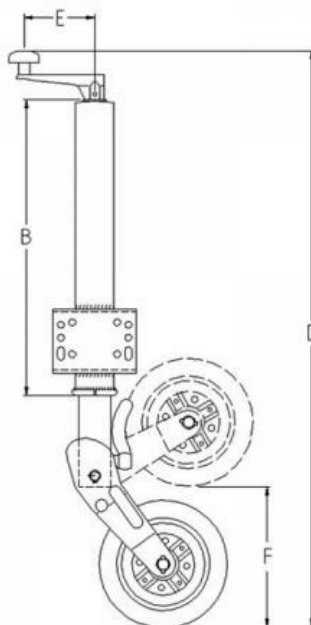
JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL00714 JOCKEY WHEEL 250 Kg AUTO FOLD



The AL000714 is a quality Italian made product with a rubber tyre on steel wheel, designed for agricultural and automotive applications. This model features a steel wheel with rubber tyre and automatic lift and lock system.

New model with bracket shown.

Part number	AL00714
Model	AC296 S
Wheel size Diameter x Width	200mm x 60mm rubber on steel
Outer tube size and shape	60 mm round
Static load rating in Kg	250 Kg
Screw stroke in mm +/- 10mm	185 mm
B	460 mm
D	860 mm
E	110 mm
F	270 mm
Unit Weight	9 Kg
Winding method	top wind



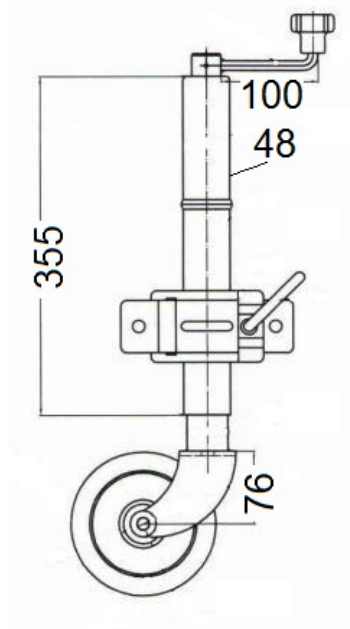
AL01354 JOCEY WHEEL 350 Kg

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL01354 JOCEY WHEEL 350 Kg



The AL01354 or (JW1) jockey wheel is the basic clamp on jockey wheel with rubber tyre used on most small trailers in Australia. Supplied with clamp.

Part number	AL01354
Model	JW1
Wheel size Diameter x Width	140 x 45 solid rubber
Outer tube size and shape	48 mm round
Static load rating in Kg	350 Kg
Screw stroke in mm +/- 10mm	240mm
Unit Weight	4.9 Kg
Winding method	Top wind
Mount	Clamp. Bolt or weld on
Finish	Zinc plated



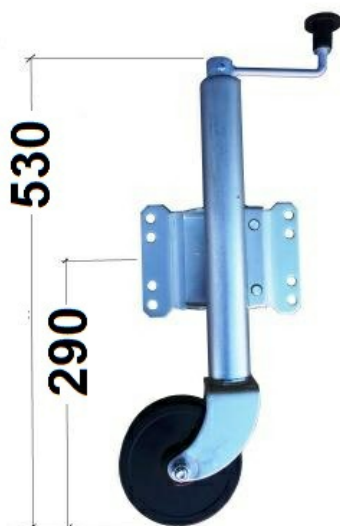
AL01357 JOCKEY WHEEL 350Kg

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL01357 JOCKEY WHEEL 350Kg



The AL01357 swivel mount jockey wheel is a very popular choice and allows for easy retraction of the wheel with minimal winding. The swivel mount also ensures the jockey wheel is kept secure with the trailer.

Part number	AL01357
Model	JW2
Wheel size Diameter x Width	140mm x 45mm rubber
Outer tube size and shape	48mm round
Static load rating in Kg	350 Kg
Screw stroke in mm +/- 10mm	240 mm
Unit Weight	5.8 Kg
Winding method	Top wind
Mount	Swivel - Bolt or weld on
Finish	Zinc plated.



AL01359 JOCKEY WHEEL 500Kg

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL01359 JOCKEY WHEEL 500Kg



The AL01359 is a side wind swivel mount jockey wheel designed for use in tight locations where a normal top wind jack will not fit. Locations with limited space like trailers, campers or caravans with gas bottles or tool boxes mounted on the draw bar restricting the space to wind a conventional jockey wheel. The side wind allows for clear movement and the gearbox reduces the winding force required to raise the drawbar.

Part number	AL01359
Model	JW3
Wheel size Diameter x Width	150mm x 50mm
Outer tube size and shape	48 mm round
Static load rating in Kg	500 Kg
Screw stroke in mm +/- 10mm	225 mm
Unit Weight	7.5 Kg
Winding method	Side wind
Mount	Swivel. Bolt or weld on
Finish	Zinc plated



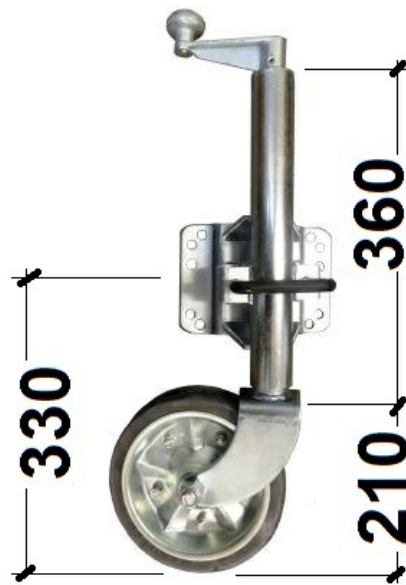
AL01353 JOCKEY WHEEL 750 Kg

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL01353 JOCKEY WHEEL 750 Kg



The AL01353 jockey wheel offers increased capacity with a heavy duty locking pin swivel bracket and an 8â€ x 2â€ tyre with a zinc plated steel centre and roller bearings.

Part number	AL01353
Model	JW4ZUBHD
Tyre size	200 mm x 55 mm
Static load rating in Kg	750 Kg
Screw stroke in mm +/- 10mm	225 mm
Unit Weight	9.6 Kg
Winding method	Top wind
Mount	Swivel - Bolt on or weld
Finish	Zinc plated.



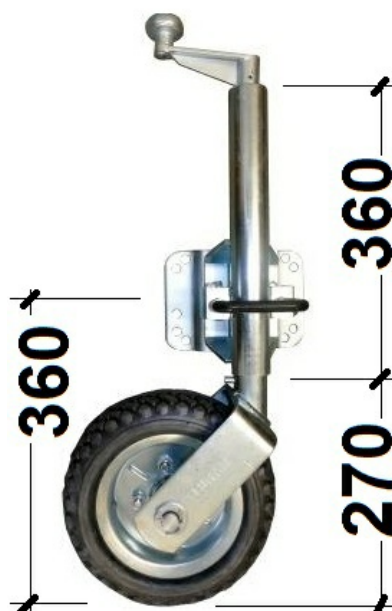
AL01352 JOCKEY WHEEL 1000 Kg

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL01352 JOCKEY WHEEL 1000 Kg



The AL01352 jockey wheel offers increased capacity with a heavy duty locking pin swivel bracket, heavy duty winding handle and thrust bearing and a 4.10/3.50x4 (10â€) â€Pneumatic Lookâ€ solid cushion tyre with a zinc plated steel centre and bronze bush bore.

Part number	AL01352
Model	JW11UBHD
Tyre Size	4.10/3.50x4 (10")
Static load rating in Kg	1000 Kg
Screw stroke in mm +/- 10mm	225 mm
Unit Weight	13 Kg
Winding method	Top wind
Mount	Swivel - Bolt on or weld
Finish	Zinc plated.



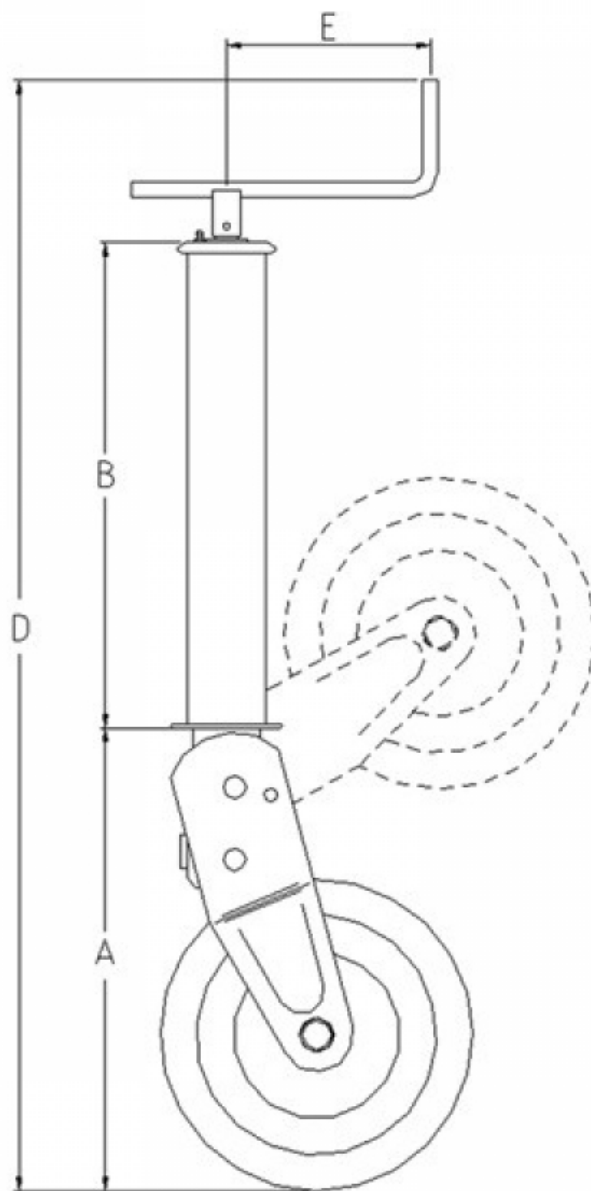
AL00624 JOCKEY WHEEL 1000 Kg AUTO FOLDING

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL00624 JOCKEY WHEEL 1000 Kg AUTO FOLDING



The AL00624 is a quality Italian made product with a rubber tyre on steel wheel, designed for agricultural and industrial applications. This model features a steel wheel with rubber tyre and self acting turn over and locking system.

Part number	AL00624
Model	A115
Wheel size Diameter x Width	280mm x 65mm rubber/steel
Outer tube size and shape	70 mm Square
Static load rating in Kg	1000 Kg
Screw stroke in mm +/- 10mm	230 mm
A	490 mm
B	460 mm
D closed	1105 mm
E	185 mm
Unit Weight	16.3 Kg
Winding method	top wind
Finish	prime paint



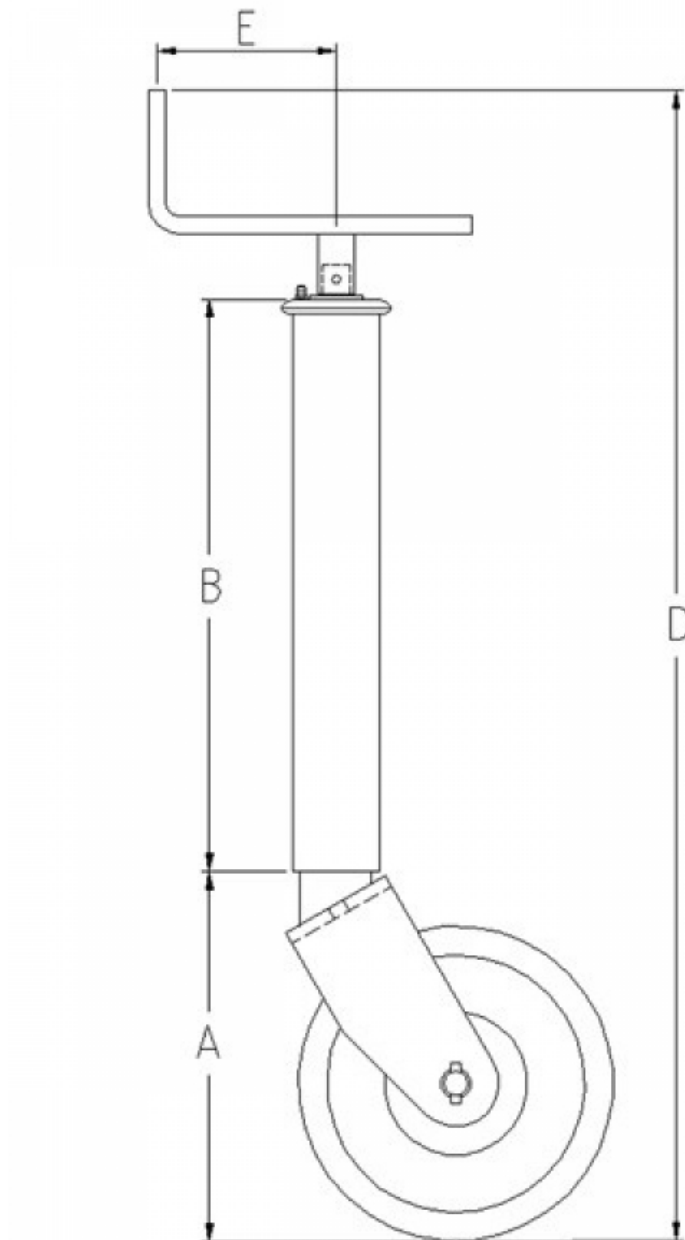
AL02775 JOCKEY WHEEL 1000 Kg

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL02775 JOCKEY WHEEL 1000 Kg



The AL02775 is a quality Italian made product with a steel wheel, designed for agricultural and industrial applications

Part number	AL2775
Model	FO 270
Wheel size Diameter x Width	275mm x 70mm steel
Outer tube size and shape	70mm round
Static load rating in Kg	1000 Kg
Screw stroke in mm +/- 10mm	300mm
A	305mm
B	460mm
D closed	910mm
E	130mm
Unit Weight	12.5Kg
Winding method	Top wind



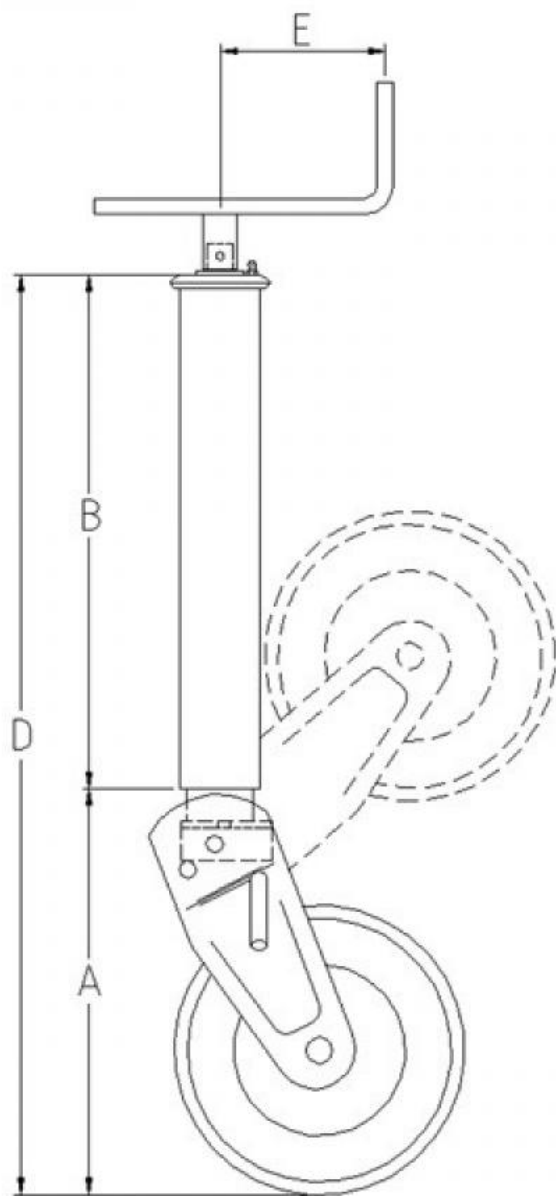
AL01698 JOCKEY WHEEL 1000 Kg FOLDING

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL01698 JOCKEY WHEEL 1000 Kg FOLDING



The AL01698 is a quality Italian made product with a steel wheel, designed for agricultural and industrial applications. This model features a steel wheel with manual turn over feature and locking pin to gain additional ground clearance once the load is removed

Part number	AL01698
Model	S126
Wheel size Diameter x Width	310mm x 90mm steel
Outer tube size and shape	70mm square
Static load rating in Kg	1000 kg
Screw stroke in mm +/- 10mm	300 mm
A	395 mm
B	460 mm
D closed	1010 mm
E	185 mm
Unit Weight	17.5 Kg
Winding method	top wind



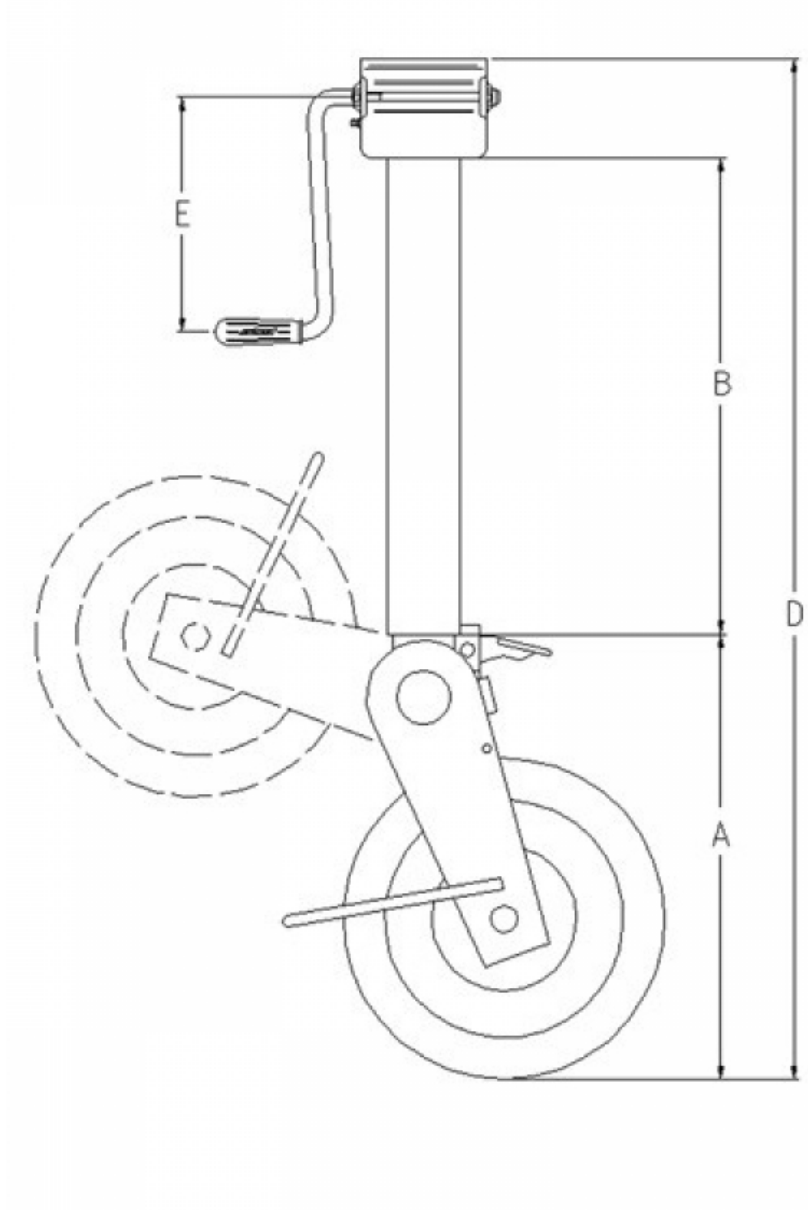
AL02776 JOCKEY WHEEL 1500 Kg FOLDING

JOCKEY WHEELS AND PARKING JACKS / JOCKEY WHEELS / AL02776 JOCKEY WHEEL 1500 Kg FOLDING



The AL02776 is a quality Italian made product with a steel wheel, designed for agricultural and industrial applications. This model features a steel wheel with semi automated turn over, locking pedal and side handle.

Part number	AL02776
Model	DM364
Wheel size Diameter x Width	310mm x 90mm steel
Outer tube size and shape	70 mm round
Static load rating in Kg	1500
Screw stroke in mm +/- 10mm	240 mm
A	430 mm
B	460 mm
D closed	990 mm
E	225 mm
Unit Weight	30 Kg
Winding method	side wind



PARKING JACKS

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS



Aline Trading P/L present a comprehensive range of quality made mechanical parking jacks suitable for a wide range of trailers and farm equipment.

Please contact us today with your enquiry.

AL01523 SIMOL TOP WIND CLAMP MOUNT 1200 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01523 SIMOL TOP WIND CLAMP MOUNT 1200 Kg



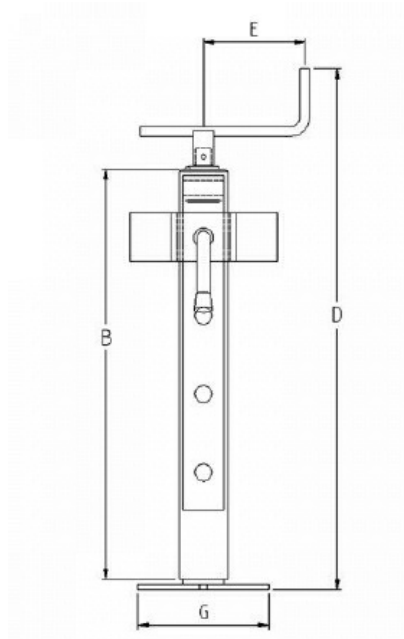
The AL01523 is an Italian made SIMOL top wind jack with slide clamp mount.

This simple yet very strong design makes for a reliable performer.

Capacity = 1200 Kg

Stroke = 300mm

Part Number	AL01523
Model	PE600
Static load rating	1200 Kg
Screw stroke. +_ 10mm	300mm
Tube size diameter x shape	80mm square
Unit weight	16.6 Kg
Finish	prime paint
Mount	slide clamp
B	500mm
D	670mm
E	185mm
G	220mm



AL02650 SIMOL SIDE WIND TUBE MOUNT 1300 Kg

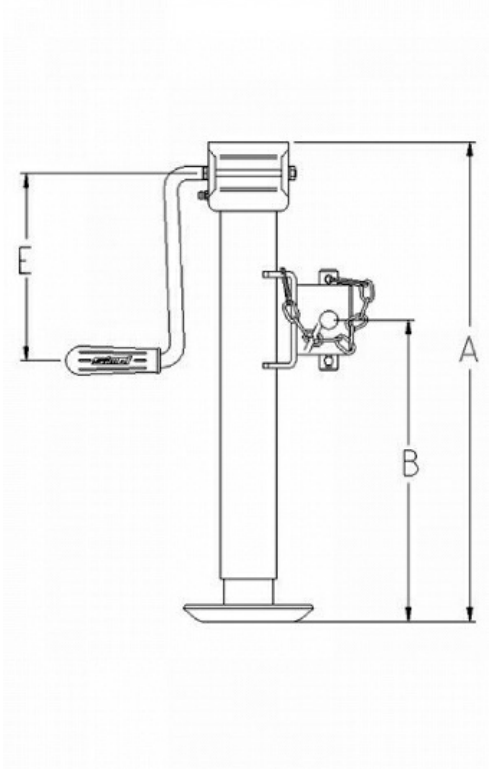
JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL02650 SIMOL SIDE WIND TUBE MOUNT 1300 Kg



The AL02650 is an Italian made SIMOL side wind jack with tube mount.
Capacity = 1300 Kg

Stroke = 250mm
Supplied with weld on tube. Not shown.

Part Number	AL02650
Model	LT3103
Static load rating	1300Kg
Screw stroke. +_ 10mm	250mm
Tube size diameter x shape	57mm round
Unit weight	6.3 Kg
Finish	zinc plated
Mount	tube
A	430mm
B	280mm
E	168mm



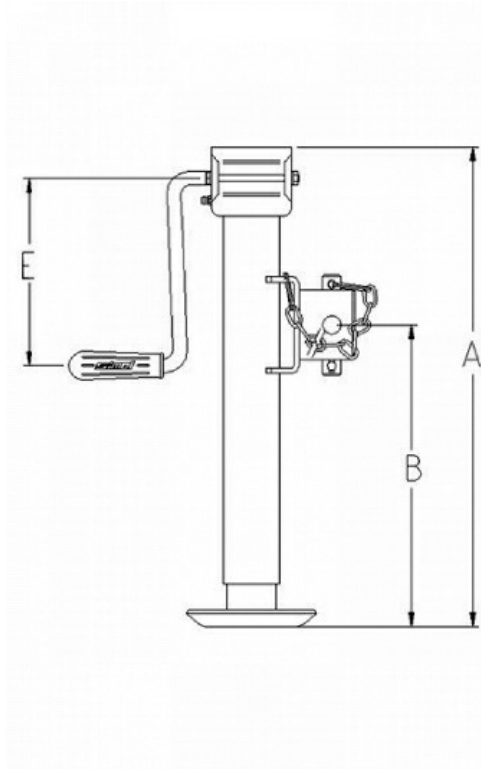
AL02651 SIMOL SIDE WIND TUBE MOUNT 1300 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL02651 SIMOL SIDE WIND TUBE MOUNT 1300 Kg



The AL02651 is an Italian made SIMOL side wind jack with tube mount.

Part Number	AL02651
Model	LT3153
Static load rating	1300 Kg
Screw stroke. +_ 10mm	370mm
Tube size diameter x shape	57mm
Unit weight	7.2 Kg
Finish	zinc plated
Mount	tube
A	560mm
B	405mm
E	168mm



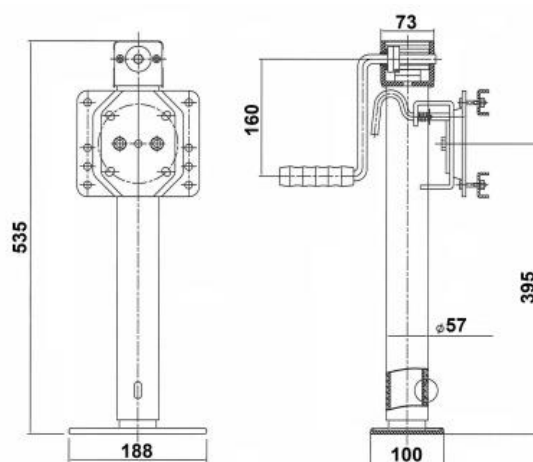
AL01447 SIDE WIND SWIVEL MOUNT 1300 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01447 SIDE WIND SWIVEL MOUNT 1300 Kg



The AL01447 is a swivel mount side wind jack.
Suitable for agricultural and industrial applications.

Part Number	AL01447
Model	LT3153CSM
Static load rating	1300 Kg
Screw stroke, +_ 10mm	370mm
Tube size diameter x shape	57mm
Unit weight	7.3 Kg
Finish	zinc plated
Mount	swivel plate.



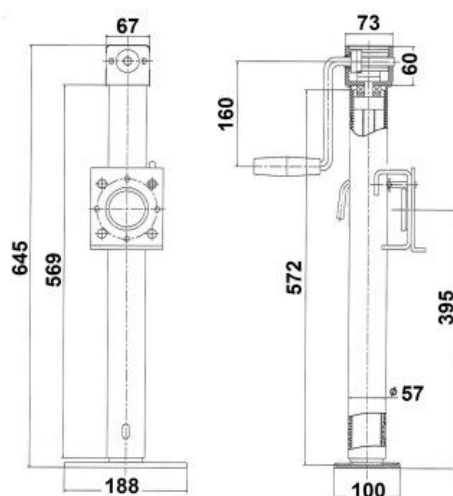
AL00848 SIDE WIND FLANGE MOUNT 1300 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL00848 SIDE WIND FLANGE MOUNT 1300 Kg



The AL00848 is a swivel mount side wind jack with a 370mm stroke.
Suitable for agricultural and industrial equipment.

Part Number	AL00848
Model	ASF15
Static load rating	1300 Kg
Screw stroke. +_ 10mm	370mm
Tube size diameter x shape	57mm
Unit weight	7.9 kg
Finish	zinc plated
Mount	swivel plate



AL02633 SIDE WIND 1300 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL02633 SIDE WIND 1300 Kg



Aline Trading Pty Ltd

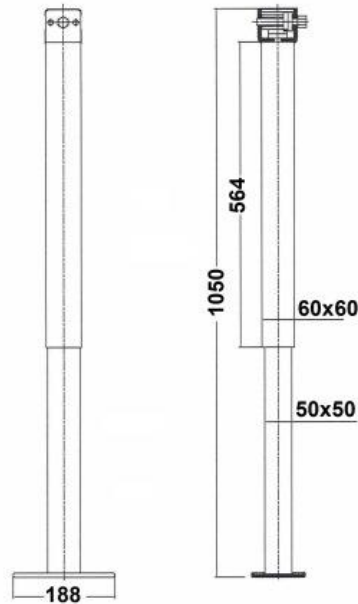
This long bodied, high lift jack has been developed for applications that require additional lift height such as removing camper or work backs from Ute trays.

A removable handle makes storage easier.

The mounting point is to be designed and manufactured by a suitably qualified person to suit the specific application.

Part Number	AL02633
Model	3153CLSQ
Static load rating	1300 Kg
Closed length o/a	1040 mm
Open length o/a	1430 mm
Screw stroke. + _ 10mm	390 mm
Tube size	60 mm SQ
Unit weight	10.1 Kg
Finish	zinc plated
Mount	By Customer.





AL01428 SIMOL SIDE WIND FLANGE MOUNT 1300 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01428 SIMOL SIDE WIND FLANGE MOUNT 1300 Kg



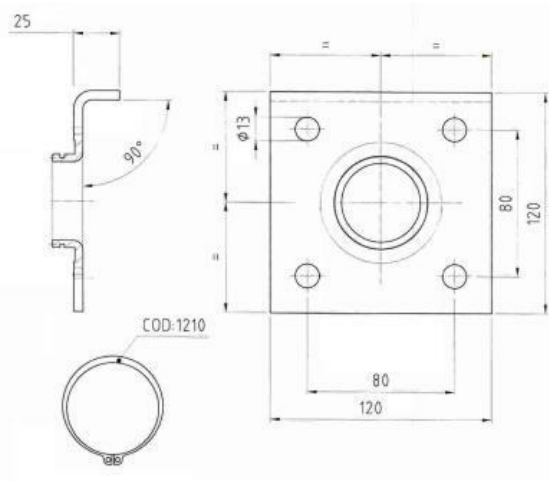
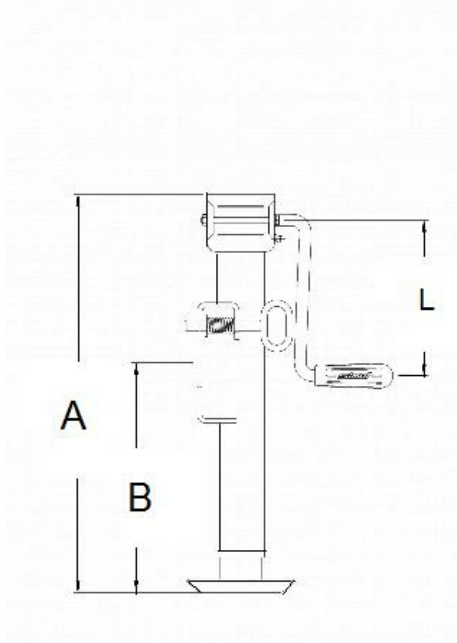
The AL01428 is an Italian made SIMOL side wind jack with swivel plate mount.

Capacity = 1300 Kg

Stroke = 250mm

Supplied with weld on plate mount. Not shown in photo. details below

Part Number	AL01428
Model	LF3101
Static load rating	1300 Kg
Screw stroke. +_ 10mm	250mm
Tube size diameter x shape	57mm round
Unit weight	6.3 Kg
Finish	zinc plated
Mount	swivel plate
A	430mm
B	245mm
L	168mm



AL00847 SIDE WIND FLANGE MOUNT 1300 Kg

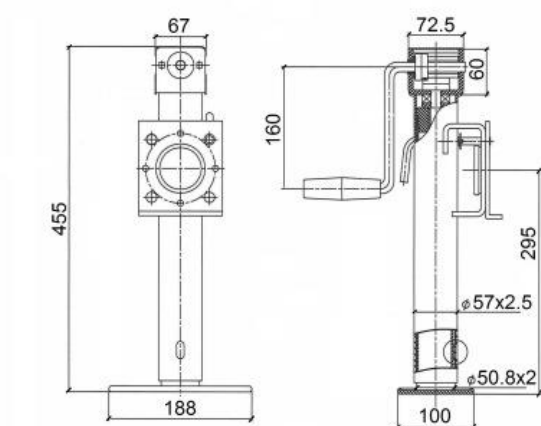
JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL00847 SIDE WIND FLANGE MOUNT 1300 Kg



The AL00847 is a swivel mount side wind jack with a 250mm stroke.

Suitable for agricultural and industrial equipment.

Part Number	AL00847
Model	ASF10
Static load rating	1300 Kg
Screw stroke. +_ 10mm	250 mm
Tube size diameter x shape	57 mm
Unit weight	6.3 kg
Finish	zinc plated
Mount	swivel plate



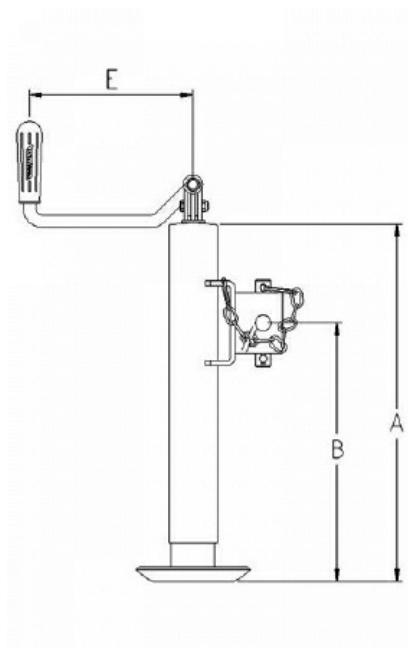
AL02053 SIMOL TOP WIND TUBE MOUNT 1300 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL02053 SIMOL TOP WIND TUBE MOUNT 1300 Kg



The AL02053 is an Italian made SIMOL top wind jack with tube mount.

Part Number	AL02053
Model	ST3154
Static load rating	1300 Kg
Screw stroke. +_ 10mm	360mm
Tube size diameter x shape	57mm round
Unit weight	6.4 Kg
Finish	zinc plated
Mount	tube
A	500mm
B	390mm
E	168mm



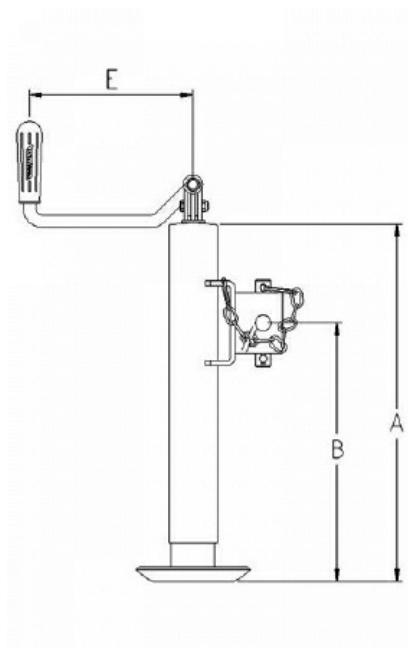
AL02052 SIMOL TOP WIND TUBE MOUNT 1300 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL02052 SIMOL TOP WIND TUBE MOUNT 1300 Kg



The AL02052 is an Italian made SIMOL top wind jack with tube mount.
Supplied with weld on tube mount. Not shown.

Part Number	AL02052
Model	ST3104
Static load rating	1300 Kg
Screw stroke. +_ 10mm	250mm
Tube size diameter x shape	57mm round
Unit weight	5.4 Kg
Finish	zinc plated
Mount	tube
A	375mm
B	265mm
E	168mm



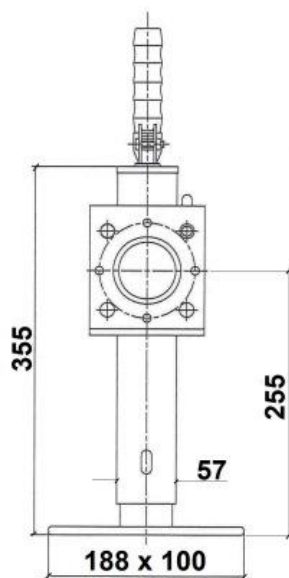
AL00857 TOP WIND SWIVEL MOUNT 1350 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL00857 TOP WIND SWIVEL MOUNT 1350 Kg



The AL00857 is a swivel mount top wind jack with a 250mm stroke.
Suitable for agricultural and industrial equipment.

Part Number	AL00857
Model	ATF10
Static load rating	1350 kg
Screw stroke. +_ 10mm	250mm
Tube size diameter x shape	57mm
Unit weight	5.3 kg
Finish	zinc plated
Mount	swivel plate



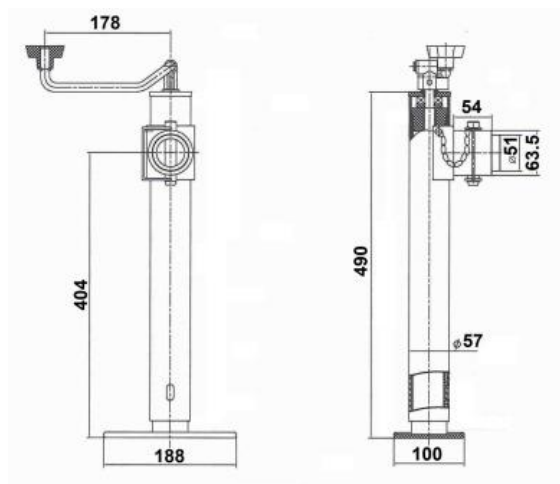
AL02055 TOP WIND TUBE MOUNT 1350 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL02055 TOP WIND TUBE MOUNT 1350 Kg



The AL02055 is a tube mount top wind jack.
Suitable for agricultural and industrial applications.

Part Number	AL02055
Model	ST3154C
Static load rating	1350 Kg
Screw stroke. +_ 10mm	380mm
Tube size diameter x shape	57mm
Unit weight	6.4
Finish	zinc plated
Mount	tube mount



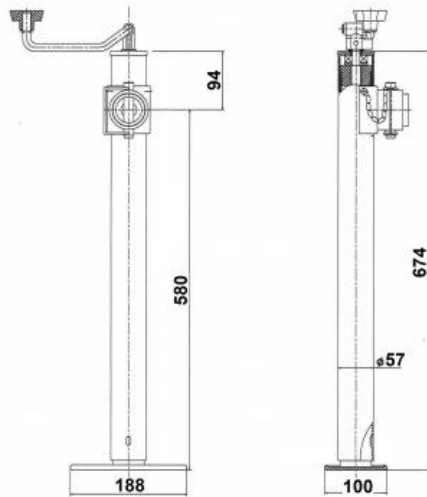
AL02678 TOP WIND TUBE MOUNT 1350 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL02678 TOP WIND TUBE MOUNT 1350 Kg



The AL02678 is a tube mount top wind jack. This model has a longer body section that is suited to agricultural and industrial equipment with a high drawbar height.

Part Number	AL02678
Model	ST3154CEXT
Static load rating	1350 Kg
Screw stroke. +_ 10mm	380mm
Tube size diameter x shape	57mm round
Unit weight	7.0Kg
Finish	Zinc plated
Mount	Tube



AL01114 SIMOL SIDE WIND 1500 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01114 SIMOL SIDE WIND 1500 Kg

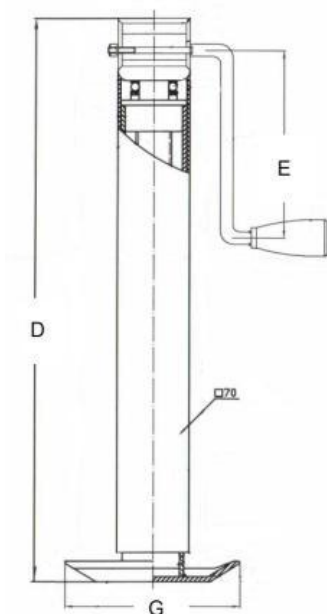


The AL01114 is an Italian made SIMOL side wind jack.

Capacity = 1500 Kg

Stroke = 370mm

Part Number	AL01114
Model	DT590
Static load rating	1500 kg
Screw stroke. +_ 10mm	370
Tube size diameter x shape	70mm square
Unit weight	10.5 kg
Finish	prime paint
Mount	none
D	530mm
G	120mm x 165mm
E	175mm



AL01115 SIMOL SIDE WIND DROP LEG 1500 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01115 SIMOL SIDE WIND DROP LEG 1500 Kg

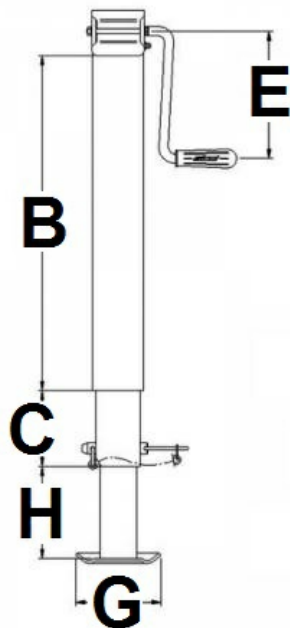


The AL01115 is an Italian made SIMOL side wind drop leg jack.

Capacity = 1500 Kg

Stroke = 370mm

Part Number	AL01115
Model	DT5903SFZ
Static load rating	1500 Kg
Screw stroke. +_ 10mm	370mm
Tube size diameter x shape	70mm square
Unit weight	12.5 Kg
Finish	zinc plated
Mount	none
B	460 mm
C	370mm
E	170 mm
H	340mm
G	120mm x 165mm



AL02654 SIMOL SIDE WIND TUBE MOUNT 1500 Kg

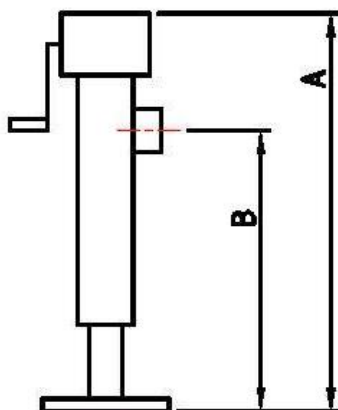
JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL02654 SIMOL SIDE WIND TUBE MOUNT 1500 Kg



The AL02654 is an Italian made SIMOL side wind jack with tube mount.

Capacity = 1500 Kg
Stroke = 370mm

Part Number	AL02654
Model	DT590Z TM
Static load rating	1500 KG
Screw stroke. +_ 10mm	370mm
Tube size diameter x shape	70mm square
Unit weight	10.5 Kg
Finish	zinc plated
Mount	tube
A	525mm
B	375mm



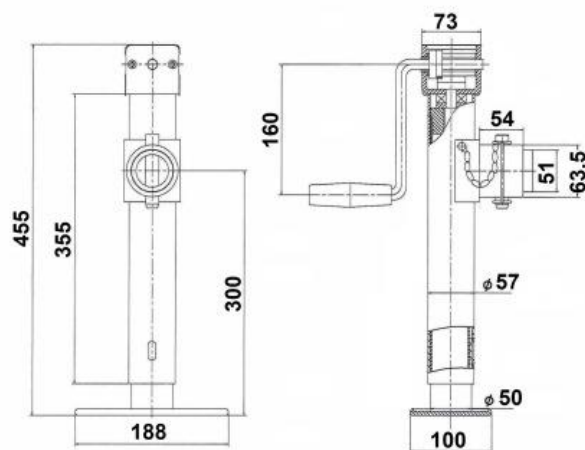
AL01444 SIDE WIND TUBE MOUNT 1590 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01444 SIDE WIND TUBE MOUNT 1590 Kg



The AL01444 is a tube mount side wind jack with a 250mm stroke.
Suitable for agricultural and industrial applications.

Part Number	AL01444
Model	LT3103C
Static load rating	1590 Kg
Screw stroke. +_ 10mm	250mm
Tube size diameter x shape	57mm
Unit weight	6.1 Kg
Finish	zinc plated
Mount	tube



AL01446 SIDE WIND TUBE MOUNT 1590 Kg

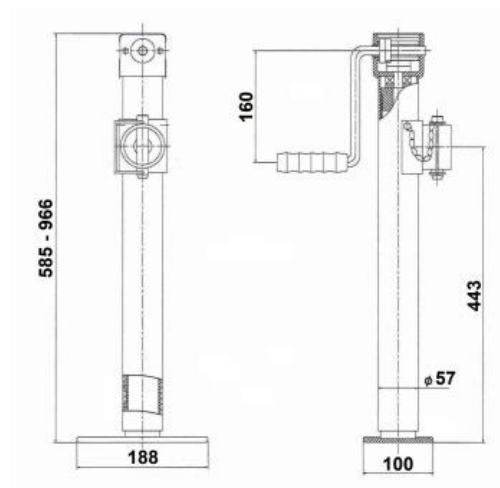
JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01446 SIDE WIND TUBE MOUNT 1590 Kg



The AL01446 is a tube mount side wind jack.

Suitable for agricultural and industrial applications.

Part Number	AL01446
Model	LT3153C
Static load rating	1590 Kg
Screw stroke. +_ 10mm	381mm
Tube size diameter x shape	57mm
Unit weight	7.1
Finish	zinc plated
Mount	tube



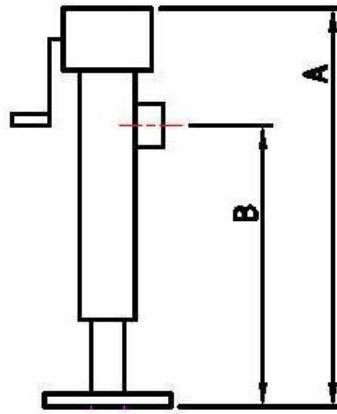
AL01124 SIDE WIND TUBE MOUNT 1590 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01124 SIDE WIND TUBE MOUNT 1590 Kg



The AL01124 is a side wind tube mount landing leg with painted square body.
Suitable for agricultural and industrial use.

Part Number	AL01124
Model	DT3500A
Static load rating	1590 Kg
Screw stroke. +_ 10mm	390mm
Dimension A closed	550mm
Dimension B closed	390mm
Tube size diameter x shape	57mm SQUARE
Unit weight	7.9 Kg
Finish	Black paint
Mount	Tube



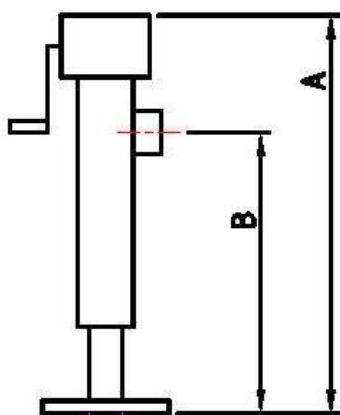
AL01125 SIDE WIND TUBE MOUNT 2270 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01125 SIDE WIND TUBE MOUNT 2270 Kg



The AL01125 is a side wind tube mount landing leg with painted round body.
Suitable for agricultural and industrial use.

Part Number	AL01125
Model	LT5000C
Static load rating	2270 Kg
Screw stroke. + _ 10mm	370mm
Dimension A closed	595mm
Dimension B closed	420mm
Tube size diameter x shape	57mm ROUND
Unit weight	7.4 Kg
Finish	Black paint
Mount	Tube

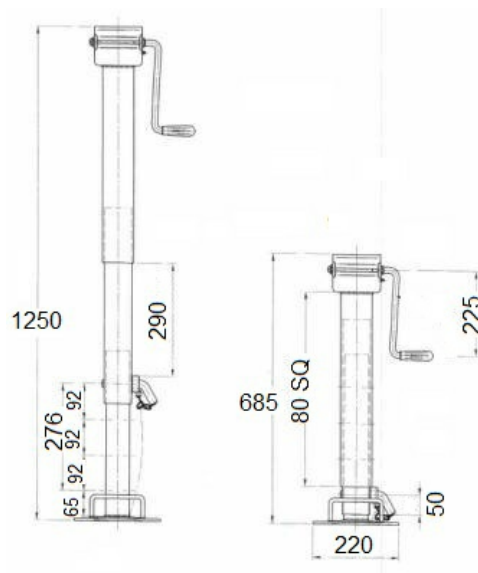


AL02696 SIMOL SIDE WIND DROP LEG 2500 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL02696 SIMOL SIDE WIND DROP LEG 2500 Kg



Part Number	AL02696
Model	DG7063SF
Static load rating	2500Kg
Screw stroke. + _ 10mm	290mm
Drop leg	276mm
Tube size diameter x shape	80mm square
Unit weight	18.3 Kg
Finish	prime paint
Mount	none



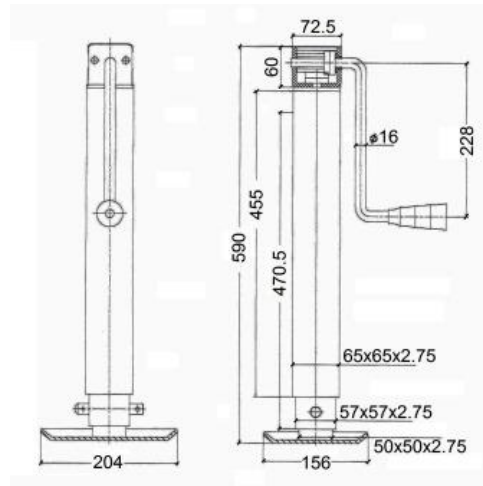
AL01116 SIDE WIND DROP LEG 3180 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01116 SIDE WIND DROP LEG 3180 Kg



The AL01116 is a side wind drop leg jack suited to agricultural and industrial equipment.

Part Number	AL01116
Model	DT5903SFZC
Static load rating	3180 Kg
Screw stroke. +_ 10mm	370mm
Tube size diameter x shape	65mm SQ
Unit weight	12.5 Kg
Finish	zinc plated
Mount	none
Drop leg	340 mm



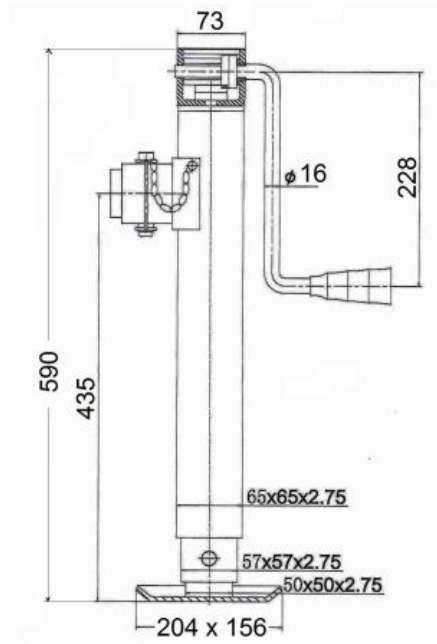
AL01118 SIDE WIND TUBE MOUNT DROP LEG 3180 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01118 SIDE WIND TUBE MOUNT DROP LEG 3180 Kg



The AL01118 is a side wind drop leg jack suited to agricultural and industrial equipment.

Part Number	AL01118
Model	DT5903SFZCTM
Static load rating	3180 kg
Screw stroke. +_ 10mm	370mm
Tube size diameter x shape	65 mm square
Unit weight	12 kg
Finish	zinc plated
Mount	tube
Drop leg	345mm



AL01119 SIDE WIND 3180 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01119 SIDE WIND 3180 Kg

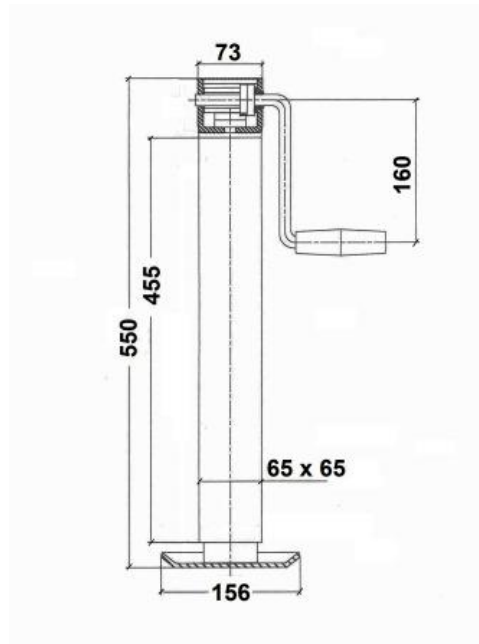


The AL01119 is a side wind jack suited to agricultural and industrial equipment.

Capacity = 1500Kg

Stroke = 370mm

Part Number	AL01119
Model	DT590C
Static load rating	3180 kg
Screw stroke. +_ 10mm	370mm
Tube size diameter x shape	65 mm SQ
Unit weight	8.6 kg
Finish	zinc plated
Mount	none



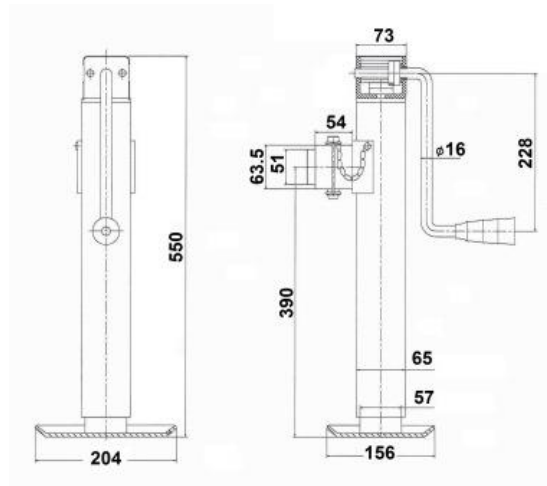
AL01121 SIDE WIND TUBE MOUNT 3180 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01121 SIDE WIND TUBE MOUNT 3180 Kg



The AL01121 is a side wind tube mount jack suited to agricultural and industrial equipment.

Part Number	AL01121
Model	DT590ZC TM
Static load rating	3180 Kg
Screw stroke. +_ 10mm	370mm
Tube size diameter x shape	65 mm square
Unit weight	10.5kg
Finish	zinc plated
Mount	tube mount



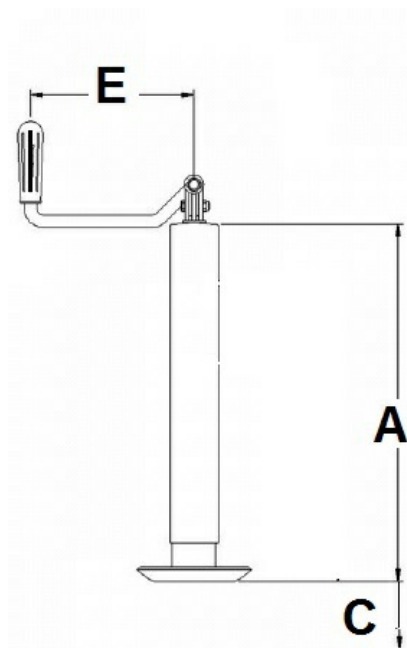
AL01128 TOP WIND DROP LEG 3180 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01128 TOP WIND DROP LEG 3180 Kg



The AL01128 is a top wind landing leg with a drop foot and painted square body.
Suitable for agricultural and industrial use.

Part Number	AL01128
Model	ST7000B
Static load rating	3180 Kg
Screw stroke. +_ 10mm	400mm
Dimension A closed	560mm
Dimension C Drop Leg.	345mm
Dimension E	220mm
Tube size diameter x shape	65mm SQUARE
Unit weight	9.9 Kg
Finish	Black paint
Mount	None



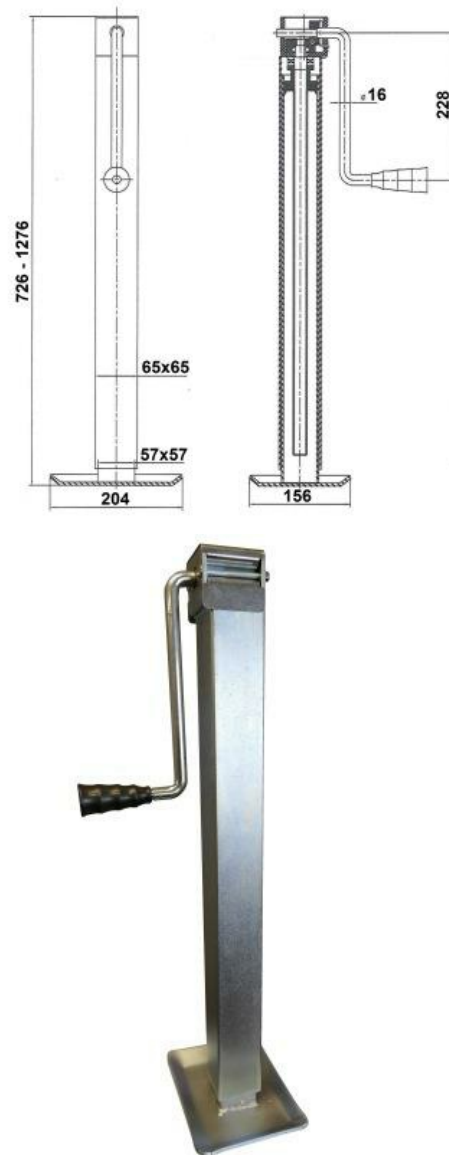
AL01129 SIDE WIND 3180 Kg LONG STROKE

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01129 SIDE WIND 3180 Kg LONG STROKE



The AL01129 jack has a stroke of 550 mm and is designed for applications requiring a longer than standard lift.

Part Number	AL01129
Model	DT7000L
Static load rating	3180 kg
Screw stroke. +_ 10mm	550 mm
Tube size diameter x shape	70mm SQ
Unit weight	12 kg
Finish	zinc plated
Mount	none



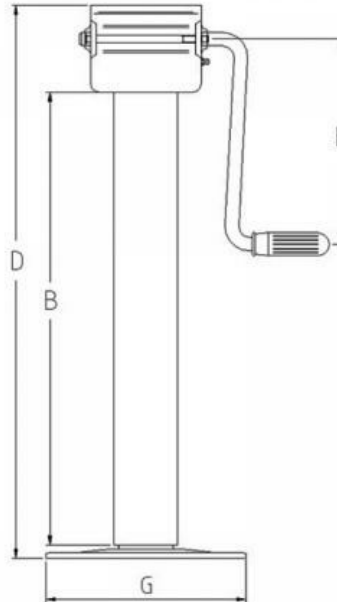
AL01097 SIMOL SIDE WIND 4000 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01097 SIMOL SIDE WIND 4000 Kg



The AL01097 is a very popular Italian made, 4000Kg side wind parking jack suitable for agricultural and industrial trailers.

Part Number	AL01097
Model	DG706
Static load rating	4000 Kg
Screw stroke. +_ 10mm	310mm
Tube size diameter x shape	80mm square
Unit weight	15.6 Kg
Finish	prime paint
Mount	none
B	500 mm
D closed	620 mm
E	225 mm
G	220 mm



AL01098 SIMOL SIDE WIND 2 SPEED 4000kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01098 SIMOL SIDE WIND 2 SPEED 4000kg



The AL01098 (DG706W) is a newly patented design. Made in Italy.

Based on the original AL01097 (DG706) jack, the new W series has been greatly improved by the addition of a 2 speed gearbox, saving time and labour when operating.

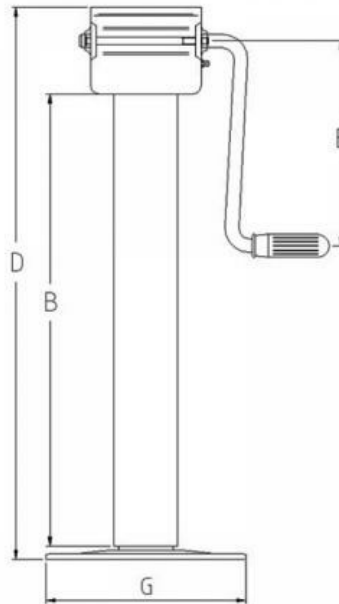
All external dimensions and capacities remain the same as the old AL01097 jack.

Advantages over a standard DG jack:

- 70% reduction in working time.
- 10% reduction in operating power.

The high speed function must only be used for the purpose of lifting or lowering the jack into position. Once the jack has been lowered to the ground it is necessary to use the low speed function to adjust the load. The AL01098 has no neutral position.

Part Number	AL01098
Model	DG706 - W
Gearbox	2 speed
Stroke per handle turn. Low speed	2.4mm
Stroke per handle turn. High speed	7.1mm
Static load rating	4000 Kg
Screw stroke. +_ 10mm	310mm
Tube size diameter x shape	80mm square
Unit weight	15.7 Kg
Finish	prime paint
Mount	none
B	500 mm
D closed	620 mm
E	225 mm
G	220 mm



Adjusting the jack under load (Low speed)

Push the handle to standard position. Rotate clockwise to lift the load.

Lowering the jack to the ground (high speed)

Pull the handle to fast position. Rotate counter clockwise to lower the jack to the ground. Rotate clockwise to lift the jack from the ground.



AL01102 SIMOL SIDE WIND CLAMP MOUNT 4000 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01102 SIMOL SIDE WIND CLAMP MOUNT 4000 Kg

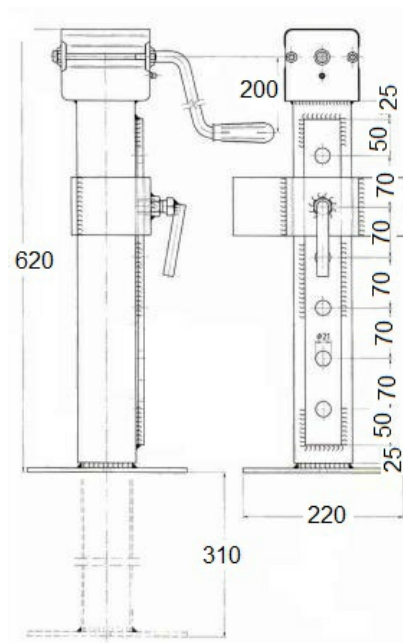


The AL01102 is an Italian made SIMOL side wind jack with slide clamp mount.

Capacity = 4000 Kg

Stroke = 310mm

Part Number	AL01102
Model	DG706PE
Static load rating	4000 Kg
Screw stroke. +_ 10mm	310mm
Tube size diameter x shape	80mm square
Unit weight	17 kg
Finish	prime paint
Mount	slide clamp



AL01380 SIMOL SIDE WIND DROP LEG 4500 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01380 SIMOL SIDE WIND DROP LEG 4500 Kg

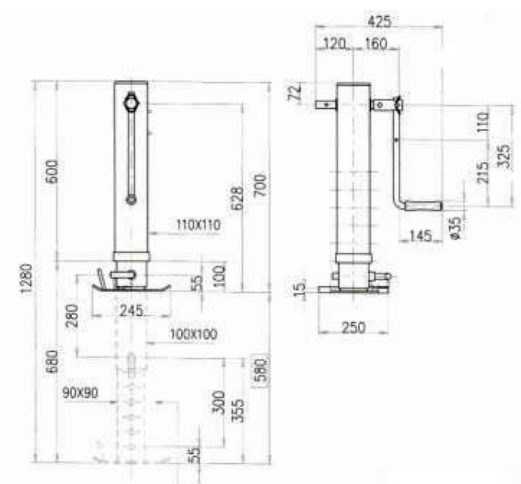
The AL01380 is a heavy duty 4500 kg rated jack with drop leg.
This premium quality product is suited to large agricultural or industrial trailers.

Features include;

- 2 position handle.
- Drop leg section for fast height adjustment.
- Galvanised foot for corrosion resistance.
- Lifting handle on foot.



Part Number	AL01380
Model	K450
Static load rating	4500 Kg
Screw stroke. +_ 10mm	280mm + 300mm drop
Tube size diameter x shape	110mm square
Unit weight	32 Kg
Finish	prime paint / galvanized
Mount	none
B = closed height	700 mm
G = base plate	250mm sq
H = drop section	300mm



AL01111 SIMOL SIDE WIND 6000 Kg

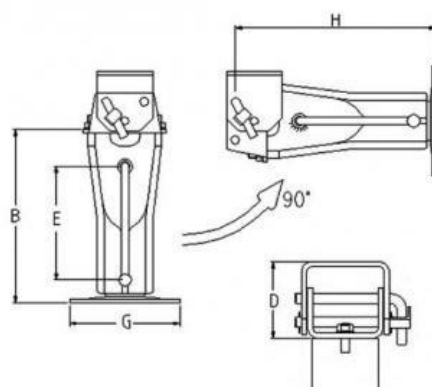
JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01111 SIMOL SIDE WIND 6000 Kg



The AL01111 is an Italian made SIMOL side wind jack with top mount tipping connection.
Capacity = 6000 Kg

Stroke = 170mm

Part Number	AL01111
Model	DS510S
Static load rating	6000 kG
Screw stroke. + _ 10mm	170 mm
Tube size diameter x shape	70mm shaped
Unit weight	15.5 Kg
Finish	prime painted
Mount	Top mount
B	330mm
D	125mm
E	220mm
G	220mm
H	400mm



AL01108 SIMOL SIDE WIND DROP LEG 6000 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01108 SIMOL SIDE WIND DROP LEG 6000 Kg



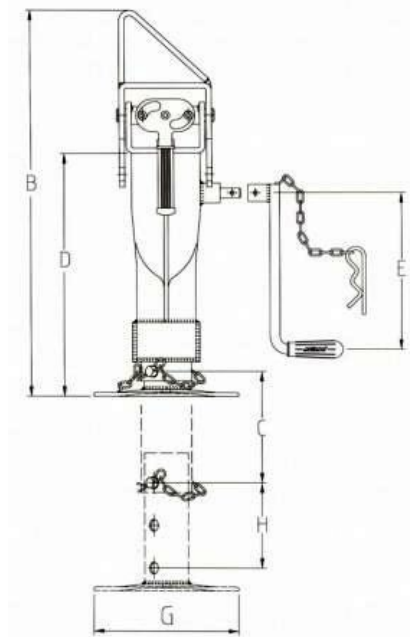
The AL01108 is an Italian made SIMOL side wind jack with drop leg and top mount tipping connection with automatic security lock.

The swing away design makes it suitable for heavy tandem trailers.

Capacity = 6000 Kg

Stroke = 170mm

Part Number	AL01108
Model	SD6 13AL
Static load rating	6000 Kg
Screw stroke. +_ 10mm	170mm
Tube size diameter x shape	70mm
Unit weight	18.6 Kg
Finish	prime paint
Mount	top mount
B	600 mm
C	170 mm
D	375 mm
E	235 mm
G	220 mm
H	130 mm



AL01092 SIMOL TANDEM SIDE WIND 6000 Kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01092 SIMOL TANDEM SIDE WIND 6000 Kg

The AL01092 is a complete landing leg set designed for use on 5th wheel trailers, agricultural machines and industrial equipment. The set consists of 2 x jack legs, 1 x handle and 1 x connecting drive shaft.

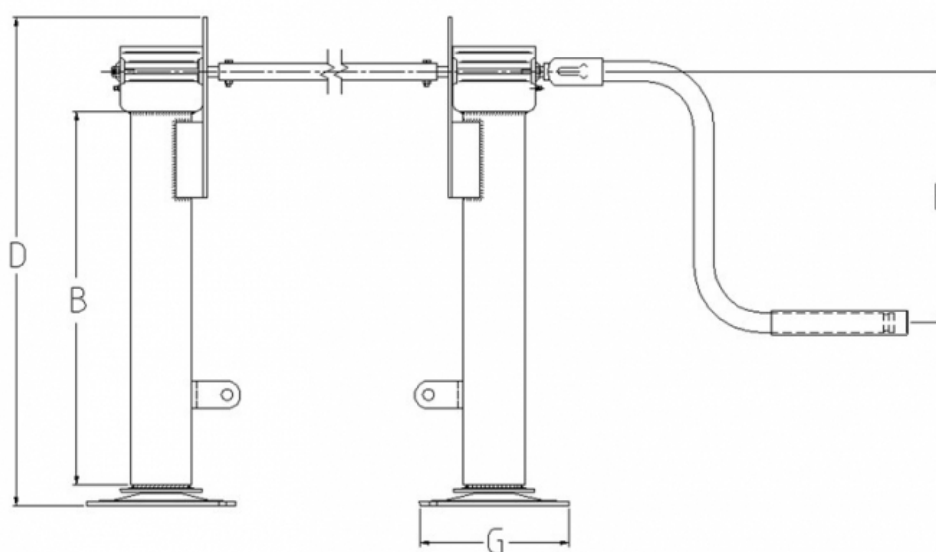
This model is made in Italy by SIMOL

These 2 leg sets allow operation from a single wind point and offer increased stability over a single jack leg.

Legs are supplied with mounting plates and brace anchors fitted.



Part Number	AL01092
Model	DG2800
Static load rating	6000 Kg
Screw stroke. + _ 10mm	330mm
Tube size diameter x shape	90mm square
Unit weight	51.8 Kg / set
Finish	prime paint
Mount	Plates supplied fitted
B	550mm
D	720mm
E	370mm
G	220mm



AL01366 SIMOL SIDE WIND DROP LEG 2 SPEED 7500kg

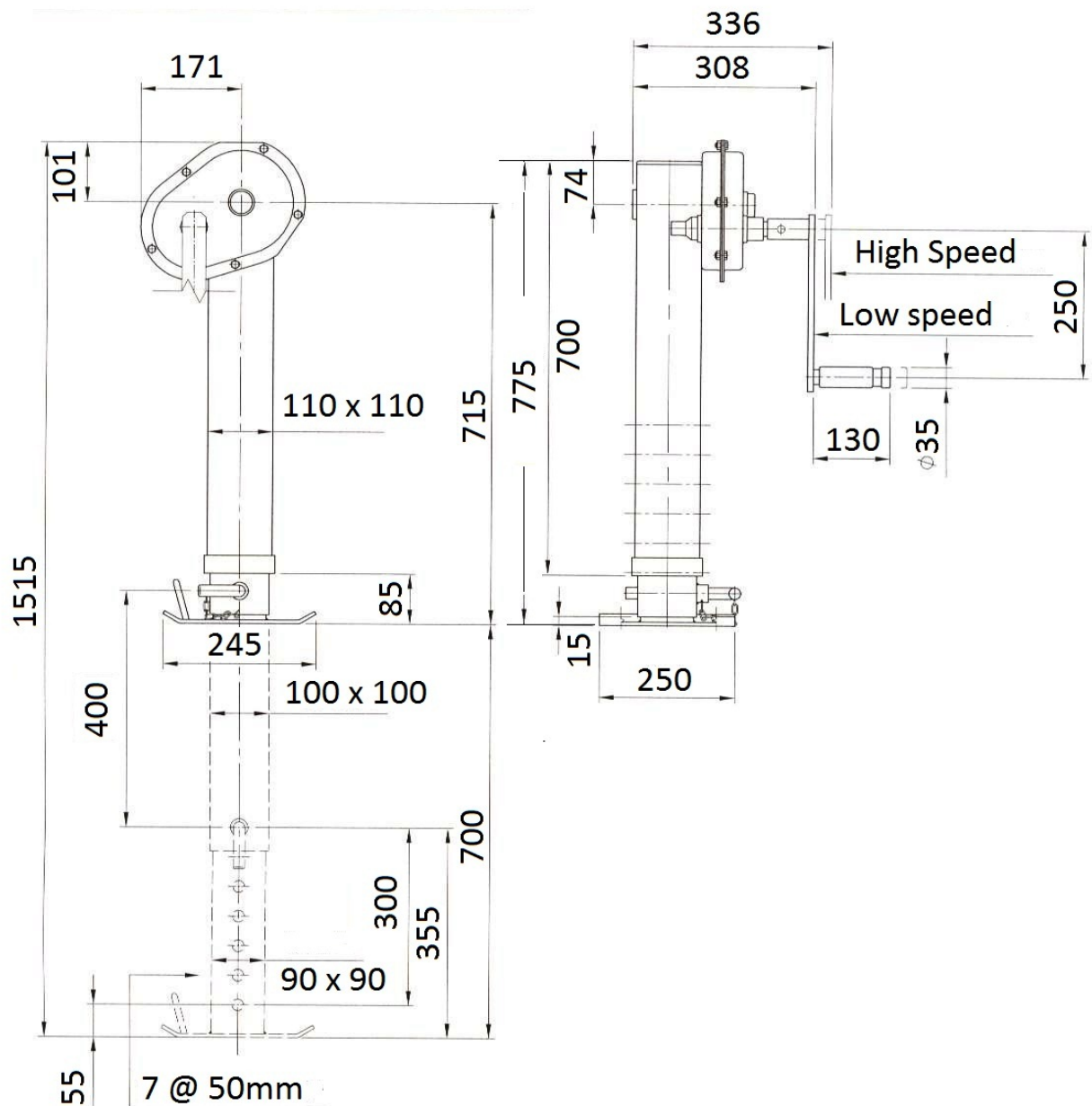
JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01366 SIMOL SIDE WIND DROP LEG 2 SPEED 7500kg



The AL01366 (KRA750) is a heavy duty 7500kg rated jack featuring a 2 speed gearbox and galvanized drop leg for increased operating speed and reduced effort.

This jack is suitable for use on larger agricultural or industrial equipment.

Part Number	AL01366
Model	KRA 750
Static load rating	7500 Kg
Screw stroke. + _ 10mm	380mm + 300mm drop
Travel per handle turn low speed	1mm
Travel per handle turn high speed	10.6mm
Tube size diameter x shape	110mm square
Unit weight	42.5 Kg
Finish	prime paint / galvanized
Mount	none
Closed height	775 mm
Base plate	250mm x 250mm
Drop section	300mm



AL01367 SIMOL SIDE WIND 2 SPEED 10000 kg

JOCKEY WHEELS AND PARKING JACKS / PARKING JACKS / AL01367 SIMOL SIDE WIND 2 SPEED 10000 kg

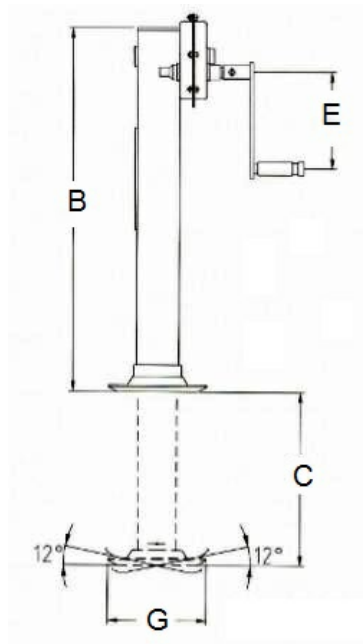


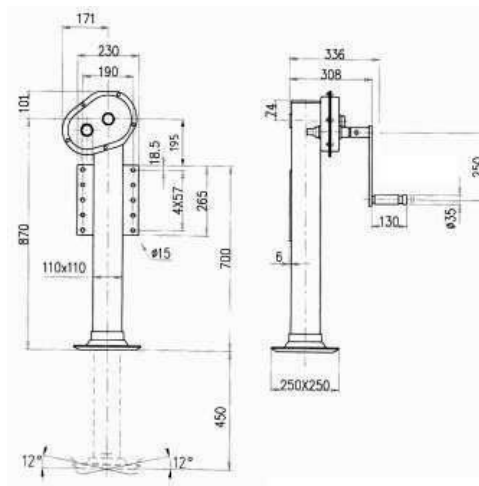
The AL01367 is a heavy duty 10,000 kg rated landing leg. Made in Italy by SIMOL it is suited to large agricultural or industrial trailers.

Features include;

- 2 speed gearbox.
- Self levelling base plate
- Mounting plate

Part Number	AL01367
Model	KRA1200FL
Static load rating	10,000 Kg
Screw stroke. +_ 10mm	450 mm
Tube size diameter x shape	110mm square
Unit weight	45 Kg
Finish	prime paint
Mount	plate
B	950mm
C	450mm
E	250mm
G	250mm SQ





HYDRAULIC PARKING JACKS

JOCKEY WHEELS AND PARKING JACKS / HYDRAULIC PARKING JACKS



Aline Trading P/L present a range of quality Italian made SIMOL hydraulic parking jacks suitable for larger agricultural machinery and industrial equipment.

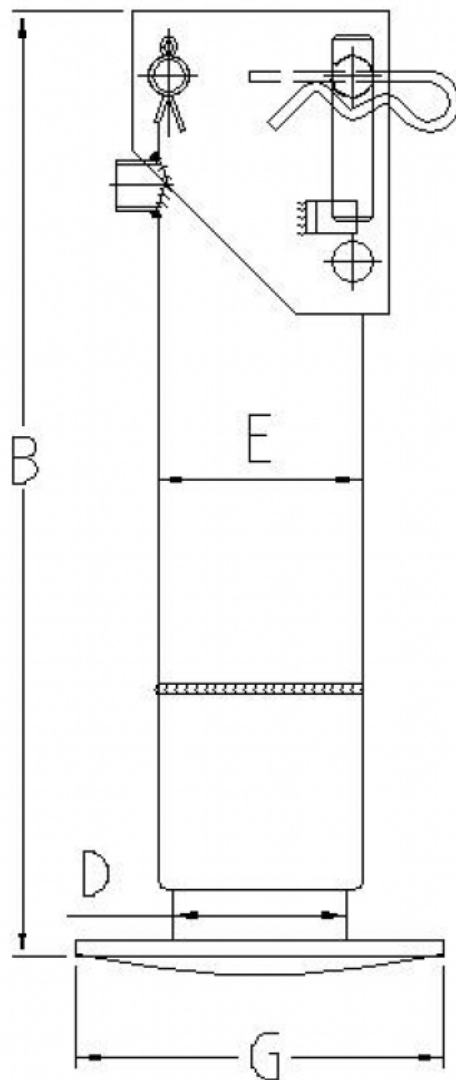
AL01104 HYDRAULIC JACK

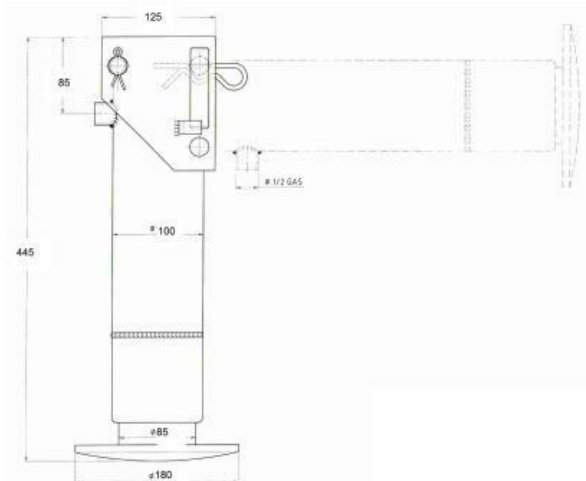
JOCKEY WHEELS AND PARKING JACKS / HYDRAULIC PARKING JACKS / AL01104 HYDRAULIC JACK



The AL01104 is a compact single acting hydraulic jack with spring return. Its compact size and swing up mounting bracket make it ideal for applications with limited space.

Part Number	AL01104
Model	DH713
Static load rating @ 100 bar	5670Kg
Static load rating @ 150 bar	8205 Kg
Max pressure	210 bar
Working pressure	150 bar
Oil capacity	3.9 lt
Stroke. +_ 10mm	250mm
Tube size diameter x shape	100mm round
Unit weight	17.4
Finish	prime paint
Mount	top fold up
B	445mm
D	85mm
E	100mm
G	180mm





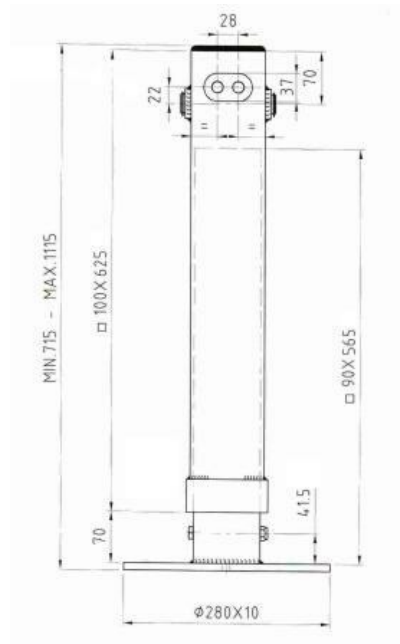
AL01313 HYDRAULIC JACK

JOCKEY WHEELS AND PARKING JACKS / HYDRAULIC PARKING JACKS / AL01313 HYDRAULIC JACK



The AL01313 is a double acting hydraulic jack with block valve and is suitable for a wide range of agricultural and industrial applications.

Part Number	AL01313
Model	H1040
Static load rating @ 100 bar	2800 Kg
Static load rating @ 150 bar	4200 Kg
Static load rating @ 200 bar	5600 Kg
Max working pressure	250 bar
Oil capacity	1.2 lt
Stroke. +_ 10mm	400mm
Tube size diameter x shape	100mm square
Unit weight	30 Kg
Finish	prime paint
Mount	none
B	640mm
D = o/a closed height	730mm
G = base plate diameter	280mm



AL01314 HYDRAULIC JACK

JOCKEY WHEELS AND PARKING JACKS / HYDRAULIC PARKING JACKS / AL01314 HYDRAULIC JACK



The AL01314 is a double acting hydraulic jack with block valve and is suitable for a wide range of agricultural and industrial applications.

Part Number	AL01314
Model	H1050
Static load rating @ 100 bar	2800Kg
Static load rating @ 150 bar	4200 Kg
Static load rating @ 200 bar	5600 Kg
Max working pressure	250 bar
Stroke. + _ 10mm	500mm
Oil capacity	1.45 lt
Tube size diameter x shape	100mm square
Unit weight	32.5
Finish	prime paint
Mount	none



AL01315 HYDRAULIC JACK

JOCKEY WHEELS AND PARKING JACKS / HYDRAULIC PARKING JACKS / AL01315 HYDRAULIC JACK



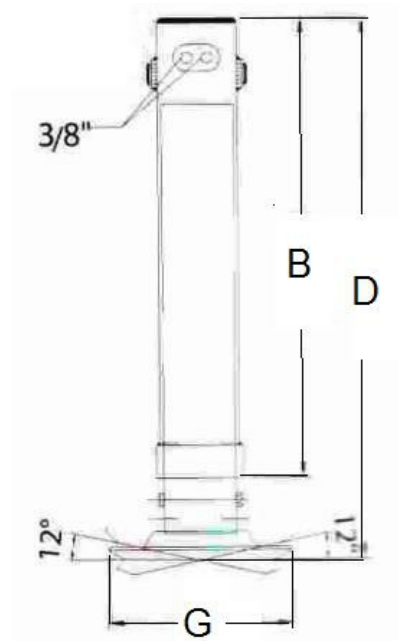
The AL01315 is a double acting hydraulic jack with block valve and is suitable for a wide range of agricultural and industrial applications.

Other features include;

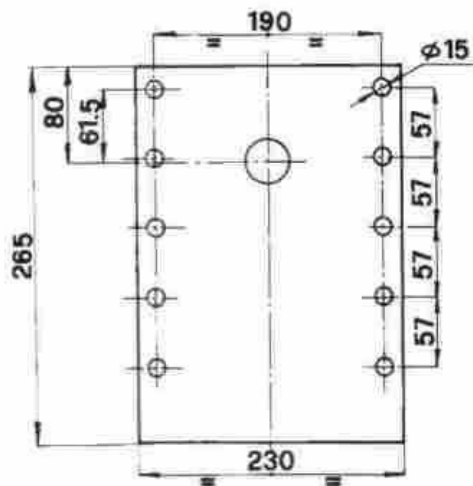
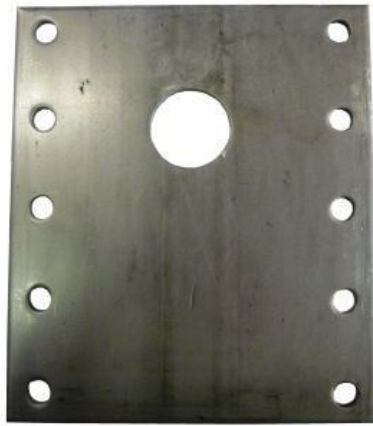
: Rubber cushion foot plate

: Mounting plate, supplied loose for optimal positioning.

Part Number	AL01315
Model	H1140PF1
Static load rating @ 100 bar / 150 bar	3800Kg / 5700 Kg
Static load rating @ 150 bar	5700 Kg
Static load rating @ 200 bar	7600 Kg
Max working pressure	250 bar
Oil capacity	1.55 lt
Stroke. +_ 10mm	400mm
Tube size diameter x shape	110mm square
Unit weight	39 Kg
Finish	prime paint
Mount	loose plate 10 hole
B	650mm
D = o/a closed height	760mm
E = base plate	250mm SQ



Mounting plate



12V ELECTRIC PARKING JACKS

JOCKEY WHEELS AND PARKING JACKS / 12V ELECTRIC PARKING JACKS



Aline Trading offer a selection of two 12V electric parking jacks designed for use on caravans, trailers and other applications.

AL03317 = 1350 Kg standard unit.

AL03316 = 3400 Kg unit with drop leg.

See individual pages for specific information.





ELECTRIC PARK JACK 1350 Kg

JOCKEY WHEELS AND PARKING JACKS / 12V ELECTRIC PARKING JACKS / ELECTRIC PARK JACK 1350 Kg



Electric Park Jack 1350 Kg.

Part No : AL03317

Ideal for Caravan's, Trailers, R.V's etc.

Features:

Capacity: 1350 Kg

Closed length: 670mm

Travel: 470mm

Power supply: 12V DC 30 amp.

Three position switch & night light.

Removable foot pad.

Emergency handle for manual operation.



Installation Instructions.

Important: Read all the following steps prior to commencing installation.

Block the trailer wheels from moving and support the draw bar securely. Select a suitable location on the draw bar clear of any equipment. It will be necessary to provide a suitable mounting plate with a 58mm hole in it to take the parking leg. This plate should be securely welded to the draw bar to provide a strong rigid member for the parking leg. The electric parking leg is INTERNALLY grounded. Therefore for good electrical contact clean well, both the underside on the mounting plate of the parking leg and the face of the plate on the trailer draw bar where the parking leg contacts. Align the motor head so that the motor housing is facing the front of the trailer draw bar. Drill the required holes and bolt securely. Grade 8.8 bolts are recommended for this connection. Install a 30 amp fuse holder in the power wire either at the motor head or closer to the

power source if desired. Connect the grey positive wire from the parking leg motor to the power supply from the positive side of the battery.

Warning: Do not use wire smaller than #10 gauge for any extra wiring that may be required.

Operation.

Activate the parking leg by using the toggle switch located under the housing. Extend the leg by holding the switch in the extend position.

Caution: Release the toggle switch when the motor switches off to prevent damage to the motor. Wait 15seconds for to reset before operating the switch again. Retract the parking leg by holding the toggle switch in the retract position. As the leg approaches the fully retracted position it will slow down and then stall. The toggle switch should be released at the first indication of slowing down. The leg is now fully retracted. **Note:** If the motor should stall with the leg in the fully retracted position, and the toggle switch is not released the motor will automatically switch off.

Manual Operation:

Disconnect the 30 amp fuse. Remove plug cap in the access hole (located top centre of the housing cover) Insert the crank handle in the access hole over the drive spindle tang. Rotate the crank handle clockwise to retract or counter clockwise to extend. When finished remove the crank handle and replace the plug and replace the fuse.

Lubrication:

The leg is lubricated before leaving the factory. Under normal conditions lubrication will be required after 12 months. **Warning:** The front of the trailer should be supported on blocks or the trailer connected to the tow ball before proceeding.

The leg should be fully extended. Using the toggle switch, extend the leg until the foot pad is 50mm from the ground. Disconnect the 30 amp fuse. Loosen the four #8 Phillips head screws and remove the gear housing cover. If required, repack the exposed gears with common lithium based machine grease. Reassemble the gear housing cover. Using an allen key, remove the four socket head cap screws holding the motor head to the outer tube. Lift the motor head assembly away from the outer tube. Clean and regrease the jack screw and nut with common lithium based machine grease.

10. Re-assemble motor head and screw assembly onto outer tube. Replace the 30 amp fuse.

ELECTRIC PARK JACK 3400 Kg

JOCKEY WHEELS AND PARKING JACKS / 12V ELECTRIC PARKING JACKS / ELECTRIC PARK JACK 3400 Kg



Electric Park Jack 3400 Kg.

Part No : AL03316

Ideal for Caravan's, Trailers, R.V's, leveling 5th wheeler's etc.

Features:

Capacity: 3400 Kg

Closed length: 930mm

Extended length : 1879mm

Powered stroke : 530mm

Manual extension (Drop Leg) : 420mm

Power supply: 12V DC 30 amp.

Three position switch.

Removable foot pad.

Built in overload clutch.

Mounts for welding to trailer.



Instructions

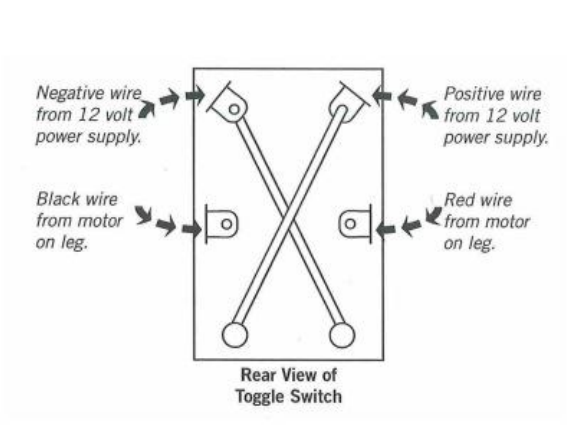
Important: read all of the following steps before beginning installation.

Set the trailer level and determine the desired position for each of the parking legs / levellers. The levellers should be bolted to a substantial part of the trailer frame. Welding is **NOT** recommended. The top and bottom clamping hangers for each leg must be mounted against steel members to ensure secure mounting. Position each leg so that the uppermost clevis pin sits just below the trailer. This is to allow easy adjustment of the foot pad. Mark the exact position for the mounting of each set of hangers, making sure that the legs are at the same height and that they are straight vertically. **NOTE:** The stop plates must be positioned under the clamping hangers. Weld the two mount hangers in position. Fit the leg into the mount hangers and retain with a bolt and nut (not supplied) through the outer holes in the mount hangers. Ensure the legs are firmly attached.

Wiring: Observe the drawing below of the toggle switch and wire as shown.

Positive wire from 12 volt DC power supply (battery) connects to top RH terminal on switch. A 30 amp fuse should be fitted in this line. Negative wire from 12 volt DC power supply (battery) connects to top LH terminal on switch. Red wire from motor on leg connects to lower RH terminal on switch. Black wire from motor on leg connects to lower LH terminal on switch.

Note: To change the orientation of the switch in relation to the direction of travel of the leg swap the red and black wires over the switch.



ADJUSTABLE LEGS

JOCKEY WHEELS AND PARKING JACKS / ADJUSTABLE LEGS



Adjustable support leg, Weld- On.
Ideal for camp trailers, caravanâ€™s, catering / service trailers.

Part No	Closed Length mm	Lift mm	Weight Kg
AL03516	400	120	4.7



Optional Handle.
Part No AL03431



CORNER STANDS

JOCKEY WHEELS AND PARKING JACKS / CORNER STANDS



Aline trading P/L
Zinc plated, Scissor action corner stand with pivoting foot. Bolts to the trailer chassis (Can be welded).

Maximum extended height at right angles is 650 mm.

Corner stands and handles are sold separately.

Note: These corner stands are designed to stabilise the trailer only. They are not to be used to lift the trailer when changing tyres.

Part No	Description
AL03430	Stand
AL03431	Handle



ACCESSORIES AND PARTS

JOCKEY WHEELS AND PARKING JACKS / ACCESSORIES AND PARTS



Aline Trading P/L presents a range of accessories to assist with the mounting of our jacks and jockey wheels.

A comprehensive range of spare parts for our jacks and jockey wheels is also available. Please contact us with your requirements.

TUBE MOUNT SET HEAVY DUTY

JOCKEY WHEELS AND PARKING JACKS / ACCESSORIES AND PARTS / TUBE MOUNT SET HEAVY DUTY



The AL01085 is a heavy duty, 3 piece, weld on tube mount set designed for use on our DT and DG range of jacks.

Part Number	AL01085
Model	DG1001300Z
Outer tube	76mm diameter
Inner tube	63mm diameter
Pin	16mm diameter
Finish	zinc plated
Unit weight	1.36 Kg





SWIVEL MOUNT HEAVY DUTY

JOCKEY WHEELS AND PARKING JACKS / ACCESSORIES AND PARTS / SWIVEL MOUNT HEAVY DUTY



The AL01101 is a heavy duty, yet compact swivel mount designed for use with or DG and K series of jacks up to 7.5t

Part Number	AL01101
Model	DG706BKT HD
Diameter	200mm
Material	12mm plate
Finish	prime paint
Greasable	yes
Spring loaded lock pin	yes
Weight	8 Kg



JOCKEY WHEEL CLAMP - JW1

JOCKEY WHEELS AND PARKING JACKS / ACCESSORIES AND PARTS / JOCKEY WHEEL CLAMP - JW1



Part Number AL01355

This clamp suits the basic JW1 jockey wheel (AL01354) and can be used as a spare part or for when a second mount is required to store the jockey wheel.

TUBE MOUNT INNER - SIMOL JACKS

JOCKEY WHEELS AND PARKING JACKS / ACCESSORIES AND PARTS / TUBE MOUNT INNER - SIMOL JACKS



Weld on tube mount suitable for our SIMOL brand LT, ST & DT tube mount jacks.

Part Number	AL01450
Finish	Unpainted
Diameter	51mm
Weight	.2 Kg
Length	55mm
Holes	2 - suits 16mm pin

TUBE MOUNT INNER - ALINE JACKS

JOCKEY WHEELS AND PARKING JACKS / ACCESSORIES AND PARTS / TUBE MOUNT INNER - ALINE JACKS



Weld on tube mount suitable for our ALINE brand LT, ST & DT tube mount jacks.

Part Number	AL01158
Finish	Zinc Plated.
Diameter	51mm
Weight	.2 Kg
Length	57mm
Holes	4 - Suits 16mm pin.

TUBE MOUNTS OUTER - ALINE JACKS

JOCKEY WHEELS AND PARKING JACKS / ACCESSORIES AND PARTS / TUBE MOUNTS OUTER - ALINE JACKS



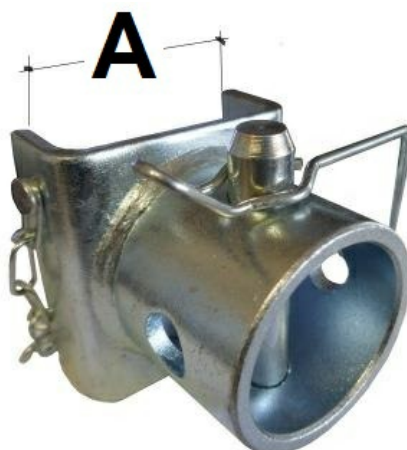
Aline Trading have 2 versions of weld on outer tube mounts available that suit 51 mm diameter inner tubes.

Both versions are supplied with a locking pin and retaining chain.

Used when a mount must be placed in a non-standard location. (Welding must be carried out by a suitably qualified person)

Part Number	AL01148
Fits Inner Mount	AL01158 - 51 mm
Finish	Zinc Plated
Dimension A	57 mm

Part Number	AL01159
Fits Inner Mount	AL01158 - 51 mm
Finish	Zinc Plated
Dimension A	66 mm



GEARBOXES

GEARBOXES



The comprehensive range of gearboxes presented by Aline Trading P/L is suitable for use in wide range agricultural and industrial applications.

Quality materials and production procedures allow us to present a reliable, long lasting product while maintaining competitive prices. Our range of gearboxes is divided into the following categories:

1. **General Purpose boxes.** Standard range of "T" or "L" configuration gearboxes suitable for a wide range of applications.
 2. **Auger Boxes.** Gearboxes especially designed for use on grain augers
 3. **Slasher / Mower boxes.** Gearboxes designed for Rotary Cutters (Slashers / Mowers.)
 4. **Worm wheel speed reduction boxes.** Gearboxes designed to reduce input shaft speed on equipment like conveyors, mixers etc.
 5. **Speed Multiplier gearboxes.** Gearboxes for increasing tractor PTO speed to run equipment like pumps, generators etc.
 6. **PTO Speed Reducer/Increaser.** Specially designed gearbox for reducing 1000 rpm PTO to 540 rpm. Will also increase 540 rpm to 1000 rpm. Maintains original rotation of PTO output.
- Please contact us today with your enquiry.

Notes:

1. **GEARBOXES ARE SHIPPED WITHOUT OIL.** Please fill before use.
 2. Please refer to the safety and technical section for advice on appropriate gearbox selection.
- OEM enquiries welcome.

SAFETY AND TECHNICAL

GEARBOXES / SAFETY AND TECHNICAL



Gearbox.

The gearbox is an important component in the drive line of many agricultural and industrial machines.

The most common use is to take rotary motion from a drive source such as a tractor PTO shaft or electric motor and apply this rotary motion to assist with the function of the machine.

Methods of application may include:

- Reverse direction of rotation
- Transmission of drive rotation at an angle.
- Changing speed or torque properties of the input drive.

Safety.

When designing, modifying or repairing any machine SAFETY must be taken into account. Rotating shafts and driveline components can be hazardous. Appropriate guarding must be fitted and maintained at all times. Appropriate safety warning signs and instructions should also be supplied with the machine.

To assist with the attachment of guarding the general range of Aline Trading P/L gearboxes are supplied with threaded holes suitable for mounting safety guards. Aline Trading P/L also offer a selection of plastic bucket guards (sold separately) to further shield the drive line.

If you are unsure of the necessary safety requirements for your machine please seek further advice from a qualified mechanical design engineer or OH&S approved authority before proceeding with construction or use of the machine.

GENERAL PURPOSE GEARBOXES

GEARBOXES / GENERAL PURPOSE GEARBOXES



The range of general purpose gearboxes presented by Aline trading P/L are designed as a multi use generic gearbox making them suitable for a very wide range of applications in the agricultural and industrial markets.

The boxes are presented with a range of ratios and shaft configurations suitable for most traditional uses.

Please refer to the specification charts provided with each model for more detailed information.

A10

GEARBOXES / GENERAL PURPOSE GEARBOXES / A10



A10

The A10 gearbox is available with various gear ratios and shaft layouts to suit a wide range of applications, including, auger drives, spreaders, tarp winders and other agricultural or industrial applications.

A coated two piece alloy housing, gives strength and corrosion resistance while keeping weight to a minimum.

(Average dry weight = 5Kg.)

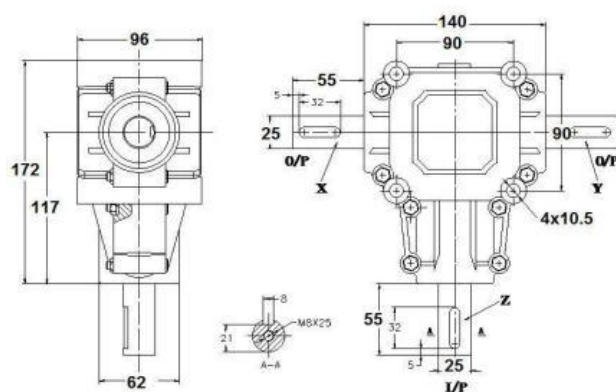
Shaft size = 25mm with keyway. An adaptor (AL01667) is available to convert to a 13/8Z6 splined shaft if required. See details below.

HP ratings vary with the gear ratio chosen and are based on an input speed of 540 rpm.

Input shaft = Z

Oil capacity = .35lt (aprox) - SAE 90EP

Part No	Model	Ratio	Input				Output					
			R.P.M	HP	Kw	NM	R.P.M	NM	Shafts			Rotation
									X	Y	Z	
AL01910	A10005A	1:1	540	15	11	195	540	195	X	-	X	A
			1000	23	17	162	1000	162				
AL01912	A10013A	1:1	540	15	11	195	540	195	-	X	X	B
			1000	23	17	162	1000	162				
AL01911	A10006A	1:1	540	15	11	195	540	195	X	X	X	C
			1000	23	17	162	1000	162				
AL01909	A10004A	1.9:1	540	9	7	117	284	222	-	X	X	A
			1000	14	10	98	526	187				
AL01914	A10019A	1.9:1	540	9	7	117	284	222	-	X	X	B
			1000	14	10	98	526	187				
AL01915	A10020A	1.9:1	540	9	7	117	284	222	X	X	X	C
			1000	14	10	98	526	187				
AL01919	A10111A	3.3:1	540	3	2.2	39	164	129	X	X	X	C
			1000	4.5	3.3	31.5	303	104				
AL01920	A10333A	3.3:1	540	3	2.2	39	164	129	-	X	X	A
			1000	4.5	3.3	31.5	303	104				
AL01918	A10032A	1:1.9	540	14	10	182	1026	96	X	X	X	C
			1000	22	16	155	1900	81				

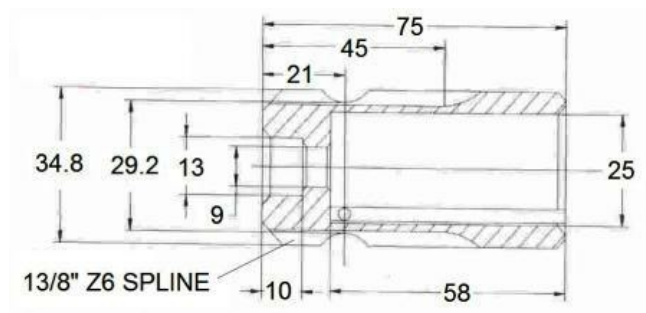


13/8 Z6 (540 PTO) shafts.

An adaptor sleeve is available to convert the 25mm plain shafts on the A10 gearboxes to suit 13/8 Z6 spline. This sleeve is specially designed for the boxes and is supplied with a stepped key.

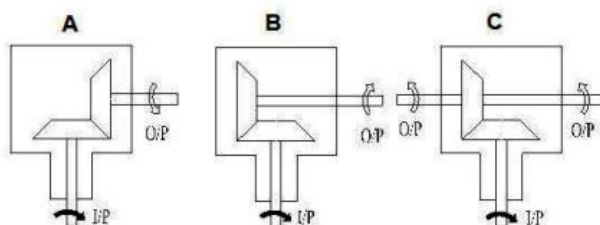
Part No AL01667 (see below)





Shaft Rotation.

The drawing below explains the rotation direction for each box.



A3921

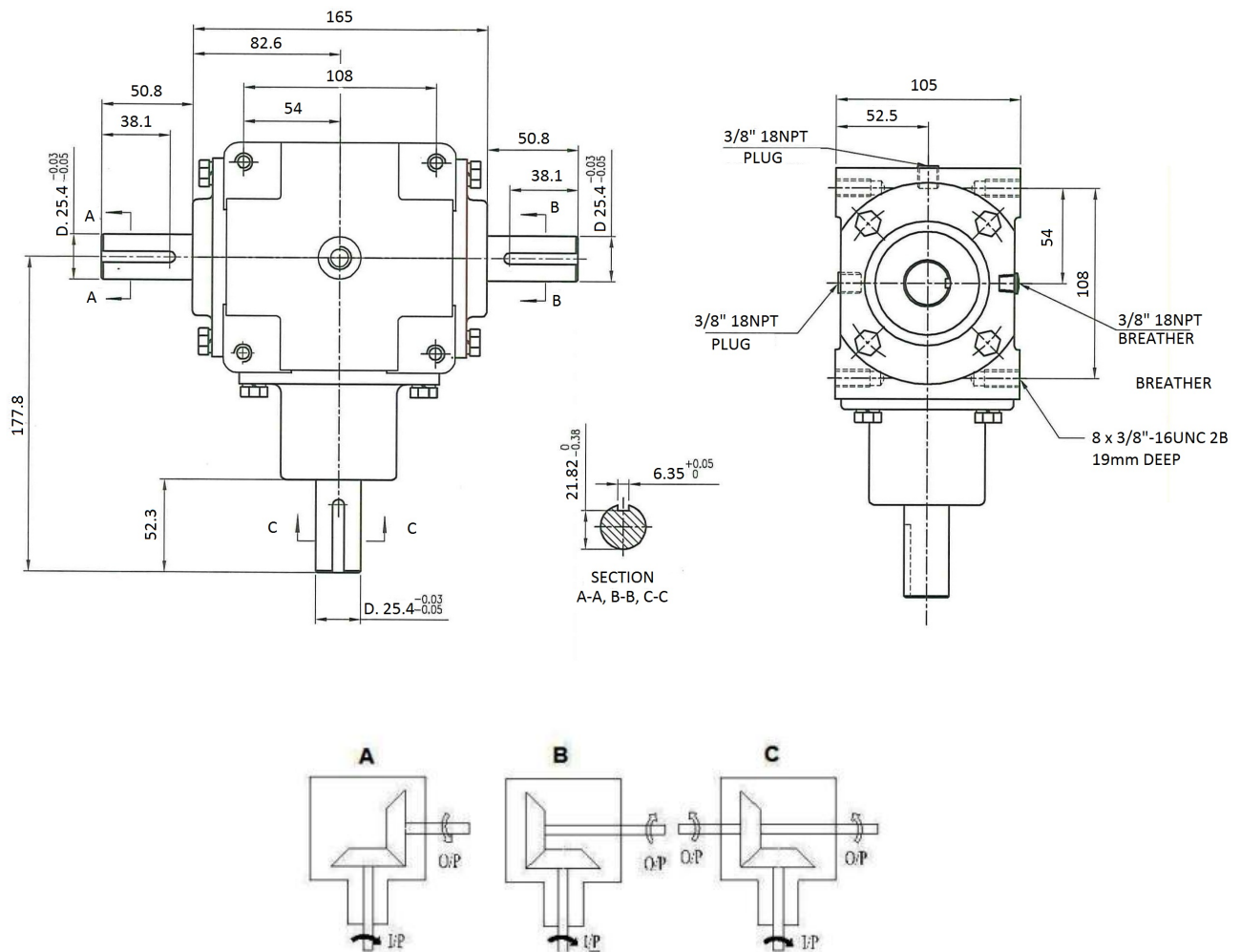
GEARBOXES / GENERAL PURPOSE GEARBOXES / A3921



The A3921 gearbox features a compact size and strong cast iron housing making it an ideal choice for use on a wide range of equipment.

Part No	Model	Input					Output		
		Ratio	R.P.M	HP	KW	NM	NM	RPM	Rotation
AL01717	A3921	1:1	540	20	15	265	265	540	C
			1000	30	22.5	215	215	1000	
Unit weight			10.6 kg						
Shafts			3 x 1" diameter with 1/4" keyways						
Mounting holes			4 on 4.25" SQ pattern.						
Lubricant			SAE 90 gear oil. 4lt aprox.						





A8

GEARBOXES / GENERAL PURPOSE GEARBOXES / A8



A8

The A8 gearbox is available with various gear ratios and shaft layouts to suit a wide range of applications, including, auger drives, spreaders, pump drives & other Agricultural and Industrial applications.

A sturdy SG iron housing, combined with high quality shaft and gear materials make the A8 a reliable performer.

Average dry weight = 14Kg.

Shaft size = 30mm with keyway or splined 13/8Z6. Depending on the model.

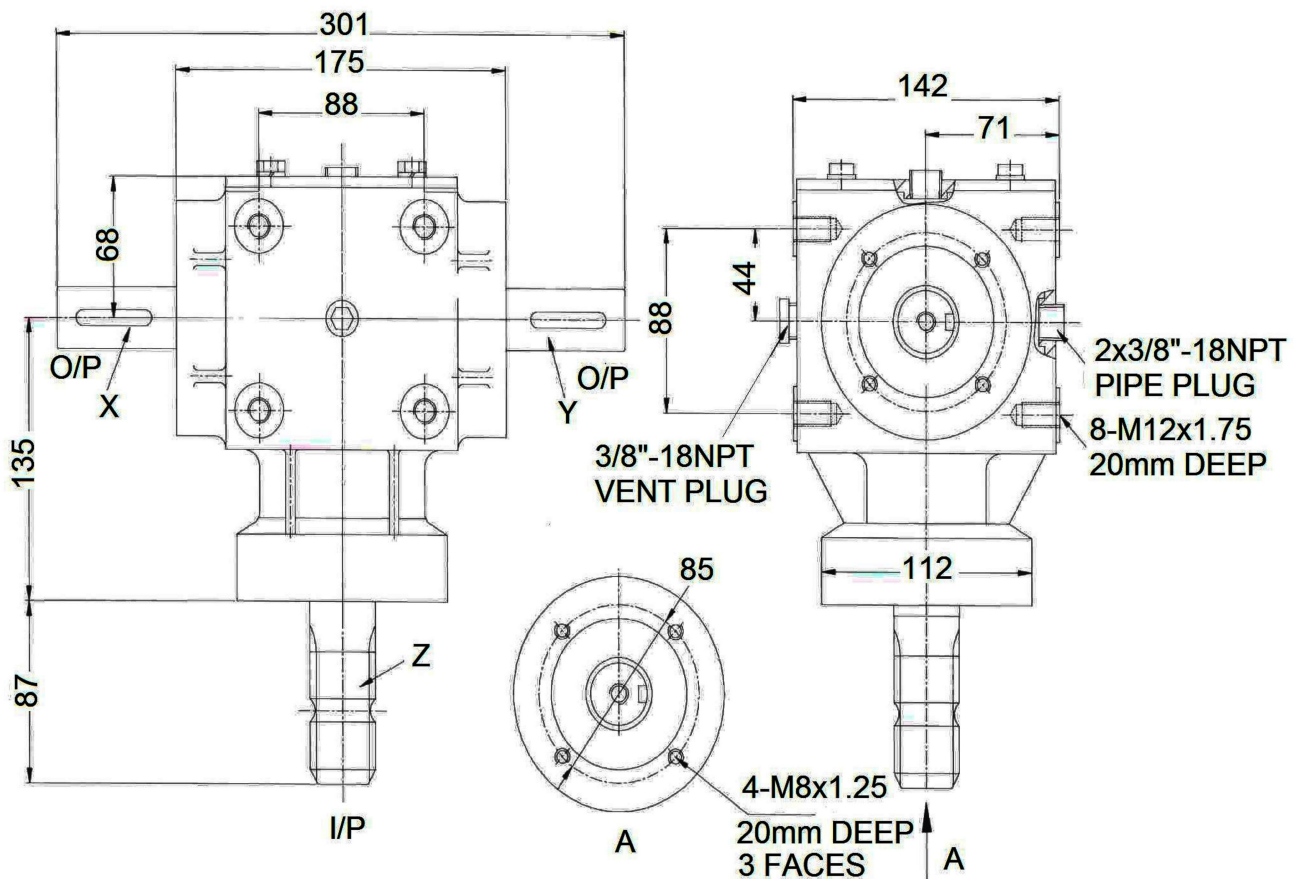
HP ratings vary with the gear ratio chosen and are based on an input speed of 540 rpm.

INPUT SHAFT = Z

Oil capacity = .8 lt (aprox) - SAE 90 EP gear oil.

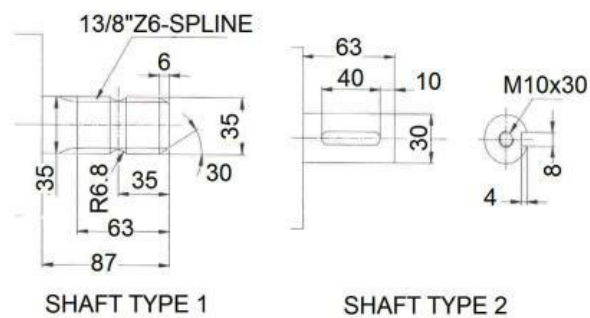
Part No	Model	Ratio	Input				Output					
			R.P.M	HP	KW	NM	R.P.M	NM	Shafts			Rotation
									X	Y	Z	
AL01950	A8G918A	1:2	540	22	16.2	281	1080	140.5	2	2	1	C
			1000	33.7	25	238	2000	119				
AL01933	A8A007A	1:1	540	36	26.5	468	540	468	1	1	1	C
			1000	54	40	382	1000	382				
AL01938	A8B016A	1:1	540	36	26.5	468	540	468	2	2	2	C
			1000	54	40	382	1000	382				
AL01947	A8G032A	1:1	540	36	26.5	468	540	468	2	2	1	C
			1000	54	40	382	1000	382				
AL01949	A8G230A	1:1	540	36	26.5	468	540	468	-	2	1	A
			1000	54	40	382	1000	382				
AL01936	A8B010A	1.4:1	540	25	18.4	325	386	390	1	1	1	C
			1000	37.8	28	267	714	373				
AL01945	A8G010A	1.4:1	540	25	18.4	325	386	390	2	2	1	C
			1000	37.8	28	267	714	373				
AL01934	A8A013A	2:1	540	17	12.5	221	270	442	1	1	1	C
			1000	24.5	18.5	176	500	353				
AL01941	A8B021A	2:1	540	17	12.5	221	270	442	2	2	2	C
			1000	24.5	18.5	176	500	353				
AL01948	A8G037A	2:1	540	17	12.5	221	270	442	2	2	1	C
			1000	24.5	18.5	176	500	353				
AL01942	A8B045A	2.9:1	540	6	4	71	186	205	2	2	2	C
			1000	9	7	66	345	193				





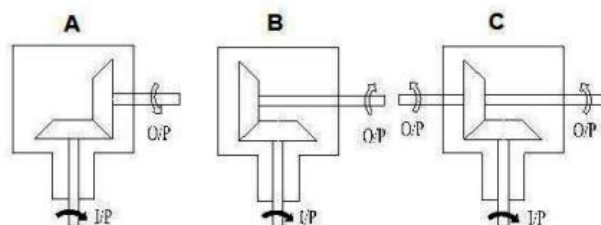
Shaft type.

The drawing below details the 2 shaft options available.



Shaft Rotation.

The drawing below explains the rotation direction for each box.



A9

GEARBOXES / GENERAL PURPOSE GEARBOXES / A9



A9
25-102 HP.

The A9 gearbox is available with various gear ratios suitable for a wide range of applications, including, auger drives, field bins, mowers, pump drives and other Agricultural or Industrial applications.

A sturdy SG iron housing, combined with high quality shaft and gear materials make the A9 a reliable performer.

Average dry weight = 22Kg.

Shaft size = 1 3/8" Z6 spline. (540 PTO)

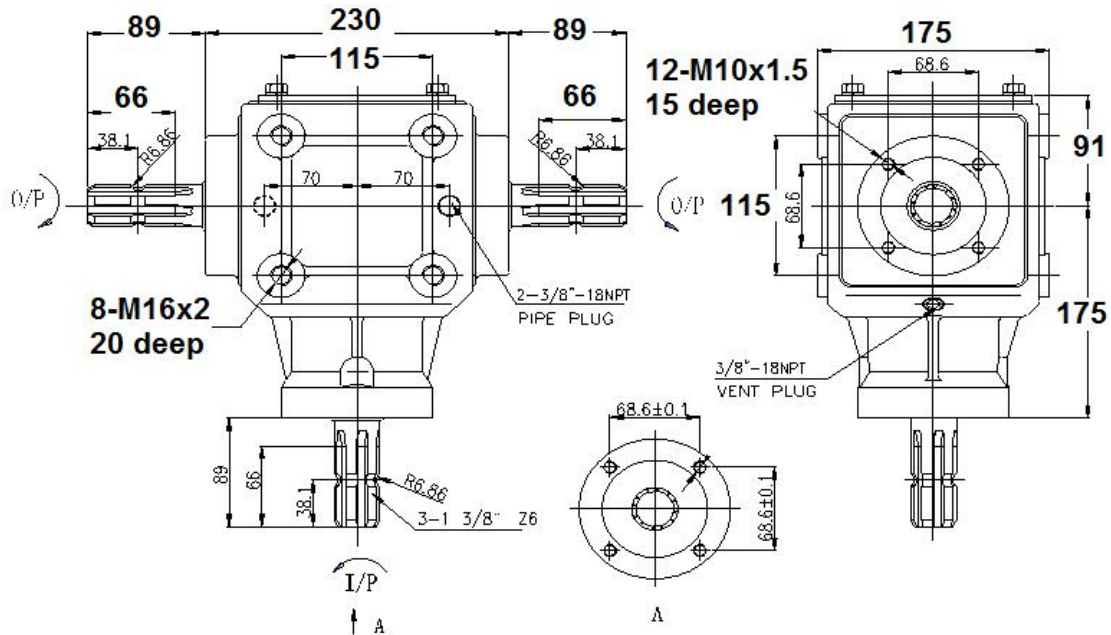
Input shaft = Z

HP ratings vary with the gear ratio and input speed. (540 or 1000 rpm.)

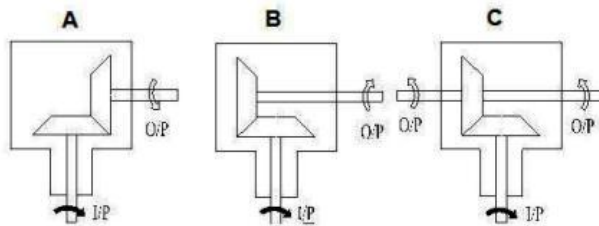
Oil capacity = 1.2 lt (aprox) - SAE 90 EP gear oil.

Part No	Model	Ratio	INPUT				OUTPUT		
			R.P.M	HP	KW	N.M	N.M	R.P.M	Rotation
AL01955	A9023	1:1.92	540	40	29	520	272	1037	C
			1000	62	46	436	228	1920	
AL01953	A9014	1:1.46	540	50	37	651	446	788	C
			1000	77	57	541	371	1460	
AL01952	A09010	1:1	540	66	49	859	859	540	C
			1000	102	75	717	717	1000	
AL01956	A9191	1.92:1	540	25	18	325	621	281	C
			1000	38	28	267	510	521	





The standard A11 boxes are supplied with a C rotation.



A21

GEARBOXES / GENERAL PURPOSE GEARBOXES / A21



The A21 gearbox is available with various gear ratios suitable for a wide range of applications, including, field bins, mowers, pump drives and other Agricultural or Industrial applications.

A sturdy SG iron housing, combined with high quality shaft and gear materials make the A21 a reliable performer.

Average dry weight = 33Kg.

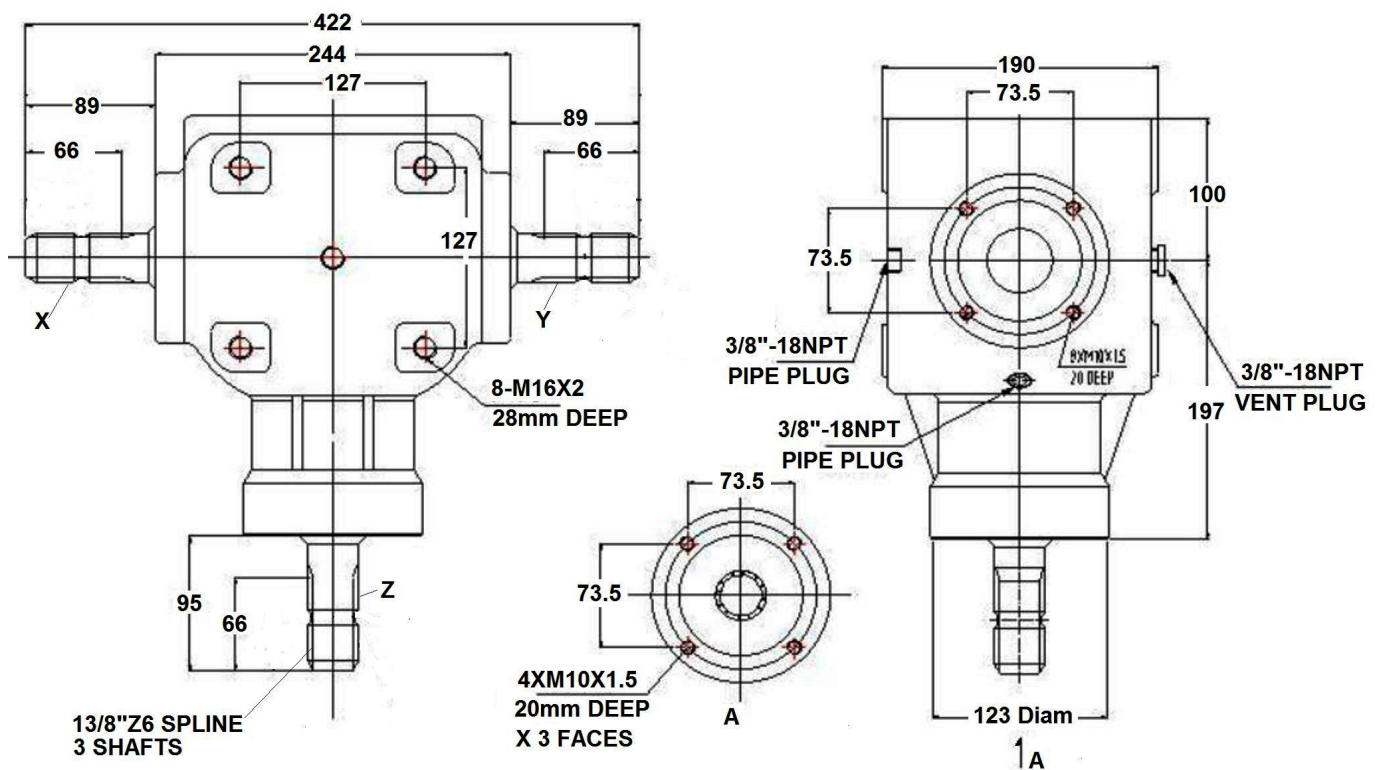
Shaft size = 1 3/8Z6 spline. (540 PTO)

Input shaft = Z

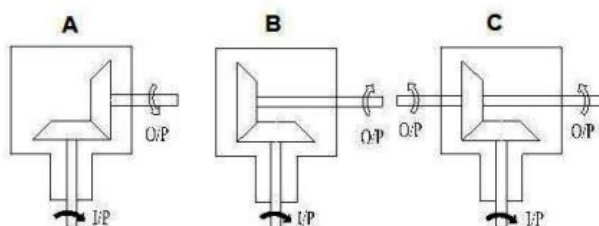
HP ratings vary with gear ratio and input speed. (540 or 1000 rpm.)

Oil capacity = 2.3lt (approx) - SAE 90 EP gear oil.

Part No	Model	Ratio	Input				Output		
			R.P.M	HP	KW	NM	R.P.M	NM	Rotation
AL01929	A21100	1:1	540	110	81	1431	540	1431	C
			1000	170	125	1194	1000	1194	
AL01752	A21192I	1:1.92	540	70	51	911	1037	474	C
			1000	108	79	759	1920	395	
AL01758	A21192D	1.92:1	540	45	33	585	281	1124	C
			1000	68	50	478	521	917	



The standard A21 gearboxes are supplied with a C rotation.





A21-H (High Speed) gearboxes are designed for applications requiring higher operating speeds than those offered by our standard range of agricultural gearboxes.

The gearboxes are made with quality spiral bevel gears with helical teeth. The helical design produces less vibration and noise than conventional straight cut mitre gears making them suitable for higher operating speeds & H.P.

(Average dry weight = 33Kg.)

Shaft sizes = 1 1/2" Plain with 1/2" keyway or 13/4 Z20 spline.

Input shaft = Z

Oil capacity = 2.3lt (approx.) - SAE 90 EP gear oil.

Note: Rotation must be as specified on the drawings.

AL01923



Part No AL01923

Ratio: 1:1

Input rotation = Anti Clockwise. Suitable for Agricultural PTO drive shafts.

A High Speed gearbox designed for applications requiring higher operating speeds than those offered by our standard range of agricultural gearboxes. The gearbox is made with quality spiral bevel gears with helical teeth. The helical design produces less vibration and noise than conventional straight cut mitre gears making them suitable for higher operating speeds.

(Average dry weight = 33Kg.)

Shaft size = 1 1/2" Z20 spline.

Oil capacity = 2.3lt (approx.) - SAE 90 EP gear oil.

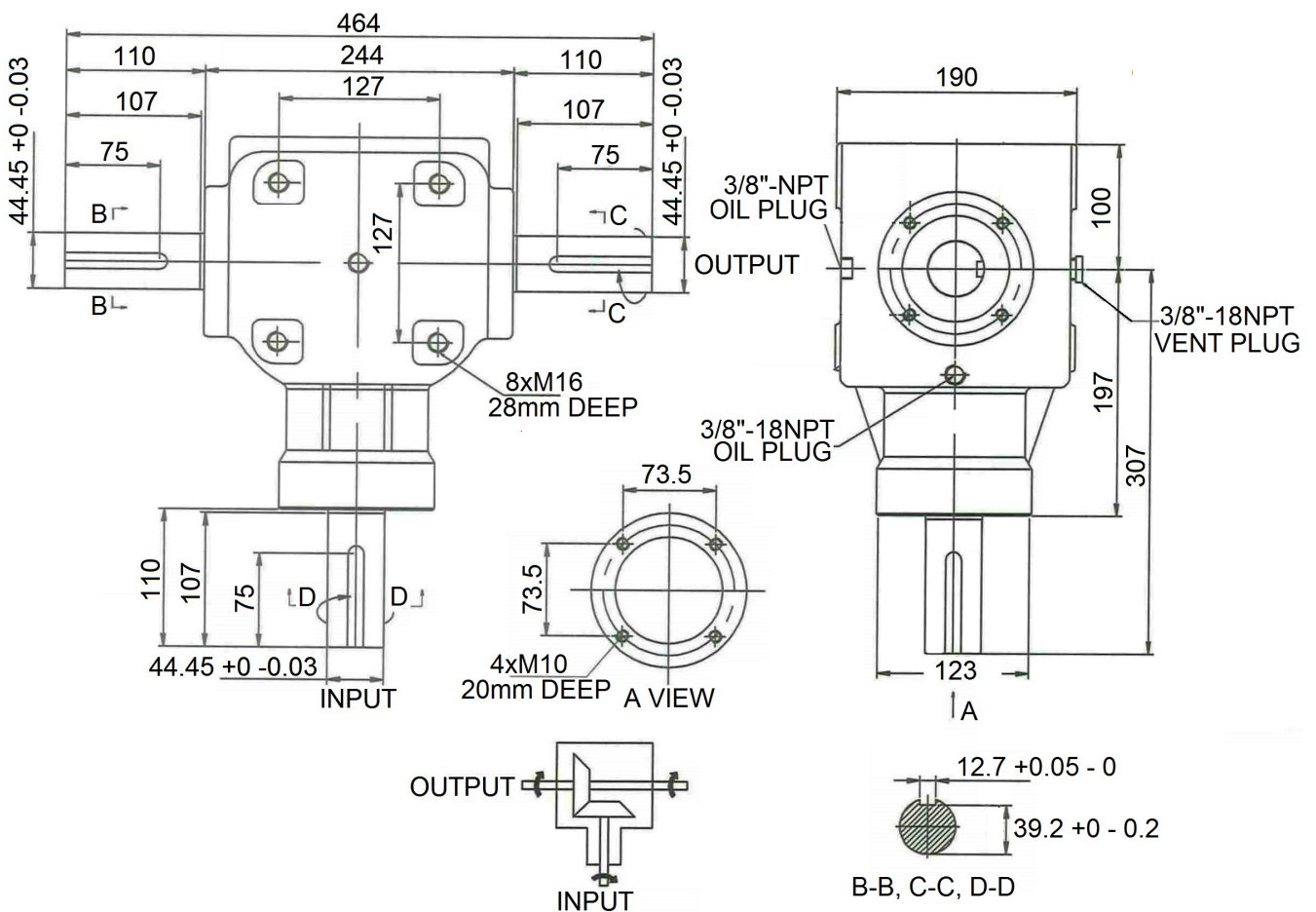
Notes:

: Rotation **MUST** be as specified on the drawings.

: Ratings given are approximate. Prototype testing may be required for specific applications.

Part No	Model	Ratio	Input				Output
			R.P.M	HP	KW	NM	NM
AL01923	A211100HSL	1:1	540	160	120	2122	2122
			1000	241	180	1719	1719
			1400	294	220	1500	1500
			1800	342	255	1352	1352
			2000	368	275	1313	1313





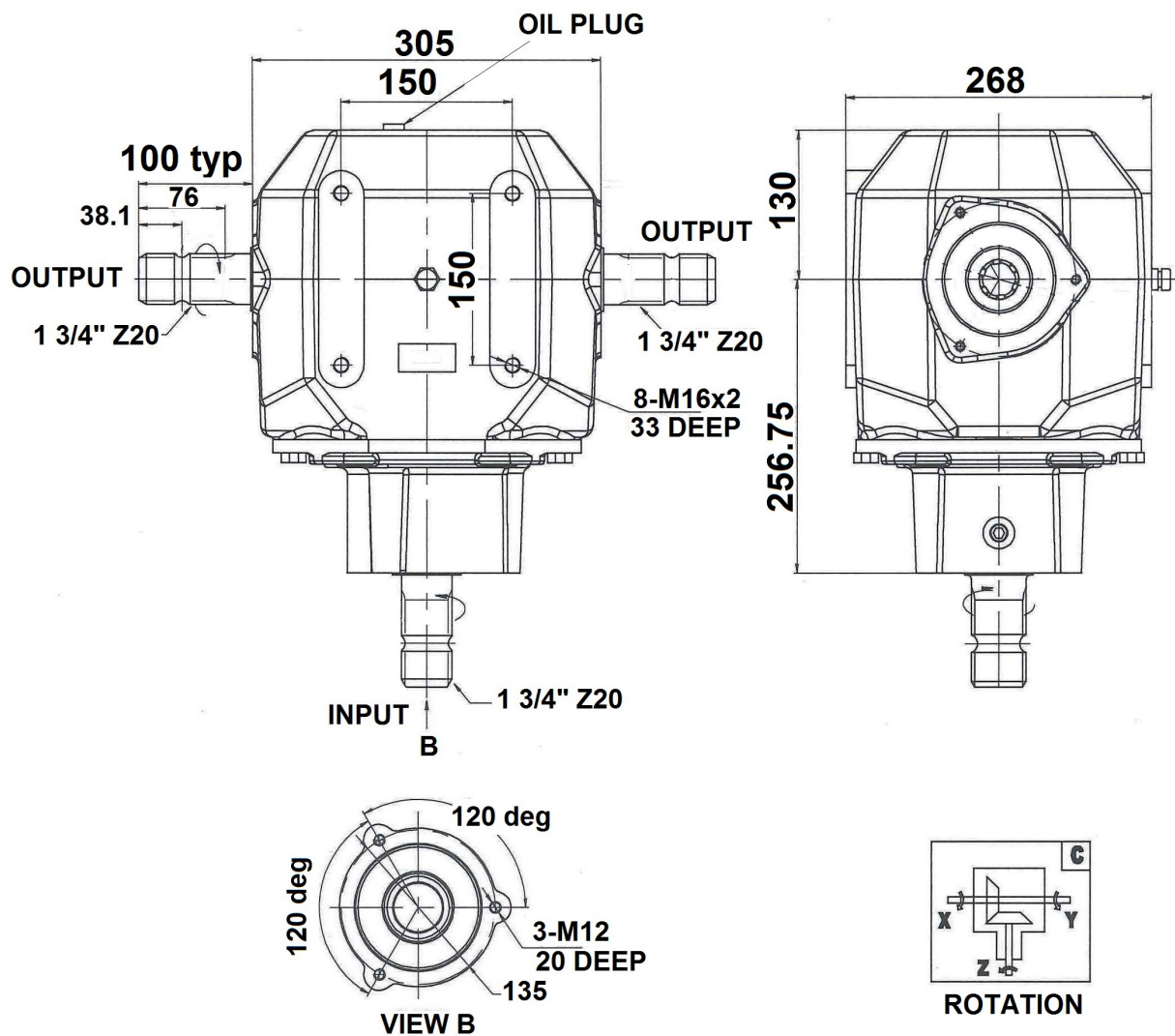
GEARBOXES / GENERAL PURPOSE GEARBOXES / A200



Note: 1:1 ratio now in stock. Other ratios to OEM order.

Part No	Ratio	INPUT				OUTPUT		
		R.P.M	HP	KW	N.M	N.M	R.P.M	Ratation
1:2.5	540	122	89.7	1586	634	1350	C	C
	1000	183	134.5	1285	514	2500		
AL01968	1:1	540	204	149.9	2652	2652	540	
		1000	300	220.5	2106	2106	1000	
AL01967	1.85:1	540	110	80.9	1430	2645	292	
		1000	170	125	1193	2208	541	
1.2:1	540	183	134.5	2379	2854	450	C	
	1000	275	202.1	1930	2316	833		
2.5:1	540	55	40.4	715	1787	216	C	
	1000	82	60.3	576	1439	400		





AUGER BOXES

GEARBOXES / AUGER BOXES



This selection of gearboxes, are designed specifically for use on grain handling augers. But can be used in other situations.

The range includes standard fixed T designs, forward reverse models for direction change and a 45 degree angled box suitable for use on field bins.

Boxes from the general purpose section may also suit some applications.

FRA8 FORWARD REVERSE

GEARBOXES / AUGER BOXES / FRA8 FORWARD REVERSE



The FRA8 1:1 ratio forward reverse gearbox is designed for use on grain handling augers. The gear selector allows for forward, reverse or neutral movement.

Its new design offers:

- Increased HP rating. Now 30 HP @ 540RPM.
- Improved gear selector and shaft assembly.
- Improved internal gear mechanism.
- Mounting holes for safety covers.
- Mounting bolt pattern allows for easy replacement of old Andiline FR100 model gearboxes.

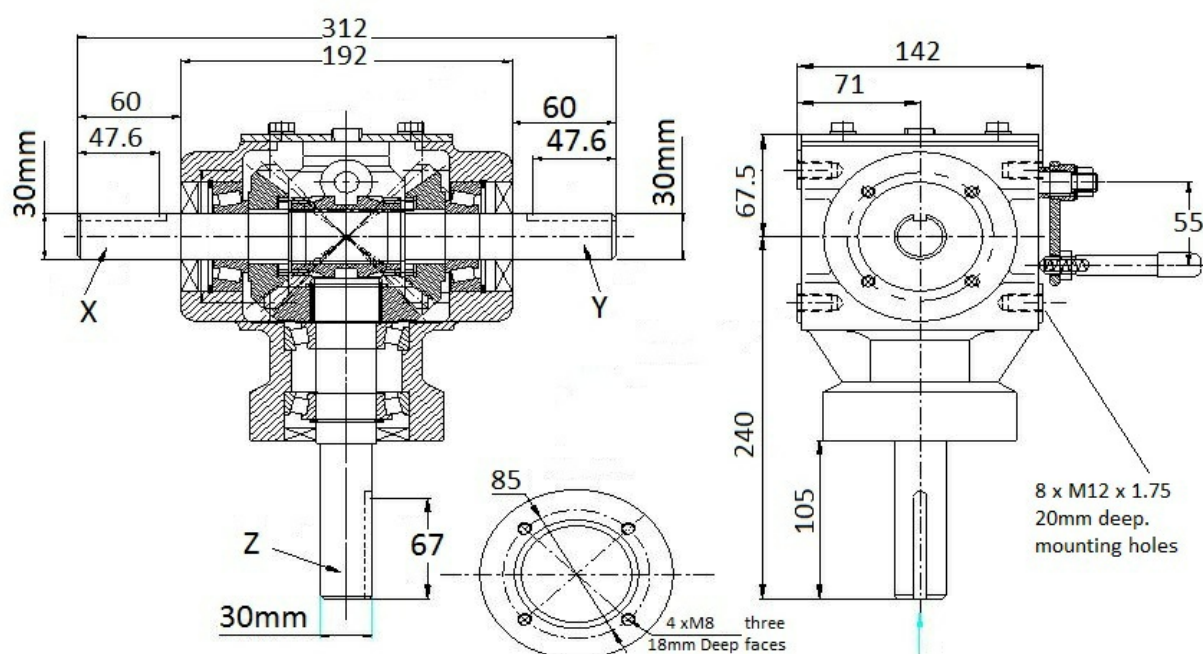
Warning: The gearbox shafts should stationary before selecting gears. Any movement of the shafts during this procedure can cause unnecessary wear of the selector mechanism and will shorten the working life of the gearbox.

Note: The standard model offered is the FRA8 which is a 3 shaft T design box.

2 shaft or L versions are available for this gearbox only under volume OEM orders at this stage.

FRA8L. Left Hand output. Part AL01240
FRA8R. Right hand output. Part AL01237

Part number	AL01241
Model	FRA8
Gear ratio	1:1
Power rating	30HP (22KW) @ 540 rpm 46HP (33KW) @ 1000 rpm
Input torque	389NM @ 540 rpm 315NM @ 1000 rpm
Output torque	389NM @ 540 rpm 315NM @ 1000 rpm
Unit weight	16kg
Mounting	4 x holes at 88mm centres
Shafts	30mm diameter with 8mm key.
Lubricant	SAE 90 gear oil



FRA821 FORWARD REVERSE REDUCTION

GEARBOXES / AUGER BOXES / FRA821 FORWARD REVERSE REDUCTION



The FRA821 forward reverse gearbox has a 2:1 reduction ratio that is designed for use on smaller grain handling augers.

New design offers:

- Ability to reduce auger speed without the use of belts or chains. This requires less space and reduces related OH&S issues.

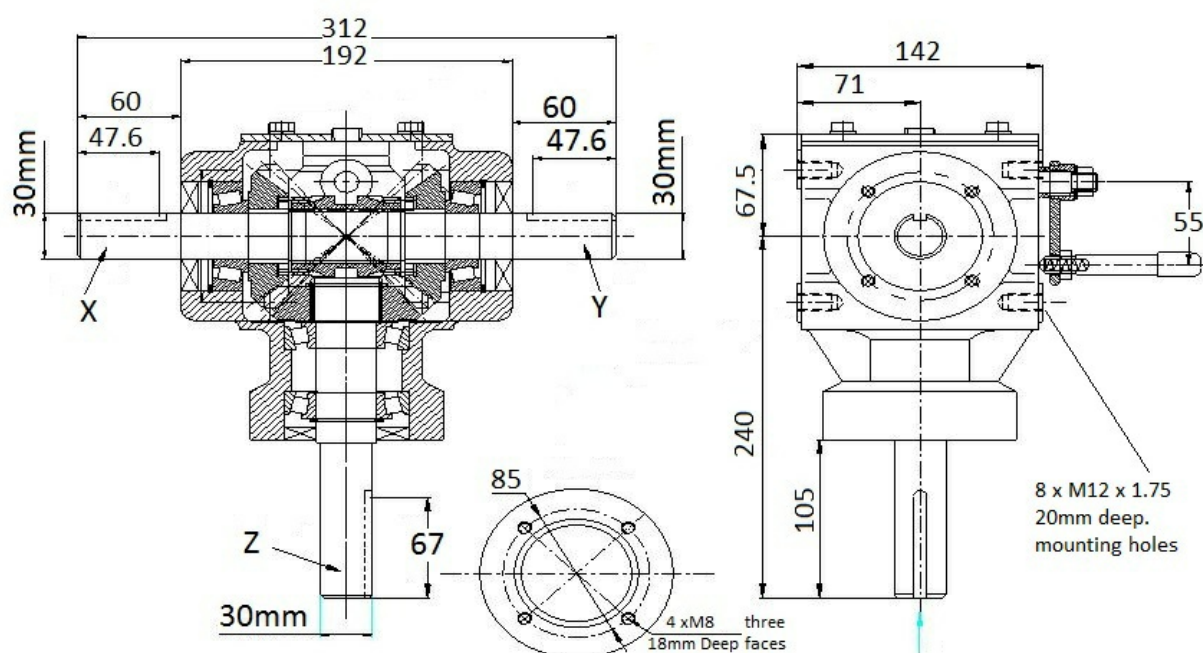
- As a replacement gearbox for old equipment the FRA821 allows for the use of new 1000rpm PTO tractors without the use of additional gearing. (Subject to HP requirement).
- Sturdy gear selector and shaft assembly.
- Strong internal gear mechanism.
- Mounting bolt pattern allows for easy replacement of old Andiline FR100 model gearboxes.

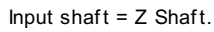
Warning: The gearbox shafts should stationary before selecting gears. Any movement of the shafts during this procedure can cause unnecessary wear of the selector mechanism and will shorten the working life of the gearbox.

Notes:- The standard model FRA821 offered is a 3 shaft T design box. 2 shaft or L versions are available for this gearbox only under volume OEM orders at this stage.

- Because of the gearing design in this model the "Z" shaft must be used as the input shaft.

Part number	AL02694
Model	FRA821
Gear ratio	2:1 reduction
Power rating	16HP (11.8KW) @ 540 rpm 24HP (18KW) @ 1000 rpm
Input torque	208NM @ 540 rpm 172NM @ 1000 rpm
Output torque	416NM @ 540 rpm 344NM @ 1000 rpm
Unit weight	17kg
Mounting	4 x holes at 88mm centres
Shafts	30mm diameter with 8mm key.
Lubricant	SAE 90 EP gear oil



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FR150-2 FORWARD REVERSE

GEARBOXES / AUGER BOXES / FR150-2 FORWARD REVERSE



The FR150-2 forward reverse gearbox has a 1.5:1 reduction ratio that is designed for use on grain handling augers.

New design offers:

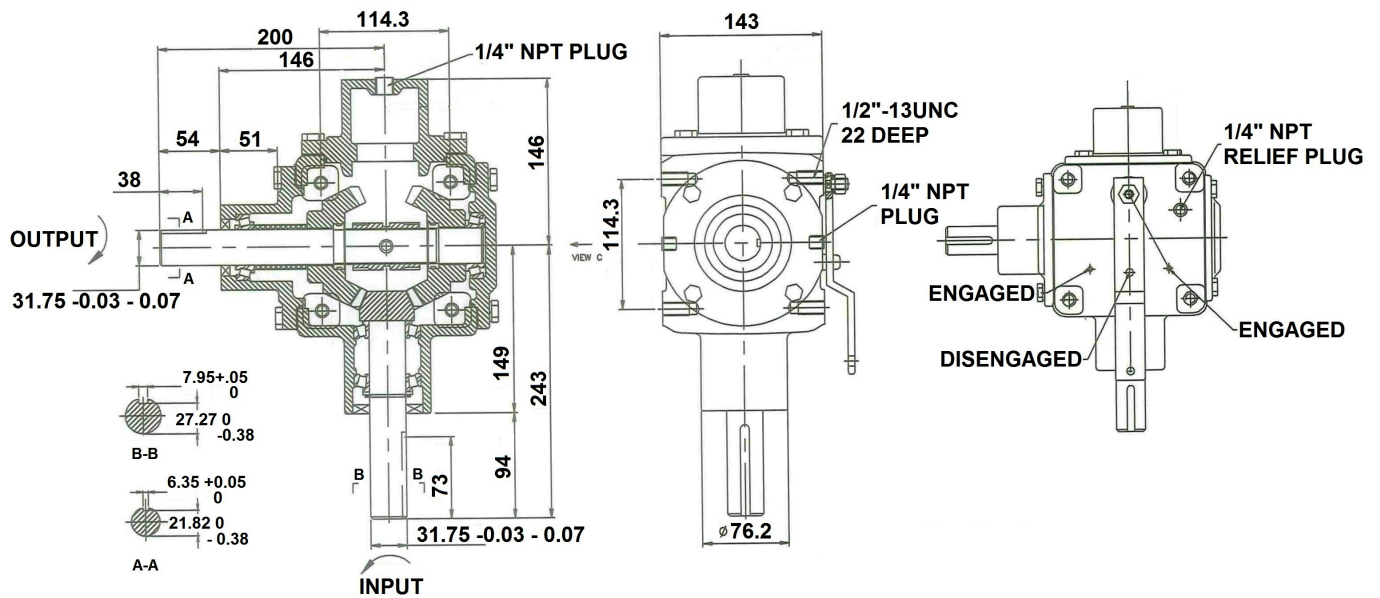
- Ability to reduce auger speed without the use of belts or chains. This requires less space and reduces related OH & S issues.
- Sturdy gear selector and shaft assembly.
- Strong internal gear mechanism.

Warning: The gearbox shafts should be stationary before selecting gears. Any movement of the shafts during this procedure can cause unnecessary wear of the selector mechanism and will shorten the working life of the gearbox.

Input via X shaft.

Part number	AL01219
Model	FR150-2
Gear ratio	1.5:1 reduction
Power rating	20 HP (KW) @ 540 rpm 30 HP (KW) @ 1000 rpm
Input torque	265 NM @ 540 rpm 215 NM @ 1000 rpm
Output torque	398 NM @ 540 rpm 322 NM @ 1000 rpm
Unit weight	23kg
Mounting	4 x holes at 114.3mm centres
Shafts	31.75mm diameter with 6.35mm key.
Lubricant	SAE 90 EP gear oil





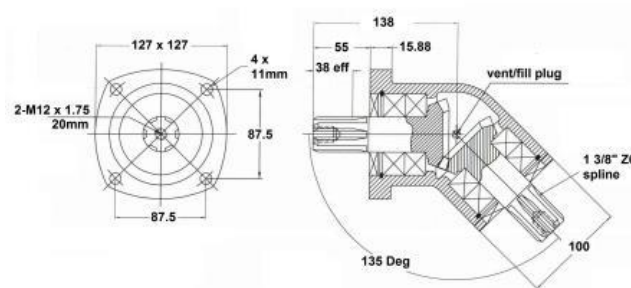
A45 - 15HP

GEARBOXES / AUGER BOXES / A45 - 15HP



The A45 gearbox is a compact 45 degree gearbox designed for use on grain bin / silo out feed augers.

Part Number	AL01262
Model	A45
Power rating	15HP @ 540 RPM
Torque Rating	198Nm @ 540 RPM
Shafts	1 3/8 6 spline
Unit Weight - Dry	8.4 Kg
Lubricant	SAE 90 EP Gear Oil





B45 - 50HP

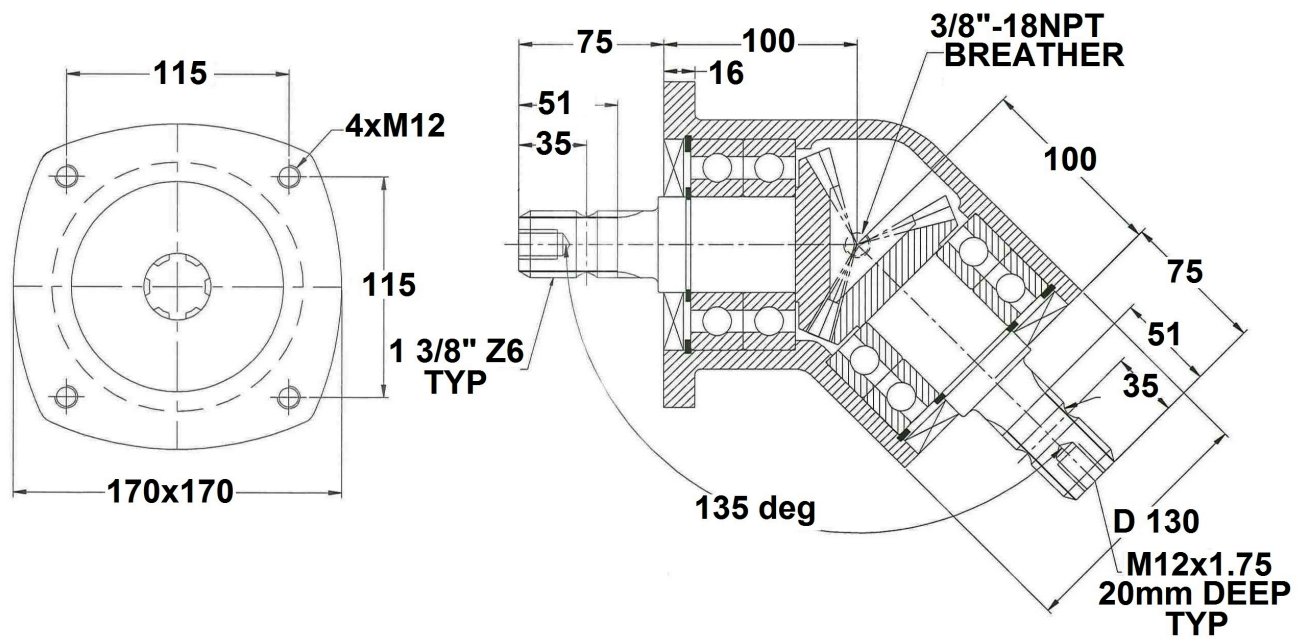
GEARBOXES / AUGER BOXES / B45 - 50HP



The B45 gearbox is a compact 45 degree gearbox designed for use on grain bin / silo out feed augers.

Part Number	AL01263
Model	B45
Power rating	50HP @ 540 RPM
Torque	654 Nm
Shafts	1 3/8 6 spline
Unit Weight - Dry	16.5 Kg
Lubricant	SAE 90 EP Gear Oil





B45-02-1 90HP

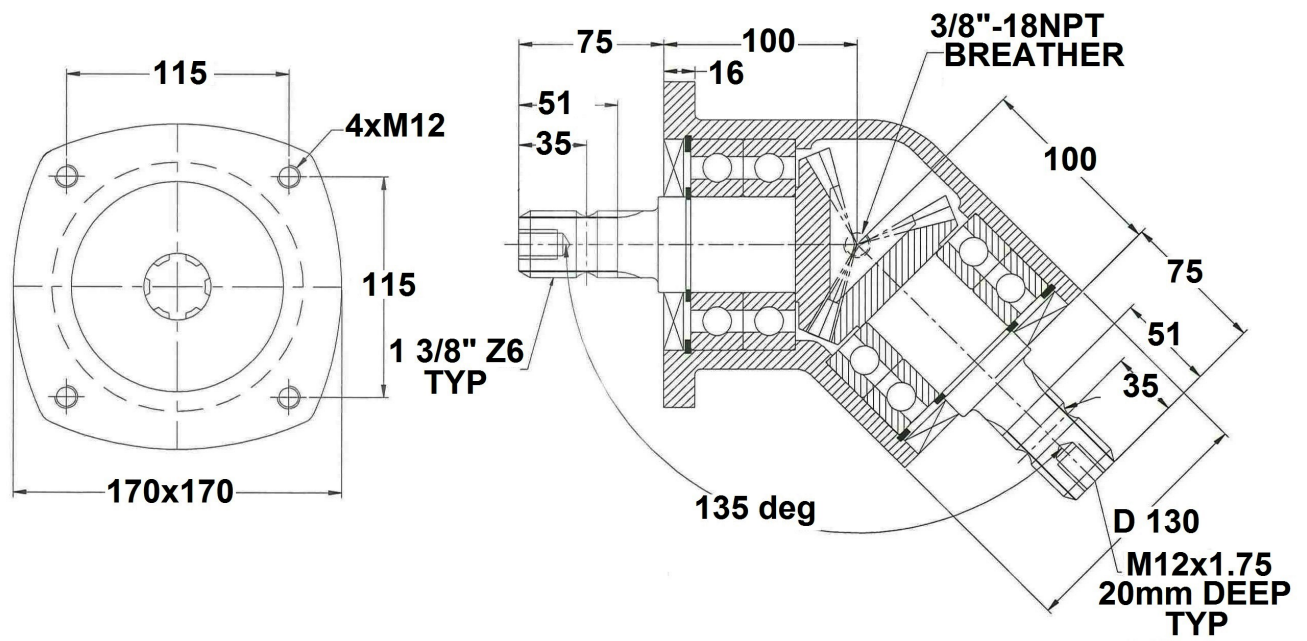
GEARBOXES / AUGER BOXES / B45-02-1 90HP



The B45-02-1 gearbox is a compact 45 degree gearbox designed for use on grain bin / silo out feed augers.

Part Number	AL01264
Model	B45-02-1
Power rating	90 HP @ 540 RPM
Torque	540 Nm
Shafts	1 3/8 6 spline
Gears	Helical
Bearings	6310
Unit Weight - Dry	16.5 Kg
Lubricant	SAE 90 EP Gear Oil





B45-04-1 120HP

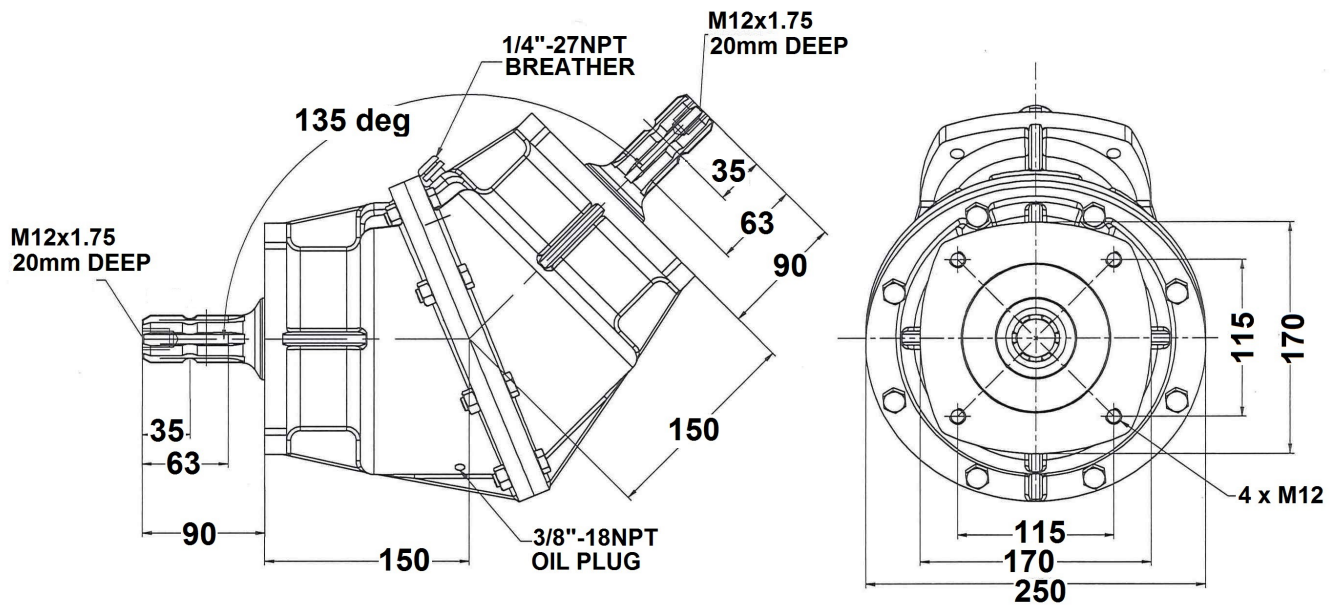
GEARBOXES / AUGER BOXES / B45-04-1 120HP



The B45-04-1 gearbox is our largest 45 degree gearbox and is designed for use on large grain bins & silo out feed augers.

Part Number	AL01265
Model	B45-04-1
Power rating	120 HP @ 540 RPM
Torque	1591 Nm
Shafts	1 3/8 Z6 spline.
Gears	Bevel
Unit Weight - Dry	41.3 Kg
Lubricant	SAE 90 EP Gear Oil





A3921

GEARBOXES / AUGER BOXES / A3921



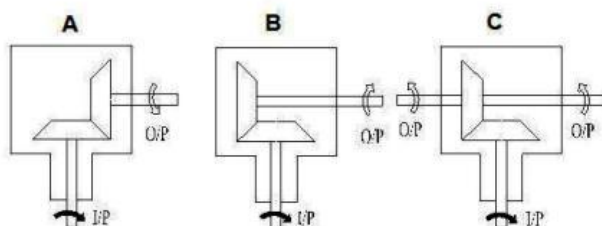
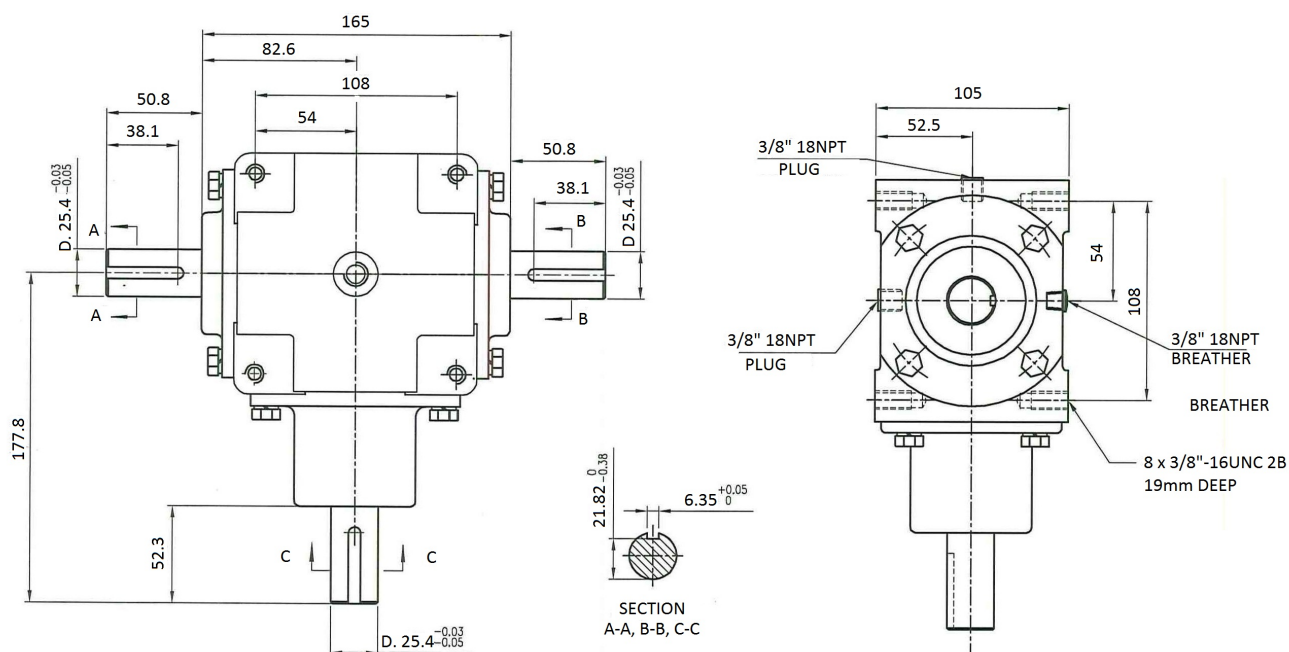
The A3921 gearbox features a compact size and strong cast iron housing making it an ideal choice for use on grain augers.

Note: Can be used as a replacement gearbox for some imported augers.

Part No	Model	Input					Output		
		Ratio	R.P.M	HP	KW	NM	NM	RPM	Rotation
AL01717	A3921	1:1	540	20	15	265	265	540	C
			1000	30	22.5	215	215	1000	

Unit weight	10.6 kg
Shafts	3 x 1" diameter with 1/4" keyways
Mounting holes	4 on 4.25" SQ pattern.
Lubricant	SAE 90 gear oil. 4lt aprox.





A81H

GEARBOXES / AUGER BOXES / A81H

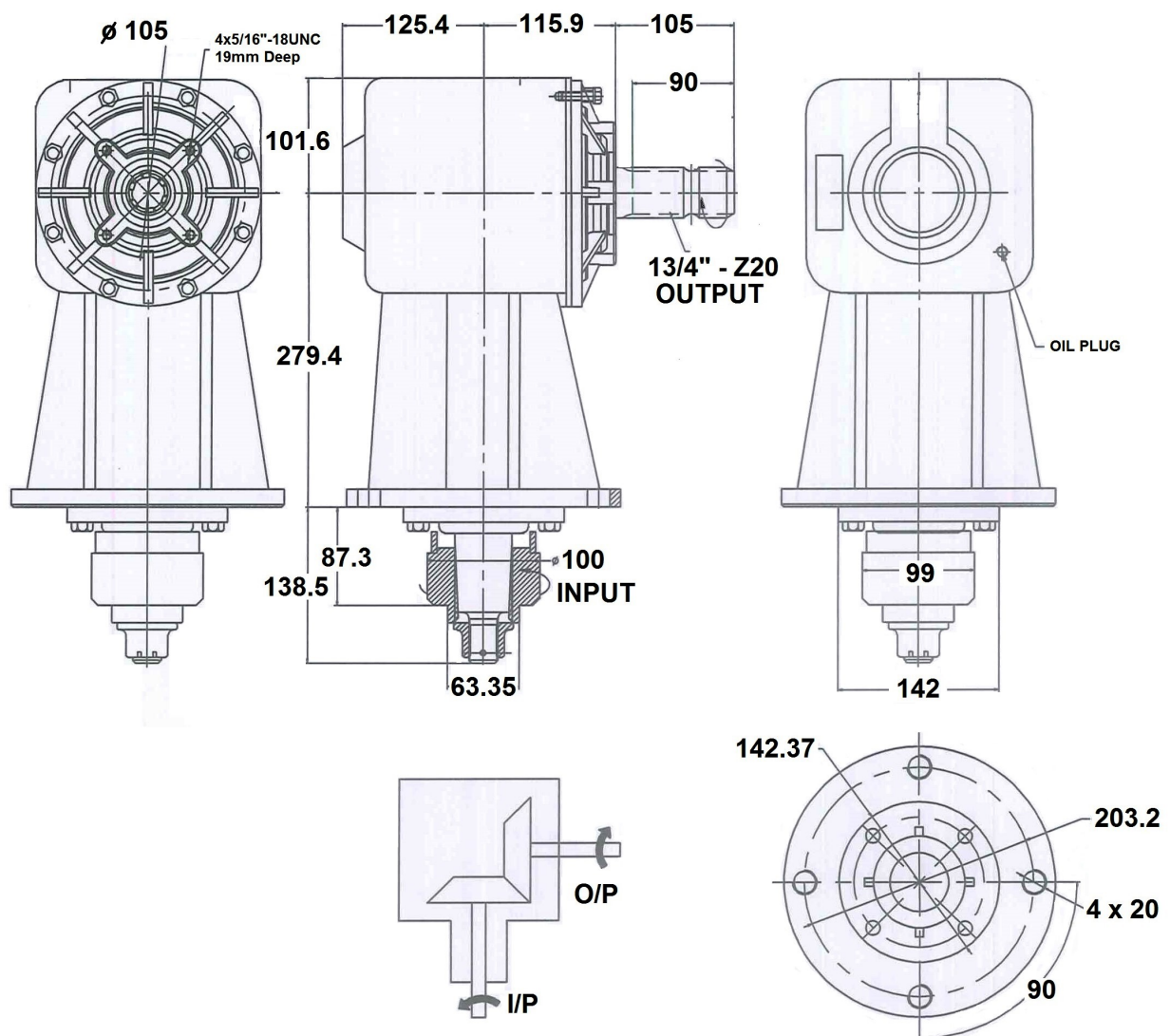


The A81H 1:1 ratio gearbox has been developed by Aline Trading P/L for auger drive applications like chaser bins that require higher horsepower.

Notes:

- This gearbox is made with quality spiral bevel gears with helical teeth. The helical design produces less vibration and noise than conventional straight cut mitre gears making them suitable for higher operating speeds & H.P. The gearbox MUST be operated in the rotation as shown on our drawing. Spiral bevel gears are directional.
- Gearboxes are shipped without oil. Please fill with SAE 90 oil before use. Approx. 1.4lt.

Part No	INPUT @ 540 RPM		Output @ 1000 RPM	
	HP	Nm	HP	Nm
AL02708	133	1733	198	1400



SLASHER BOXES

GEARBOXES / SLASHER BOXES

Aline Trading P/L offer a range of gearboxes suitable for use on agricultural and industrial machinery including:

- Rotary Slashers.
- Rotary Cutters.
- Cotton choppers.
- Tree Cutters.
- Field bins

Please click on the model for below for more detailed information.



A40 - 40 HP

GEARBOXES / SLASHER BOXES / A40 - 40 HP



The **A40** gearbox is designed for use on rotary slashers and other equipment up to 40HP.

Features:

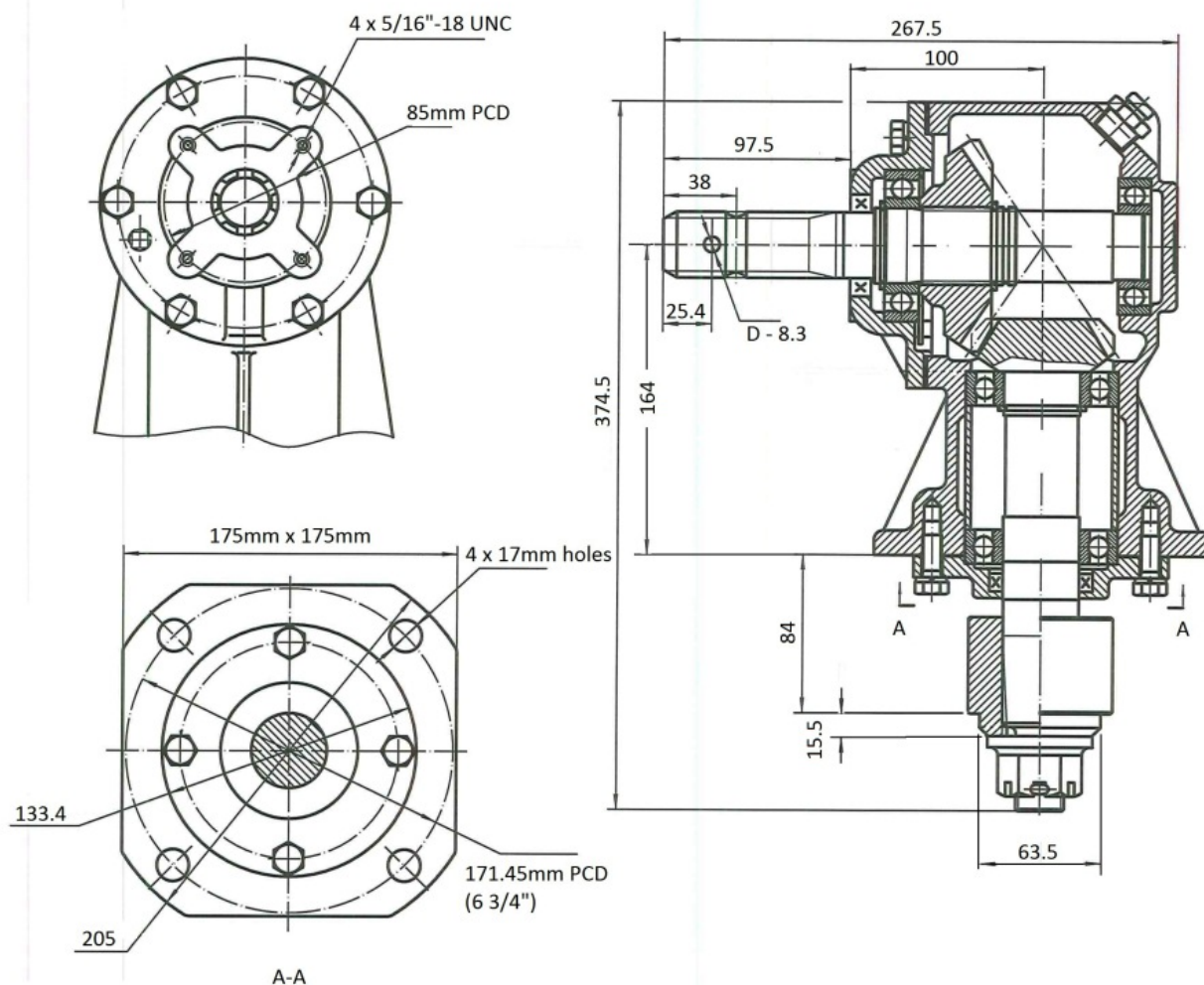
- Sturdy construction.
- Improved o/p shaft seal protection ring.
- Output shaft boss for attaching the cutter head. (Welding required.)

NOTE: GEARBOXES ARE SHIPPED WITHOUT OIL. Please fill before use.

SPECIFICATIONS	
Part No	Description
AL00911	L Box Similar rotation.
AL00912	L Box Opposite rotation.
AL00913	T Box Thru shaft.
Gear Ratio	1.93: 1 Increasing
Input speed	540 RPM
Weight	21.7 Kg Aprox
Lubricant	SAE EP 90 Gear Oil. 1.2lt Aprox Gearboxes are shipped without oil. Please fill before use.

Right angled L Box. Shown below.





T style thru box AL00913 shown below.



Rotary Cutter speeds.

Normal agricultural input shaft speed is 540 RPM. Care must be taken when selecting a gear box for your application. If the blades rotate too slowly they may not cut properly. If the blades rotate too fast you may also experience cutting problems however excessive speed is more likely to cause damage to the machine or serious injury to the operator.

The chart below shows the tip speed in feet per minute for some commonly used cutter blade diameters. This is a guide only to assist you with the selection of your gearbox.

BLADE DIAMETER	TIP SPEED (Feet per minute)
3'6"	11,479
4'	13,119
4'6"	14,759



Aline Trading P/L

The **A70** gearbox is designed for use on mid-sized rotary cutters, field bins and other applications. Horse power ratings vary from 65 HP to 110 HP depending on the gear ratio and input shaft speed.

Features :

- Sturdy construction.
- Improved output shaft seal protection ring.
- Output shaft boss for attaching the cutter head. (Welding required.)
- Tapper Roller bearings.

NOTE: GEARBOXES ARE SHIPPED WITHOUT OIL. Please fill before use.

SPECIFICATIONS							
P/No	Ratio	540 RPM		1000 RPM		Rotation	Input Shaft
		H.P	Torque	H.P	Torque		
AL00662	1:1	-	-	110	6944	Opposite	13/8"Z6
AL00664	1:1	-	-	110	6944	Similar	13/8"Z6
AL00669	1:1.46	75	8753	-	-	Opposite	13/8"Z6
AL00675	1:1.93	65	7586	-	-	Opposite	13/8"Z6
AL00677	1:1.93	65	7586	-	-	Opposite	13/4"Z20
AL00702	1:1.93	65	7586	-	-	Dual	13/8"Z6
Bearings	Taper Roller						
Lubricant	SAE 90 EP Gear Oil 1.12 lt approx. Gearboxes are shipped without oil. Please fill before use.						
Weight	38 kg approx						

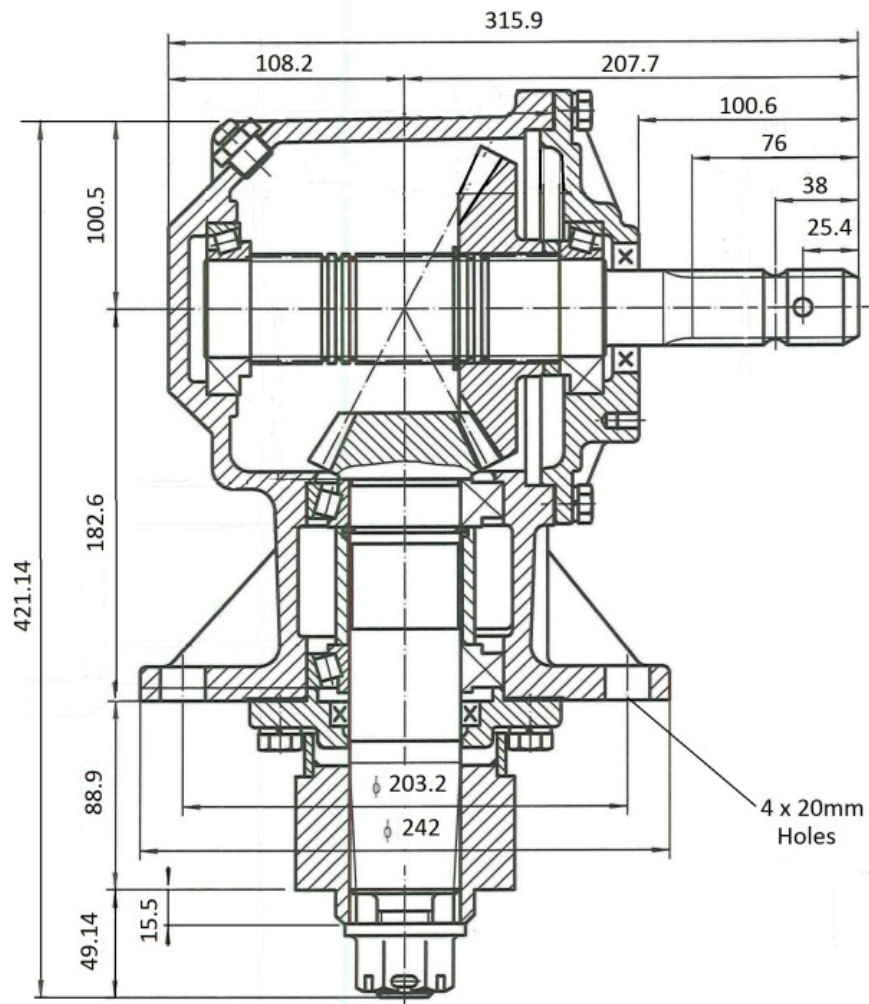
- Not recommended at this input speed.

Rotary Cutter speeds.

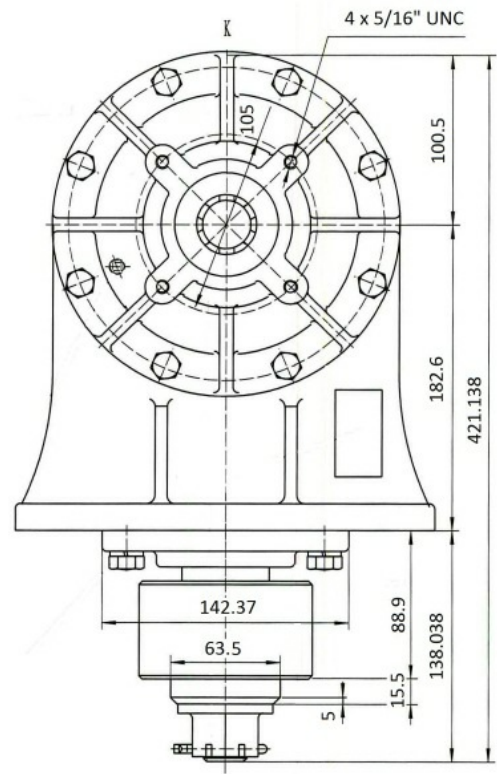
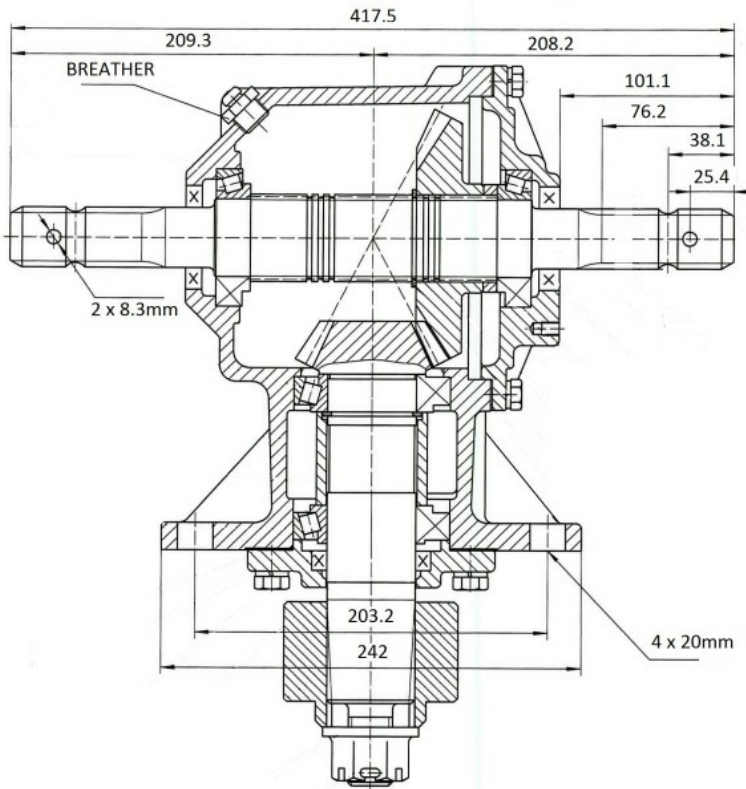
Normal agricultural input shaft speeds are 540 or 1000 revâ€™s per minute depending on the tractor being used. Because of this variation of input speed care must be taken when selecting a gear box for your application. If the blades rotate too slowly they may not cut properly. If the blades rotate too fast you may also experience cutting problems however excessive speed is more likely to cause damage to the machine or serious injury to the operator.

The chart below shows the tip speed in feet per minute for some commonly used cutter blade diameters. This is a guide only to assist you with the selection of your gearbox. You will see that some models are marked as not recommended for the reasons covered above.

ROTARY CUTTER - SPEED SELECTION								
P/No	Ratio	Input		Output				
		RPM	Recommended Yes / No	Blade Tip Speed ft/minute				
				4'	4.5'	5'	5.5'	6'
AL00662 AL00664	1:1	540	No	-	-	-	-	-
		1000	Yes	12588	14162	15735	17309	-
AL00669	1.46:1	540	Yes	9,924	11,165	12,405	13,646	14,887
		1000	No	-	-	-	-	-
AL00675 AL00677 AL00702	1:1.93	540	Yes	13,119	14759	16399	-	-
		1000	No	-	-	-	-	-



AL00702 - A70 Thru shaft gearbox.



A81 - 90HP - 160 HP

GEARBOXES / SLASHER BOXES / A81 - 90HP - 160 HP



AlineTrading Pty Ltd.

The **A81** gearbox is designed for use on:

Rotary cutters, Cotton Choppers, Slashers, Tree cutters, field bins and other applications.

Horse power ratings vary from 90 HP to 160 HP depending on the gear ratio and input speed.

Features :

- 13/4" Z20 splined input shaft.
- Sturdy construction.
- Improved output shaft seal protection ring.
- Output shaft boss for attaching the cutter head. (Welding required.)
- Tapper Roller bearings.

NOTE: GEARBOXES ARE SHIPPED WITHOUT OIL. Please fill before use.

SPECIFICATIONS						
P/No	Ratio	Rotation	540 RPM		1000 RPM	
			HP	Torque	HP	Torque
AL00710	1.46:1	Opposite	-	-	160	10084
AL02702	1:1	Similar	-	-	150	9454
AL02707	1:1	Opposite	-	-	150	9454
AL00705	1:1.46	Opposite	120	14006	-	-
AL02559	1:1.93	Opposite	90	10504	-	-
Bearings	Taper Roller					
Lubricant	SAE 90 EP gear Oil. 1.39 lt approx. Gearboxes are shipped without oil. Please fill before use.					
Weight	53 Kg approx.					

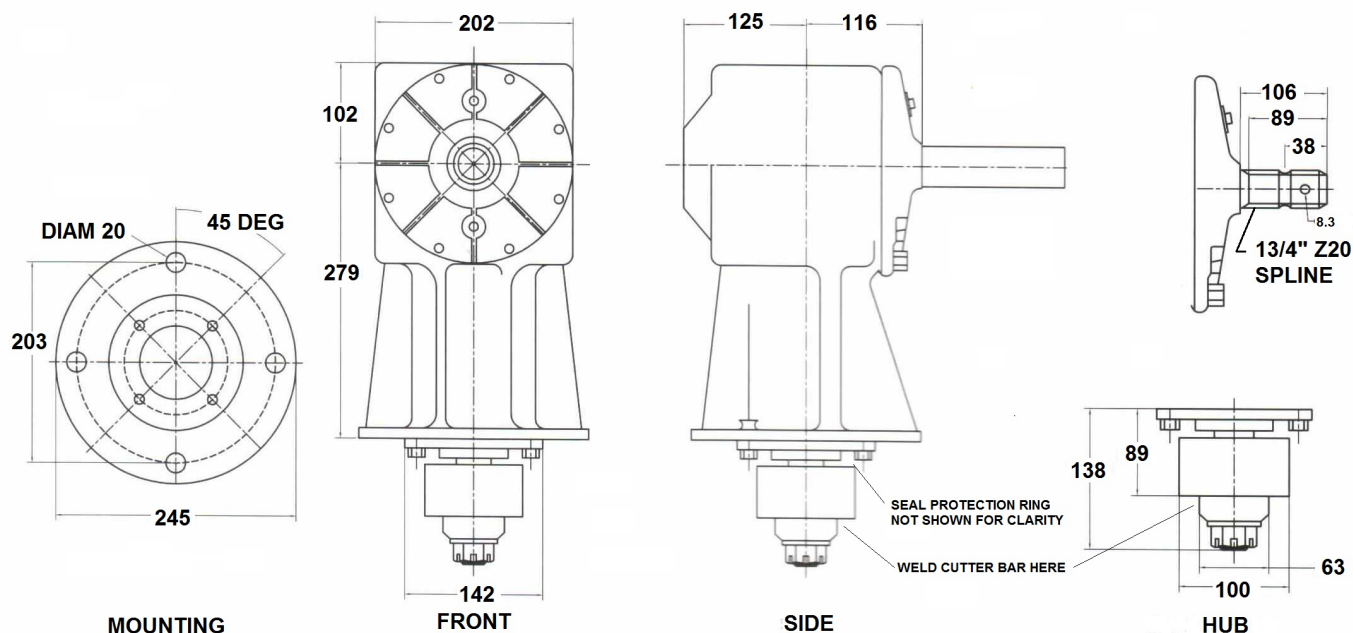
- Not recommended at this input speed.

Rotary Cutter speeds.

Normal agricultural input shaft speeds are 540 or 1000 revâ€™s per minute depending on the tractor being used. Because of this variation of input speed care must be taken when selecting a gear box for your application. If the blades rotate too slowly they may not cut properly. If the blades rotate too fast you may also experience cutting problems however excessive speed is more likely to cause damage to the machine or serious injury to the operator.

The chart below shows the tip speed in feet per minute for some commonly used cutter blade diameters. This is a guide only to assist you with the selection of your gearbox. You will see that some models are marked as not recommended for the reasons covered above.

ROTARY CUTTER - SPEED SELECTION									
P/No	Ratio	Input		Output					
		RPM	Recommended Yes / No	Blade Tip Speed ft/minute					
				4'	4.5'	5'	5.5'	6'	7'
AL02702 AL02707	1:1	540	No	-	-	-	-	-	-
		1000	Yes	12588	14162	15735	17309	18882	-
AL00705	1:1.46	540	Yes	9924	11,165	12,405	13,646	14,887	17368
		1000	No	-	-	-	-	-	-
AL02559	1:1.93	540	Yes	13051	14683	16314	17945	19577	-
		1000	No	-	-	-	-	-	-
AL00710	1.46:1	540	No	-	-	-	-	-	-
		1000	Yes	8622	9700	10777	11855	12933	15088



A91 - 120 HP 4 SHAFT

GEARBOXES / SLASHER BOXES / A91 - 120 HP 4 SHAFT



Aline Trading Pty Ltd.

The **A91** gearbox is a heavy duty 4 shaft gearbox designed for use as a centre box on cotton choppers and large rotary cutters and

incorporates 2 gear ratios:

- Input shaft to cross shaft = 1:1 ratio. The cross shafts can be connected to our AL00705 (A81) gearboxes to run the outer cutters.
- Input shaft to output cutter shaft = 1: 1.46 ratio.

Features:

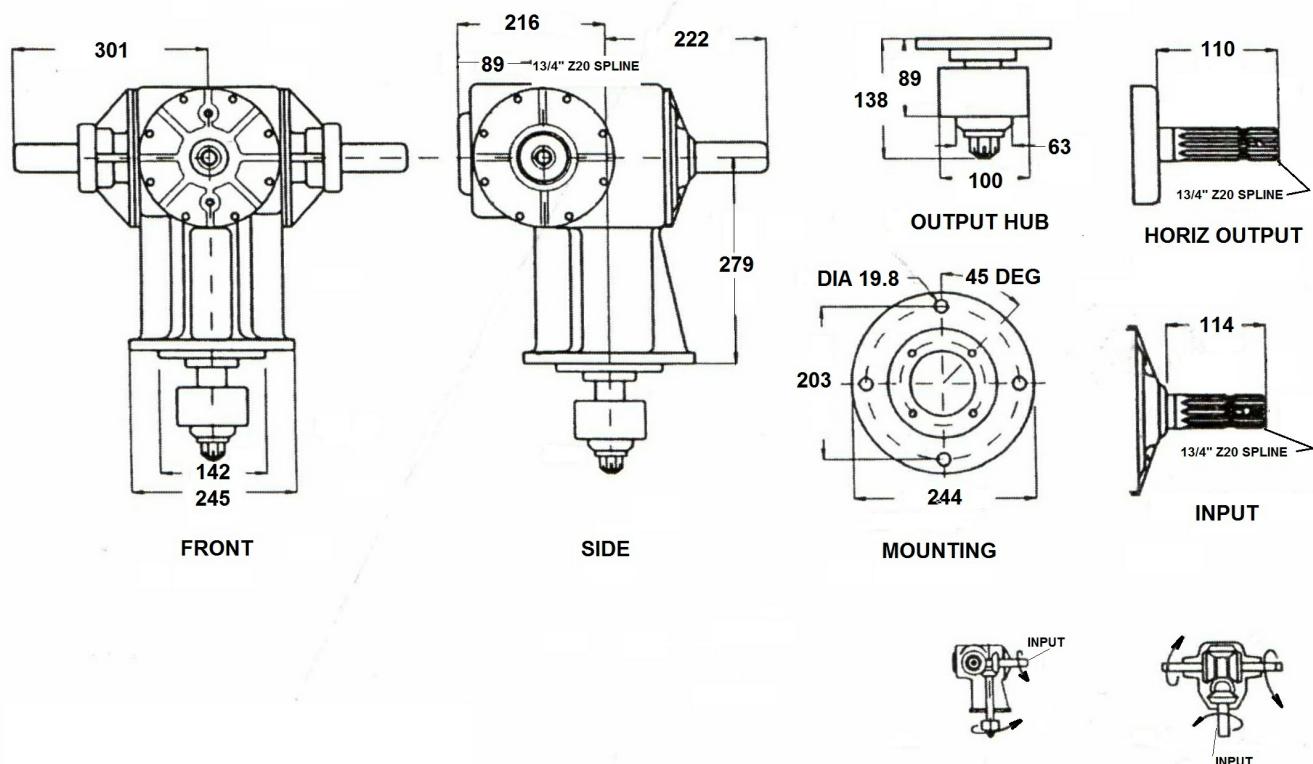
- 13/4" Z20 splined input and cross shafts.- Sturdy construction.
- Improved output shaft seal protection ring.
- Output shaft boss for attaching the cutter head. (Welding required.)
- Tapper Roller bearings.

NOTE: GEARBOXES ARE SHIPPED WITHOUT OIL. Please fill before use.

SPECIFICATIONS			
Part No	Ratio	540RPM	
		H.P	Torque
AL00709	1:1 / 1:1.46	120	14006
Bearings	Taper Roller		
Lubricant	SAE 90 EP Gear Oil. 2.01 lt aprox. Gearboxes are shipped without oil. Please fill before use.		
Weight	74 Kg Aprox.		

ROTARY CUTTER - SPEED SELECTION								
P/No	Ratio	Input		Output				
		RPM	Recommended Yes / No	Blade Tip Speed ft/minute				
				4'	4.5'	5'	6'	7'
AL00709	1.46:1	540	Yes	9,924	11,165	12,405	14,887	17368
		1000	No	-	-	-	-	-





A130 - 95-192 HP

GEARBOXES / SLASHER BOXES / A130 - 95-192 HP



Aline Trading Pty Ltd.

The **A130** gearbox is designed for use on Rotary Slashers, Cotton Choppers, Finishing Mowers, and other applications where a strong reliable gearbox is required.

Horse power ratings vary from 95 HP to 192 HP depending on the gear ratio and input speed.

Features:

- 13/4" Z20 splined input shaft.
- Sturdy construction.
- Triple Lip Spring Loaded Seals.
- Heavy gearing for maximum tooth strength.
- Improved oiling system to access bearings.
- Easy servicing via large access cover.
- Improved output shaft seal protection.
- Large output shaft boss for attaching the cutter head. (Welding required.) Allows for higher side loading and impact resistance. Also protects the output shaft nut.
- Taper Roller bearings.

NOTE: GEARBOXES ARE SHIPPED WITHOUT OIL. Please fill before use.

SPECIFICATIONS.						
Part No	Input				Output	
	R.P.M	Hp	KW	N.m Torque	R.P.M	N.m Torque
AL00730	540	120	89.2	1573	540	1573
	1000	180	133.8	1278	1000	1278
AL00731	540	128	95	1680	794	1150
	1000	192	142.5	1360	1470	932
AL00732	540	95	67	1326	1042	690
	1000	142.5	100	955	1930	494
Lubriant	SAE 90 EP Gear oil. Capacity aprox 1.8 lt Gearboxes are shipped without oil. Please fill before use.					
Rotation	Opposite					
Weight	55 Kg					

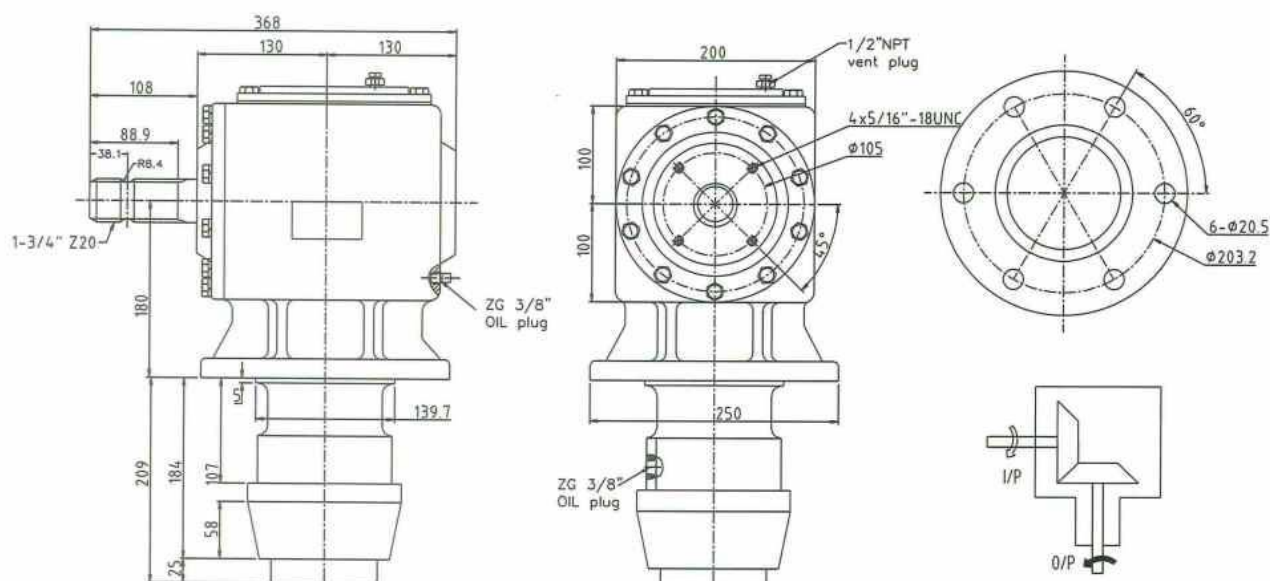
Rotary Cutter speeds.

Normal agricultural input shaft speeds are 540 or 1000 revâ€™™s per minute depending on the tractor being used. Because of this variation of

input speed care must be taken when selecting a gear box for your application. If the blades rotate too slowly they may not cut properly. If the blades rotate too fast you may also experience cutting problems however excessive speed is more likely to cause damage to the machine or serious injury to the operator.

The chart below shows the tip speed in feet per minute for some commonly used cutter blade diameters. This is a guide only to assist you with the selection of your gearbox. You will see that some models are marked as not recommended for the reasons covered above.

ROTARY CUTTER - SPEED SELECTION									
P/No	Ratio	Input		Output					
		RPM	Recommended Yes / No	Blade Tip Speed ft/minute					
				4'	4.5'	5'	5.5'	6'	7'
AL00730	1:1	540	No	-	-	-	-	-	-
		1000	Yes	12588	14162	15735	17309	18882	-
AL00731	1.46:1	540	Yes	9,924	11,165	12,405	13,646	14,887	17368
		1000	No	-	-	-	-	-	-
AL00732	1:1.93	540	Yes	13051	14683	16314	17945	-	-
		1000	No	-	-	-	-	-	-



A150D - 150 HP

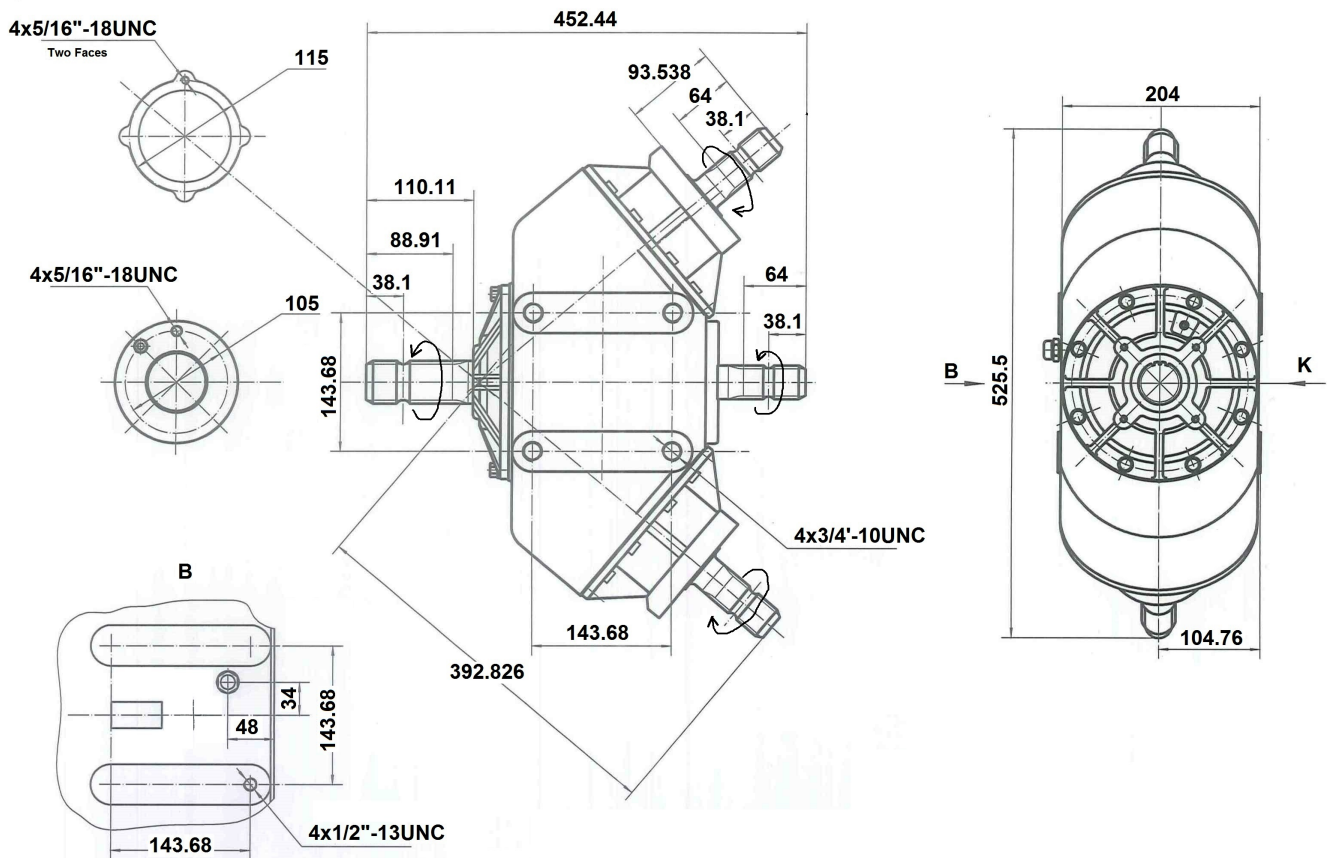
GEARBOXES / SLASHER BOXES / A150D - 150 HP



150 HP power divider gearbox, suitable for use on multi head slashers.

NOTE: GEARBOXES ARE SHIPPED WITHOUT OIL. Please fill before use.

Part No	AL00729
Gear Ratio	1:1
HP at 1000 RPM input.	200
O/P torque at 1000 RPM	1424Nm
HP at 540 RPM input.	135
O/P Torque at 540 RPM.	1780 Nm
Shafts	13/4"Z20



WORM WHEEL SPEED REDUCTION BOXES

GEARBOXES / WORM WHEEL SPEED REDUCTION BOXES



Aline Trading P/L presents a comprehensive range of quality worm wheel reduction gearboxes suited to many applications and industries.

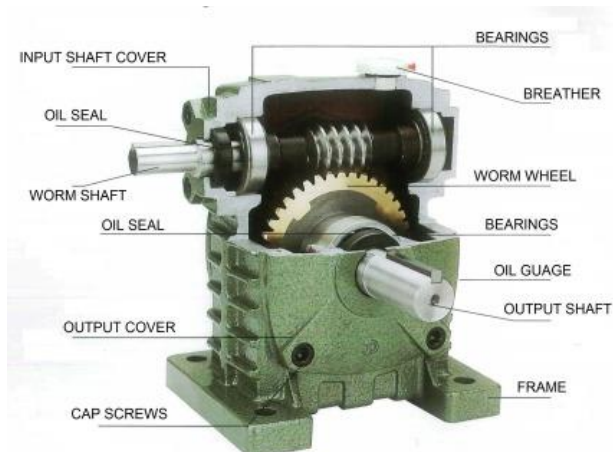
The variety of worm wheel reduction gearboxes used in the Agricultural and industrial markets is extensive. Aline Trading P/L stock the more commonly requested items, mostly single start up to 60:1 reduction. Less common items, volume orders and special builds are available to order. Typical lead times on these orders are 8-10 weeks.

Please send us your enquiry today.

When Ordering a Worm Wheel Reduction Gearbox please specify the following:

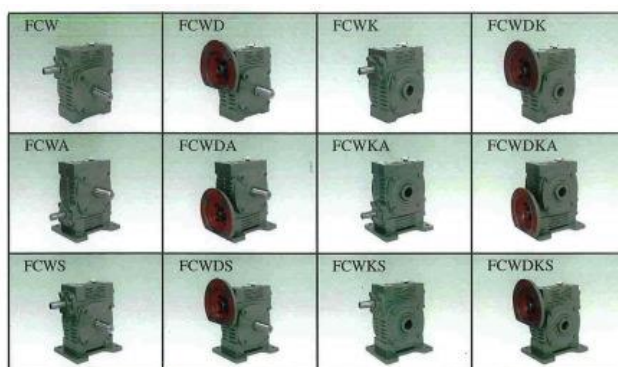
1. Worm frame size.
2. Gear ratio.
3. Input motor information. Power, speed (RPM), type. If flange mount electric motors please specify the mount details/dimensions required.
4. Mounting arrangement required.
5. Output shaft arrangement.

Note: Special care should be taken when selecting the correct gearbox for your application. Please refer to the selection information included in this section to assist you with the selection.



Single reduction gearboxes.

Ratios: 5:1 â€" 10:1 â€" 15:1 â€" 20:1 â€" 25:1 â€" 30:1 â€" 40:1 â€" 50:1 â€" 60:1





Double reduction gearboxes.
Ratios: 80:1 - 3600:1



Size 250 shown beside Size 40



TECHNICAL INFORMATION

GEARBOXES / WORM WHEEL SPEED REDUCTION BOXES / TECHNICAL INFORMATION

Selection

Care should be taken when selecting a Worm wheel reduction gearbox for a new application. There are many factors that can affect the service life of the unit. The correct selection must be made to ensure the efficiency of the reducer.

Some of these factors including service, load, torque etc. are shown in the following information.

Note: THESE RATINGS ARE ONLY A GUIDE. Ratings shown are compiled using standard engineering procedures. Aline Trading P/L does not guarantee ratings in specific applications. Prototype testing of every application is recommended before production.

Size

Worm wheel reduction gearboxes are made in many styles and sizes. The size of the gearbox is referred to as the "Frame Size". The frame size is the distance measured between the centre lines of the input and output shafts in mm. This size increases with the capacity of the gearbox and is often shown on the side of the main housing as a number in raised lettering. E.G., 60.

The standard frame sizes offered in our range of single start boxes are:

40 " 50 " 60 " 70 " 80 " 100 " 120 " 135 " 155 " 175 " 200 " 250

Gear Ratio.

Once the frame size has been established you must then select the gear ratio. Gear ratios offered in our range of single reduction boxes are:

5:1 " 10:1 " 15:1 " 20:1 " 25:1 " 30:1 " 40:1 " 50:1 " 60:1

These ratios are available in all frame sizes.

Larger ratios are available in the more advanced models.

Input Shaft Speed

General input shaft speed is 600-1500 RPM. The maximum is 1800 RPM.

The minimum speed of 300 RPM is shown on most charts does not illustrate the lowest recommended input speed. The unit will run efficiently at speeds down to and below 100 rpm with greatly reduced horsepower capacity. Low speeds may also affect the efficiency of lubrication.

Worm boxes are generally driven by a drive motor but can also be used with a hand drive device when required.

Output Shaft Speed.

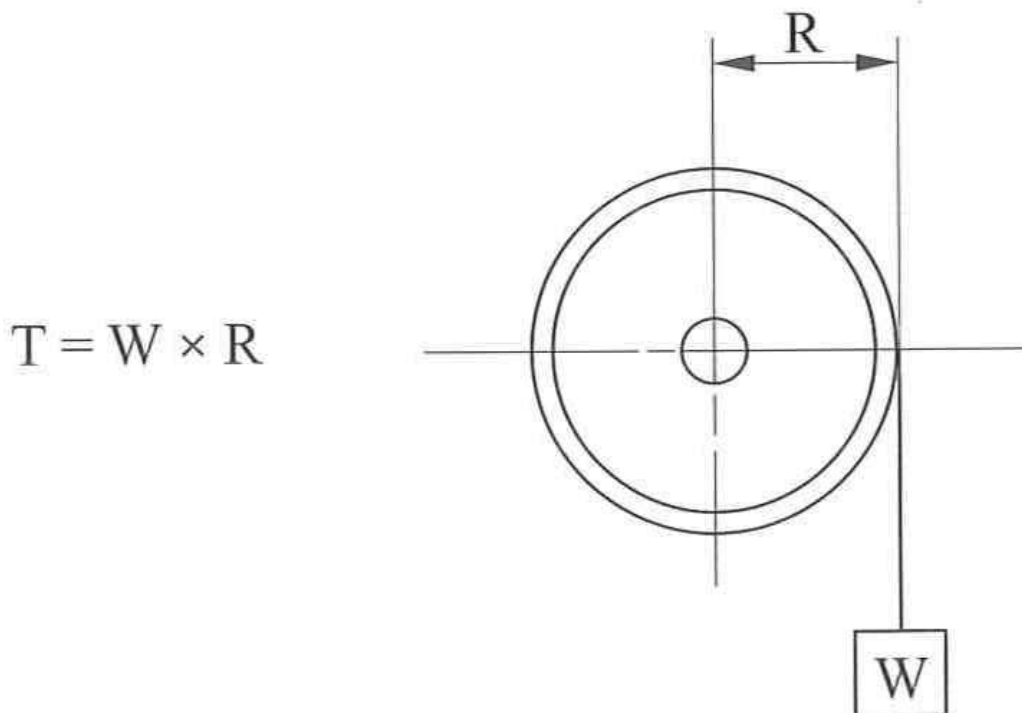
Depends on the input shaft speed and the reduction ratio.

Torque

The transmission torque of the reducer depends upon the force that causes the output shaft to rotate and the rotary radius. See diagram below.

Note:

Maximum momentary (starting) torque is limited to 25% of rated capacity.



Efficiency

Efficiency calculations may be made by dividing HP OUTPUT by HP INPUT.

When only the output torque and input horsepower is known, the output torque may be converted to HP by the following:

HP Output = Output Torque x RPM Output divided by 63,025

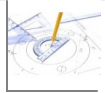
Thermal Capacity

The thermal capacity of the Aline unit = the maximum capacity that it can operate at a temp not exceeding 80 deg C. Operation over this temp will require additional cooling provisions.

A run in period of approx. 50 hours is normally required for worm type reducers.

Lubrication.

The reducer should be filled with the appropriate oil to the centre of the oil gauge before putting into service.



Excessive oil levels result in higher operating temperatures and are as undesirable as using too little oil.

After approximately 85 hours of operation the reducer must be drained, flushed thoroughly with light oil and refilled with fresh recommended oil.

This flushing and refilling should be repeated every 2500 hours.

We use and recommend SAE 320 oil for most normal applications.

Overhung Load

Shaft or housing damage can be caused by excessive overhung load on the output shaft. The O.H.L should be included in calculations for new applications.

OVERHUNG LOAD FACTOR	
Type of Drive	O.H.L factor
Sprocket	1.00
Gear	1.25
V-Belt	1.50
Flat Belt	2.50

LOAD CLASSIFICATIONS	
Uniform Load	Free From Shock
Conveyors	Uniform Loads
Pumps	Centrifugal, Rotary
Compressors	Vane Type
Mixers	Constant Density
Moderate Shock	Occasional Light
Conveyors	Not Uniform feed
Pumps	Reciprocating
Mixers	Variable Density
Heavy Shock Load	Constant Shock
Conveyors	Not uniform feed
Hammer Mills	
Crushers	

SERVICE FACTORS				
Prime Mover	Duration of Service Per Day. (1)	Driven Machine Load Classification		
		Uniform	Medium Shock	Heavy Shock
Electric Motor	Intermittent 2 hrs	0.9	1.00	1.25
	Occasional 1/2 hr	0.8	0.9	1.00
	10 hrs	1.00	1.25	1.50
	24 hrs	1.25	1.50	1.75
Electric Motor With Frequent Starts & Stops	Intermittent 2 hrs	1.00	1.25	1.50
	Occasional 1/2 hr	0.9	1.00	1.25
	10 hrs	1.25	1.50	1.75
	24 hrs	1.50	1.75	2.00
Multi Cylinder Combustion Engine.	Intermittent 2 hrs	1.00	1.25	1.50
	Occasional 1/2 hr	0.90	1.00	1.25
	10 hrs	1.25	1.50	1.75
	24 hrs	1.50	1.75	2.00
Single Cylinder Combustion Engine	Intermittent 2 hrs	1.25	1.15	1.75
	Occasional 1/2 hr	1.00	1.25	1.50
	10 hr	1.50	1.75	2.00
	24 hrs	1.75	2.00	2.25

Note: Intermittent & occasional service refers to TOTAL operating period per day.
"Frequent Start & Stops" refers to more than 10 starts per hr

When Ordering a Worm Wheel Reduction Gearbox please specify the following:

1. Worm frame size.
2. Gear ratio.
3. Input motor information. Power, speed (RPM), type. If flange mount electric motors please specify the mount details/dimensions required.
4. Mounting arrangement required.
5. Output shaft arrangement.

Horsepower and Torque Rating Tables.

These figures are indicative for standard worm drive boxes like FCA or FCWA models and reflect conditions under perfect drive. Refer to the factor chart for various applications.

Based on a Duty Cycle of 8-10 Hours per day continuous.

Torque is in kg-Metres

OHL is Overhung Load in Kgs.

SIZE	RATIO	10:1					
	INPUT RPM	1800	1500	1200	900	600	300
50	INPUT HP	1.23	1.16	1.01	.86	.58	.31
	OUTPUT HP	.99	.93	.84	.67	.045	.23
	OUTPUT TORQUE kg-m	3.95	4.47	4.80	5.33	5.43	5.43
	OUTPUT OHL kg	90	100	110	120	140	200
60	INPUT HP	2.52	2.01	1.76	1.52	1.19	.64
	OUTPUT HP	1.78	1.63	1.41	1.20	.92	.48
	OUTPUT TORQUE kg-m	7.09	7.82	8.45	9.62	11	11.6
	OUTPUT OHL kg	90	100	110	120	140	200
70	INPUT HP	3.27	3.01	2.68	2.24	1.75	1.15
	OUTPUT HP	2.69	2.45	2.16	1.79	1.36	.86
	OUTPUT TORQUE kg-M	10.7	11.7	12.9	14.3	16.3	20.7
	OUTPUT OHL kg	140	150	160	170	200	300
80	INPUT HP	4.50	4.36	3.81	3.20	2.57	1.56
	OUTPUT HP	3.27	3.55	3.08	2.56	2.01	1.18
	OUTPUT TORQUE kg-m	14.8	17.0	18.4	20.5	24.0	28.3
	OUTPUT OHL kg	160	180	200	230	270	400
100	INPUT HP	6.50	5.98	5.26	4.49	3.51	2.27
	OUTPUT HP	5.37	4.90	4.30	3.64	2.78	1.74
	OUTPUT TORQUE kg-m	21.4	23.4	25.7	29.0	33.2	41.5
	OUTPUT OHL kg	190	200	220	240	300	440
120	INPUT HP	10.7	10.1	8.58	7.40	5.75	3.74
	OUTPUT HP	8.89	8.35	7.03	6.01	4.60	2.89
	OUTPUT TORQUE kg-m	35.4	39.9	42.0	47.9	55.0	69.1
	OUTPUT OHL kg	250	260	280	300	350	520
135	INPUT HP	17.7	16.5	14.2	12.0	9.54	6.20
	OUTPUT HP	15.0	13.9	11.9	10.0	7.83	4.94
	OUTPUT TORQUE kg-m	59.7	66.4	71.0	79.6	93.5	117
	OUTPUT OHL kg	330	340	360	440	500	800

SIZE	RATIO	20:1					
	INPUT RPM	1800	1500	1200	900	600	300
50	INPUT HP	0.71	0.63	0.55	0.48	0.35	0.17
	OUTPUT HP	0.50	0.44	0.38	0.32	0.23	0.11
	OUTPUT TORQUE kg-m	4.00	4.25	4.58	5.07	5.43	5.43
	OUTPUT OHL kg	130	140	155	170	200	200
60	INPUT HP	1.18	1.06	0.95	0.79	0.64	0.37
	OUTPUT HP	0.89	0.79	0.69	0.57	0.44	0.24
	OUTPUT TORQUE kg-m	7.09	7.58	8.20	9.00	10.4	11.6
	OUTPUT OHL kg	130	140	155	170	200	200
70	INPUT HP	1.83	1.66	1.44	1.17	0.86	0.50
	OUTPUT HP	1.42	1.27	1.09	0.87	0.62	0.34
	OUTPUT TORQUE kg-M	11.3	12.1	13.0	13.9	14.7	16.0
	OUTPUT OHL kg	210	230	250	270	300	300
80	INPUT HP	2.48	2.25	1.97	1.65	1.32	0.87
	OUTPUT HP	1.91	1.71	1.47	1.21	0.93	0.57
	OUTPUT TORQUE kg-m	15.2	16.3	17.5	19.2	22.3	27.3
	OUTPUT OHL kg	270	280	320	360	400	400
100	INPUT HP	4.42	3.99	3.48	2.92	2.31	1.51
	OUTPUT HP	3.52	3.14	2.71	2.23	1.73	1.06
	OUTPUT TORQUE kg-m	28.0	30.0	32.3	35.5	41.3	50.0
	OUTPUT OHL kg	250	270	300	340	450	450
120	INPUT HP	6.85	6.31	5.53	4.68	3.70	1.95
	OUTPUT HP	5.40	4.92	4.26	3.53	2.71	1.68
	OUTPUT TORQUE kg-m	43.0	47.0	50.9	56.2	64.6	80.0
	OUTPUT OHL kg	370	390	420	460	520	520
135	INPUT HP	10.3	9.26	8.14	6.79	5.36	3.47
	OUTPUT HP	8.39	7.47	6.48	5.33	4.13	2.54
	OUTPUT TORQUE kg-m	66.8	71.3	77.4	84.9	98.6	121
	OUTPUT OHL kg	570	600	660	760	810	810

SIZE	RATIO	30:1					
	INPUT RPM	1800	1500	1200	900	600	300
50	INPUT HP	0.62	0.55	0.45	0.36	0.25	0.13
	OUTPUT HP	0.42	0.37	0.30	0.23	0.16	0.08
	OUTPUT TORQUE kg-m	5.02	5.31	5.43	5.49	5.43	5.43
	OUTPUT OHL kg	150	170	180	200	200	200
60	INPUT HP	1.07	0.98	0.87	0.74	0.52	0.28
	OUTPUT HP	0.75	0.67	0.58	0.48	0.32	0.16
	OUTPUT TORQUE kg-m	9.0	9.60	10.3	11.15	11.6	11.6
	OUTPUT OHL kg	150	170	180	200	200	200
70	INPUT HP	1.56	1.41	1.26	1.06	0.85	0.43
	OUTPUT HP	1.12	0.98	0.85	0.71	0.53	0.29
	OUTPUT TORQUE kg-M	13.4	14.2	15.2	17.0	19.0	20.5
	OUTPUT OHL kg	240	260	280	300	300	300
80	INPUT HP	2.09	1.90	1.65	1.43	1.14	0.75
	OUTPUT HP	1.51	1.34	1.14	0.96	0.73	0.44
	OUTPUT TORQUE kg-m	18.1	19.2	20.5	22.9	26.2	31.4
	OUTPUT OHL kg	320	340	360	400	400	400
100	INPUT HP	3.69	3.33	2.93	2.47	1.97	1.15
	OUTPUT HP	2.70	2.40	2.06	1.71	1.30	0.70
	OUTPUT TORQUE kg-m	32.2	34.4	36.9	40.8	46.8	50.0
	OUTPUT OHL kg	320	340	370	450	450	450
120	INPUT HP	6.27	5.68	5.00	4.18	3.39	1.89
	OUTPUT HP	4.64	4.15	3.59	2.92	2.27	1.17
	OUTPUT TORQUE kg-m	55.4	59.4	64.3	69.8	81.4	84.0
	OUTPUT OHL kg	450	470	500	520	520	520
135	INPUT HP	8.76	7.87	6.86	5.82	4.64	3.02
	OUTPUT HP	6.65	5.90	5.07	4.20	3.23	1.96
	OUTPUT TORQUE kg-m	79.4	84.5	90.8	100	116	140
	OUTPUT OHL kg	680	710	710	810	810	810

SIZE	RATIO	40:1					
	INPUT RPM	1800	1500	1200	900	600	300
50	INPUT HP	0.47	0.43	0.39	0.32	0.22	0.11
	OUTPUT HP	.028	0.25	0.22	0.17	0.12	0.06
	OUTPUT TORQUE kg-m	4.53	4.82	5.41	5.43	5.43	5.43
	OUTPUT OHL kg	170	180	200	200	200	200
60	INPUT HP	0.78	0.71	0.64	0.54	0.43	0.24
	OUTPUT HP	0.51	0.45	0.39	0.32	0.24	0.12
	OUTPUT TORQUE kg-m	8.06	8.60	9.20	10.3	11.5	11.6
	OUTPUT OHL kg	170	180	200	200	200	200
70	INPUT HP	1.18	1.07	0.94	0.77	0.56	0.33
	OUTPUT HP	0.81	0.72	0.62	0.49	0.34	0.18
	OUTPUT TORQUE kg-M	12.9	13.7	14.8	15.5	16.2	17.4
	OUTPUT OHL kg	270	280	300	300	300	300
80	INPUT HP	1.60	1.47	1.29	1.10	0.86	0.54
	OUTPUT HP	1.08	0.96	0.83	0.68	0.52	0.30
	OUTPUT TORQUE kg-m	17.2	18.3	19.7	21.8	24.7	28.0
	OUTPUT OHL kg	340	360	400	400	400	400
100	INPUT HP	2.78	2.52	2.20	1.88	1.48	0.89
	OUTPUT HP	2.00	1.77	1.52	1.26	0.96	0.52
	OUTPUT TORQUE kg-m	31.8	33.8	36.3	40.2	45.7	50.0
	OUTPUT OHL kg	350	380	450	450	450	450
120	INPUT HP	4.48	4.07	3.56	3.03	2.44	1.57
	OUTPUT HP	3.13	2.79	2.99	1.97	1.51	0.88
	OUTPUT TORQUE kg-m	49.8	53.2	57.1	62.8	72.2	84.0
	OUTPUT OHL kg	500	500	520	520	520	520
135	INPUT HP	6.44	5.74	5.06	4.38	3.40	2.18
	OUTPUT HP	4.79	4.22	3.64	3.06	2.31	1.36
	OUTPUT TORQUE kg-m	76.3	80.7	86.9	97.4	110	130
	OUTPUT OHL kg	710	770	810	810	810	810

SIZE	RATIO	50:1					
	INPUT RPM	1800	1500	1200	900	600	300
50	INPUT HP	0.39	0.37	0.31	0.26	0.18	0.09
	OUTPUT HP	0.23	0.21	0.17	0.14	0.09	0.04
	OUTPUT TORQUE kg-m	4.62	4.91	5.19	5.43	5.43	5.43
	OUTPUT OHL kg	200	200	206	200	200	200
60	INPUT HP	0.61	0.55	0.51	0.43	0.35	0.20
	OUTPUT HP	0.36	0.32	0.28	0.23	0.17	0.09
	OUTPUT TORQUE kg-m	7.10	7.60	8.30	9.10	10.2	11.6
	OUTPUT OHL kg	180	200	200	200	200	200
70	INPUT HP	0.87	0.79	0.71	0.61	0.50	0.30
	OUTPUT HP	0.52	0.46	0.40	0.33	0.25	0.15
	OUTPUT TORQUE kg-M	10.4	11.0	11.9	13.1	14.8	17.4
	OUTPUT OHL kg	280	300	300	300	300	300
80	INPUT HP	1.28	1.17	1.05	0.88	0.72	0.45
	OUTPUT HP	0.84	0.75	0.65	0.53	0.40	0.23
	OUTPUT TORQUE kg-m	16.8	17.8	19.3	21.2	23.9	28.0
	OUTPUT OHL kg	360	400	400	400	400	400
100	INPUT HP	2.78	2.52	2.20	1.88	1.48	0.89
	OUTPUT HP	2.00	1.77	1.52	1.26	0.96	0.52
	OUTPUT TORQUE kg-m	31.8	33.8	36.3	40.2	45.7	50.0
	OUTPUT OHL kg	350	380	450	450	450	450
120	INPUT HP	3.64	3.28	2.90	2.47	1.91	1.19
	OUTPUT HP	2.61	2.31	2.01	1.66	1.24	0.70
	OUTPUT TORQUE kg-m	52.0	55.2	60.1	66.0	74.2	84.0
	OUTPUT OHL kg	500	520	520	520	520	520
135	INPUT HP	4.84	4.41	3.90	3.34	2.61	1.69
	OUTPUT HP	3.52	3.16	2.73	2.26	1.71	1.01
	OUTPUT TORQUE kg-m	70.0	75.5	81.4	90.1	102	120
	OUTPUT OHL kg	770	810	810	810	810	810

SIZE	RATIO	60:1					
	INPUT RPM	1800	1500	1200	900	600	300
50	INPUT HP	0.33	0.30	0.26	0.23	0.15	0.07
	OUTPUT HP	0.18	0.16	0.13	0.11	0.07	0.03
	OUTPUT TORQUE kg-m	4.31	4.61	4.83	5.41	5.43	5.43
	OUTPUT OHL kg	200	200	200	200	200	200
60	INPUT HP	0.51	0.47	0.42	0.35	0.29	0.19
	OUTPUT HP	0.29	0.26	0.22	0.18	0.14	0.08
	OUTPUT TORQUE kg-m	6.90	7.40	8.00	8.70	9.70	11.3
	OUTPUT OHL kg	200	200	200	200	200	200
70	INPUT HP	0.75	0.68	0.63	0.51	0.43	0.28
	OUTPUT HP	0.44	0.39	0.34	0.27	0.21	0.12
	OUTPUT TORQUE kg-M	10.4	11.1	12.0	13.1	14.7	17.1
	OUTPUT OHL kg	300	300	300	300	300	300
80	INPUT HP	1.03	0.95	0.85	0.73	0.58	0.39
	OUTPUT HP	0.62	0.55	0.48	0.39	0.29	0.17
	OUTPUT TORQUE kg-m	14.9	15.7	17.2	18.7	21.0	24.6
	OUTPUT OHL kg	400	400	400	400	400	400
100	INPUT HP	1.87	1.70	1.53	1.28	1.02	0.65
	OUTPUT HP	1.26	1.12	0.97	0.80	0.59	0.34
	OUTPUT TORQUE kg-m	30.0	32.0	34.6	38.0	42.4	49.3
	OUTPUT OHL kg	400	450	450	450	450	450
120	INPUT HP	2.89	2.65	2.36	2.04	1.45	0.96
	OUTPUT HP	1.98	1.76	1.53	1.26	0.94	0.56
	OUTPUT TORQUE kg-m	47.4	50.4	54.9	60.1	67.6	80.0
	OUTPUT OHL kg	520	520	520	520	520	520
135	INPUT HP	3.65	3.58	3.16	2.74	2.11	1.37
	OUTPUT HP	2.55	2.40	2.12	1.76	1.32	0.77
	OUTPUT TORQUE kg-m	60.8	70.0	76.0	83.9	94.4	111
	OUTPUT OHL kg	810	810	810	810	810	810

FCA

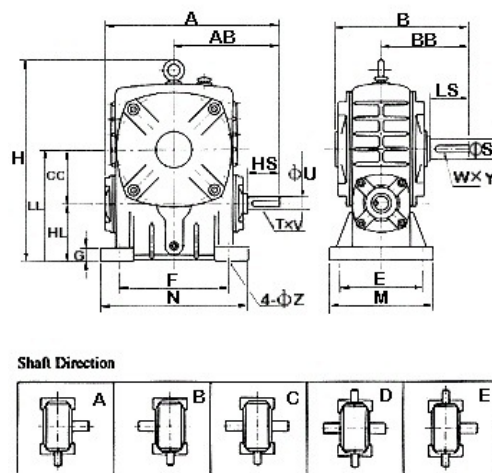
GEARBOXES / WORM WHEEL SPEED REDUCTION BOXES / FCA

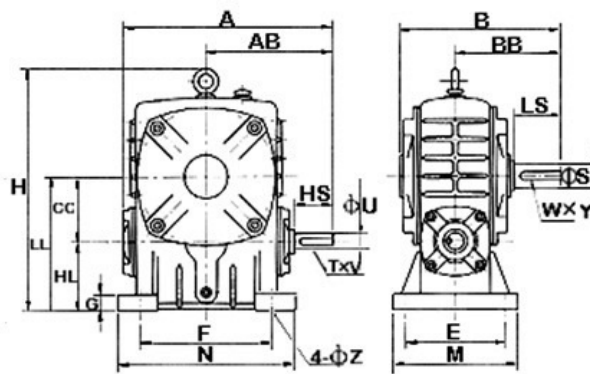


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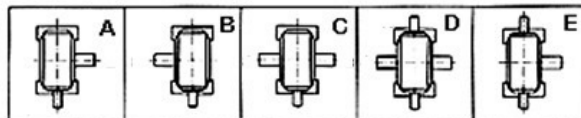
FCA series.

A universal worm wheel reduction gearbox with solid input/output shafts and fixed position mounting plate.





Shaft Direction



Size	Ratio	A	AB	B	BB	CC	E	F	H	HL	LL	M	N
40	5:1 10:1 15:1 20:1 25:1 30:1 40:1 50:1 60:1	142	85	112	74	40	70	80	135	40	80	90	100
50		175	105	145	95	50	95	110	180	50	100	120	140
60		195	120	165	110	60	105	120	210	60	120	130	150
70		234	140	195	130	70	115	150	243	70	140	150	190
80		264	160	210	140	80	135	180	273	80	160	170	220
100		300	178	245	163	100	155	220	340	100	200	190	260
120		385	230	285	185	120	180	260	405	120	240	230	320
135		435	260	320	210	135	200	290	455	135	270	250	350
155		507	300	387	252	155	220	320	490	135	290	280	390
175		550	325	407	262	175	250	350	565	160	335	310	430
200	60:1	594	350	480	305	200	290	390	625	175	375	360	480
250		710	420	560	360	250	380	480	730	200	450	460	560

Size	G	Z	Input Shaf			Output Shaft			Weight Kg	Oil lt
			HS	U	T×V	LS	S	W×Y		
40	12	10	25	12	4×2.5	28	14	5×3	3.8	0.14
50	15	11	30	12	4×2.5	40	17	5×3	7	0.17
60	20	11	40	15	5×3	50	22	7×4	10.5	0.23
70	20	15	40	18	5×3	60	28	7×4	14.5	0.5
80	20	15	50	22	7×4	65	32	10×4.5	22	0.7
100	25	15	50	25	7×4	75	38	10×4.5	36	1.6
120	30	18	65	30	7×4	85	45	12×4.5	63	3
135	30	18	75	35	10×4.5	95	55	15×5	80	3.5
155	38	20	85	40	10×4.5	110	60	15×5	114	3.6
175	40	20	85	45	12×4.5	110	65	18×6	150	4.5
200	42	22	95	50	12×4.5	125	70	20×7	218	6.4
250	42	27	110	60	15×5	155	90	24×8	363	8.5

FCWA - FCWS

GEARBOXES / WORM WHEEL SPEED REDUCTION BOXES / FCWA - FCWS

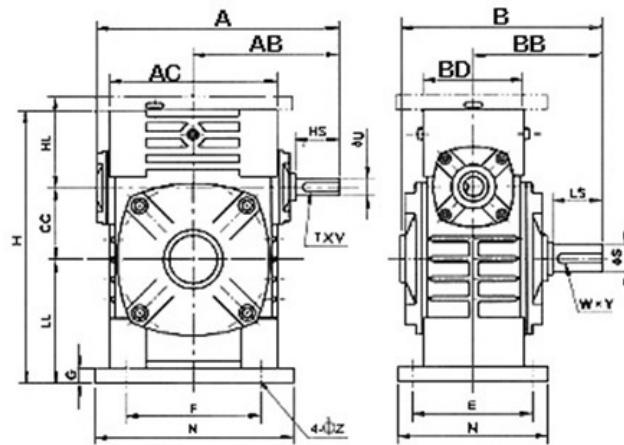
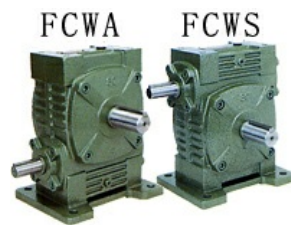


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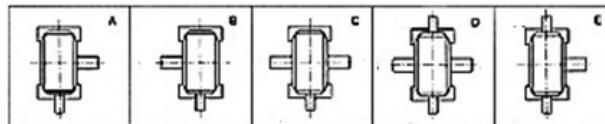
FCWA / FCWS series.

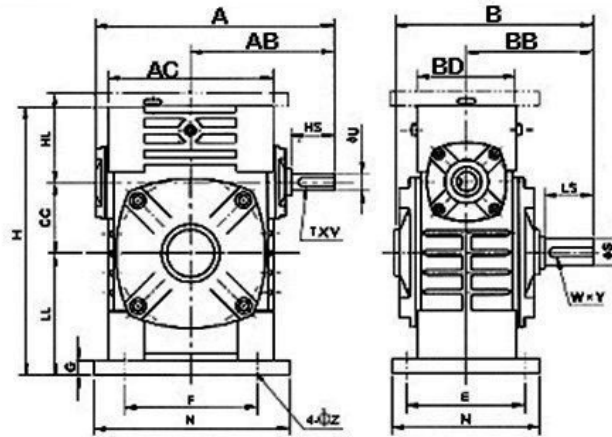
A universal worm wheel reduction gearbox with solid input/output shafts and bolt on mounting plate.

The gearbox can be inverted to give a higher input location (FCWS). Mounting plates can be removed for replacement if damaged or the gearbox can be bolted directly into position without the base plate.

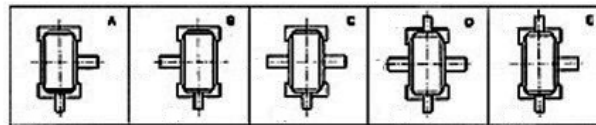


Shaft Direction





Shaft Direction



Size	Ratio	A	AB	AC	B	BB	BD	CC	E	F	H	HL	LL	M
40	5:1 10:1 15:1 20:1 25:1 30:1 40:1 50:1 60:1	152	90	96	122	78	60	40	80	110	135	45	60	100
50		175	105	115	145	95	70	50	95	110	165	50	80	120
60		195	120	126	165	110	76	60	105	120	195	60	93	130
70		234	140	155	195	130	84	70	115	150	233	73	108	150
80		264	160	170	210	140	100	80	135	180	268	83	123	170
100		300	178	204	245	163	114	100	155	220	330	100	150	190
120		385	230	260	285	185	128	120	180	260	395	120	180	230
135		435	260	296	320	210	150	135	200	290	455	135	215	250
155		494	300	330	387	252	170	155	220	320	493	135	235	280
175		548	325	370	407	262	186	175	250	350	558	160	260	310
200		594	350	420	480	305	200	200	290	350	620	175	290	360

Size	N	G	Z	Input Shaft			Output Shaft			Weight Kg
				HS	U	TxV	LS	S	WxY	
40	130	10	9	25	12	4x2.5	28	14	5x3	4
50	140	15	11	30	12	4x2.5	40	17	5x3	7
60	150	18	11	40	15	5x3	50	22	7x4	11
70	190	18	15	40	18	5x3	60	28	7x4	15
80	220	18	15	50	22	7x4	65	32	10x4.5	23
100	270	20	15	50	25	7x4	75	38	10x4.5	38
120	320	25	18	65	30	7x4	85	45	12x4.5	65
135	350	30	18	75	35	10x4.5	95	55	15x5	84
155	380	32	20	85	40	10x4.5	110	60	15x5	114
175	410	37	20	85	45	12x4.5	110	65	18x6	150
200	435	45	22	95	50	12x4.5	125	70	20x7	218

FCWDA - FCWDS

GEARBOXES / WORM WHEEL SPEED REDUCTION BOXES / FCWDA - FCWDS



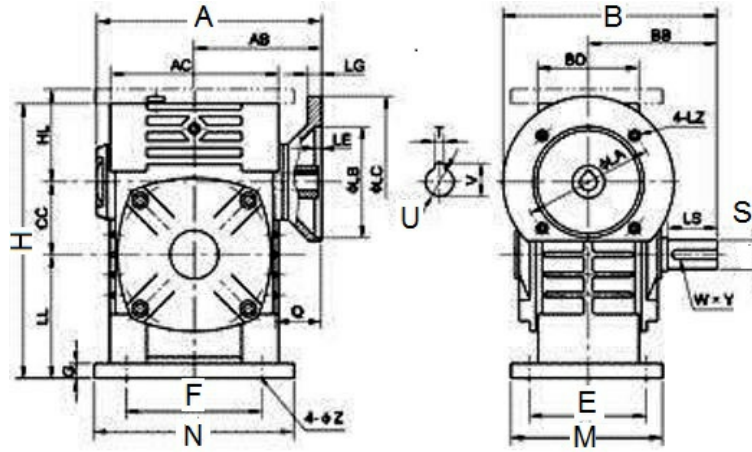
Aline Trading Pty Ltd

FCWDA / FCWDS series.

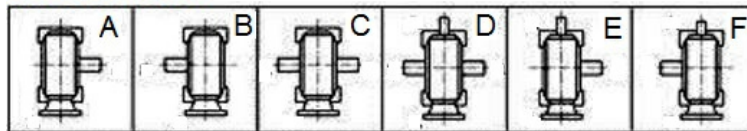
A universal worm wheel reduction gearbox with hollow flanged input/ solid output shafts and bolt on mounting plate.

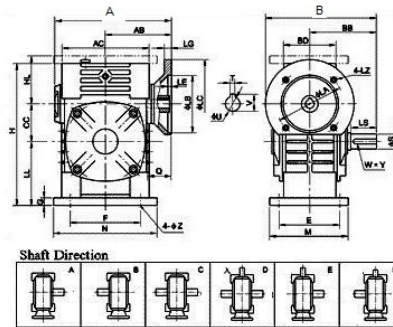
The gearbox can be inverted to give a higher input location (FCWDS). Mounting plates can be removed for replacement if damaged or the gearbox can be bolted directly into position without the base plate.

FCWDA FCWDS



Shaft Direction





Size	Inpower (Kw)	Ratio	A	AB	AC	B	BB	BD	CC	E	F	G	H	HL	LL	M	N	Z
40	0.12	5:1 10:1 15:1 20:1 25:1 30:1 40:1 50:1 60:1	138	76	96	148		60	40	80	110	10	135	45	60	100	130	9
50	0.18		155	84	115	165		70	50	95	110	15	165	50	80	120	140	11
60	0.37		170	92	126	190		76	60	105	120	18	195	60	93	130	150	11
70	0.37		206	110	155	210	130	84	70	115	150	18	233	73	108	150	190	15
	0.75					230												
80	0.75		232	128	170	240	140	100	80	135	180	18	268	83	123	170	220	15
	1.5																	
100	1.5		266	145	204	263	163	114	100	155	20	20	330	100	150	190	270	15
	2.2		270	149														
120	2.2		340	182	260	310	185	128	120	180	260	25	395	120	180	230	320	18
	3.0																	
135	3.0		375	200	296	335	210	150	135	200	290	30	455	135	215	250	350	18
	4.0																	
155	5.5		442	236	330	402		170	155	220	320	32	493	135	235	280	380	20
175	7.5		465	240	240	412		186	175	250	350	37	558	160	260	310	410	20

Size	Flange						Input Hole			Output Shaft			Weight Kg
	LA	LB	LC	LE	LG	LZ	Q	U	T×Y	LS	S	W×Y	
40	115	95	140	5	10	M8	25	11	4×12.8	28	14	5×3	4.4
50	115	95	140	5	10	M8	25	11	4×12.8	40	17	5×3	7
60	130	110	160	5	12	M8	35	14	5×16.3	50	22	7×4	11
70	130	110	160	5	12	M8	35	14	5×16.3	60	28	7×4	15
	165	130	200		15	M10	45	19	6×21.8				
80	165	130	200	5	15	M10	45	19	6×21.8	65	32	10×4.5	23
							55	24	8×27.3				
100	165	130	200	5	12	M10	52	24	8×27.3	75	38	10×4.5	38
	215	180	250		15	M12	62	28	8×31.3				
120	215	180	250	5	18	M12	65	28	8×31.3	85	45	12×4.5	65
135	215	180	250	5	18	M12	65	28	8×31.3	95	55	15×5	84
155	265	230	300	5	20	M12	85	38	10×41.3	110	60	15×5	120
175	265	230	300	6	18	M12	85	38	10×41.3	110	65	18×6	160

FCDKS

GEARBOXES / WORM WHEEL SPEED REDUCTION BOXES / FCDKS

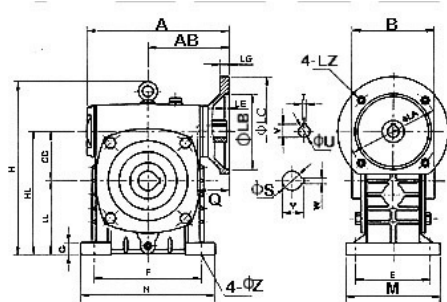


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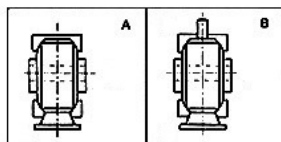
FCDKS series.

A universal worm wheel reduction gearbox with hollow flanged input and hollow output shafts and fixed mounting plate.





Shaft Direction



Size	Input Kw	Ratio	A	AB	B	CC	E	F	H	HL	LL	M	N	G	Z
50	0.18	5:1 10:1 15:1 20:1 25:1 30:1 40:1 50:1 60:1	155	84	107	50	95	110	180	130	80	120	140	15	11
60	0.37		170	92	117	60	105	120	205	150	90	130	150	20	11
70	0.37		206	110	131	70	115	150	235	175	105	150	190	25	15
	0.75														
80	0.75		232	128	144	80	135	180	265	200	120	170	220	25	15
	1.5														
100	1.5		266	145	175	100	155	220	327	250	150	190	260	25	15
	2.2		270	149											
120	2.2		340	182	200	120	180	260	388	300	180	230	320	30	18
	3.0														
135	3.0	60:1	375	200	212	135	200	290	445	350	215	250	350	30	18
	4.0														
155	5.5		442	236	312	155	220	320	483	390	235	280	390	38	20
175	7.5		465	240	334	175	250	350	550	435	266	310	430	40	20

Size	Flange						Input Hole			Output Hole		Weight Kg
	LA	LB	LC	LE	LG	LZ	Q	U	T×V	S	W×Y	
50	115	95	140	5	10	M8	25	11	4×12.8	20	6×22.8	8
60	130	110	160	5	12	M8	35	14	5×16.3	25	8×28.3	10.5
70	130	110	160	5	12	M8	35	14	5×16.3	30	8×33.3	17
	165	130	200		15	M10	45	19	6×21.8			
80	165	130	200	5	15	M10	45	19	6×21.8	35	10×38.3	26
							55	24	8×27.3			
100	165	130	200	5	12	M10	52	24	8×27.3	40	12×43.3	38
	215	180	250		15	M12	62	28	8×31.3			
120	215	180	250	5	18	M12	65	28	8×31.3	45	14×48.8	60
135	215	180	250	5	18	M12	65	28	8×31.3	60	18×64.4	85
155	265	230	300	5	20	M12	85	38	10×41.3	70	20×74.9	120
175	265	230	300	6	18	M12	85	38	10×41.3	80	22×85.4	150

FCWKA - FCWKS

GEARBOXES / WORM WHEEL SPEED REDUCTION BOXES / FCWKA - FCWKS

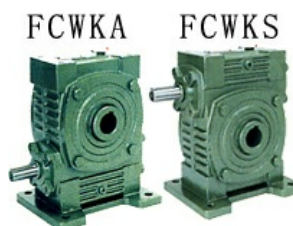


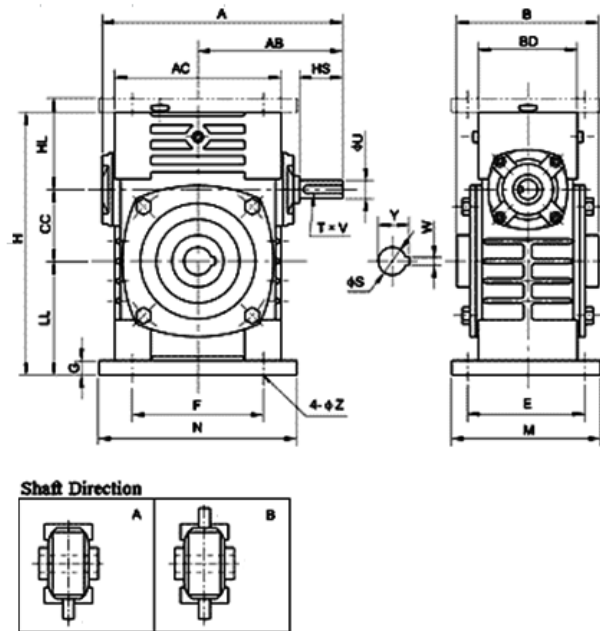
Aline Trading Pty Ltd

FCWKA / FCWKS series.

A universal worm wheel reduction gearbox with hollow flanged input and hollow output shafts and bolt on mounting plate.

The gearbox can be inverted to give a higher input location (FCWKS). Mounting plates can be removed for replacement if damaged or the gearbox can be bolted directly into position without the base plate.





Size	Ratio	A	AB	AC	B	BD	CC	E	F	H	HL	LL	M
40	5:1 10:1 15:1 20:1 25:1 30:1 40:1 50:1 60:1	152	90	96	96	60	40	80	110	135	45	60	100
50		175	105	115	107	70	50	95	110	165	50	80	120
60		195	120	126	117	76	60	105	120	195	60	93	130
70		234	140	155	131	84	70	115	150	233	73	108	150
80		264	160	170	144	100	80	135	180	268	83	123	170
100		300	178	204	175	114	100	155	220	330	100	150	190
120		385	230	260	200	128	120	180	260	395	120	180	230
135		435	260	296	212	150	135	200	290	455	135	215	250
155		494	300	330	312	160	155	220	320	493	135	235	280
175		548	325	370	334	186	175	250	350	558	160	260	310
200		594	350	420	346	200	200	290	350	620	175	290	360

Size	N	G	Z	Input Shaft			Output Hole		Weight Kg
				HS	U	T×V	S	W×Y	
40	130	10	9	25	12	4×2.5	20	6×22.8	4.5
50	140	15	11	30	12	4×2.5	20	6×22.8	7
60	150	18	11	40	15	5×3	25	8×28.3	11
70	190	18	15	40	18	5×3	30	8×33.3	14
80	220	18	15	50	22	7×4	35	10×38.3	22
100	270	20	15	50	25	7×4	40	12×43.3	36
120	320	25	18	65	30	7×4	45	14×48.8	63
135	350	30	18	75	35	10×4.5	60	18×64.4	80
155	380	32	20	85	40	10×4.5	70	20×74.9	114
175	410	37	20	85	45	12×4.5	80	22×85.4	150
200	435	45	22	95	50	12×4.5	85	22×90.4	218

SPEED MULTIPLIER GEARBOXES

GEARBOXES / SPEED MULTIPLIER GEARBOXES



AM10 Speed Multiplier Gearboxes.

The primary purpose of these gearboxes is to increase the output speed of your tractors 540 r.p.m P.T.O to enable you to drive equipment like pumps, sprays, generators etc., that need to be run at higher speeds than the standard 540 rpm produced by the tractor.

Note: Direction of rotation is reversed.

Input shafts = 1 3/8 6 Spline.

Output shafts = 35mm with 10mm keyway.

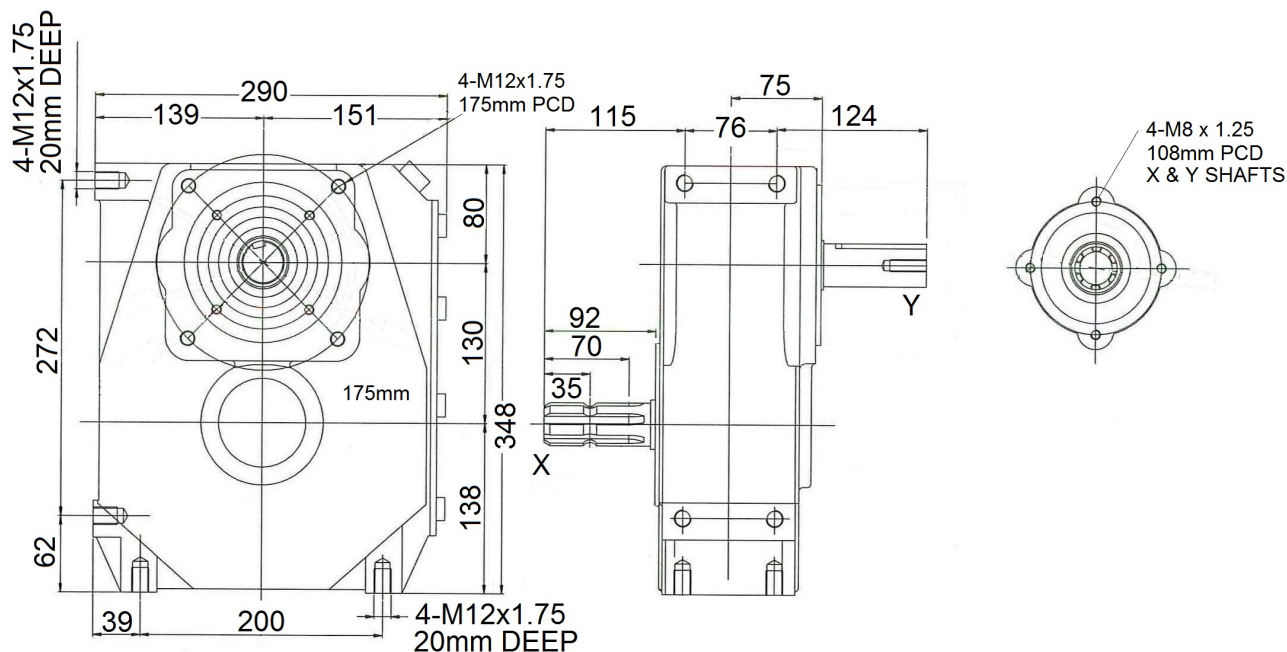
Oil = SAE90 Aprox 3.4 lt (Shipped without oil)

Unit weight = Aprox 41Kg

These boxes can be run in reverse to reduce speeds however the rating of the boxes will be greatly reduced. Please see table below for details.

SPEED MULTIPLIER							
PART No	RATIO	INPUT				OUTPUT	
		R.P.M	HP	KW	NM	R.P.M	NM
AL00412	1:1	540	85	62.5	1127	540	1112
AL00413	1:1.48	540	90	66	1193	799	796
AL00414	1:2	540	90	66	1193	1080	589
AL00415	1:2.5	540	85	62.5	1127	1350	445
AL00416	1:3	540	85	62.5	1127	1620	370
AL00417	1:3.8	540	85	62.5	1127	2052	292
AL00418	1:5	540	80	58.8	1061	2700	209
AL00419	1:6	540	80	58.8	1061	3240	174
AL00420	1:7	540	65	47.8	862	3780	121





SPEED REDUCER							
PART No	RATIO	INPUT				OUTPUT	
		R.P.M	HP	KW	NM	R.P.M	NM
AL00413	1.48:1	540	60	44	795	364.8	1162
AL00414	2:1	540	48	35.2	636	270	1256
AL00415	2.5:1	540	35	25.7	464	216	1145
AL00416	3:1	540	30	22	398	180	1178
AL00417	3.8:1	540	23	16.9	305	142	1144
AL00418	5:1	540	18	13.2	239	108	1178
AL00419	6:1	540	14	10.2	185	90	1100
AL00420	7:1	540	12	8.8	159	77	1100

PTO SPEED REDUCER

GEARBOXES / PTO SPEED REDUCER



The AL00630 gearbox is designed to alter the output speed of your tractors PTO shaft. Its versatile design allows the gearbox to be used as either an increasing ratio or decreasing ratio gearbox to suit your needs.

As a decreasing ratio gearbox it will reduce 1000 rpm PTO shaft speed to 540 rpm allowing the use of equipment designed to operate at 540 rpm.

As an increasing ratio gearbox it will increase 540 rpm PTO shaft speed to 1000 rpm.

The AL00630 gearbox is assembled with 2 x internal splined sleeves. One 13/8"Z6 the other 13/4"Z20. These splined sleeves allow for direct coupling to your tractors PTO shaft as the input. The gearbox is also supplied with 2 x separate shafts with matching splines. These are easily assembled to give you the required output shaft.

Notes:

- Although designed for attachment to a tractors PTO shaft this gearbox can be used in other applications on agricultural machinery.
- A lug is supplied fitted to the base of the gearbox housing. This must be securely attached to your tractor by way of a chain or mounting plate to ensure the gearbox does not rotate during operation.
- Gearboxes are shipped without oil. Please fill to the level plug with EP90 gear oil before use.
- This gearbox can be used on tractors with 13/8"Z21 (1000rpm) PTO shafts with the addition of our splined adaptor AL00305 (13/8"Z21 internal - 13/4"Z20 external)

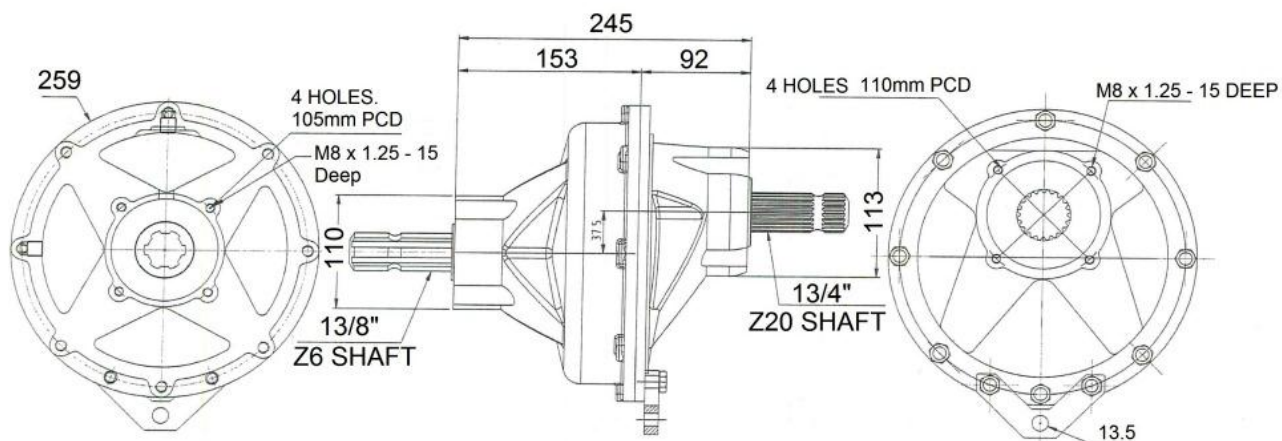
Part No	Model	Ratio	Input RPM	HP	KW	SHAFT TYPE			
						INPUT		OUTPUT	
AL00630	A1000D	1.88:1	540	105	78.3	13/4"Z20 SPLINED SLEEVE	13/4"Z20 SPLINED SHAFT	13/8"Z6 SPLINED SLEEVE	13/8"Z6 SPLINED SHAFT
			1000	120	89.5				
A1000I	1:1.88	1.85:1	540	120	89.5	13/8"Z6 SPLINED SLEEVE	13/4"Z20 SPLINED SLEEVE	13/4"Z20 SPLINED SHAFT	13/4"Z20 SPLINED SHAFT
			1000	120	89.5				

1.85:1 speed reducer with 13/8" Z6 splined output shaft.



1:1.85 speed increaser with 1 3/4" Z20 splined output shaft.

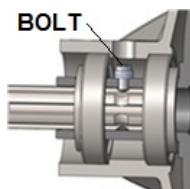




NOTE: When fitting splined shafts.

Take care when tightening the 4 x locking bolts inside the housing. These bolts fix the removable splined shafts in place.

- 1) Tighten bolts to avoid oil leaking during operation. (The bolts have a seal under their heads.)
- 2) Loosen the bolts only when fitting the shafts. DO NOT remove the bolts completely. If removed they may drop into the housing and cause a failure. The box must be disassembled to retrieve the bolts if this happens.



GEARBOX SHAFT COVER

GEARBOXES / GEARBOX SHAFT COVER



Aline Trading Pty Ltd

THINK SAFETY!

UN-GUARD ROTATING SHAFTS CAN RESULT IN SERIOUS INJURY OR DEATH.

The AL01900 is a multi-drill safety cover designed to fit a range of the Aline gearboxes.

On occasions a 2 or 3 shaft gear box will be used for an application that requires only 2 of the shafts to be used. Leaving the 3rd shaft un-guarded can result in serious injury or worse.

The AL01900 shaft cover is designed to be fitted over the unused shaft and attaches to the 4 safety cover mounting holes supplied on many of our gearboxes.

Gearbox Shaft Cover.	
P/No	AL01900
Fits	A8, FRA8, A9, A11 & A21 series.
Finish	Zinc Plated.
Weight	1.6 Kg



ROCK WINCHES

ROCK WINCHES



Aline Trading P/L offer a range of high quality yet economically priced hand, hand braked, 12V electric, 24V electric & hydraulic winches and accessories suitable for most applications. ROCK winches are sold around the world into agricultural, industrial, automotive and recreational markets.

ROCK winches feature quality materials, individual safety testing and compliance with industry standards. They also present design improvements such as hardened one piece gears, reinforced handle bushings, low operation torque requirements, improved corrosion resistance and present well when installed on your equipment.

HAND WINCHES

ROCK WINCHES / HAND WINCHES



Aline Trading's range of hand winches are among the best quality and value available on the market. They are made using proven designs and high quality materials.

Our hand winches are available in various configurations including, bare winches (without cable or strap), with steel cable or a webbing (seatbelt style) strap.

Typical uses include trailers, boat trailers, farm equipment, industrial equipment, recreational equipment and hundreds of other uses where a quality hand winch is required.

Complete winches are fitted with a safety hook but can be ordered with a bent rod or "S" style hook which is used on small boats (tinnies) etc. Custom builds are available. Min order qtys apply.

RHW450

ROCK WINCHES / HAND WINCHES / RHW450



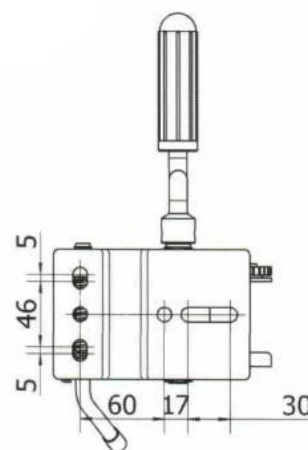
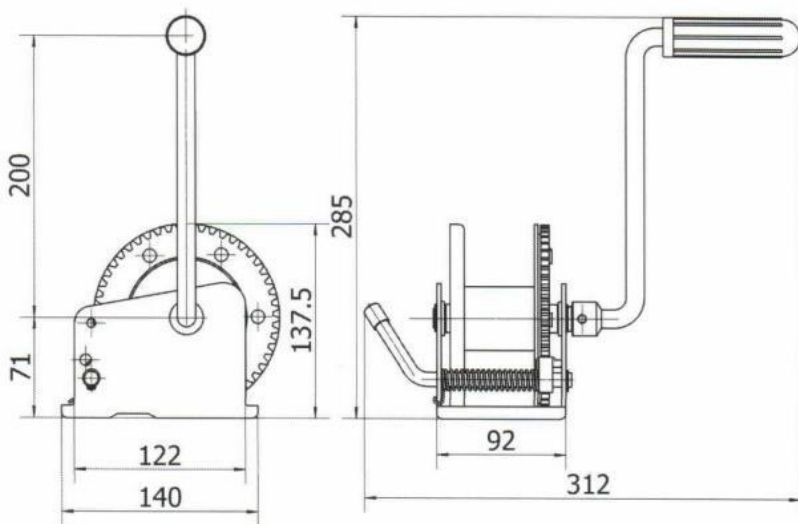
The **RHW450** is a compact yet strong general purpose hand winch and is ideal for use on Light applications where a higher winding speed is required.

Features:

- Compact design.
- Formed reinforcements in frame for added frame strength
- Very low torque required for ease of operation
- One way ratchet. Free spool in off direction.
- High quality one piece hardened steel gears.
- Superior finish quality for appearance and corrosion resistance.
- Extensively tested and QA inspected.

Note: The standard RHW450 is supplied without cable or strap. These are available is required. Please enquire.

Part No	AL02637
Model	RHW450
Capacity	450lb (204 Kg)
Gear ratio	1:1
Hub diameter	45mm
Spool diameter	133mm
Drum capacity.	4mm diameter x 10m long.
Weight	2.73 kg



RHW900

ROCK WINCHES / HAND WINCHES / RHW900



The RHW900 is a very compact yet strong general purpose hand winch and is ideal for use on small boat trailers, jet ski trailers and many other applications.

Features:

- Compact design.
- Formed reinforcements in frame for added frame strength
- Very low torque required for ease of operation
- One way ratchet. Free spool in off direction.

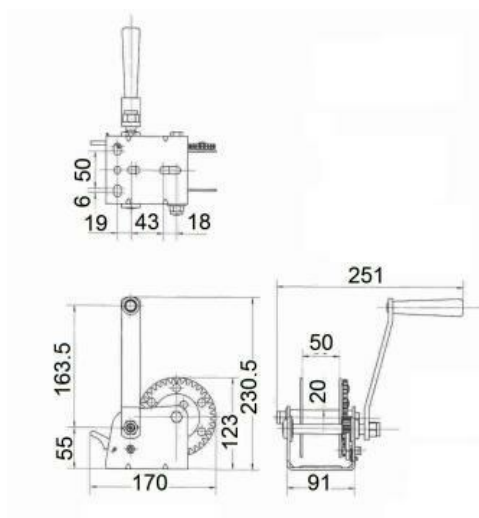
- High quality one piece hardened steel gears.
- Superior finish quality for appearance and corrosion resistance.
- Extensively tested and QA inspected.

The RHW900 is presented in 3 standard models.

Part No	Description
AL01640	Winch only. No cable or strap
AL01646	With cable and safety hook.
AL01648	With strap and "S" hook.

Capacity	900lb (409Kg)
Gear ratio	3:1
Hub diameter	15mm
Spool Diameter	95mm
cable	4mm diameter x 6m long
Strap	50mm wide x 4m long - 1.5t rated.

AL01648 Shown.



RHW1200

ROCK WINCHES / HAND WINCHES / RHW1200



The RHW1200 is a very popular general purpose hand winch used in numerous applications such as boat trailers, trailers and farm machinery.

Features:

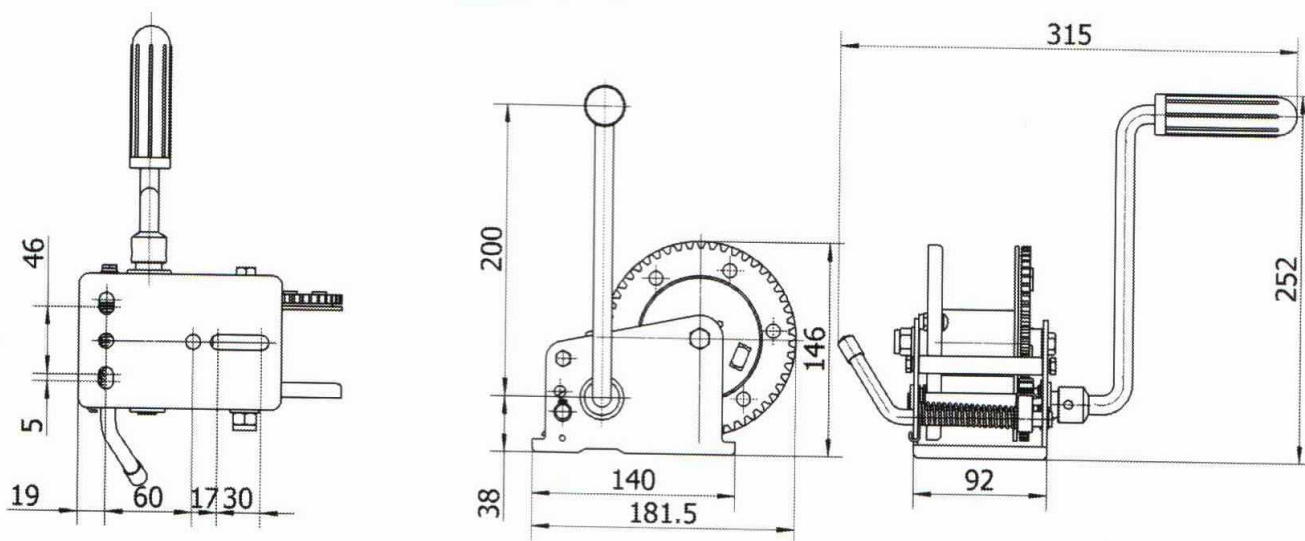
- Compact design.
- Formed reinforcements in frame for added frame strength
- Very low torque required for ease of operation
- One way Ratchet. Free spool in off direction.
- High quality one piece hardened steel gears.
- Superior finish quality for appearance and corrosion resistance.

- Extensively tested and QA inspected.
The RHW1200 is presented in 5 standard variations.

Part No	Description
AL01630	Winch only.
AL01633	Winch & cable, with safety hook.
AL01634	Winch & cable with "S" hook.
AL01635	Winch & strap with "S" hook
AL01642	Winch & strap with Safety hook

Capacity	1200lb (545.45 Kg)
Gear ratio	4.1:1
Hub diameter	45mm
Spool diameter	133mm
Cable	4mm diameter x 10m long.
Strap	50mm x 6.1m long. - 1.5t rated.

AL01633 shown.



RHW1800

ROCK WINCHES / HAND WINCHES / RHW1800



The RHW1800 is a 3 speed hand winch that allows for optimum performance with minimal effort.
Position the handle to suit the load and wind speed required.

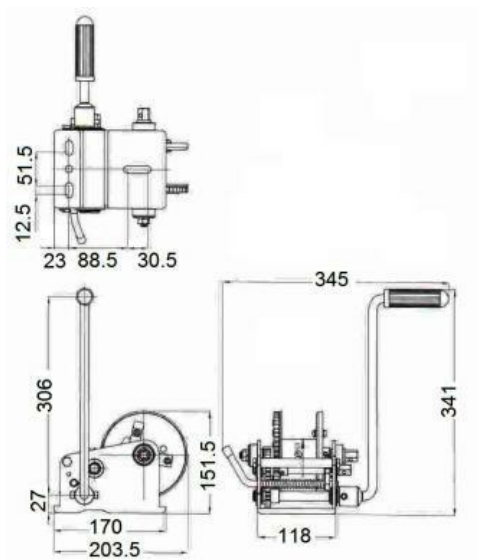
Features:

- Compact design.
- Formed reinforcements in frame for added frame strength
- Very low torque required for ease of operation
- One way Ratchet. Free spool in off direction.
- High quality one piece hardened steel gears.
- Superior finish quality for appearance and corrosion resistance.
- Extensively tested and QA inspected.

- 3 winding positions to give the speed and torque required for the job.
- Standard winch is supplied without cable or strap.

Models with cable or strap available to order.

Specifications	
Part No	AL01509 - WINCH ONLY
Ratio 1 - 1:1	204Kg / 450lb
Ratio 2 - 4.6:1	500Kg/1100lb
ratio 3 - 9.7:1	817Kg/1800lb
Handle force	under 200 (N)
Weight	6.3
Cable	5.56 mm x 15m
Single package.	31x21.5x18.6
Full carton - 4 pcs	46x34x39 - 24 Kg



RHW2000

ROCK WINCHES / HAND WINCHES / RHW2000



The RHW2000 is a quality made general purpose hand winch suitable for the large jobs like such as larger boat trailers, car trailers & many other applications.

This winch is presented in 3 standard variations.

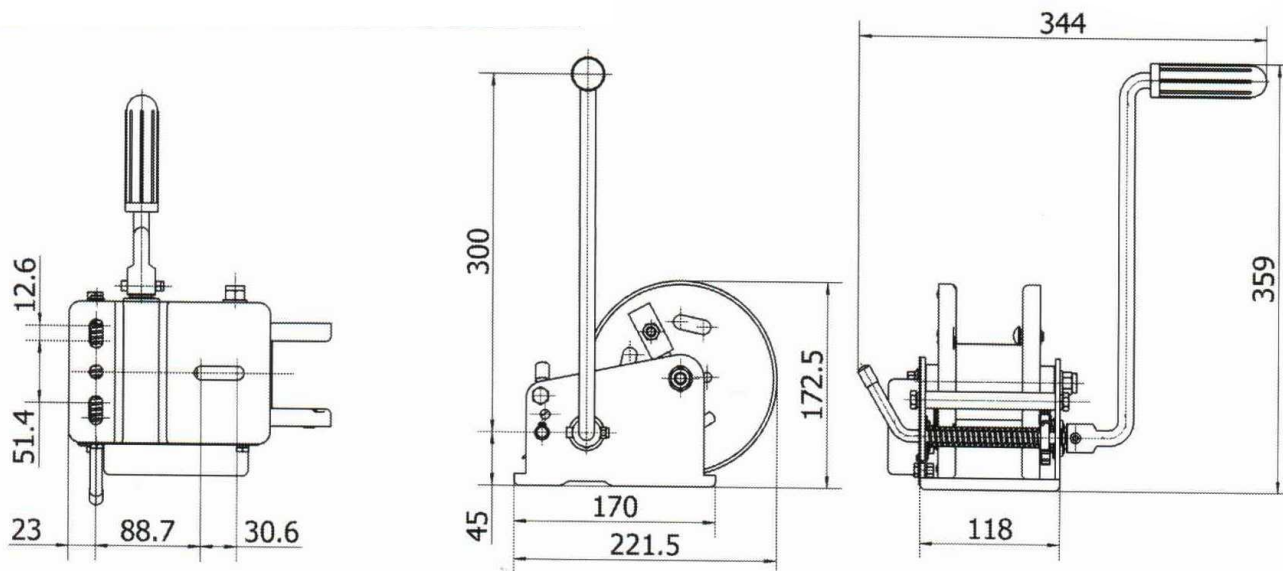
Features:

- Compact design.
- Formed reinforcements in frame for added frame strength
- Very low torque required for ease of operation
- One way ratchet. Free spool in off direction.
- High quality one piece hardened steel gears.
- Superior finish quality for appearance and corrosion resistance.
- Extensively tested and QA inspected.

Part No	Description
AL01636	Winch only
AL01637	With cable and safety hook
AL01638	With strap and safety hook

Capacity	2000lb / 909Kg
Gear ratio	8.8:1
Hub diameter	63mm
Spool O.D	160mm
Cable	6.35mm diameter x 10m long
Strap	50mm x 6.1m long - 2t rated.
AL01636	6.5 Kg
AL01637	8.4 Kg
AL01638	6.9 Kg

AL01638 shown.



RPW3200

ROCK WINCHES / HAND WINCHES / RPW3200



The RPW 3200 is a 2 speed hand winch that allows for optimum performance with minimal effort. Position the handle to suit the load and wind speed required.

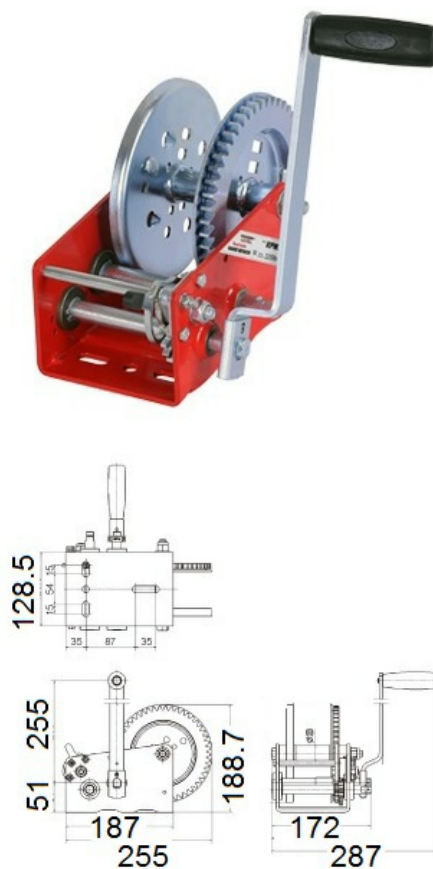
Features:

- Compact design.
- Formed reinforcements in frame for added frame strength
- Very low torque required for ease of operation

- One way Ratchet. Free spool in off direction.
 - High quality one piece hardened steel gears.
 - Superior finish quality for appearance and corrosion resistance.
 - Extensively tested and QA inspected.
 - 2 winding positions to give the speed and torque required for the job.
 - Standard winch is supplied with cable and safety hook.
-Comming soon.....

Specifications	
Part No	AL01643
Capacity	3200 lbs - 1435 Kg
Ratio 1	5.4:1
Ratio 2	17.5:1
Drum	170mm diam x 64 Wide
Weight	7.7Kg
Cable	6.35mm x 15m
Single package.	33 x 23 x 20
Full carton - 4 pcs	68.5 x 50 x 23

Photo below shows bare winch only. No cable.



BRAKE WINCHES

ROCK WINCHES / BRAKE WINCHES



Aline Trading's range of braked hand winches are among the best quality and value available on the market. They are made using proven designs, high quality materials and offer a safety brake feature suitable for many applications.

Our braked hand winches are available in various configurations including, bare winches (without cable or strap), with steel cable or a webbing (seatbelt style) strap.

All our complete winches are fitted with a safety hook.

Features include:

- Compact design requiring minimal space.
- Very low torque required for easy operation.
- Formed reinforcements in frame for added frame strength.
- Internally lubricated bushing and pinion shaft bearing for long life and ease of operation.
- Heat treated one piece gears.
- Gearbox and brake all sealed by strong steel cover to ovoid dust and rain.

- Safety ratchet gear to prevent slipping.
 - Load activated brake. Standard.
 - Brake is completely automatic and will hold the load in any position. Recoiling is impossible.
- Typical uses include Trailers, Farm equipment, Industrial equipment & any other winching application where safety and control is required.
Custom builds are available. Min order qtys apply.

RBW1500

ROCK WINCHES / BRAKE WINCHES / RBW1500



The RBW1500 brake winch is rated at 1500 lb (681kg) and is one of our most popular winches and is suited to applications that require additional control and safety during the winching operation. The automatic brake will hold the load in position.

Features include:

- Compact design requiring minimal space.
- Very low torque required for easy operation.
- Formed reinforcements in frame for added frame strength.
- Internally lubricated bushing and pinion shaft bearing for long life and ease of operation.
- Heat treated one piece gears.
- Gearbox and brake all sealed by strong steel cover to avoid dust and rain.
- Safety ratchet gear to prevent slipping.
- Load activated brake. Standard.
- Brake is completely automatic and will hold the load in any position. Recoiling is impossible.

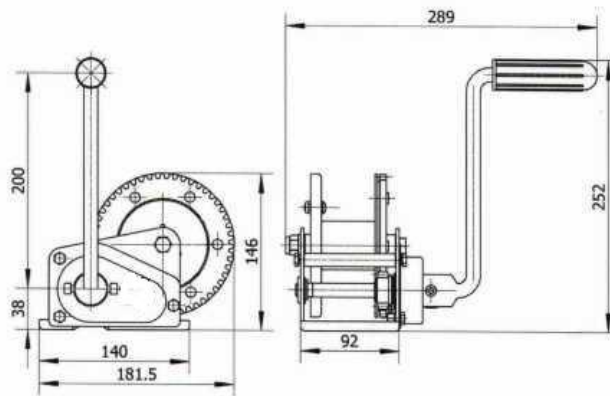
Aline Trading offers the RBW1500 in 3 standard versions as listed below.

Part Number	Description
AL01566	Winch only. No cable or strap
AL01572	With cable and safety hook
AL01578	With strap and safety hook

Specifications	
Capacity	1500lb (681 Kg)
Gear ratio	4.3:1
Hand force required	16 lb
Hub diameter	45mm
Spool diameter	133mm
Maximum spool capacity	18m of 4mm wire
Cable	4mm diameter x 10m long.
Strap	50mm x 6.1m long. - 1.5t rated.
AL01566	3.6 Kg
AL01572	4.4 Kg
AL01578	3.9 Kg

AL01572 shown.





RBW2500

ROCK WINCHES / BRAKE WINCHES / RBW2500



The RBW2500 is a high quality brake winch and a proven performer typically fitted on larger applications like car trailers and irrigation pumps where additional safety and control are required.

Features include:

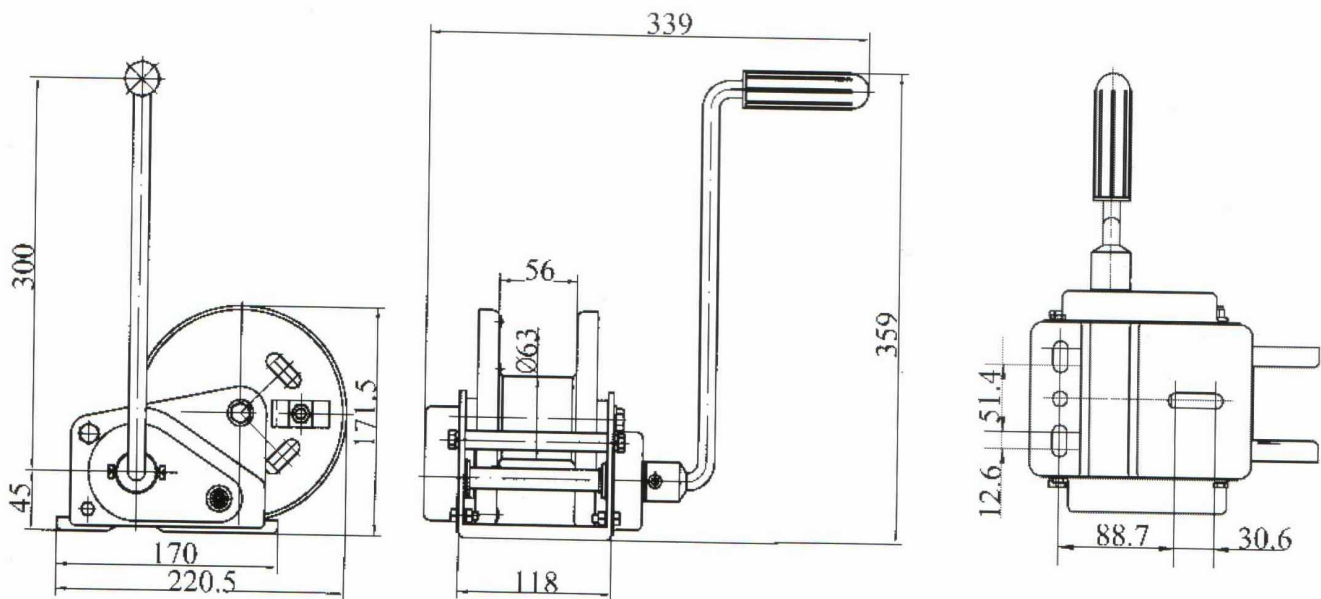
- Compact design requiring minimal space.
- Very low torque required for easy operation.
- Formed reinforcements in frame for added frame strength.
- Internally lubricated bushing and pinion shaft bearing for long life and ease of operation.
- Heat treated one piece gears.
- Gearbox and brake all sealed by strong steel cover to avoid dust and rain.
- Safety ratchet gear to prevent slipping.
- Load activated brake. Standard.
- Brake is completely automatic and will hold the load in any position. Recoiling is impossible.

Aline trading presents the RBW2500 in 3 standard versions as listed below.

Part Number	Description
AL01574	Winch only. No cable or strap
AL01576	With cable and safety hook
AL01579	With Strap and safety hook

Specifications	
Capacity	2500 lb / 1136 kg
Hand force required	20lb
Gear Ratio	8.8:1
Hub diameter	63mm
Maximum spool capacity	15m of 6.35mm cable
Cable	10m x 6.35mm cable
Strap	6.1m x 50mm strap. 2.0t rated
AL01574	7.13 kg
AL01576	8.87 kg
AL01579	7.8 kg

AL01576 shown.



RBW3500

ROCK WINCHES / BRAKE WINCHES / RBW3500



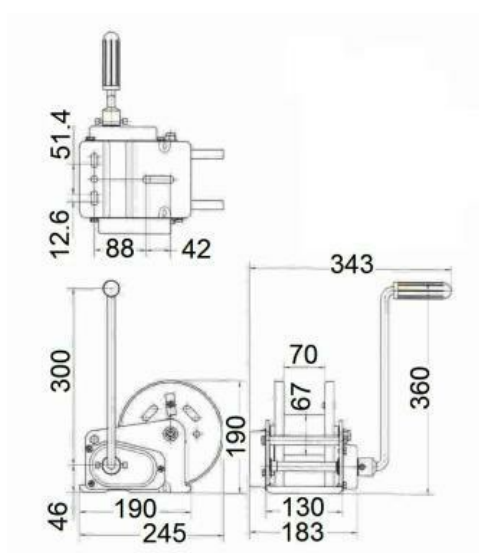
The RBW3500 is our largest brake winch. Its high build quality and design make it suitable for heavy duty applications where safety and control is required.

Features include:

- Compact design requiring minimal space.
- Very low torque required for easy operation.
- Formed reinforcements in frame for added frame strength.
- Internally lubricated bushing and pinion shaft bearing for long life and ease of operation.
- Heat treated one piece gears.
- Gearbox and brake all sealed by strong steel cover to avoid dust and rain.
- Safety ratchet gear to prevent slipping.
- Load activated brake. Standard.
- Brake is completely automatic and will hold the load in any position. Recoiling is impossible.

Part number	Description
AL01577	With cable and safety hook

Specifications	
Capacity	3500 lb / 1590kg
Hand force required	less than 20kg
Gear Ratio	18.4:1
Hub Diameter	67mm
Spool capacity	15m of 7mm cable
Cable supplied	7.94mm Diam x 10m
AL01577	12.57 kg



12V ELECTRIC WINCHES

ROCK WINCHES / 12V ELECTRIC WINCHES



Aline Trading's range of 12V electric ROCK winches are among the best quality and value available on the market. They are made using proven innovative designs and high quality materials.

Features include:

- Planetary gear system for fast line speed.
- Automatic load holding brake.
- Free spooling
- Power in and power out.
- IP67 Ratings
- Low electric current draw.
- Hardened gears.
- Heavy duty permanent magnetic & series wound 12V DC Motors.
- Quality aircraft grade cabling.
- Individual load testing. Each winch is bench tested prior to packing.

Typical uses include Trailers, Automotive, Recreational equipment, Farm equipment, Industrial equipment & any other winching application where safety and control is required.

Note: A suitable supply of 12V DC power is required to ensure proper operation and service life for these winches.



RP3500

ROCK WINCHES / 12V ELECTRIC WINCHES / RP3500



The RP3500 is a compact and versatile 12VDC electric winch with numerous applications in the agricultural, industrial and recreational markets.

Typical applications include Farm Equipment, Ute backs, trailers, ATs etc.

Features include:

- Planetary gear system for fast line speed.
- Automatic load holding brake.
- IP67 rating.
- Free spooling
- Power in and power out.
- Low electric current draw.
- Hardened gears.
- Heavy duty 2.3kw permanent magnet DC Motor.
- Quality aircraft grade cabling.
- Individual load testing.

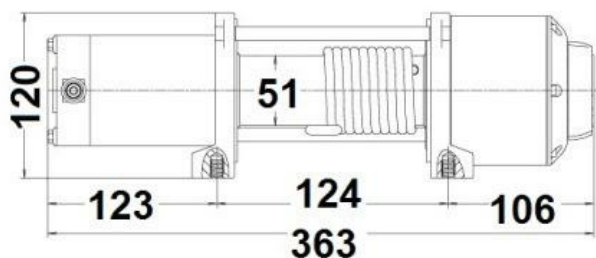
Note: A suitable supply of 12V DC power is required to ensure proper operation and service life for these winches.



Specifications	
Part Number	AL01623
Model	RP3500
Rated line pull	3500lb (1589kg), Single line pull
gear reduction ratio	136:1
Motor	12V permanent magnet 3.1 hp (2.3kw)
IP Rating	IP67
Drum size	50 mm diameter x 92.5mm wide
Cable supplied	5.56mm x 12.8 m aircraft grade cable.
Overall dimensions	(LxWxH) 363mm x 117mm x 120mm
Net weight	11.3 kg
Mounting bolt pattern	76.2 mm x 124 mm

Performance of first layer				
Line pull		Line speed		Motor current
lb	kg	fpm	mpm	12V amp
0	0	23	7.0	35
1000	454	19.7	6.0	87
2000	908	15	4.6	140
3500	1589	7.5	2.3	200

Line pull and capacity by layer		
Cable Layer	Rated line pull	
	lb	kg
1	3500	1589
2	2988	1357
3	2606	1183
4	2311	1049



RP5000

ROCK WINCHES / 12V ELECTRIC WINCHES / RP5000



The RP5000 is a compact and versatile 12VDC electric UTV winch with numerous applications in the agricultural, industrial and recreational markets.

Typical applications include Farm Equipment, Ute backs, trailers, UTVs etc.

Features include:

- Planetary gear system for fast line speed.
- Automatic load holding brake.
- IP67 rating.
- Free spooling
- Power in and power out.
- Low electric current draw.
- Hardened gears.
- Heavy duty 2.8 kW permanent magnet DC Motor.
- Quality aircraft grade cabling.
- Individual load testing.

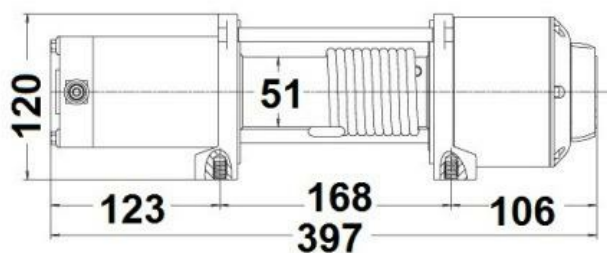
Note: A suitable supply of 12V DC power is required to ensure proper operation and service life for these winches.



Specifications	
Part Number	AL01628
Model	RP5000
Rated line pull - Single line	5000lb (2268 kg)
Gear reduction ratio	165:1- 3 stage planetary
Motor (permanent magnet)	2.8kW 12V (3.8hp)
IP Rating	IP 67
Drum size diameter	50mm
Drum size length	137.5mm
Cable diameter	6.3mm
Cable length	15m
Dimensions LxWxH	397 x 117 x 120
Net Weight	15.3Kg
Mounting bolt pattern	168mm x 76mm

Performance of first layer				
Line pull		Line speed		Motor current
lb	kg	fpm	mpm	12V amp
0	0	20.7	6.3	34
2000	908	15.1	4.6	135
3000	1360	11.5	4.0	155
4000	1810	10.5	3.2	190
5000	2270	9.2	2.8	230

Line pull and capacity by layer		
Cable Layer	Rated line pull	
	lb	kg
1	5000	2270
2	4080	1852
3	3446	1565
4	2983	1354
5	2629	1194



RES6000

ROCK WINCHES / 12V ELECTRIC WINCHES / RES6000



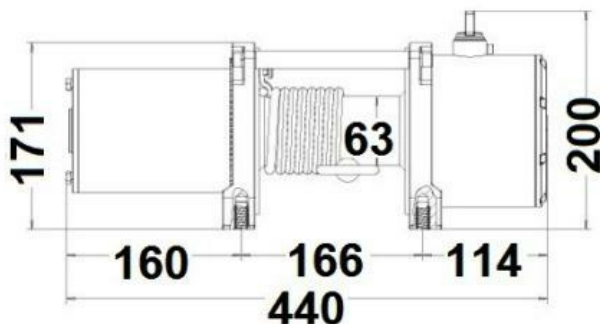
The RES 6000 (EXTREME SEALING) is the smallest of our IP67 rated premium grade 12V winches. It's a compact and versatile 12VDC electric winch with numerous applications in the agricultural, industrial and recreational markets. Including Farm Equipment, 4X4, car trailers, plant trailers, ATVs etc.

Features include:

- IP67 Rating.
- Three stage planetary gear system for fast line speed.
- Automatic load holding brake.
- Free spooling
- Power in and power out.
- Low electric current draw.
- Hardened gears.
- Heavy duty 2.7kw series wound DC Motor.
- Quality aircraft grade cabling.
- Individual load testing.

Note: A suitable supply of 12V DC power is required to ensure proper operation and service life for these winches.

Specifications	
Part Number	AL01626
Model	RES6000
Rated line pull - Single line	6000lb (2724 kg)
Gear reduction ratio	210:1- 3 stage planetary
Motor (series wound)	2.7kW 12V (3.7hp)
IP Rating	IP 67
Drum size diameter	63mm
Drum size length	124mm
Cable diameter	7.14mm
Cable length	24m
Weight net	31.8 kg
Dimensions LxWxH	440 x 161 x 200
Mounting bolt pattern	166mm x 114.3mm



Performance of first layer				
Line pull		Line speed		Motor current
lb	kg	fpm	mpm	12V amp
0	0	19.5	6	80
1500	680	15.8	4.8	125
3000	1364	13.6	4.1	160
4500	2040	10.4	3.2	205
6000	2724	9	2.7	220



Line pull and capacity by layer		
Cable Layer	Rated line pull	
	lb	kg
1	6000	2724
2	4985	2263
3	4264	1936
4	3725	1691
5	3307	1501

RES9500

ROCK WINCHES / 12V ELECTRIC WINCHES / RES9500



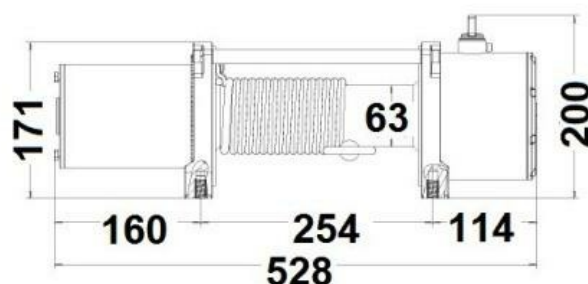
The RES9500 (EXTREME SEALING) is the most popular of our premium grade IP67 rated 12V winches. It's a compact and versatile 12VDC electric winch with numerous applications in the agricultural, industrial and recreational markets. Including Farm Equipment, 4X4, car trailers, plant trailers, ATVs etc.

Features include:

- IP67 Rating.
- Three stage planetary gear system for fast line speed.
- Automatic load holding brake.
- Free spooling
- Power in and power out.
- Low electric current draw.
- Hardened gears.
- Heavy duty 3.6 kw series wound DC Motor.
- Quality aircraft grade cabling.
- Individual load testing.

Note: A suitable supply of 12V DC power is required to ensure proper operation and service life for these winches.

Specifications	
Part Number	AL01629
Model	RES9500
Rated line pull - Single line	9500lb (4310 kg)
Gear reduction ratio	210:1
Motor (series wound)	3.6kW 12V (4.9hp)
IP Rating	IP67
Drum size diameter	63mm
Drum size length	212mm
Cable diameter	8.3mm
Cable length	28
Dimensions LxWxH	528 x 161 x 200
Mounting bolt pattern	254mm x 114.3mm



Performance of first layer.				
Line pull		Line speed		Motor current
lb	kg	fpm	mpm	12V amp
0	0	21	6.4	86
2000	910	11	3.4	150
4000	1810	8.8	5.5	205
6000	2720	7.5	2.3	235
8000	3630	6	1.8	252
9500	4310	6.2	1.7	300



Line pull and capacity by layer		
Cable Layer	Rated line pull	
	lb	kg
1	9500	4310
2	7374	3348
3	6246	2836
4	5417	2459
5	4783	2171

ROCK winch built into tool box on the front of a Heavy duty tandem trailer.



RES12000

ROCK WINCHES / 12V ELECTRIC WINCHES / RES12000



The RES12000 (EXTREME SEALING) is the largest of our premium grade IP67 rated 12V winches. It's a compact and versatile 12VDC electric winch with numerous applications in the agricultural, industrial and recreational markets. Including Farm Equipment, 4X4, car trailers, plant trailers, ATVs etc.

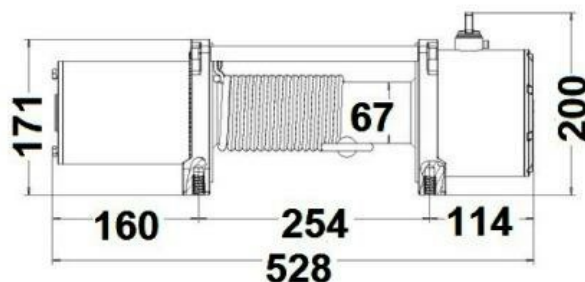
Features include:

- IP67 Rating.
- Three stage planetary gear system for fast line speed.
- Automatic load holding brake.
- Free spooling
- Power in and power out.
- Low electric current draw.
- Hardened gears.
- Heavy duty 3.6kw series wound DC Motor.
- Quality aircraft grade cabling.
- Individual load testing.

Note: A suitable supply of 12V DC power is required to ensure proper operation and service life for these winches.



Specifications	
Part Number	AL02685
Model	RES12000
Rated line pull - Single line	12000lb (5445kg)
Gear reduction ratio	294:1- 3 stage planetary.
Motor (series wound)	3.6kW 12V (4.9hp)
Drum size diameter	67mm
Drum size length	212mm
Cable diameter	9.5mm
Cable length	28
Dimensions LxWxH	528 x 161 x 200
Mounting bolt pattern	254mm x 114.3mm



Performance of first layer.					
Line pull		Line speed		Motor current	
lb	kg	fpm	mpm	12V amp	
0	0	16.4	5	85	
4000	1810	8.8	2.7	160	
6000	2720	7.5	2.3	191	
8000	3630	6.7	2.0	235	
10000	4540	5.6	1.7	270	
12000	5440	4.9	1.5	300	

Line pull and capacity by layer		
Cable Layer	Rated line pull	
	lb	kg
1	12000	5448
2	9607	4362
3	8010	3637
4	6868	3118
5	6011	2729

24V ELECTRIC WINCHES

ROCK WINCHES / 24V ELECTRIC WINCHES



Aline Trading's range of 24V electric winches are among the best quality and value available on the market. They are made using proven innovative designs and high quality materials.

Features include:

- Planetary gear system for fast line speed.
- Automatic load holding brake.
- Free spooling
- Power in and power out.
- Low electric current draw.
- Hardened gears.
- Heavy duty permanent magnetic 24V DC Motors.
- Quality aircraft grade cabling.
- Individual load testing. Each winch is bench tested prior to packing.

Typical uses include Trailers, Automotive, Recreational equipment, Farm equipment, Industrial equipment & any other winching application where safety and control is required.

Note: A suitable supply of 24V DC power is required to ensure proper operation and service life for these winches.



The RES3000 is a compact and versatile 24V DC electric winch with numerous applications in the agricultural & industrial markets.

Features include:

- Fast line speed.
- Improved sealing.
- 3 stage planetary gear system for fast line speed.
- Automatic load-holding brake.
- IP68
- Power in and power out.
- Low electric current draw.
- Hardened gears.
- Heavy duty 24V DC Motor.
- Quality aircraft grade cabling.
- Individual load testing.

Note: A suitable supply of 24V DC power is required to ensure proper operation and service life for these winches.

Specifications	
Part Number	AL01627
Model	RES3000-24
Rated line pull	3000lb (1361kg). Single line pull
gear reduction ratio	249:1
Motor	24V
Drum size	50mm diameter x 80mm wide
Cable supplied	4.76mm x 13m steel.
Overall dimensions	(LxWxH) 334mm x 128mm x 108mm
Mounting bolt pattern	48mm x 76mm

Performance of first layer				
Line pull		Line speed		Motor current
lb	kg	fpm	mpm	24V amp
0	0	23	4.6	21
1000	454	18	5.5	60
1500	681	16	4.8	77
2000	908	14	4.2	90
2500	1135	12	3.6	114
3000	1362	11	3.3	132

Line pull by layer		
Cable Layer	Rated line pull	
	lb	kg
1	3000	1362
2	2502	1136
3	2145	974
4	1878	853
5	1670	758





The REW5500-24V is a versatile 24V DC electric winch with numerous applications in the agricultural & industrial markets.

Features include:

- Fast line speed.
- Automatic load-holding brake.
- Power in and power out.
- Free spooling.
- Low electric current draw.
- Hardened gears.
- Heavy duty 24V DC Motor.
- Quality aircraft grade cabling.
- Individual load testing.

Note: A suitable supply of 24V DC power is required to ensure proper operation and service life for these winches.



Specifications	
Part Number	AL01625
Model	REW5500-24
Rated line pull	5500lb (2497kg). Single line pull
gear reduction ratio	294:1
Motor	2.5 kw (3.4hp) 24V Permanent magnet.
Drum size	63mm diameter x 140mm wide
Cable supplied	6.35mm x 24m steel.
Overall dimensions	(LxWxH) 436mm x 178mm x 173.5mm
Net Weight	26.5 kg
Mounting bolt pattern	166mm x 114.3mm

Performance of first layer				
Line pull		Line speed		Motor current
lb	kg	fpm	mpm	24V amp
0	0	9.74	2.97	24
2000	908	9.55	2.91	63
3000	1362	8.56	2.61	74
4000	1816	6.56	2.31	88
5500	2497	6.56	2.0	115

Line pull by layer		
Cable Layer	Rated line pull	
	lb	kg
1	5500	2497
2	4640	2107
3	4020	1825
4	3545	1610
5	3170	1439



Aline Trading present a new range of quality hydraulic winches for the agricultural and Industrial markets.

There are two models available a 9000lb suitable for agricultural uses such as grain augers and other light to medium applications and the larger 18,000lb unit which is suited to more demanding applications.

Features include:

- High speed operation.
- Auto brake in both directions.
- Unique clutch design.
- Reinforced frame.
- High performance motor.

RYW09

ROCK WINCHES / HYDRAULIC WINCHES / RYW09

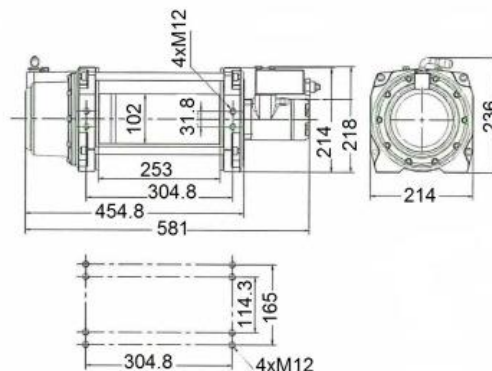


The RYW09 is a 9000 lb hydraulic winch that is suitable for many applications in the agricultural, industrial and recreational markets such as grain augers, medium sized vehicles or trailers.

Features include:

- High speed operation.
- Auto brake in both directions.
- Unique clutch design.
- Reinforced frame.
- High performance motor.

Specifications	
Part Number	AL02721
Model	RYW09
Rated line pull	9000lb (4091kg)
Gear reduction ratio	27.42:1
Drum size diameter	102mm
Drum size length	253mm
Cable diameter	9.52mm
Cable length	30.5
Shipping weight	56.5kg
Dimensions LxWxH	600 x 214 x 235
Mounting bolt pattern	Base 114.3/165mm x 304.8mm Side 31.8 x 304.8
Mounting bolt thread.	M12 x 1.75
Motor connector	1/2"- 14 NPTF



Motor Specifications	
Displacement cm 3/REV	80.6
Max Speed RPM	Rated 750 Cont 940
Max Torque Kw	Rated 12.3 Cont 15 Int 17
Max Pressure drop Mpa	Rated 14 Cont 15 Int 17
Max Flow lt/min	Cont 60 Int 75

Line pull and capacity by layer						
Cable Layer	Line Pull		Speed		Cable capacity	
	lbs	kgs	ft/min	m/min	ft	m
1	9000	4086	31	9.4	24	7.3
2	7670	3482	37	11.2	53	16.2
3	6710	3046	43	13	87	26.5
4	5940	2697	48	14.8	126	38.4

Performance of first layer.					
Line pull		Line speed		Flow	Pressure
lb	kg	fpm	mpm	L/Min	Mpa
4000	1816	26	8	56.3	5
8000	3632	27	8.3	56.4	10.7
9000	4086	28	8.5	55.8	11.6

RYW18

ROCK WINCHES / HYDRAULIC WINCHES / RYW18



The RYW18 is an 18,000 lb hydraulic winch that is suitable for many applications in the agricultural, industrial and recreational markets such as, larger vehicles (trucks), tow trucks, trailers etc.

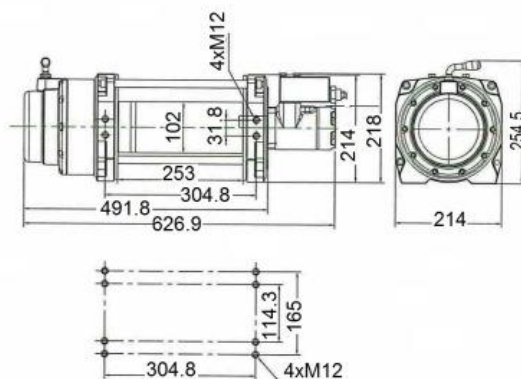
Part No AL02720

Features include:

- High speed operation.
- Auto brake in both directions.
- Unique clutch design.
- Reinforced frame.
- High performance motor.



Specifications	
Part Number	AL02720
Model	RYW18000
Rated line pull	18000lb (8182kg)
Gear reduction ratio	36:1
Drum size diameter	102mm
Drum size length	253mm
Cable diameter	12.7mm
Cable length	30.5
Shipping weight	63.5 kg
Dimensions LxWxH	650 x 214 x 240
Mounting bolt pattern	Base 114.3/165mm x 304.8mm Side 31.8 x 304.8
Mounting bolt thread.	M12 x 1.75
Motor connector	1/2"-14 NPTF



Motor Specifications	
Displacement cm 3/REV	80.6
Max Speed RPM	Rated 750 Cont 940
Max Torque Kw	Rated 12.3 Cont 15 Int 17
Max Pressure drop Mpa	Rated 14 Cont 15 Int 17
Max Flow lt/min	Cont 60 Int 75

Line pull and capacity by layer						
Cable Layer	Line Pull		Speed		Cable capacity	
	lbs	kgs	ft/min	m/min	ft	m
1	18000	8172	16.1	4.9	18.8	5.7
2	14727	6686	19.7	6.0	41.7	12.7
3	12462	5658	23.42	7.1	68.8	21.0

Performance of first layer.					
Line pull		Line speed		Flow	Pressure
lb	kg	fpm	mpm	L/min	Mpa
6000	2724	14.4	4.4	57.6	3.2
12000	5448	14.1	4.3	57.0	6.8
15000	6810	14.1	4.3	56.3	8.1
18000	8172	14.1	4.3	56.7	9.8

MINI TRUCK LOAD WINCH

ROCK WINCHES / MINI TRUCK LOAD WINCH

Aline Trading P/L

The Mini Truck Load Winch is a compact winch designed for securing loads on small trucks, Trailers and farm equipment. Ideal for header comb trailers!

The winch is supplied with a 6 metre long x 50 mm wide strap with hook and has a safe load rating of 2500Kg.



Mini Truck Load Winch	
Part No	AL03422
Capacity	2500 Kg
Strap	50mm W x 6000mm L
Weight incl strap.	2.7 Kg



LEVER CHAIN WINCH 250Kg

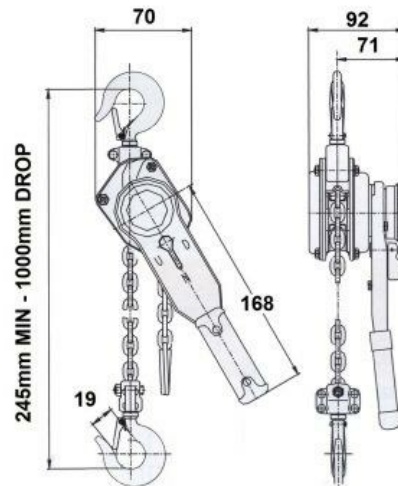
ROCK WINCHES / LEVER CHAIN WINCH 250Kg



Lever operated chain winch

Compact design and light weight make it a valuable addition to any workshop.

Part No	AL01334
Capacity	250 Kg
Test Loaded	375 Kg
Force (N)	282
Chain Diam x Pitch	4 x 12
Chain travel	1000mm
Net Weight	2.4 Kg



ACCESSORIES AND SPARES

ROCK WINCHES / ACCESSORIES AND SPARES



Aline Trading offers a selection of accessories designed to aid in the performance and versatility of our winches. Our winch accessories are made from quality materials and like our winches represent value for money.

CABLE GUIDE ROLLERS

ROCK WINCHES / ACCESSORIES AND SPARES / CABLE GUIDE ROLLERS



GUIDE ROLLER MOUNT

ROCK WINCHES / ACCESSORIES AND SPARES / CABLE GUIDE ROLLERS / GUIDE ROLLER MOUNT

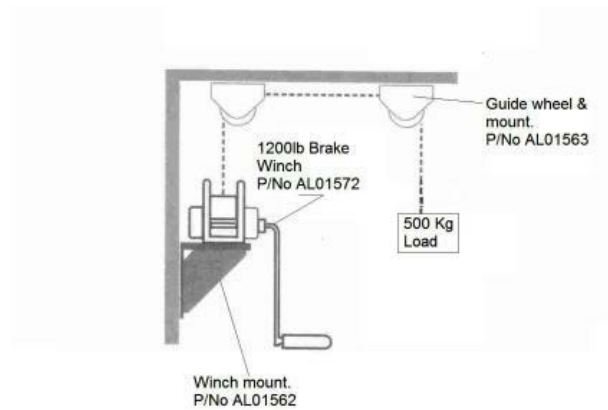
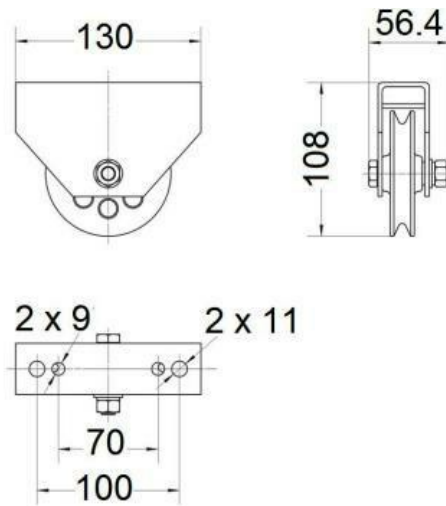


Part Number AL01563

This guide roller with mount is designed for use with hand winches up to 1200lb capacity (500kg).

The housing is made from pressed steel with a solid roller and Zinc plated for added corrosion resistance.

Note: These rollers can be used with our winch mount AL01562 to make a cable guide system for your winch. These systems are common on grain bin covers, stock crate gates etc.



GUIDE ROLLER

ROCK WINCHES / ACCESSORIES AND SPARES / CABLE GUIDE ROLLERS / GUIDE ROLLER



Part No AL01564

These cable rollers are made from solid steel and zinc plated. They are the same roller as used in our AL01563 roller assemblies. The roller on its own can be used for many applications including fabricated cable guides and door rollers.

Specifications	
Part No	AL01564
Material	Steel - zinc plated
Diameter	88mm
Width	16.7mm
Bore	16.27mm
Width across hub.	27.7mm



FAIRLEADS

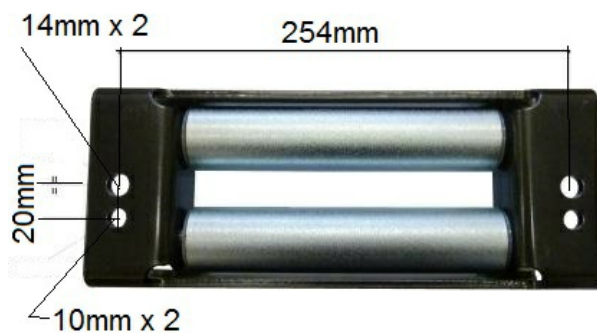
ROCK WINCHES / ACCESSORIES AND SPARES / FAIRLEADS



Roller Fairlead

Part Number AL01394

A quality roller fairlead suited to larger 9000 â€” 12000lb winches.



WINCH MOUNTS

ROCK WINCHES / ACCESSORIES AND SPARES / WINCH MOUNTS



HAND WINCHES UP TO 1200lb

ROCK WINCHES / ACCESSORIES AND SPARES / WINCH MOUNTS / HAND WINCHES UP TO 1200lb

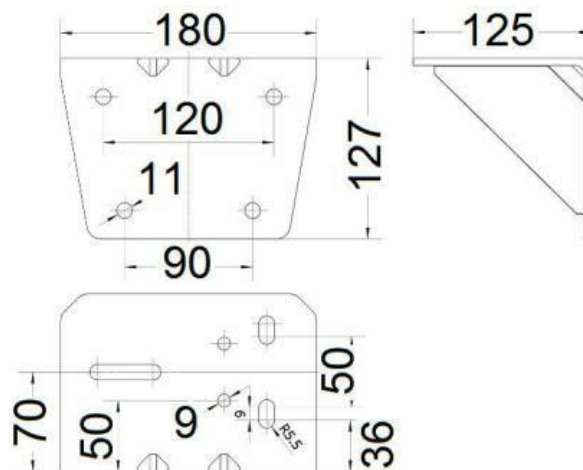
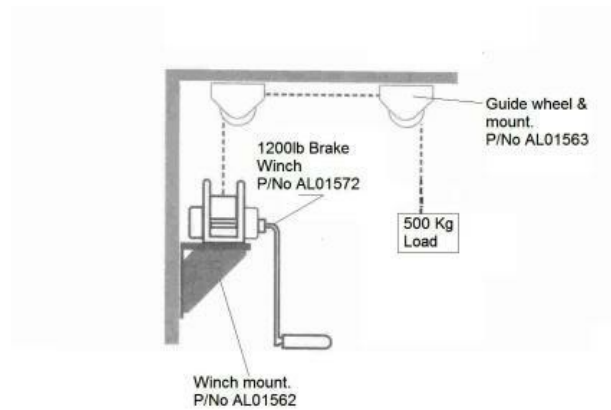


This winch mount is designed for use with hand winches up to 1200lb capacity (500kg).

The mount is fabricated from pressed steel and then zinc plated. It is designed to be bolted in position but can also be welded.

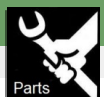
Part Number = AL01562

Note: These mounts can be used with our guide rollers AL01563 to make a cable guide system for your winch. These systems are common on grain bin covers, stock crate gates etc.



WINCH SPARE PARTS

ROCK WINCHES / ACCESSORIES AND SPARES / WINCH SPARE PARTS



This section details the more commonly requested consumable winch spare parts such as replacement cables and straps. A range of other parts are kept in stock by Aline Trading including:

- Handles.
- Cable clamps
- Strap bolts.
- Solenoid boxes.
- Pendant controls.
- Brush sets.
- Etc...

CABLES

ROCK WINCHES / ACCESSORIES AND SPARES / WINCH SPARE PARTS / CABLES



Spare cables are available to suit our range of winches.

Part No	Winch size	Description
AL02432	900 lb	4mm x 6m with S hook
AL02433	900lb	4mm x 6m with safety hook
AL02434	1200lb	4mm x 10m with S hook
AL02435	1200lb	4mm x 10m with safety hook
AL02436	2000lb	6.35mm x 10m with safety hook
AL02437	3500lb	7.94mm x 10m with safety hook
AL02427	2200lb	4.76mm x 15.2m with safety hook
AL02428	3500lb	5.56mm x 13.7m with safety hook
AL02429	6000lb	7.94mm x 26m with safety hook
AL02430	9000/12000lb	9.30mm x 30m with safety hook

STRAPS

ROCK WINCHES / ACCESSORIES AND SPARES / WINCH SPARE PARTS / STRAPS



Spare straps are available to suit our range of hand and brake winches.

Part No	Winch Size	Description
AL02517	900 lb	Strap 50mm x 4m with safety hook
AL02518	900 lb	Strap 50mm x 4m with S hook
AL02519	1200 lb	Strap 50mm x 6.1m with S hook
AL02520	1200 lb	Strap 50mm x 6.1m with safety hook
AL02521	2000 lb	Strap 50mm x 6.1m with safety hook



SAFETY HOOK

ROCK WINCHES / ACCESSORIES AND SPARES / WINCH SPARE PARTS / SAFETY HOOK



Part No AL02447

Safety hook with loose pin to suit 1/4" cable



REMOTE CONTROL UNIT

ROCK WINCHES / ACCESSORIES AND SPARES / REMOTE CONTROL UNIT



Optional wireless remote control unit.

Suitable for use with all new model ROCK 12V electric winches using a 5 pin controller.

Part No	AL02726
Weight	



INDUSTRIAL WHEEL AND TYRE ASSEMBLIES

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES



Aline Trading P/L presents a range of small wheels and castors suitable for many applications in the agricultural and industrial markets.

The product shown in these pages are our standard stocked range.

Other models are available to OEM order. Minimum quantities may apply.

Please contact us today with your requirements.

AIR FREE - NO MORE FLAT TYRES

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / AIR FREE - NO MORE FLAT TYRES



Aline Trading P/L presents a range of unique Air Free semi solid tyre and wheel assemblies suitable for low speed off-road applications in the agricultural, recreational and industrial markets.

Existing customers include transport companies, construction contractors, gas delivery contractors, recyclers, farmers, removalists and landscape gardeners.

These semi solid tyres are constructed from a special compound that gives the advantages of a stable puncture proof solid tyre while retaining the softer ride and handling of a pneumatic tyre.

Most suitable for intermittent loads.

4.10/3.50 x 4 THREE VERSIONS

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / AIR FREE - NO MORE FLAT TYRES / 4.10/3.50 x 4 THREE VERSIONS



This 4.10/3.50-4 air free tyre and wheel is available in 3 versions.

5/8" high speed bearing. Offset centre. 5/8" high speed bearing. Centred hub. 3/4" high speed bearing. Offset centre. Designed for use on most standard sack trucks, they can also be used for countless other applications.

Note: AL02739 with centred hub, now available in a jockey wheel for improved floatation. For more information please check AL01362 under jockey wheels.

Part No	AL02746 = 5/8" bearing. 57mm wide offset centre
Part No	AL02738 = 3/4" bearing. 57mm wide offset centre
Part No	AL02739 = 5/8" bearing. 97mm centered hub
Diameter	260mm
Section Width	81mm
Capacity	120kg
Bearing	5/8" (.625") or 3/4" (.75") H/Speed
Centre Hub	57mm offset or 97mm centred



AL01546 - 13x5x6

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / AIR FREE - NO MORE FLAT TYRES / AL01546 - 13x5x6



A very popular turf tyre, now available in air free.

Ideal for many applications. Never get a flat tyre again!

Part Number	AL01546
Diameter	297mm
Section Width	110mm
Capacity	200 Kg
Bearing	25mm (6205)
Centre Hub	100mm



AL01542 - 16 x 6.50 x 8

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / AIR FREE - NO MORE FLAT TYRES / AL01542 - 16 x 6.50 x 8



A very popular turf tyre, now available in air free.

Ideal for many applications including builder's barrows. See photo below.

Never get a flat tyre again!

Part No	AL01542
Diameter	396mm
Section width	153mm
Capacity	150 Kg
Bearing	25mm (6205)
Centre hub	100mm center mounted





AL02749 - 16 x 4.00 x 8 3/4" BEARING

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / AIR FREE - NO MORE FLAT TYRES / AL02749 - 16 x 4.00 x 8 3/4" BEARING



A good universal model suitable for use on barrows and many other applications.
Large diameter gives improved rolling.

Part No	AL02749
Diameter	390mm
Section width	92mm
Capacity	120Kg
Bearing	3/4" low speed
Centre hub	87mm center mounted



AL02750 - 16 x 4 x 8 1" BEARING

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / AIR FREE - NO MORE FLAT TYRES / AL02750 - 16 x 4 x 8 1" BEARING



A good universal model suitable for use on barrows and many other applications.
Large diameter gives improved rolling.

Part No	AL02750
Diameter	390mm
Section width	92mm
Capacity	120Kg
Bearing	1" high speed
Centre hub	87mm center mounted



4.10/3.50-4 CASTORS

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / AIR FREE - NO MORE FLAT TYRES / 4.10/3.50-4 CASTORS



The very popular 4.10/3.50-4 air free tyre is now available as a swivel or rigid castor.

Suitable for cyclic load applications requiring the floatation and stability of a pneumatic tyre without the problem of punctures.

Part Number	Description	Capacity	Height
AL02745	Swivel Castor	120 Kg	295mm
AL02740	Fixed Castor	120Kg	295mm

Mounting information		
Mount plate size	Mount hole pattern	Hole size
115mm x 100mm	85mm x 73mm	20mm x 11mm

AL02745 shown.



CASTORS

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / CASTORS



Aline Trading P/L presents a range of castor wheels suitable for use in the agricultural and industrial markets.

These products include solid, air free (semi solid) and the very popular segmented wheels used on slashers.



Heavy duty castors suitable for use on industrial and agricultural applications.

Features:

- Cast iron, greasable wheels.
- Rubber mold on solid tyres
- Solid zinc plated steel frames.
- Roller bearing.

Swivel Castor - Unbraked				
Part Number	Size	Capacity	Height	Offset
AL02837	100 x 50	130kg	135	20
AL02829	150 x 50	230kg	189	36
AL02833	200 x 50	280kg	235	39.5

Swivel Castor - Braked				
Part Number	Size	Capacity	Height	Offset
AL02838	100 x 50	130kg	135	20
AL02830	150 x 50	230kg	189	36
AL02834	200 x 50	280kg	235	39.5

Fixed Castor - Unbraked				
Part Number	Size	Capacity	Height	Offset
AL02835	100 x 50	130kg	135	0
AL02827	150 x 50	230kg	189	0
AL02831	200 x 50	280kg	235	0

Fixed Castor - Braked				
Part Number	Size "	Capacity	Height	Offset
AL2836	100 x 50	130kg	135	0
AL02828	150 x 50	230kg	189	0
AL02832	200 x 50	280kg	235	0

Mounting information		
Mount plate size	Mount hole pattern	Hole size
115mm x 100mm	85mm x 73mm	20mm x 11mm





AIR FREE INDUSTRIAL CASTORS

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / CASTORS / AIR FREE INDUSTRIAL CASTORS



The very popular 4.10/3.50-4 air free tyre is now available as a swivel or rigid castor.

Suitable for cyclic load applications requiring the floatation and stability of a pneumatic tyre without the problem of punctures.

Part Number	Description	Capacity	Height	Offset
AL02745	Swivel Castor	120 Kg	294mm	49mm
AL02740	Fixed Castor	120Kg	294mm	0

Mounting information		
Mount plate size	Mount hole pattern	Hole size
115mm x 100mm	85mm x 73mm	20mm x 11mm

AL02745 Shown.



SEGMENTED SLASHER WHEELS

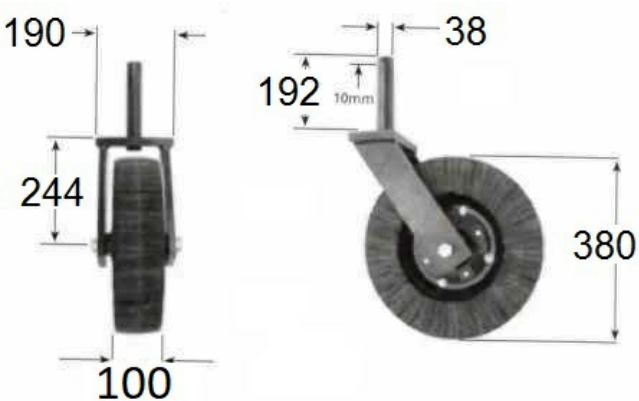
INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / CASTORS / SEGMENTED SLASHER WHEELS



Our segmented castor wheel assembly offers a strong, reliable and environmentally friendly product suitable for use as trailing wheels on slashers, mulchers and numerous other applications.

Spare parts are also available. See bottom of page.

4.00-8 tyre	
Part number	AL02062
Model	SW48L
Capacity	500kg @ 15kph
Wheel diameter	380mm
Wheel section width	100mm
Weight	26kg



Spare Parts	
AL02063	4.00 x 8 Wheel and tyre only.
AL02061	Hub complete with bearings, seals and sleeve.
AL02060	Fork.
AL02059	Axle bolt and nut.

SOLID INDUSTRIAL PU CASTORS

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / CASTORS / SOLID INDUSTRIAL PU CASTORS



These quality solid castors are available in either fixed or swivel styles. They are made from strong yet lightweight materials that make them suitable for a wide range of applications.

Tyre = Polyurethane.

Wheel = Polypropylene.

Bearings = Ball Bearing.

P/No	Wheel Size	Style	Cap Kg	Height
AL02842	150 x 50	Fixed	320	189
AL02843	150 x 50	Swivel	320	189

Mounting information		
Mount plate size	Mount hole pattern	Hole size
115mm x 100mm	85mm x 73mm	20mm x 11mm



LIGHT WEIGHT PICKING TROLLEY WHEELS

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / LIGHT WEIGHT PICKING TROLLEY WHEELS



Part Number AL01551

These wheels have been designed for use on fresh fruit picking / packing trolleys. They are made from strong, light weight, UV stabilised materials.

Features:

- Improved design including larger spoke & rim reinforcement for additional strength.
- UV Stabilized materials for longer in field life.
- Improved bearing bush design.
- 40 kg load capacity.

Part No	AL01551
Dimensions. Diameter x Width	233mm x 70mm
Centre Bore.	12.9mm
Centre hub width	60mm
Unit weight	.7 Kg
Load capacity	40Kg



PNEUMATIC - BEARING MOUNT

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / PNEUMATIC - BEARING MOUNT



Aline Trading P/L present a range of pneumatic tyre and wheel assemblies suitable for lighter duty applications such as hand trolleys, sack trucks, portable workshop equipment and light duty off-road trailers in the agricultural, recreational and industrial markets.

Note: For applications requiring higher duty product please see our range of stud mount ATV /Turf tyre and wheel assemblies in the next section.

AL01529 - 8 x 2.5 x 4

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / PNEUMATIC - BEARING MOUNT / AL01529 - 8 x 2.5 x 4



Compact and strong. Popular on workshop carts, trolleys, air compressors etc.

Part No	AL01529
Diameter	203mm
Section Width	62mm
Ply	4 ply
Capacity	150kg
Bearing	3/4" H.S 20Km/Hr
Centre hub width	60mm central
Weight	1.26 kg



TWA0548 - 13 x 5.00 x 6 - 6 PLY

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / PNEUMATIC - BEARING MOUNT / TWA0548 - 13 x 5.00 x 6 - 6 PLY



A popular size for trolleys, farm equipment and commercial applications requiring a wider tread section.

Part No	TWA0548
Diameter	306 mm
Section Width	135 mm
Ply	6
Capacity	240 kg
Bearing	25mm (6205) high speed 20kph
Centre hub width	100 mm centred
Weight	3.4 kg



TWA0044 - 15 x 6.00 x 6 - 6 PLY

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / PNEUMATIC - BEARING MOUNT / TWA0044 - 15 x 6.00 x 6 - 6 PLY



A popular model for larger trolleys, small low speed garden / ATV trailers and many other applications.

Part No	TWA0044
Diameter	366 mm
Section Width	153 mm
Ply	6
Capacity	270 kg
Bearing	25mm (6205) high speed 20kph
Centre hub width	100 mm centred
Weight	4.5 kg



TWA0032 - 4.00/4.80 x 8 - 6 PLY

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / PNEUMATIC - BEARING MOUNT / TWA0032 - 4.00/4.80 x 8 - 6 PLY



A Popular size used for many applications.

Part No	TWA0032
Diameter	400 mm
Section Width	118 mm
Ply	6
Capacity	340 kg
Bearing	25mm (6205) high speed 20 kph
Centre hub width	80 mm centred
Weight	5.3 kg



TWA0403 - 16 x 6.50 x 8 - 6 PLY

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / PNEUMATIC - BEARING MOUNT / TWA0403 - 16 x 6.50 x 8 - 6 PLY



A popular trolley / barrow wheel for applications requiring a larger rolling diameter.

Part No	TWA0403
Diameter	400 mm
Section Width	160 mm
Ply	6
Capacity	355kg
Bearing	25mm (6205) high speed 20kph
Centre hub width	100 mm centred
Weight	6.5 kg



TWA0419 - 18 x 8.50 x 8 - 6 PLY

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / PNEUMATIC - BEARING MOUNT / TWA0419 - 18 x 8.50 x 8 - 6 PLY



A popular choice for larger trolleys and small garden or ATV trailers.

Part No	TWA0419
Diameter	463 mm
Section Width	208 mm
Ply	6
Capacity	475kg
Bearing	25mm (6205) high speed 20 kph
Centre hub width	100 mm
Weight	8.4 kg



TWA0578 - 20 x 10.00 x 8 - 6 PLY

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / PNEUMATIC - BEARING MOUNT / TWA0578 - 20 x 10.00 x 8 - 6 PLY



A popular choice for increased flotation and capacity.

Part No	TWA0578
Diameter	506 mm
Section Width	238 mm
Ply	6
Capacity	700 kg
Bearing	25mm (6205) high speed 20 kph
Centre hub width	100 mm
Weight	9.6 kg





Part No	TWA0569
Diameter	548mm
Section Width	247 mm
Ply	4
Capacity	155 kg
Bearing	25mm (6205) high speed 20 kph
Centre hub width	100 mm
Weight	10.8 kg



Bearing Mount Wheels.



Aline Trading P/L present a range of 6" - 8" diameter single piece bearing mount wheels. These wheels are fitted with a 25mm (6205) high speed bearing and are suited to lower speed applications where the 6205 bearing and seal are sufficient. Maximum Speed rating = 25km/hr.

SINGLE PIECE BEARING MOUNT WHEELS.			
Part No	Description		
	Diameter	Width	Bearing
AL03229	6"	4.25"	6205 - 25mm
AL03062	8"	3.75"	6205 - 25mm
AL03165	8"	5.25"	6205 - 25mm
AL03200	8"	7.00"	6205 - 25mm



SOLID

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / SOLID



Aline Trading P/L presents a range of solid tyre and wheel assemblies suitable for low speed off-road applications in the agricultural, recreational and industrial markets.

NOTE: For higher load or duty rated product please check our premium range of solid tyre and wheel assemblies.

AL02742 - 8 x 2.5

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / SOLID / AL02742 - 8 x 2.5



Part Number	AL02742
Model	8 x 2.5 solid
Diameter	205mm
Section width	65mm
Capacity	120 kg
Bearing	3/4" low speed 5kph
Centre hub	54mm offset
Weight	2.8 kg



AL02743 - 10 x 2.5

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / SOLID / AL02743 - 10 x 2.5



Suitable for a wide range of applications including Domestic, Agricultural and Industrial.

Part Number	AL02743
Model	10x2.5 solid
Diameter	250mm
Section width	66mm
Capacity	150kg
Bearing	3/4" low speed 5kph
Centre hub	72mm centred
Weight	4 kg



AL02744 - 13 x 2

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / SOLID / AL02744 - 13 x 2



Part Number	AL02744
Model	13 x 2 solid
Diameter	325mm
Section width	54mm
Capacity	150kg
Bearing	3/4" low speed 5kph
Centre hub	90mm centred
Weight	4.4 kg



AL02845 - 150 x 50

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / SOLID / AL02845 - 150 x 50



Aline Trading Pty Ltd

AL02845: A strong durable wheel. Use as a spare for our range of 150 mm castors, a replacement wheel for jockey wheels or many other applications.

Features:

- Cast iron, greasable wheels.
- Rubber mould on solid tyres.
- H/Duty needle roller bearing with centre sleeve.

Part No	AL02845
Size	150mm x 50mm
Capacity	230 Kg
Centre Width	63mm
Bearing	3/4" needle roller.
Sleeve	1/2" bore.



AL02846 200 x 50

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / SOLID / AL02846 200 x 50



Aline Trading Pty Ltd

AL02846: A strong durable wheel. Use as a spare for our range of 200 mm castors, a replacement wheel for jockey wheels or many other applications.

Features:

- Cast iron, greasable wheels.
- Rubber mould on solid tyres.
- H/Duty needle roller bearing with centre sleeve.

PartNo	AL02846
Size	200mm x 50mm
Capacity	280 Kg
Centre Width	63mm
Bearing	3/4" needle roller.
Sleeve	1/2" bore.



AL02844 - 150 x 50 PU

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / SOLID / AL02844 - 150 x 50 PU



Aline Trading Pty Ltd

These quality solid PP wheels are made from strong yet lightweight materials that make them suitable for a wide range of applications.

They are fitted with a quality 20 mm bearing and a sleeve with nylon bushes that reduce the bore to suit a 12 mm shaft.

Tyre = Polyurethane.

Wheel = Polypropylene.

Bearings = Ball Bearing.

PartNo	AL02844
Size	150mm x 50mm
Capacity	320 Kg
Centre Width	59mm
Bearing	20mm
Sleeve	With bush = 12mm No Bush = 16mm



Side view showing bearing seal and centre tube.



AL03234 - 4.00 x 8 HT

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / SOLID / AL03234 - 4.00 x 8 HT



The AL03234 is a 4.00 x 8 solid fork lift tyre fitted to a heavy duty 2 piece split forklift wheel.
Suitable for slashers, mowers, baggage trolleys, ground support equipment and other agricultural or industrial trailers.

Part No	Bore	Overall Diameter	Section Width	P.C.D	Capacity Kg	Speed Rating
AL03234	68mm	402mm	112mm	5/107.95 HT Holden	860	16 km/h



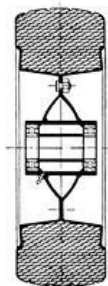
SOLID PREMIUM EUROPEAN RANGE

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / SOLID PREMIUM EUROPEAN RANGE



Aline Trading P/L present a range of premium quality European made solid tyre and wheel assemblies. These products have been designed especially for the harsh environments encountered in the agricultural and industrial markets.

Part No	Overall Diameter	Section Width	Bearing	Hub Width	Load Capacity	Speed Rating
AL03092	400mm	100mm	25mm	80mm	350kg	25kmph
AL03057	360mm	100mm	25mm	80mm	320kg	25kmph
AL03093	250mm	65mm	20mm	60mm	300kg	25kmph



AL03092



AL03057



AL03093



TRAILER/ATV WHEELS AND TYRES 8"-12" DIAMETER

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / TRAILER/ATV WHEELS AND TYRES 8"-12" DIAMETER



Aline Trading present a range of small diameter (8" - 12") wheels and tyres suitable for a wide range of applications including, small trailers, agricultural machinery & Industrial equipment.

The wheel range is divided into 2 sections.

1. Single piece hub mount wheels. These wheels have a hub mount centre and are designed to be used with one of our standard stub axle assemblies. The hub mount makes them more robust and suitable for higher load applications. A maximum speed of 100km/hr. may be obtained on some of these wheels depending on the application and rating of the tyre being fitted.
2. Two piece hub mount wheels. These wheels are supplied with the popular HT Holden drilling and are based on a 2 piece forklift wheel for additional strength. They are suited to low speed trailers that have a higher load rating and require a low overall wheel height. The thicker centre material offers additional strength both for radial load and the twisting affect encountered when turning a tandem trailer. A range of tyres are available for these wheels, the most popular is our Industrial block pattern.

SINGLE PIECE HUB MOUNT WHEELS			
Part No	Description		
	Diameter	Width	PCD/Fitment
AL03189	8"	3.75"	4/10 1.6 - MINI
AL03158	8"	3.75"	5/114.3 - FORD
AL03227	8"	5.375"	4/10 1.6 - MINI
AL03161	8"	5.375"	5/114.3 - FORD
AL03225	8"	7.00"	4/10 1.6 - MINI
AL03224	8"	7.00"	5/114.3 - FORD
AL03059	9"	4.00"	5/114.3 - FORD
AL03199	10"	6.00"	5/114.3 - FORD
AL03232	12"	10.5"	5/114.3 - FORD



TWO PIECE HUB MOUNT WHEELS - HEAVY DUTY			
Part No	Dimensions		
	Diameter	Width	PCD/Fitment
AL03359	8"	2.50"	5/107.95 - HT HOLDEN
AL03358	9"	4.00"	5/107.95 - HT HOLDEN

Photo below: 5.00-8 8ply Industrial tyre fitted to 2.50-8 2 piece HT wheel.



The tyres listed below are the most commonly used for our range of stocked wheels above.

Other sizes and tread patterns are available on request.

Note:

Tyres listed as highway pattern are suitable for on- road use. Speeds may vary. Industrial tyres are for low speed use only. Prolonged high speed work will result in tyre failure due to heat build up.

TYRES TO SUIT ABOVE WHEELS				
Part No	Size	Ply	Tread	capacity KG
AL03222	13/5.00-6 TL	6	TURF	240
AL03060	15/6.00-6 TL	6	TURF	270
AL03160	16/6.50-8 TL	6	TURF	355
AL03180	16/6.50-8 TL	4	LUG	280
AL03259	18/8.50-8 TL	6	TURF	475
AL03187	20/10.00-8 TL	6	TURF	700
AL03164	20.5/8.00-10 TL	12	TURF	760
AL03150	22/11.00-8 TL	4	KNOBBY	155
AL03223	26/12.00-12 TL	6	TURF	1113
AL03233	26/12.00-12 TL	8	LUG	1372
*****	*****	***	*****	*****
AL03159	4.80/4.00-8 TL	6	HIGHWAY	340
AL03192	5.00-8 TT	8	HIGHWAY	1100
AL03036	6.00/6.90-9 TL	10	HIGHWAY	690
AL03372	5.00-8 TT	8	IND BLOCK	830
AL03376	6.00-9 TT	10	IND BLOCK	1515

A tyre fitting service is available if tyre and wheel assemblies are required.

Shown below is a selection of popular tyre & wheel assemblies we supply for agricultural and other trailers.

Tread designs are indicative only and may change from time to time.

Photo below: 22/11.00-8 4ply knobby tyre on 8 x 7 4 hole wheel.



18/8.50-8 6ply turf on bearing wheel.

6.00/6.90 x 9 - 6 ply highway tyre fitted to a 4.00 x 9 five hole wheel. P.C.D. = 114.3mm (Ford)

Note: Photo below shows tyre mounted on hub.



5.00 x 8 - 6 ply highway tyre fitted to a 3.75 x 8 five hole wheel. P.C.D. = 114.3mm (Ford)



Below.

26/12.00 x 12 - 6 ply Turf Tyre fitted to a 10.00 x 12 wheel
with 5/114.3 PCD (Ford)



Below:

26/12.00 x 12 - 8 ply Lug Tyre fitted to a 10.00 x 12 wheel
with 5/114.3 PCD (Ford)



Some popular tyre and wheel assemblies are listed below.

PART No	TYRE	WHEEL
TWA0001	6.00/6.90x9 - 10 ply H/Way	9 x 4.00 - 5/114.3 (Ford)
TWA0303	6.00/6.90x9x - 6 ply H/Way	9 x 4.00 - 5/114.3 (Ford)
TWA0646	4.80/4.00x8 - 6 ply H/Way	8 x 3.75 - 5/114.3 (Ford)
TWA0031	4.80/4.00x8 - 6 ply H/Way	8 x 3.75 - 4/10 1.6 (Mini)
TWA0253	5.00 x 8 - 8 ply H/Way	8 x 3.75 - 5/114.3 (Ford)
TWA0008	16/6.50x8 - 6 ply Turf	8 x 5.375 - 4/10 1.6 (Mini)
TWA0437	18/8.50x8 - 6 ply Turf	8 x 7.00 - 5/114.3 (Ford)
TWA0472	22/11.00x8 - 4 ply Knobby	8 x 7.00 - 4/10 1.6 (Mini)
TWA0024	20/10.00x8 - 6ply Turf	8 x 7.00 - 4/10 1.6 (Mini)

TRAILER WHEELS AND TYRES 12"-16" DIAMETER

INDUSTRIAL WHEEL AND TYRE ASSEMBLIES / TRAILER WHEELS AND TYRES 12"-16" DIAMETER



Aline Trading P/L presents a range of trailer wheels and tyres suitable for on highway trailer use and off highway applications like farm trailers, implements and industrial equipment.

Our tyres and wheels can be sold individually or fitted for your convenience.

Trailer Wheels

Part No	Size	Drilling	offset	finish
AL03102	4.00 X 12	Ford	+3mm	White
AL03105	4.00 x 12	Ford	+3mm	Gal
AL03106	4.50 x 13	Ford	-7mm	White
AL03107	4.50 x 13	Ford	-7mm	Gal
AL03401	5.0 x 13	HT	85mm R	Gal
AL03425	5.0 x 13	HT	85mm R	White
AL03099	6.0 x 14	Ford	-2.5mm	White
AL03103	6.0 x 14	Ford	-2.5mm	Gal
AL03101	6.0 x 14	Toyota 6 stud	-2.5mm	White
AL03061	6.0 x 14	HT Holden	+10mm	White
AL03384	6.0 x 14	HQ Holden	+10mm	White
AL03171	6.0 x 15	Toyota 6 stud	0	White
AL03100	7.0 x 15	Toyota 6 stud	+7mm	White
AL03104	8.0 x 15	Toyota 6 stud	-22mm	White
AL03435	9.0 x 15.3	6/205 Ag	0	Silver
AL03113	7.0 x 16	Toyota 6 stud	+20mm	White
AL03108	7.0 x 16	Toyota 5 stud	+20mm	White
AL03109	8.0 x 16	Toyota 6 stud	-22mm	White



Tyres

The tyres listed below are our most popular for trailers use and can be supplied loose or fitted to the above wheels. Many other sizes are available on request.

Part No	Size	Rating
AL03154	145R12C	80/78S - 450 Kg
AL03114	165R13C	94N - 670 Kg
AL03110	185R14C	102S - 850 Kg
AL03085	195R14C	106S - 950 Kg
AL03460	225/75R15 8ply	113/108L - 1155 Kg
AL03111	235/75R15	104S - 900 Kg
AL03112	31x10.5R15	109S - 1030 Kg
AL03115	245/75R16	120Q - 1400 Kg
AL03117	265/75R16	123Q - 1550 Kg

Shown below is a selection of popular tyre & wheel assemblies available for agricultural and other trailers. Tread designs are indicative only and may change from time to time.

PART No	TYRE	WHEEL
TWA0390	145R12C	12 x 4.0 - 5/114.3 (Ford) - White Sunraysia.
TWA0315	165R13C	13 X 4.5 - 5/114.3 (Ford) - White Sunraysia.
TWA0171	185R14C	14 x 6 - 5/114.3 (Ford) - White Sunraysia.
TWA0333	185R14C	14 x 6 - 5/107.95 (HT HOLDEN) - White Sunraysia.
TWA0179	195R14C	14 x 6 - 5/114.3 (Ford) - White Sunraysia.
TWA0343	195R14C	14 x 6 - 6/139.7 (Toyota) - White Sunraysia.
TWA0192	225/75R15	15 x 6 - 6/139.7 (Toyota) - White Sunraysia.
TWA0191	235/75R15	15 x 7 - 6/139.7 (Toyota) - White Sunraysia.
TWA0323	245/75R16	16 x 7 - 6/139.7 (Toyota) - White Sunraysia.
TWA0003	10.0/75-15.3 12ply-1700Kg	15.3 x 9 - 6/205 Ag - Silver
TWA0002	11.5/80-15.3 12ply-2180Kg	15.3 x 9 - 6/205 Ag - Silver
TWA0030	12.5/80-15.3 14ply-2650Kg	15.3 X 9 - 6/205 Ag - Silver

TWA0191 - 235/75R15 all-terrain tyre fitted to a 15 x 7 six hole wheel. P.C.D. = 139.7mm (Toyota)



185R14C Light Truck tyre fitted to a 14 x 6 six hole wheel. P.C.D. = 139.7mm (Toyota)





Arnco ReSeal

A Technologically Advanced, Environmentally Safe Tyre Sealant and Conditioner.

Prevent Punctures - Repair Leaks – Condition Rims.

When next ordering your off - road tyre and wheel assemblies from Aline Trading P/L please enquire about having "ReSeal" added to your tyres.

ReSeal uses a technologically advanced proprietary blend of polymers and Kevlar fibres, to instantly and permanently seal punctures up to 1/4" (6.3mm) in diameter.

In addition to sealing punctures ReSeal:

- Maintains constant air pressure.
- Greatly improves fuel economy.
- Extends tyre life.
- Reduces costly down-time due to tyre repairs.
- Prevents corrosion of rims, valve stems and steel belts.

ReSeal can be used in many off-road tyre applications where tyre performance, efficiency and reduction of downtime are required.

Common uses include:

- Agricultural vehicles.
- All-terrain vehicles.
- Golf carts.
- Mowing equipment.
- Material handling equipment.

ReSeal is superior to other products because:

- ReSeal has a Kevlar * and fibre blend with no moisture absorbing cloth. (* Kevlar is a durable high-tenacity fibre that is 5 times stronger than steel.)
- ReSeal's special viscosity-enhanced formula has minimal separation. Other products can become solid in the tyre or separate in the container prior to use.
- ReSeal remains liquid at -32 deg C.
- ReSeal has been extensively tested in-house and by independent sources for effectiveness, corrosion inhibitors and quality control.
- ReSeal's formula is not flammable and is environmentally safer than ethylene glycol based products. Ethylene glycol can be fatal if swallowed.
- ReSeal contains corrosion inhibitors to protect rims, valve stems and steel belts and allows easy cleaning of tyre with soap and water.

ReSeal can be used in tube and tubeless tyres. ReSeal is pumped into the tyre through the valve stem and remains liquid for the life of the mounted tyre. The volume of ReSeal required is determined depending on the size of the tyre. As the tyre rotates centrifugal force spreads ReSeal evenly over the interior tyre tread area.

When the tyre is punctured thousands of strong interlocking ReSeal fibres clot in and around the puncture to prevent any loss of air.

ReSeal does not affect tyre balance when installed at the recommended volume. However if the tyre needs to be balanced it should be done before installing ReSeal.





TRAILER AND BODY EQUIPMENT

TRAILER AND BODY EQUIPMENT



Aline Trading P/L present a comprehensive range of components suitable for all forms of trailers, farm equipment and vehicle tray bodies.

TOW EYES AGRICULTURAL AND INDUSTRIAL

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL



Aline Trading P/L present a range of heavy duty quality European made tow eyes suitable for use on off-road farm and industrial trailers.

Available in rigid or swivel designs and a range of capacities to suit your needs.

Please contact us today with your requirements.

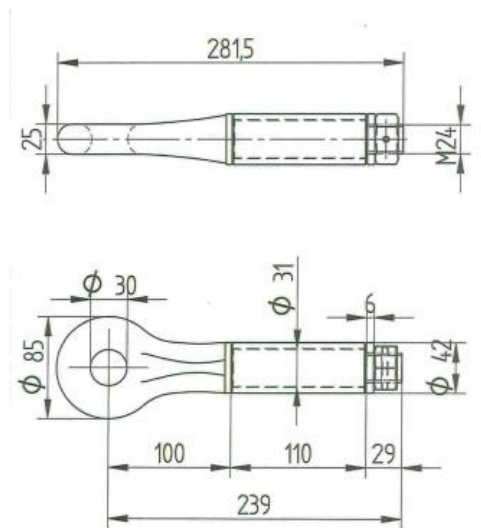
AL02765 30mm SWIVEL 2500 Kg

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL02765 30mm SWIVEL 2500 Kg



The AL02765 is a weld on swivel tow eye suitable for agricultural and industrial applications.

Part number	AL02765
Type	swivel
Eye diameter	30mm
Shank diameter	42mm
Length	281.5mm
Pull load	2500 kg
vertical load	400 kg
Weight	2.6kg



AL02767 - 40mm RIGID 6000 Kg

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL02767 - 40mm RIGID 6000 Kg

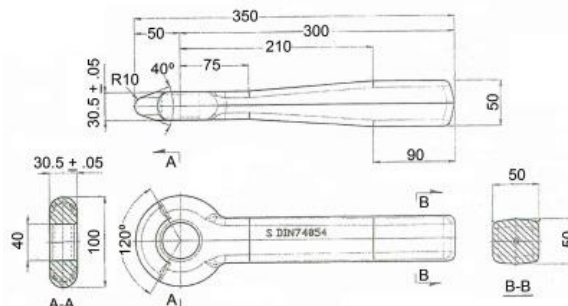


The AL02767 is a rigid weld on tow eye suitable for agricultural or industrial applications.

Product complies with rule 2015/208 EU (dimensions referred to ISO 8755:2001)

Approval No: e1*2015/208*2015/208ND*00177*00

Part number	AL02767
Type	Rigid
Eye diameter	40mm
Shank	50mm x 50mm
Length	350 mm
Tongue thickness	30.5mm
Low speed capacities.	
Pull load	6000 kg
Dynamic load	1000 kg
Weight	5.2kg
Figures per 2015/208 EU	
Speed < 40 km/h	Dc= 24.3kN ; S =760 kg
Speed > 40 km/h	Dc= 24.3kN ; S=550 kg
Value D	32kN when S=0





AL00766 40mm RIGID 10000 Kg

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL00766 40mm RIGID 10000 Kg

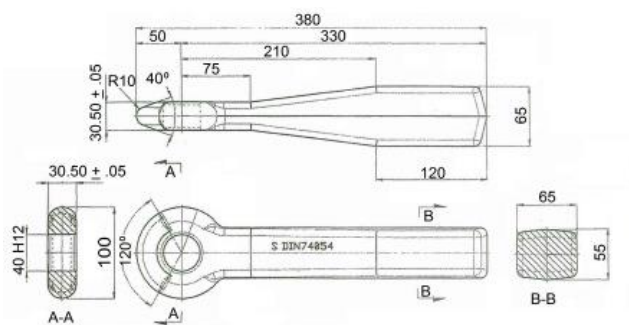


The AL00766 is a rigid weld on tow eye suitable for agricultural or industrial applications.

Product complies with rule 2015/208 EU (dimensions referred to ISO 8755:2001)

Approval No: e1*2015/208*2015/208ND*00016*00

Part number	AL00766
Type	Rigid
Eye diameter	40mm
Shank	55mm x 65mm
Length	380 mm
Tongue thickness	30.5mm
Low Speed Capacities	
Pull load	10000 kg
Dynamic load	1500 kg
Weight	6.8 KG
Figures per 2015/208 EU	
Speed < 40 km/h	Dc=38kN ; S=1020 kg
Speed> 40 km/h	Dc = 38kN ; S=700 kg
Value D	100 kN when S=0





AL02763 45mm SWIVEL 6000 Kg

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL02763 45mm SWIVEL 6000 Kg



The AL02763 is a weld on swivel tow eye suitable for agricultural and industrial applications.

Part number	AL02763
Type	swivel
Eye diameter	45mm
Shank diameter	60mm
Length	373.5mm
Pull load	6000 kg
Dynamic load	2150 kg
Weight	6.6 kg



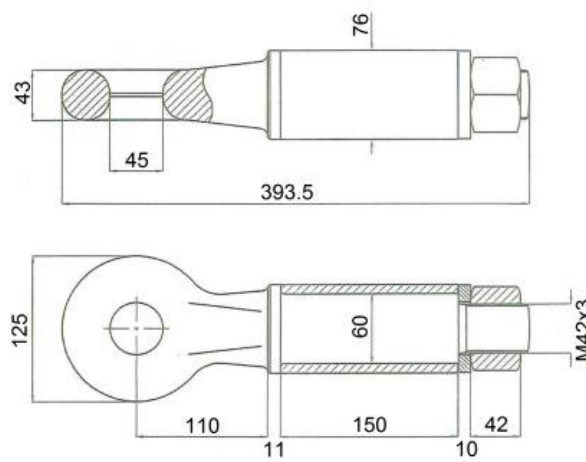
AL02762 45mm SWIVEL 30000 Kg

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL02762 45mm SWIVEL 30000 Kg



The AL02762 is a weld on swivel tow eye suitable for agricultural and industrial applications.

Part number	AL02762
Type	swivel
Eye diameter	45mm
Shank diameter	76mm
Length	393.50mm
Pull load	30000 kg
Dynamic load	3500 kg
Weight	11.5 kg



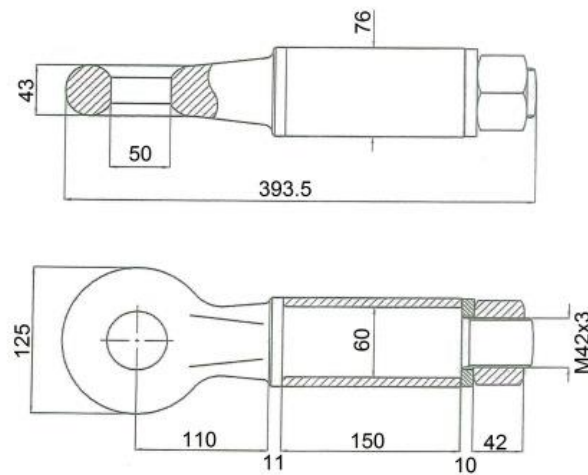
AL00765 50mm SWIVEL 30000 Kg

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL00765 50mm SWIVEL 30000 Kg



The AL00765 is a weld on swivel tow eye suitable for agricultural and industrial applications.

Part number	AL00765
Type	swivel
Eye diameter	50mm
Shank diameter	76mm
Length	393.5 mm
Pull load	30000 kg
vertical load	3500 kg
Weight	12.5 kg



AL02766 52mm RIGID 14000 Kg

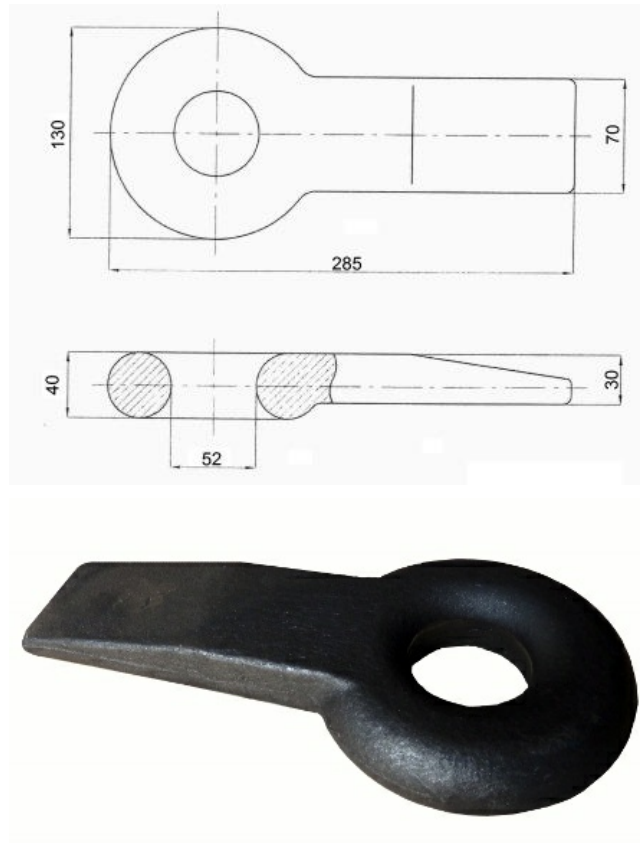
TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL02766 52mm RIGID 14000 Kg



Aline Trading P/L

The AL02766 is a rigid weld on tow eye suitable for agricultural and industrial applications.

Part number	AL02766
Type	Rigid
Eye diameter	52mm
Shank	70mm x 30mm
Tongue thickness	30mm
Eye thickness	40mm
Pull load	14000 kg
Dynamic load	1200 kg
Weight	5.5kg



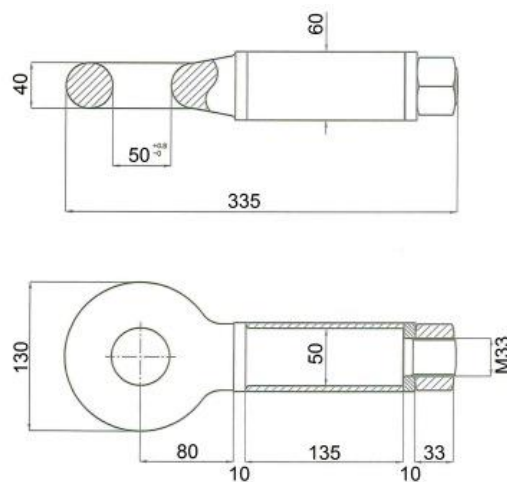
AL02764 50mm SWIVEL 14000 Kg

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL02764 50mm SWIVEL 14000 Kg



The AL02764 is a weld on swivel tow eye suitable for agricultural and industrial applications.

Part number	AL02764
Type	swivel
Eye diameter	50mm
Shank diameter	60mm
Length	335mm
Pull load	14000kg
Vertical load	2000 kg
Weight	7.0 kg





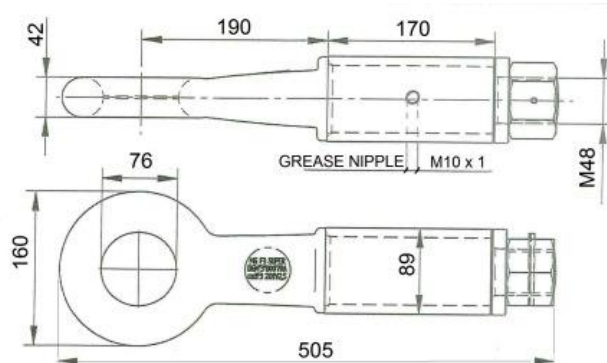
AL02768 76mm SWIVEL 20000 Kg

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL02768 76mm SWIVEL 20000 Kg



The AL02768 is a heavy duty weld on swivel tow eye suitable for agricultural, industrial and mining applications.

Part number	AL02768
Type	swivel
Eye diameter	76mm
Shank diameter	89mm
Length	505mm
Pull load	20000 kg
Vertical load	2500 kg
Weight	18.1 kg



AL03196 40mm 120kN ROAD RATED

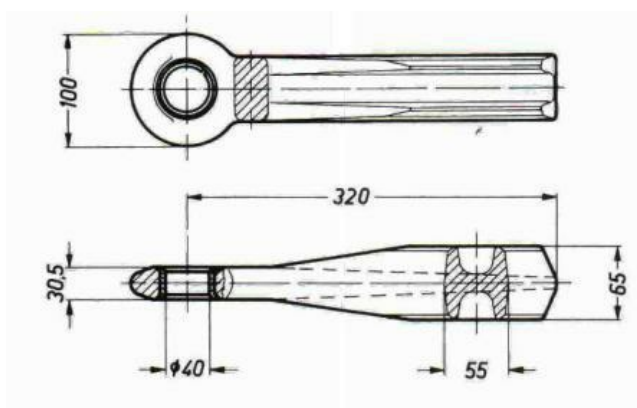
TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL03196 40mm 120kN ROAD RATED



The AL03196 is a 40mm weld on road rated towing eye. This unit has a load rating of 120kN and is suitable for medium sized trailers. It is a popular choice for trucks and harvesters towing comb trailers and can be used in conjunction with our 40mm couplers shown under trailer couplings on this site.

Note: This model is supplied with a pressed in replaceable bush in the eye section.

Part number	AL03196
Model	R57374
D value	120 (kN)
Eye diameter	40mm
CRN	42704
Weight	6 kg



Welding

1. On- road drawbar eyes are provided for welding into the drawbar by electric arc welding, preferably done under a protective gas shield. Welding must be performed by a person qualified to work on such equipment. Regulations may vary from state to state.
2. The steel of the drawbar has to be weldable, e.g. made of St 37-2 or St 52-3 or any other compatible weldable steel with a carbon content of less than 0.22%.
3. Remove all paint, grease and rust from welding surfaces. Heating up of drawbar eye to 200 - 250Å°C before beginning to weld is recommended.
4. The drawbar eye must not be welded within a length of *mm measured from the middle of the drawbar eye access towards the back. This part should protrude out of the drawbar.
5. The welding should be exercised in one seam at a time only, in order to avoid overheating the surrounding space of the welding seam.
6. Carry the welding onwards to the direction of the drawbar eye access in one procedure.
7. All seams have to be laid in longitudinal direction of the drawbar eyes shaft. Never and by no means crosswire.
8. Each seam of welding should be set one by one diagonally opposite to the last one, so you maintain an even radiation of heat.
9. Cooling down of the welding should take place where the air is still; do not immerse into water or pour water over it.
10. If wanted, you can place slot welds through the lateral surface of the drawbars sectional steel. This is in order to attach the drawbar shaft to the drawbar additionally.
11. The thickness of the welding seams is to be approximately 8mm in full V- shape or half V-shape.
12. The thickness of the sectional connecting bars should be at least 8mm, better from 10mm - 12mm.

Drawbar eyes: *

- 57268 DIN 65 x 55, 40mm = 210mm
- 57262 DIN 50 x 40, 40mm = 210mm
- 57260 DIN 40 x 40, 40mm = 210mm
- 57272 DIN + ISO 65 x 60, 50mm = 210mm
- 57254 Rockinger for 56, 561 and 702, 50mm = 195mm
- 57006 ring 41 strong, NATO, 76mm = 180mm

AL03260 50mm 200kN ROAD RATED

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL03260 50mm 200kN ROAD RATED

The AL03260 is an on-road rated 50mm weld on towing eye. This unit has a load rating of 200kN and is suitable for larger road trailers. It can be used in conjunction with our 50mm auto coupler shown under trailer couplings on this site.

Note: This model is supplied with a pressed in replaceable bush in the eye section.



Part number	AL03260
Model	J57272
D value	200 (kN)
Eye diameter	50mm
Down load	1000 (kg)
Weight	10.8 (kg)
CRN	42293



Welding

1. On- road drawbar eyes are provided for welding into the drawbar by electric arc welding, preferably done under a protective gas shield. Welding must be performed by a person qualified to work on such equipment. Regulations may vary from state to state.
2. The steel of the drawbar has to be weldable, e.g. made of St 37-2 or St 52-3 or any other compatible weldable steel with a carbon content of less than 0.22%.
3. Remove all paint, grease and rust from welding surfaces. Heating up of drawbar eye to 200 - 250 Deg C before beginning to weld is recommended.
4. The drawbar eye must not be welded within a length of *mm measured from the middle of the drawbar eye access towards the back. This part should protrude out of the drawbar.
5. The welding should be exercised in one seam at a time only, in order to avoid overheating the surrounding space of the welding seam.
6. Carry the welding onwards to the direction of the drawbar eye access in one procedure.
7. All seams have to be laid in longitudinal direction of the drawbar eyes shaft. Never and by no means crosswire.
8. Each seam of welding should be set one by one diagonally opposite to the last one, so you maintain an even radiation of heat.
9. Cooling down of the welding should take place where the air is still; do not immerse into water or pour water over it.
10. If wanted, you can place slot welds through the lateral surface of the drawbars sectional steel. This is in order attach to the drawbar shaft to the drawbar additionally.
11. The thickness of the welding seams is to be approximately 8mm in full V- shape or half V-shape.
12. The thickness of the sectional connecting bars should be at least 8mm, better from 10mm - 12mm.

Drawbar eyes: *

- 57268 DIN 65 x 55, 40mm = 210mm
- 57262 DIN 50 x 40, 40mm = 210mm
- 57260 DIN 40 x 40, 40mm = 210mm
- 57272 DIN + ISO 65 x 60, 50mm = 210mm
- 57254 Rockinger for 56, 561 and 702, 50mm = 195mm
- 57006 ring 41 strong, NATO, 76mm = 180mm

AL03394 50mm 280kN ROAD RATED

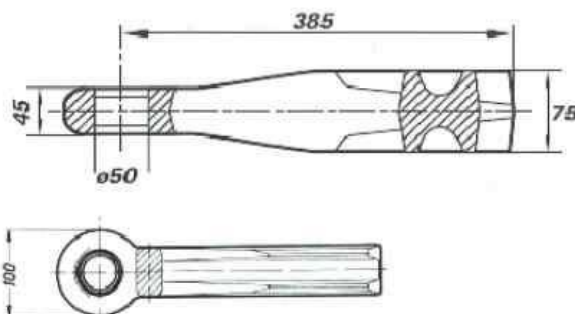
TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL03394 50mm 280kN ROAD RATED



The AL03394 is an on-road rated 50mm weld on towing eye. This unit has a load rating of 280kN and is suitable for larger road trailers. It can be used in conjunction with our 50mm auto coupler shown under trailer couplings on this site.

Note: This model is supplied with a pressed in replaceable bush in the eye section.

Part number	AL03394
Model	J57394
D value	280 (kN)
Eye diameter	50mm
Weight	12.9 (kg)
CRN	42375



AL03393 50mm 200kN ROAD RATED

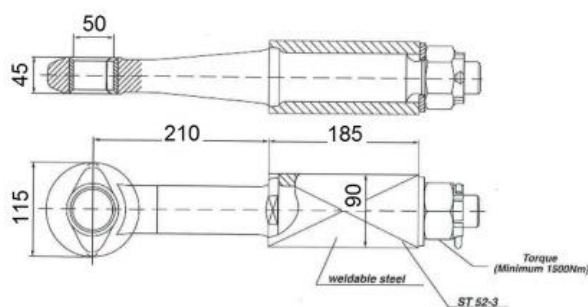
TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL03393 50mm 200kN ROAD RATED



The AL03393 is an on-road rated 50mm weld on replaceable towing eye. This unit has a load rating of 200kN and is suitable for larger road trailers. It can be used in conjunction with our 50mm auto coupler shown under trailer couplings on this site.

Note: This model is supplied with a pressed in replaceable bush in the eye section.

Part number	AL03393
Model	J57254
D value	200 (kN)
Eye diameter	50mm
Weight	19.5 (kg)
CRN	42292



AL03015 75mm 2250kg ROAD RATED

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL03015 75mm 2250kg ROAD RATED



P/No AL03015.

A 75mm swivelling ring override coupling, ADR rated to 2000 Kg for on-road applications.

Ring section = 40mm

K1045 shaft

Grease nipples fitted for servicing.

Reversing lockout facility to disable braking.

Can be used with optional brake plate and lever P/No AL03256 if using with mechanical brakes or P/NO AL03052 master cylinder assy and P/No AL03278 mounting bracket if using hydraulic trailer brakes.

Mounting hole pattern = 54 x 184mm



AL03064 75mm 3500 kg ROAD RATED

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL03064 75mm 3500 kg ROAD RATED



P/No AL03064.

A high strength ductile 75mm ring coupling, ADR rated to 3500 Kg for on-road and 6000 Kg for off-road (agricultural) applications.

Ring section = 40mm

Can be used with optional hand brake plate and lever P/No AL03256 if parking brake is required for electric brake applications.
Mounting hole pattern = 54 x 184mm same as standard override trailer couplings.



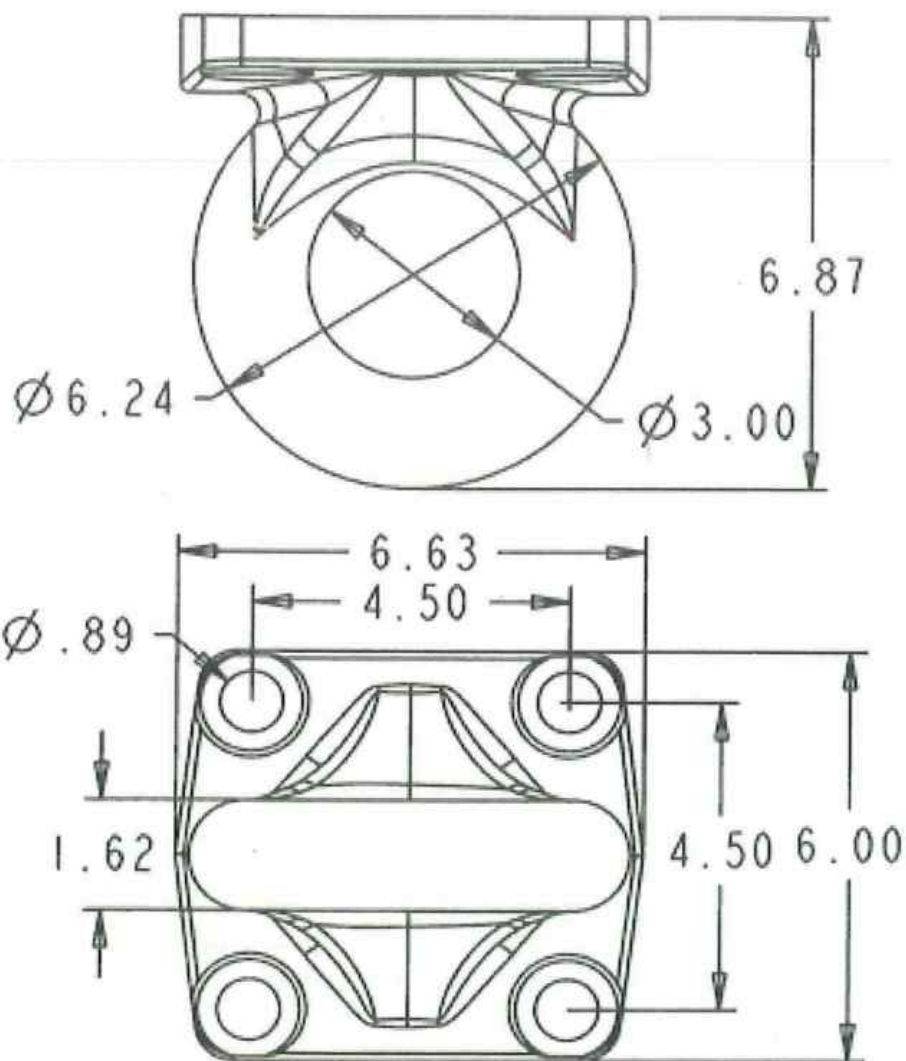
AL03178 76mm 45000 Kg ROAD RATED

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL03178 76mm 45000 Kg ROAD RATED

A heavy duty forged bolt on tow eye suitable for on- road applications.

Part number	AL03178
Model	B1394
M.G.T.W	40824 kg
Maximum vertical load	8618 kg
D value	165 (kN)
CRN	37264
Finish	Black powder coat.
Ring	3" (76.2mm) I.D. x 1.62" section
Unit weight	9.07 kg
Mounting	4.5" x 4.5" (114.3mm) 4 x Diameter 22.6mm holes





AL03362 76mm SWIVEL 25000 kg ROAD RATED

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL03362 76mm SWIVEL 25000 kg ROAD RATED



Part No AL03362

76mm bolt in swivel mount pintle eye with mounting block.

Part No	AL03362
Model	J0063126
Eye dimension cross section	76.5mm
Cross Section	41.5mm
Shank dimension	50mm
Block dimension	90mm x 90mm x 150mm
Length	435mm
D-Value	125 kN
V-Value	7000 kg
ATM	25000 kg
CRN	41615
WEIGHT	17.5 kg



AL03218 76mm SWIVEL 12500 kg ROAD RATED

TRAILER AND BODY EQUIPMENT / TOW EYES AGRICULTURAL AND INDUSTRIAL / AL03218 76mm SWIVEL 12500 kg ROAD RATED



Quality Road rated bolt on swivel coupling.

Part Number	AL03218
Model	Co2TE120 - RB
Capacity	12500Kg
D Value	120kN
V Value	TBA
Eye	76mm I.D x 41mm
Mount	188mm x 80mm
Suits Bolts	5/8" UNF
Material	4140 Forged



CATCHES AND LATCHES

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES



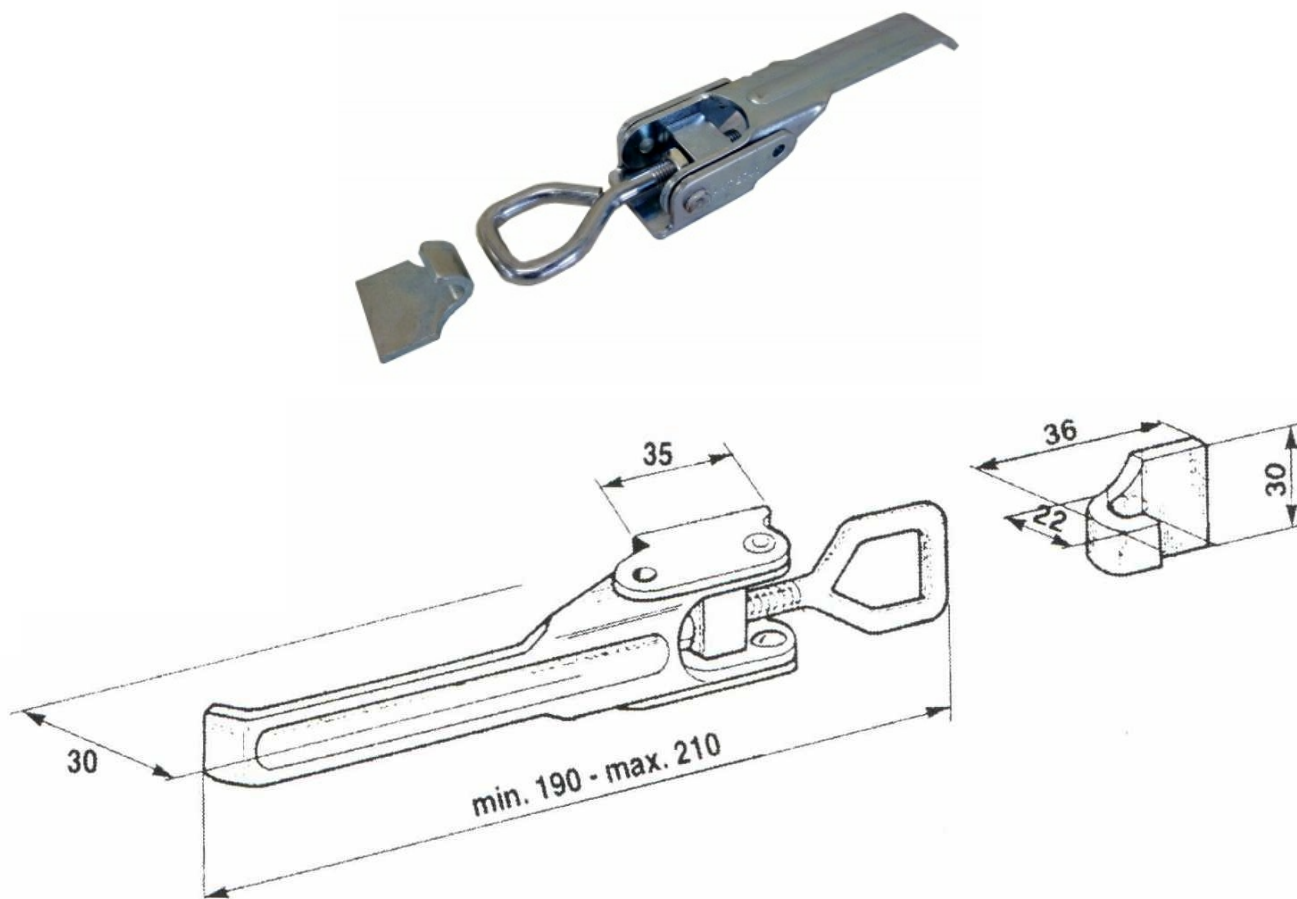
Aline Trading P/L presents a range of quality made catches and closures designed for use in the agricultural and other markets.

AL00796 / AL00798 ADJUSTABLE CLOSURE

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / AL00796 / AL00798 ADJUSTABLE CLOSURE



The AL00796 and AL00798 (with spring tensioner) are variations of the same adjustable closure and are supplied with a hook. These models are very popular for use on drop side trays for Utes and trailers as well as in other applications where a reliable closure is required.



AL00798 with spring



AL00799 HORSE FLOAT TAILGATE LATCH

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / AL00799 HORSE FLOAT TAILGATE LATCH

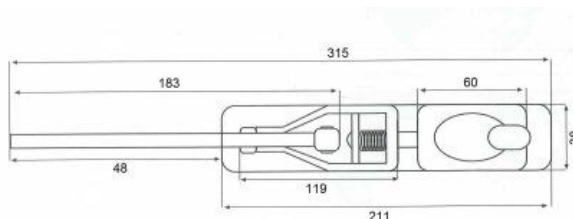


This unique and robust closure is designed especially for use on applications that require increased clamping force and tension. Applications like horse float tailgates. These tailgates must withstand the flex movement during travel and also the impact force caused when the horse strikes the tailgate when closed.

Our closures are supplied with a single piece backing plate that holds the closure body and hook. This hook is separated by cutting the backing plate at the location that most suits your trailers design.

PART No AL00799

Part Number	AL00799
Model	Horse float catch
Finish	Zinc plated
Unit weight.	.962 kg



AL00821 ADJUSTABLE CLOSURE

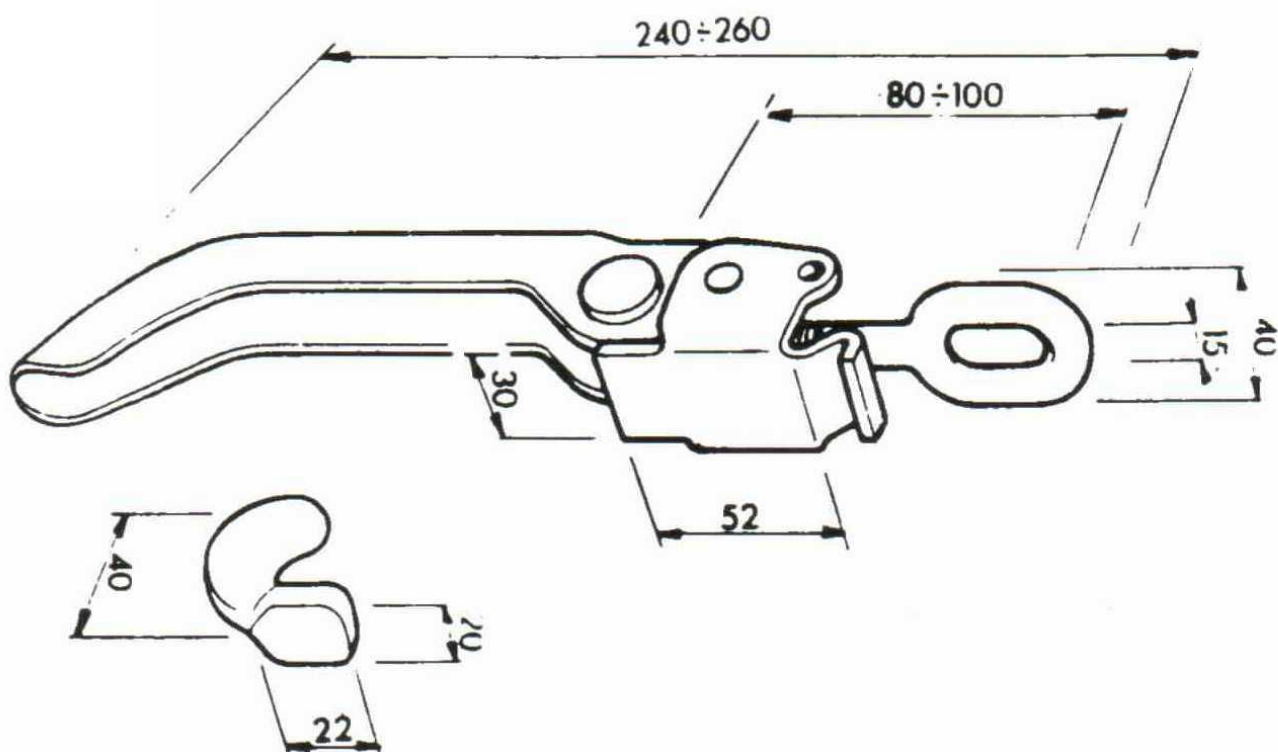
TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / AL00821 ADJUSTABLE CLOSURE



The AL00821 is a heavy duty closure with a strong handle and hook that is used in many industries including, farming, industrial, automotive and mining.

Part No	AL00821
Finish	Zinc Plated
Weight	0.6 kg





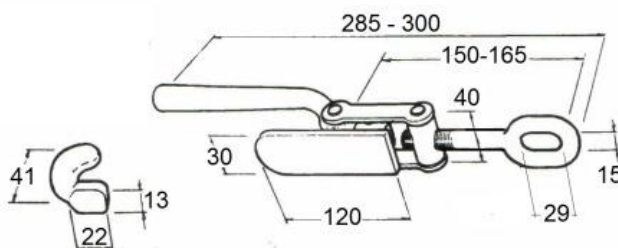
AL00844 ADJTABLE CLOSURE

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / AL00844 ADJTABLE CLOSURE



The AL00844 is a European designed and made, heavy duty closure with a strong forged steel handle and hook that is suited to many industries including, farming, industrial, automotive and mining.

Part No	AL00844
Finish	Zinc Plated
Weight	0.75 Kg



AL02674 ADJUSTABLE CLOSURE

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / AL02674 ADJUSTABLE CLOSURE



The AL02674 heavy adjustable closure is similar to our standard adjustable closures AL00796 & AL00798 but is supplied with a larger more robust hook and eye unit. The spring is also larger for increased tension.

Part No	AL02674
Finish	Zinc Plated
Weight	0.5 kg



OVER CENTRE CLOSURE LOCKABLE

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / OVER CENTRE CLOSURE LOCKABLE

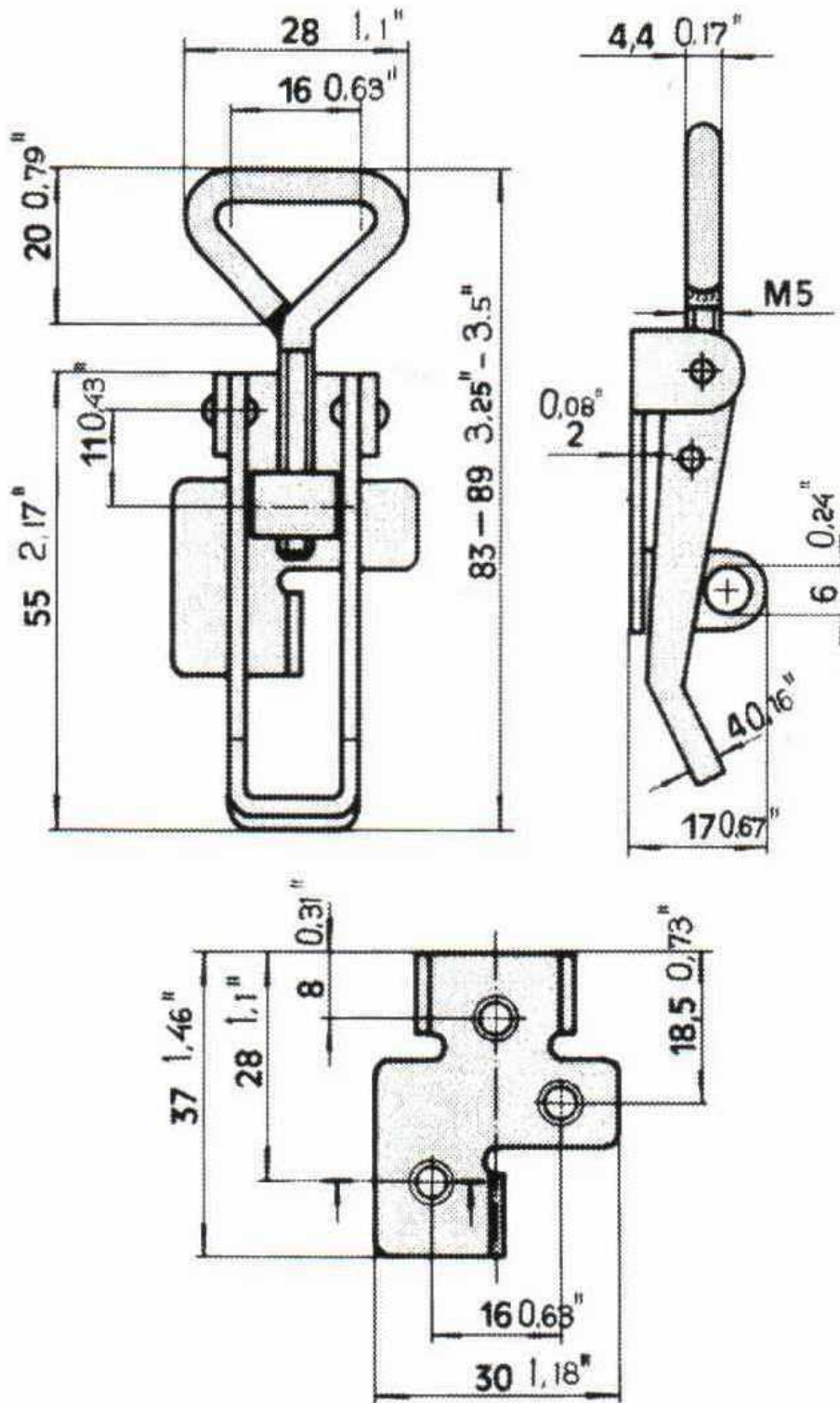


Aline Trading Pty Ltd presents a range of lockable over centre closures available in 3 sizes (small, medium & large) and 2 materials.

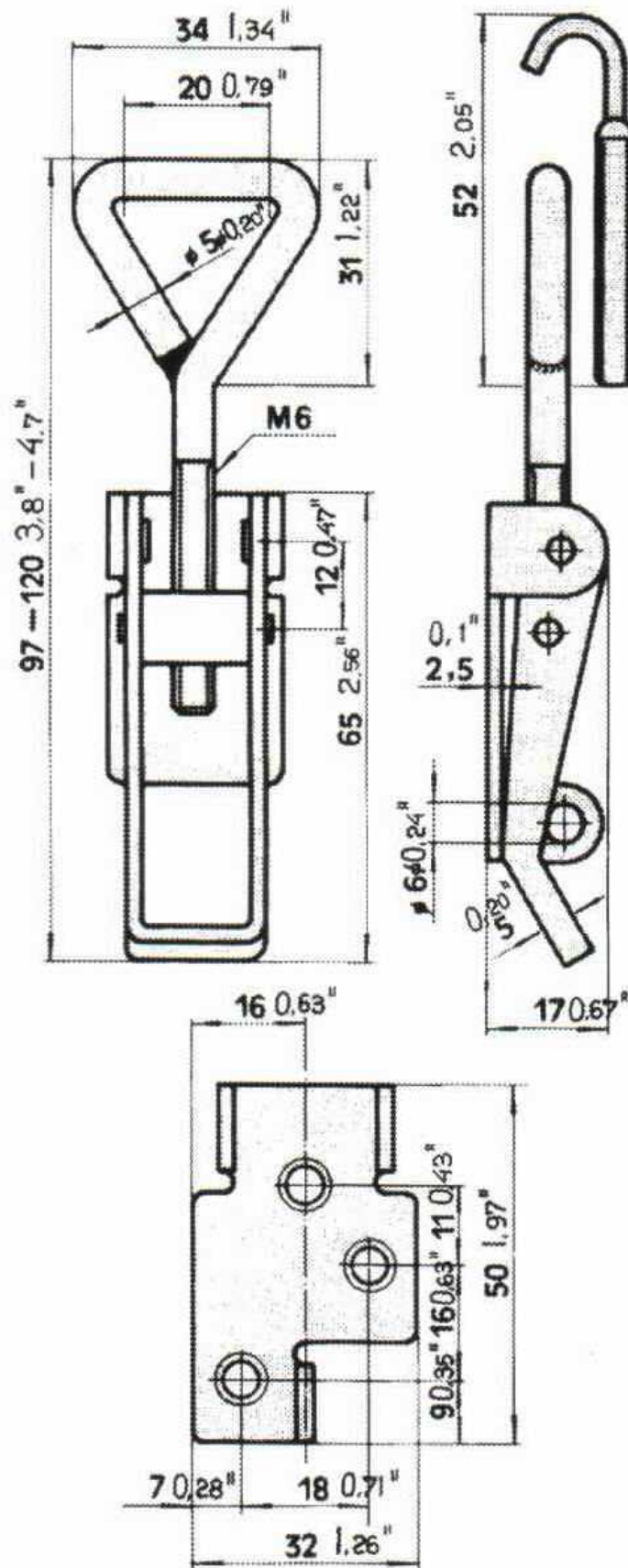
Zinc plated steel with red grip. A very popular multipurpose closure for tool boxes, safety covers, trailers, farm equipment, leisure equipment and much more. Grade 304 Stainless steel without grip. Suited to food industries or where higher corrosion resistance is required. Example; wineries, food processing equipment, marine applications, commercial fishing equipment, mining etc.



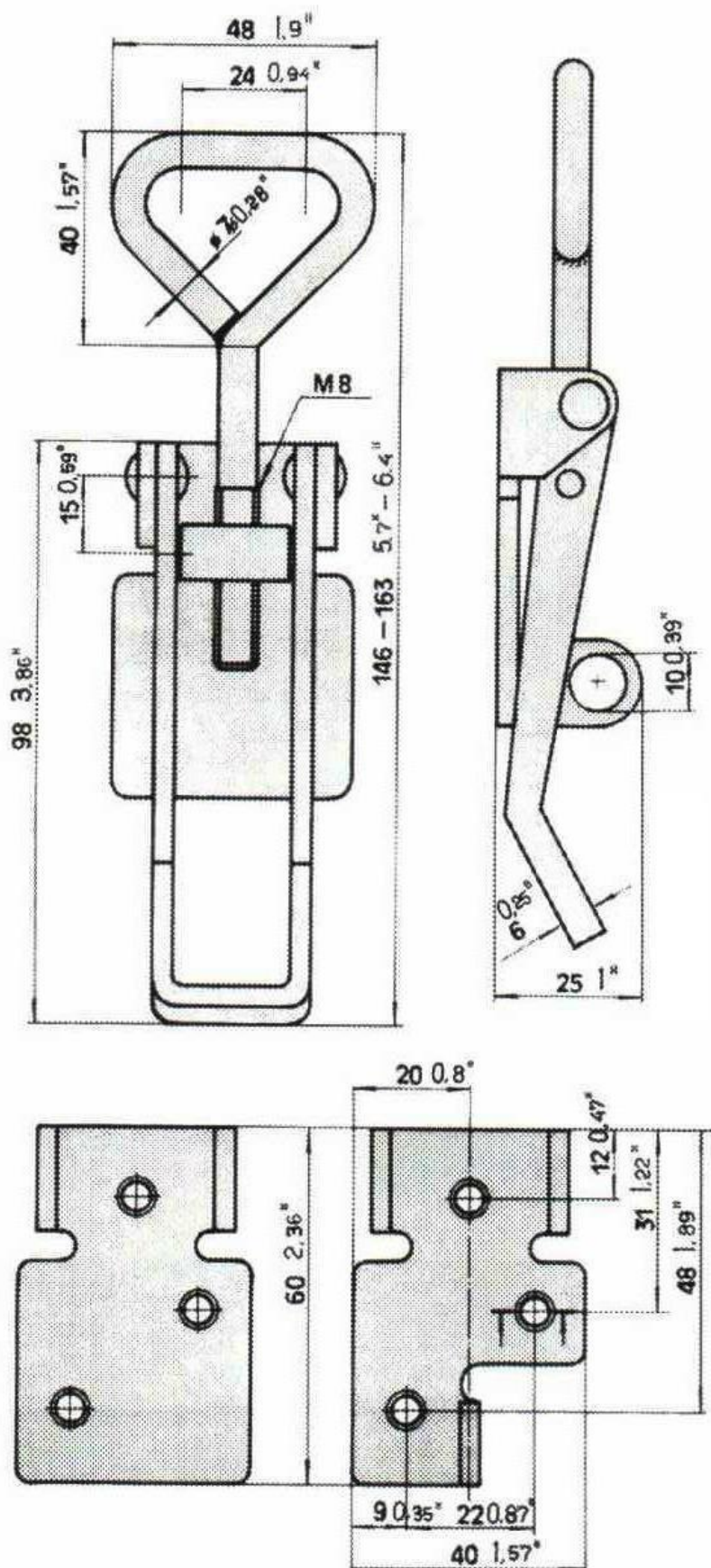
SMALL	
AL00791	Zinc plated steel
AL02658	304 Stainless steel



MEDIUM		
AL00792	Zinc plated steel	
AL02659	304 Stainless steel	



LARGE		
AL00794		Zinc plated steel
AL00795		304 Stainless steel



DROP LOCKS

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / DROP LOCKS

The drop lock is a very popular choice for applications like Ute trays, trailers, safety covers and more. Their simple and compact design allows for a positive closure at an economical price.

Aline Trading P/L present 7 variations of the drop lock. One weld on and six bolt on units.

The bolt on units are supplied with a spring washer and Nyloc nut.



Part number	Thread / shank length	Body Diameter
AL00784	Weld on	19mm
AL00811	M8 X 20 mm	12mm
AL00818	M8 x 20 mm Stainless	12mm
AL00785	M12 X 35mm	19mm
AL00793	M12 X 50mm	19mm
AL02660	M12 X 60mm	19mm
AL01877	M12 X 75mm	19mm



PUSH BUTTON LOCKS

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / PUSH BUTTON LOCKS



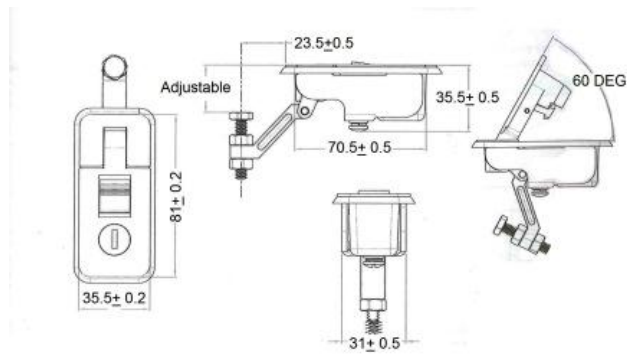
Flush fit push button compression locks are very popular for use on enclosed trailers, cupboards, truck storage boxes, Ute's and many other applications. They are lockable and available in either chrome or matt black finish to give your project that professional finish.

Part No	Description
AL00800	Large - Black
AL00802	Small - Black
AL00801	Large - Chrome
AL00803	Small - Chrome

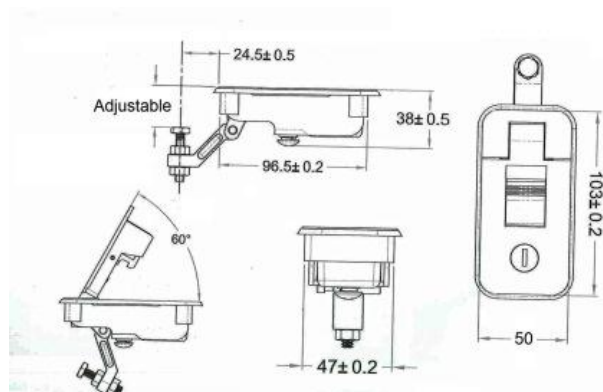




Small Compression lock dimensions.



Large compression lock dimensions.



TAILGATE LATCH SPRING LOADED 4 SIZES

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / TAILGATE LATCH SPRING LOADED 4 SIZES



The spring loaded tailgate catch is a very popular and functional unit. Its solid construction and zinc plated finish make them very durable and suited to a wide range of applications.

We have 4 sizes available in our range.

12.7mm DIAM BOLT

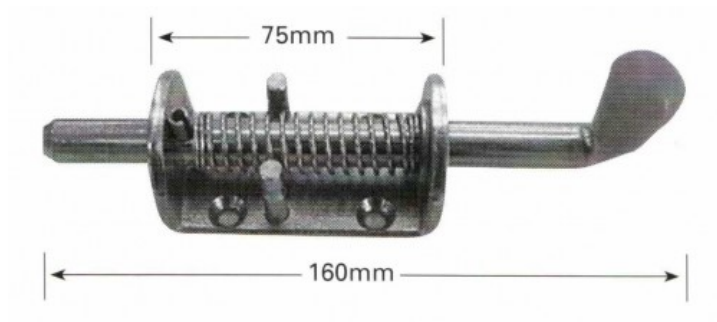
TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / TAILGATE LATCH SPRING LOADED 4 SIZES / 12.7mm DIAM BOLT



The spring loaded tailgate catch is a very popular and functional unit. Its solid construction and zinc plated finish make them very durable.

The latch can be locked in the open position when required.

Part Number	AL03032
Unit weight	.37 Kg
o/a length	160mm
Body length	75mm
Pin Diameter	12.7mm



10mm DIAM BOLT

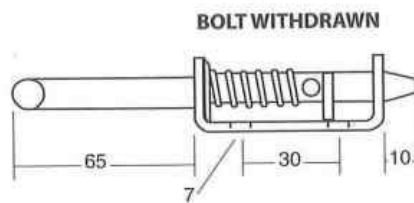
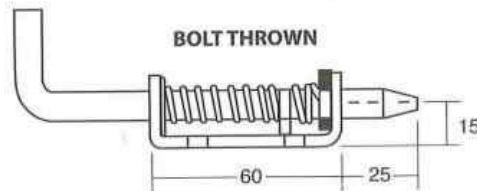
TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / TAILGATE LATCH SPRING LOADED 4 SIZES / 10mm DIAM BOLT



Medium size latch for lighter duty applications.

Zinc plated.

Part Number	AL03348
o/a length	135mm
Body length	60mm
Pin Diameter	10mm



5mm DIAM BOLT

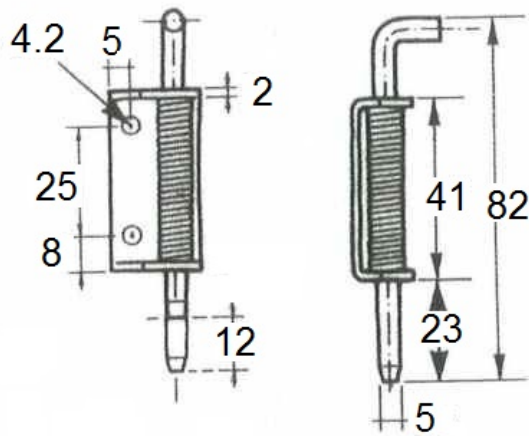
TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / TAILGATE LATCH SPRING LOADED 4 SIZES / 5mm DIAM BOLT



Small sized latch ideal for light duty applications like covers, small doors etc.
Can also be used as a hinge on cabinet doors that may need to be easily removed.
Zinc Plated.

Part Number	AL03346 = R/Hand AL03347 = L/Hand
o/a length	82mm
Body length	42mm
Pin Diameter	5mm



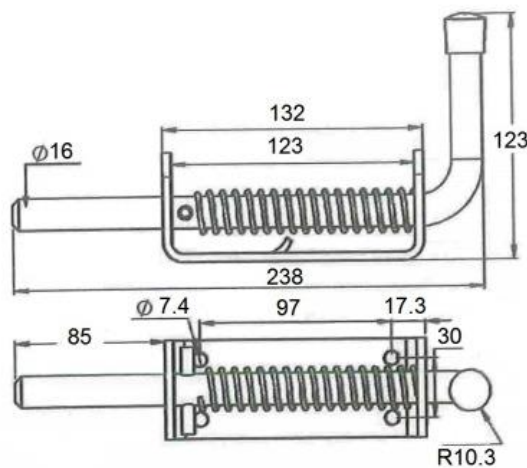


16mm DIAM BOLT

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / TAILGATE LATCH SPRING LOADED 4 SIZES / 16mm DIAM BOLT



Part Number	AL03439
Unit weight	0.9 Kg
o/a length	238mm
Body length	132mm
Pin Diameter	16mm



TAILGATE SWIVEL LATCH

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / TAILGATE SWIVEL LATCH



Weld on swivel tailgate latch. Suitable for trailers and other applications.

AL00042	left hand
AL00043	right hand

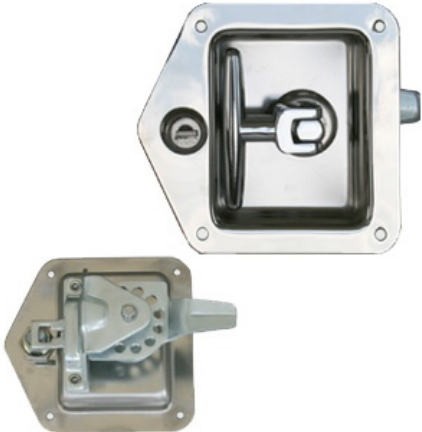


DROP T LOCKS

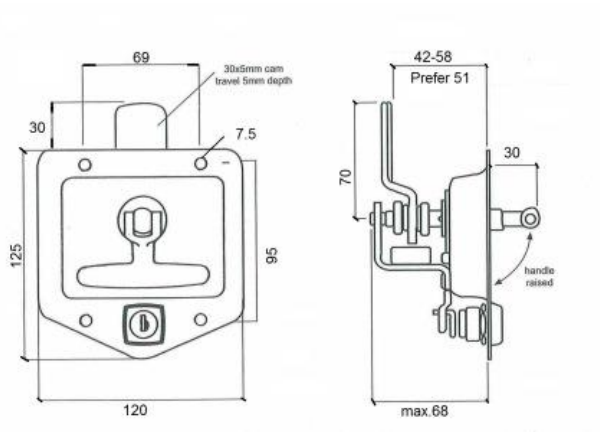
TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / DROP T LOCKS

Our Drop T locks are made from grade 304 Stainless Steel with a polished finish.
 Locks are keyed alike and supplied with 2 keys.
 Supplied with sealing gaskets.

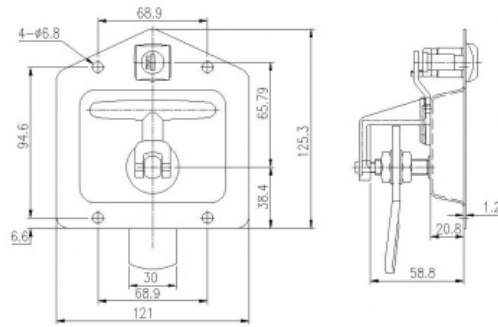
Part No	Description
AL00805	Standard offset keeper as detailed below.
AL03366	With Flat keeper.



With standard offset keeper.



With flat Keeper



COMPRESSION LATCH LIFT AND TURN

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / COMPRESSION LATCH LIFT AND TURN



Aline Trading P/L stock this quality American made Lift & Turn Compression Latch for situations that require a stronger more robust closure.

Lift & Turn Compression Latches feature:

Low profile when latched.

Easy grip adjustment.

Intuitive operation

Zinc alloy powder coated black & Zinc plated steel.

Max static load: 440 N

Environmental sealing is achieved by using the 0.4mm gasket supplied and by sealing the mounting screw threads when installing.

2 keys.

Steel shaft and cam for greater strength. Not die cast alloy!

Grip range = 16-26 mm when cam forward.

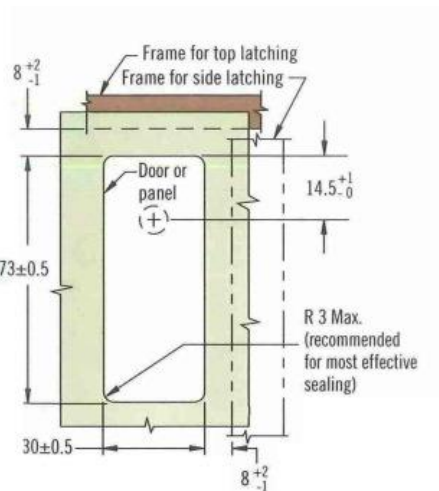
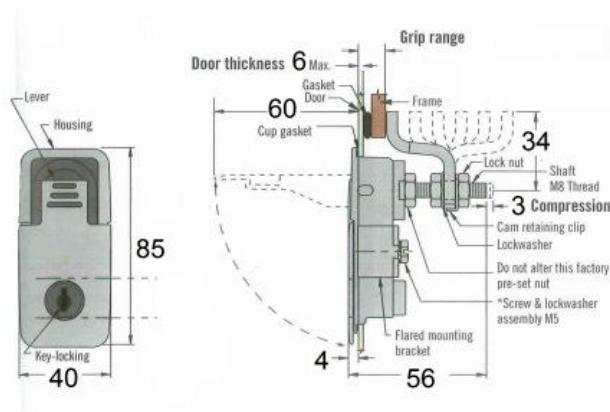
46-56 mm when cam reversed.

Note: The M5 x 16 mounting screw and lock washer supplied is designed for a max door skin thickness of 6 mm. For thicker materials allow for the door skin thickness +10 mm.

Add 0.4mm to door thickness for the cup gasket.

Part No	Description
AL00810	Compression latch Lift & Turn - Black.





HEAVY DUTY CORNER FASTNER

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / HEAVY DUTY CORNER FASTNER

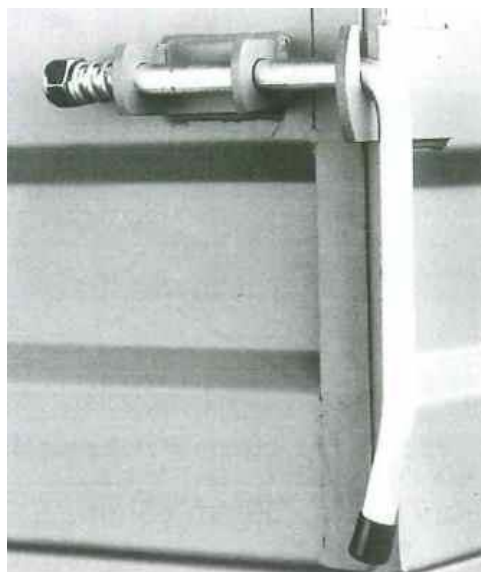
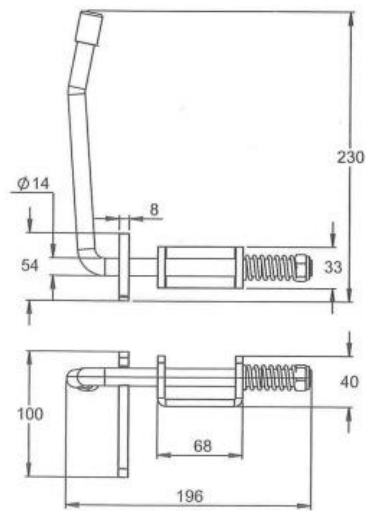


Aline Trading Pty Ltd â€™ Heavy Duty Side Board Fastener.

A heavy duty Zinc plated fastener designed for use on Ute/ small truck trays and farm trailers.

Part No	Description
AL00820	H/Duty corner fastener.





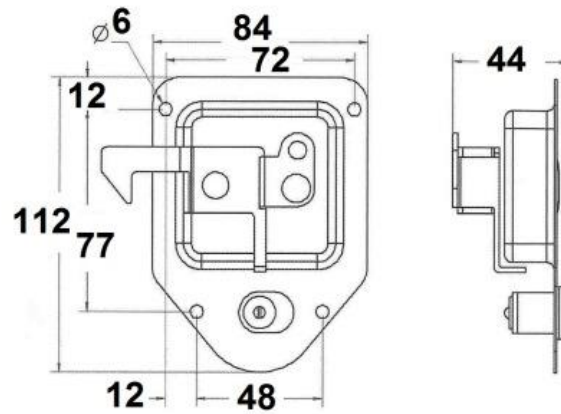
AL00819 - FLUSH PADDLE LATCH

TRAILER AND BODY EQUIPMENT / CATCHES AND LATCHES / AL00819 - FLUSH PADDLE LATCH



A compact lockable flush mount paddle latch.

Part No	AL00819
Material	Stainless Steel
Finish	Polished
Weight	220g



HINGES

TRAILER AND BODY EQUIPMENT / HINGES



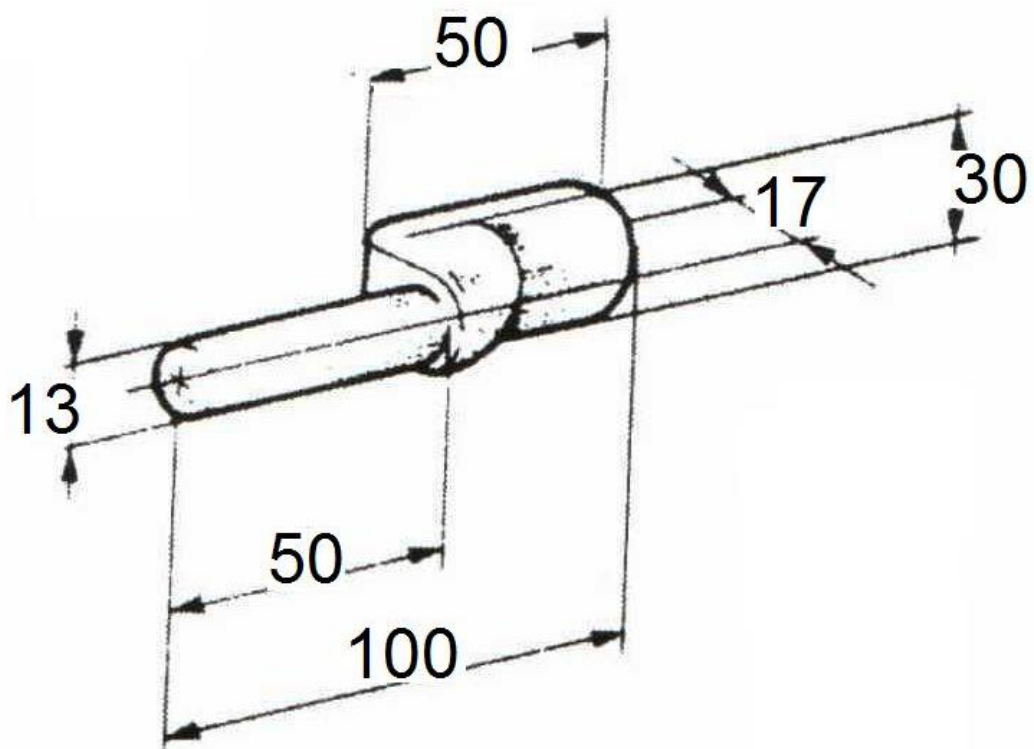
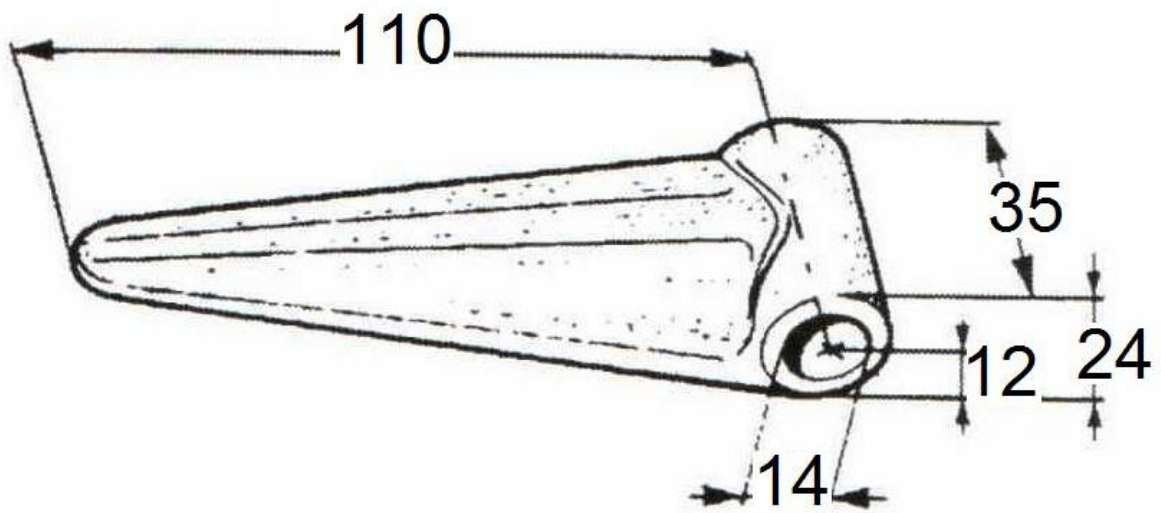
Aline Trading Pty Ltd presents a range of versatile and reliable hinges suitable for a wide range of manufacturing applications.

TAILBOARD HINGE AND PIN

TRAILER AND BODY EQUIPMENT / HINGES / TAILBOARD HINGE AND PIN



The AL00835 is a simple yet practice weld on hinge and pin unit designed for use on trailer and ute drop sides, and other applications that require sides, doors or cover panels to be removed with ease.
Sold as a body & pin set.



TAILBOARD HINGE AND PIN. FLAT SHORT.

TRAILER AND BODY EQUIPMENT / HINGES / TAILBOARD HINGE AND PIN. FLAT SHORT.



Part No	AL00822
Material	Gudgeon Pin = Forged Steel Bush = Nylon Hinge Strap = Steel - 40 mm wide x 90 mm long



TAILOARD HINGE AND PIN.FLAT. LONG.

TRAILER AND BODY EQUIPMENT / HINGES / TAILOARD HINGE AND PIN.FLAT. LONG.



Part No	AL00829
Material	Gudgeon Pin = Pressed & welded steel. Bush = Nylon Hinge Strap = Steel - 40 mm x 6mm x 250mm long



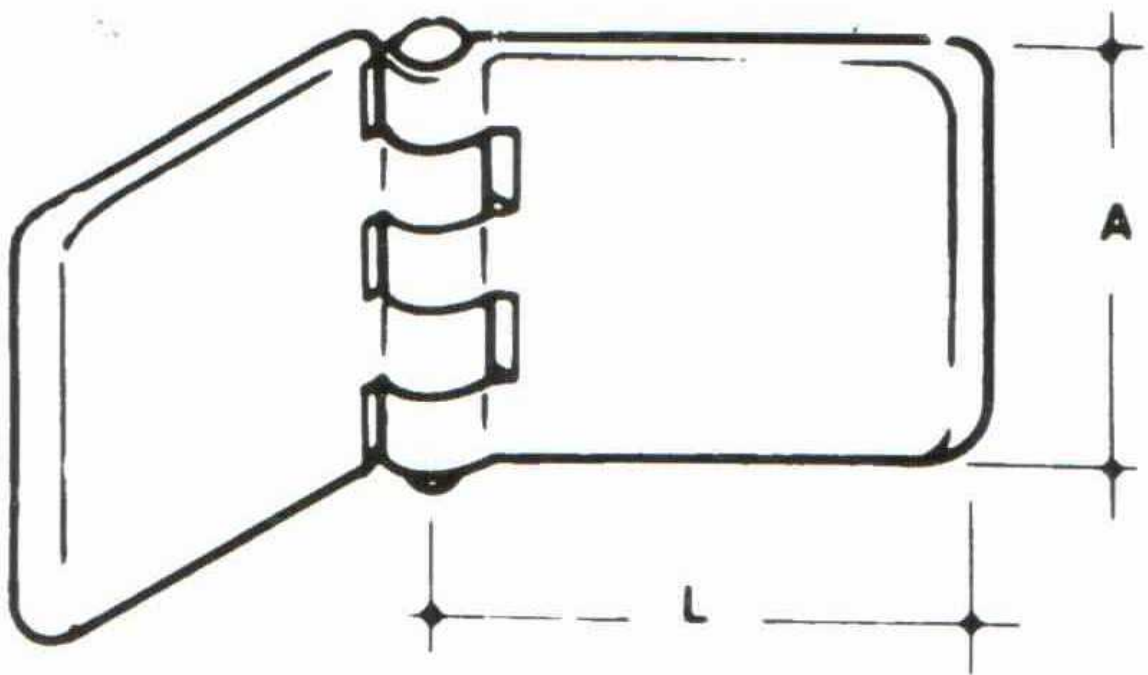
HEAVY DUTY HINGE WITH GREASABLE PIN

TRAILER AND BODY EQUIPMENT / HINGES / HEAVY DUTY HINGE WITH GREASABLE PIN



The AL00783 is a heavy duty weld on hinge with greasable pin. Its solid construction makes it ideal for manufacturers that require a strong yet simple hinge.

Part Number	AL00783
A	60 mm
L	80 mm
Material	6.2 mm
Pin diameter	7 mm



EUROPEAN 3 PIECE DROPSIDE HINGE

TRAILER AND BODY EQUIPMENT / HINGES / EUROPEAN 3 PIECE DROPSIDE HINGE



The AL00816 is a European designed weld on 3 piece hinge designed for use on the drop sides of farm trailers.

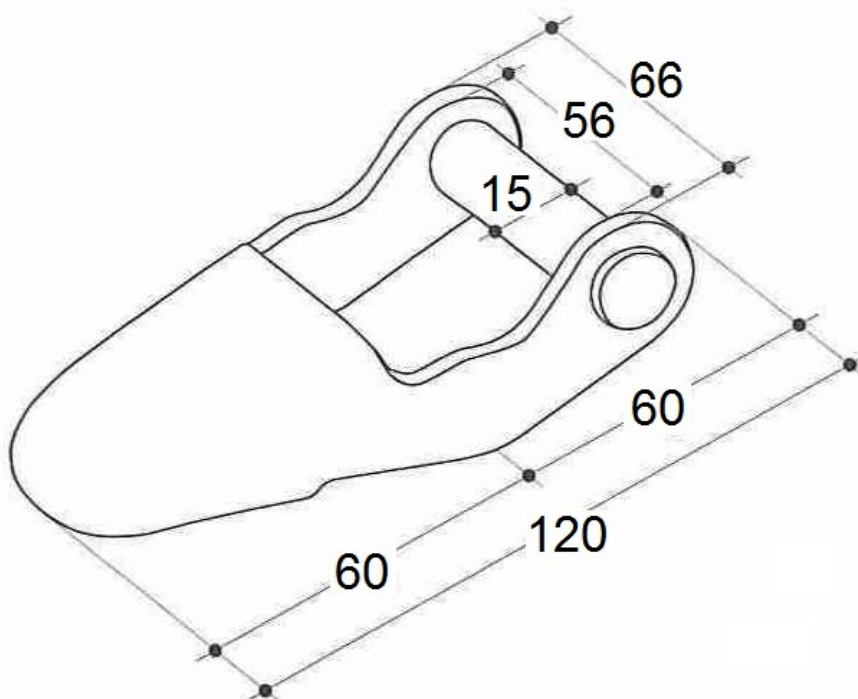
A common hinge pin / rail (Not supplied by Aline) connect the hinges. The flat centre section of the hinge is welded to this rail and when the rail is rotated it opens the hinge allowing the drop side to be removed.

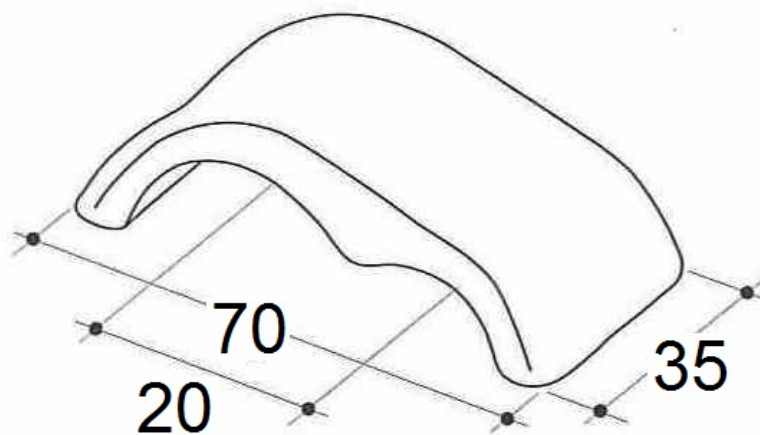
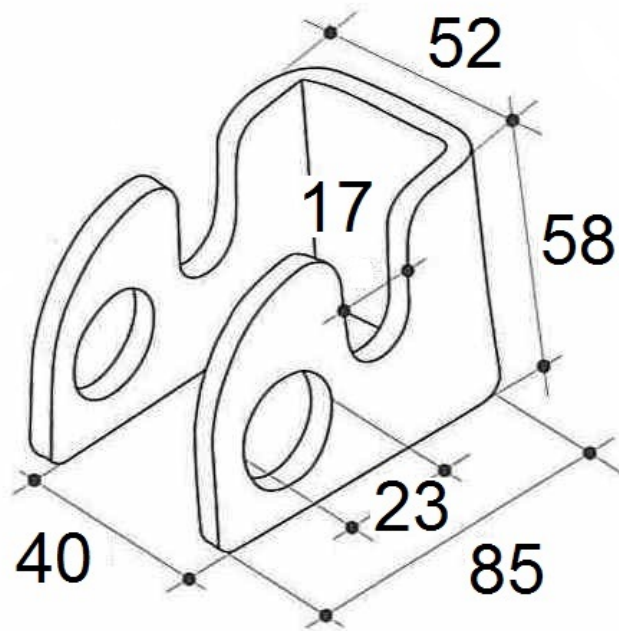


The photo below shows a 3 piece hinge in use on a drop side trailer. The upper section is galvanised with the drop side. You can see how a common rail is used to lock the keepers in place. This rail can be used to connect several hinges. When the rail is rotated it opens the hinges allowing for the drop sides to be removed.



The three pieces of the hinge are detailed below.





PINTLE HINGE - WELD ON

TRAILER AND BODY EQUIPMENT / HINGES / PINTLE HINGE - WELD ON



Weld- On Pinte hinges.

Suitable for many applications including tool boxes, trailers and truck boxes.

The below items are stocked items. Other sizes and materials are available to order.

Part No	Length	Material	Body mm	Pin mm
AL00808	60mm	Steel - brass pin	10x12	6
AL00786	80mm	Steel - brass pin Grease Nipple	13x15.5	8
AL00809	80mm	Steel - brass pin	13x15.5	8
AL00815	80mm	Aluminium - S/S pin	13x15.5	8
AL00824	80mm	Aluminium - S/S pin Grease Nipple	13x15.5	8
AL00807	100mm	Steel - brass pin Grease nipple	16x20	10
AL00812	100mm	Steel - brass pin	16x20	10
AL00825	100mm	Aluminium - S/S pin	16x20	10
AL03365	150mm	Aluminium - S/S pin	20x25	13
AL03386	150mm	STEEL - BRASS PIN	20x25	13
AL03436	150mm	STEEL - BRASS PIN GREASE NIPPLE	20X25	13
AL03432	200mm	STEEL - BRASS PIN Grease Nipple	23x28.5	16



PINTLE HINGE - BOLT ON

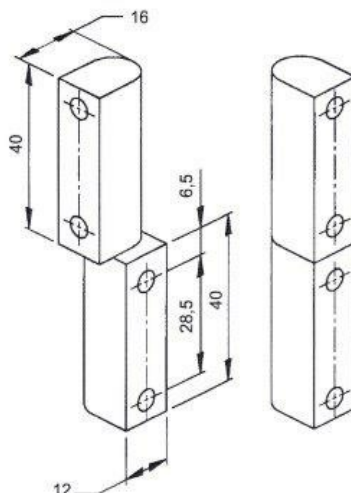
TRAILER AND BODY EQUIPMENT / HINGES / PINTLE HINGE - BOLT ON



Standard 80mm bolt on pintle block hinge, or lift-off hinge is a chrome plated, solid brass hinge with a stainless steel pin. All block hinges are supplied with fixing screws.

Part No	AL00823
Body	Solid Brass - Chrome Plated.
Pin	Dia 6 mm Stainless Steel.
Screws	M6 x 8 - 4 per hinge.





CENTRAFLEX CONTINUOUS HINGE

TRAILER AND BODY EQUIPMENT / HINGES / CENTRAFLEX CONTINUOUS HINGE



AL03349

CENTRAFLEX Continuous hinge and seal.

Perfect for hinging and sealing doors on trailers and larger tool boxes.

Centraflex is a stylish, one piece, and continuous hinge developed by taking full advantage of the latest advances in new materials and manufacturing technology.

The membrane of the Centraflex Hinge is a flexible resin comprising of a patented blend of polyester elastomers combining the high strength of engineering resins with excellent flexibility. The result is that Centraflex Hinge has an excellent flex-life at temperatures ranging from minus 40 deg C to 50 deg C.

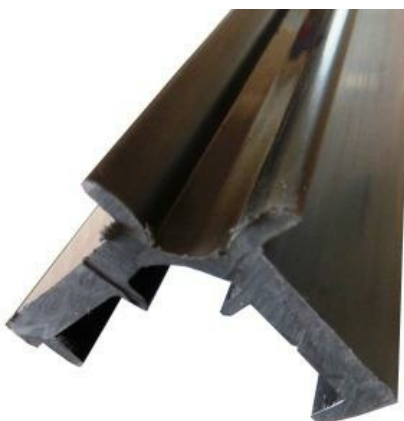
During the manufacturing process; co-extruded rigid P.V.C profiles are fused together with the molten, Centraflex Hinge membrane creating an extremely strong and resilient hinge. **For example a 1 metre length fitted horizontally has a S.W.L of 100 kg.**

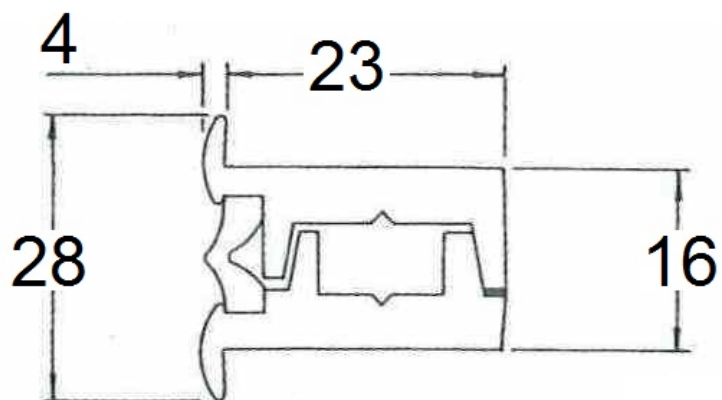
Centraflex is a well-designed hinge offering many advantages over conventional continuous hinges currently available in the market.

Features:

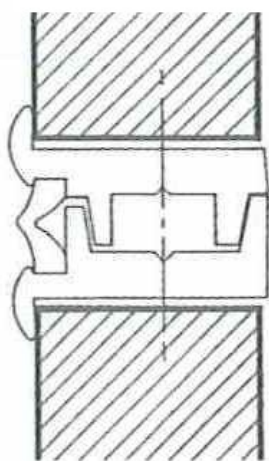
- Durable. Tested to over 50,000 operating cycles.
- Secure interlocking profile when closed.
- Maintenance free.
- Aesthetically pleasing, low exterior profile.
- Concealed fixings.
- Easy to fix.
- Weatherproof continuous seal.
- Corrosion resistant.
- U.V light stabilised.
- Excellent flex life.
- Competitively priced.

Part No	AL03349
Hinge length	3000 mm
Capacity	100 Kg / m

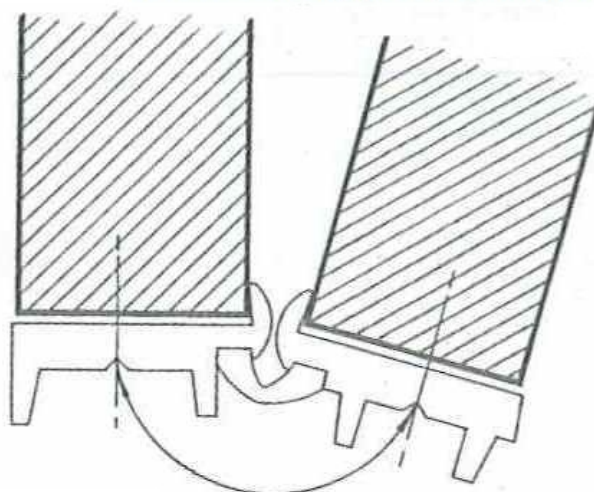




Closed



160 deg opening



PIANO HINGE

TRAILER AND BODY EQUIPMENT / HINGES / PIANO HINGE



A robust piano hinge suitable for many applications.
Other sizes and material types available to order.

Part No	Width	Length	Material	Pin Diameter
AL03193	50mm	1800mm	M/Steel	4.5mm



LASHING RINGS

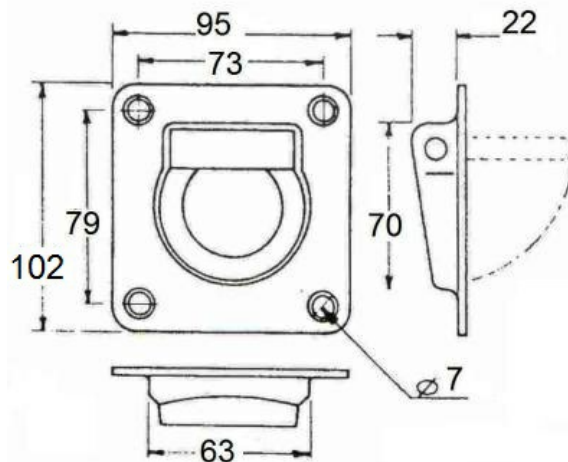
TRAILER AND BODY EQUIPMENT / LASHING RINGS



Aline Trading present the following range of recessed lashing rings suitable for many applications including Ute backs, trailers and farm equipment.

Part No	S.W.L - kg	Material / Finish	Size mm
AL03152	500	Steel / Zinc Plated.	95 x 102
AL03387	500	Stainless Steel	95 x 102
AL03314	1800	Steel / Zinc Plated	125 x 115

AL03152 - AL03387 Dimensions



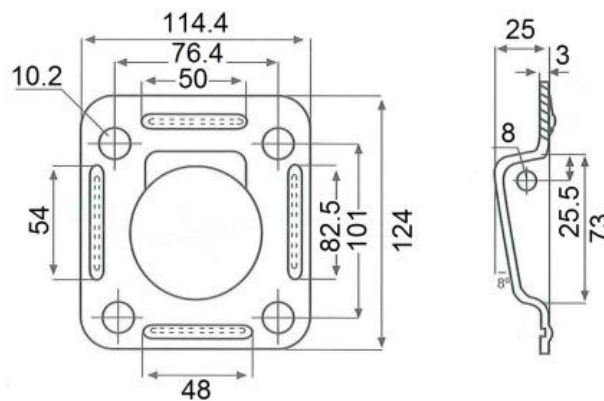
AL03152 - Zinc Plated 500 Kg S.W.L



AL03387 - Stainless Steel. 500 Kg S.W.L
With tension spring.



AL03314 - Dimensions



AL03314 - Zinc Plated 1800 Kg S.W.L



DRAW SLIDES

TRAILER AND BODY EQUIPMENT / DRAW SLIDES



Aline Trading stock a select range of the quality Dura Slide heavy duty drawer slides. Our drawer slides are high quality and suitable industrial and domestic applications. Features include locking mechanisms, smooth glide, soft closing, high load capacity & ball bearing construction which are suitable for light to heavy duty needs.

Listed below is our stocked range of Heavy Duty 225 KG locking and Non- Locking slides.

Other lengths and capacities are available to request.

Light Duty 45 kg. Non-Locking. 300mm â€" 900mm.

Medium Duty 125 kg. Locking/Non-Locking. 300mm â€" 1000mm.

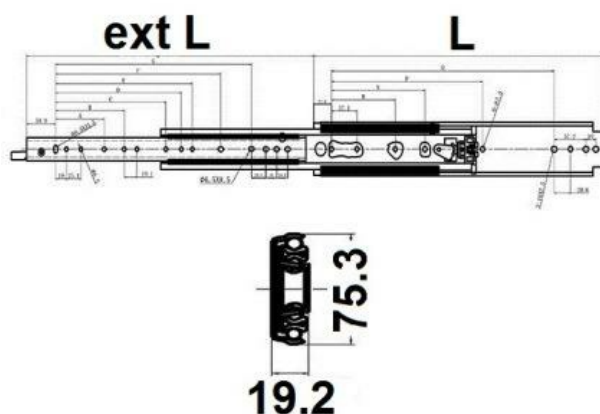
Heavy Duty 225 kg. Locking/Non-Locking. 350mm â€" 1500mm.

Non-locking 225 KG series			
P/No	Closed L mm	Open L mm	KG at Full Extension
AL03499	600	1200	225
AL03501	1200	2400	170
AL03503	1500	3000	140
Locking 225 KG series			
P/No	Closed L mm	Open L mm	KG at Full Extension
AL03512	500	1000	225
AL03500	600	1200	225
AL03502	1200	2400	170
AL03504	1500	3000	140

Photo shows non-locking.



Drawing shows locking style.



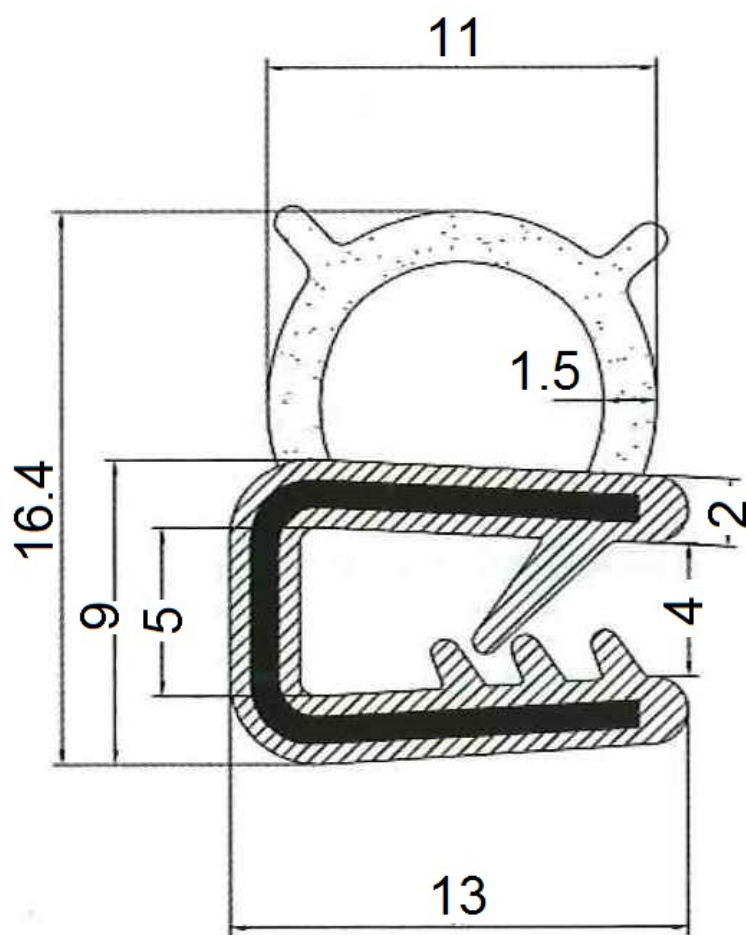
PINCHWELD WEATHER SEAL

TRAILER AND BODY EQUIPMENT / PINCHWELD WEATHER SEAL



Pinch weld seals provide an easy, clean and weather resistant finish to exposed sharp edges around door openings. Common situations include tool boxes, vehicle bodies, trailers, boats, farm or industrial equipment.

Part No	AL03459
Style	Side Mount - 053
Grip Range	1.0 - 2.0mm
Sold	per/ metre



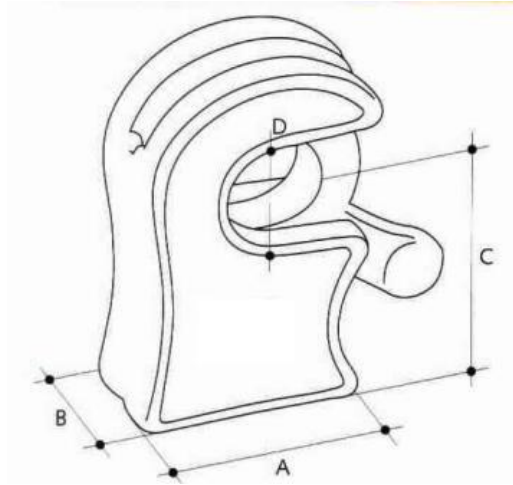
LINK BLOCKS

TRAILER AND BODY EQUIPMENT / LINK BLOCKS

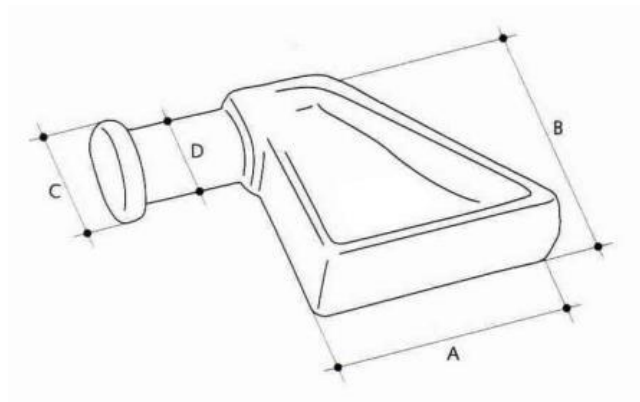


Aline Trading P/L presents a range of Link block locks and pins. Designed primarily for use as closures for heavy trailer or truck tailgates they can also be used for many other applications.

LINK BLOCK LOCKS						
Part No	Description	A	B	C	D	MAX LOAD KG
AL02772	20mm lock	67	38	67	21	1400
AL00840	30mm lock	80	40	71	31	1950
AL02773	40mm lock	95	52	95	40	2930



LINK BLOCK PINS						
Part No	Description	A	B	C	D	MAX LOAD KG
AL02770	20mm pin	125	115	32	20	1150
AL00837	30mm pin	130	115	41	30	1700
AL02771	40mm pin	130	125	52	38	2400





FULL LENGTH AXLE ASSEMBLIES

TRAILER AND BODY EQUIPMENT / FULL LENGTH AXLE ASSEMBLIES



Aline Trading P/L present a range of full length braked and un-braked axle assemblies suitable for on-road and off-road trailers.

The information below shows the styles available, load capacities and most common fitments. Our axles are made to order which allows us to vary the lengths and stud patterns to meet your needs.

Notes:

- Load capacity rated at 110km/hr. Highway speed.
- Axles supplied fully assembled unless otherwise requested.
- Information about how to measure and order axles can be found at the bottom of this page.

Please contact us today with your requirements.

Unbraked Axle Assemblies		
Shaft	Capacity	Fitment
39mm round	750 Kg	Holden, Ford, Mini, Landcruiser.
40mm square	1000 Kg	Holden, Ford, Mini, Landcruiser.
45mm round	1300 Kg	Holden, Ford, Mini, Landcruiser.
45mm square	1400 Kg	Holden, Ford, Mini, Landcruiser.
45mm square	1500 Kg	Landcruiser
50mm Square	1400 Kg	Holden, Ford, Landcruiser
50mm square	2000 Kg	Landcruiser 5 or 6 stud
65mm round	2750 Kg	Landcruiser 5 or 6 stud
63mm square	3000 Kg	Landcruiser 5 or 6 stud

Unbraked (Lazy) Axle.



Drum Brake Axles.			
Mechanical side lever hubs.			
Shaft	Capacity	Drum	Fitment
40mm square	1000 Kg	9"	Holden, Ford, Mini, Landcruiser.
45mm square	1300 kg	9"	Holden, Ford, Landcruiser.
50mm square	2000 Kg	11"	Landcruiser
Hydraulic			
Shaft	capacity	Drum	Fitment
40mm square	1000 Kg	9"	Holden, Ford, Mini, Landcruiser.
45mm square	1300 Kg	9"	Holden, Ford, Landcruiser.
50mm square	2000 Kg	11"	Landcruiser.
63mm square	2000 kg	11"	Landcruiser.
Electric			
Shaft	capacity	Drum	Fitment
40mm square	1000 kg	10"	Holden, Ford, Mini, Landcruiser.
45mm square	1400 kg	10"	Holden, Ford, Landcruiser.
50mm square	1500 kg	10"	Holden, Ford, Landcruiser.
50mm square	1600 Kg	10"	Landcruiser.
50mm square	2000 Kg	12"	Landcruiser.
65mm round	2400 Kg	12"	Landcruiser.
63mm square	2400 Kg	12"	Landcruiser.

Hydraulic drum brake hub. 40mm SQ shaft.



Below.

Full length axle fitted with hydraulic drum brakes. Brake lines T piece and rubber connecting hose are supplied fitted with the axle. Shown with optional 15 x 7 Sunraysia wheel with 235/75R15 tyre.



Hydraulic Disc Brake Axles		
Shaft	Capacity	Fitment
40mm square	1000 Kg	Holden, Ford, Mini, Landcruiser.
40mm square. Beehive 8" - 10" wheels	1000 Kg	Holden, Ford, Mini.
45mm square	1400 Kg	Holden, Ford, Landcruiser.
50mm square. Parallel bearings.	1500 Kg	Landcruiser 5 or 6 stud.
50mm square.	2000 Kg	Landcruiser 5 or 6 stud.
63mm square	2000 Kg	Landcruiser 5 or 6 stud

Standard hydraulic disc brake axle.



Mechanical Disc Brake Axles		
Shaft	Capacity	Fitment
40mm square	1000 kg	Holden, Ford, Mini, Landcruiser.
40mm square Beehive. 8 - 10 " wheels.	1000 kg	Holden, Ford, Mini.
45mm square	1400 kg	Holden, Ford, Landcruiser.
45mm square. Beehive 8 - 10" wheels	1400 kg	Holden, Ford, Mini.
50mm square. Parallel bearings.	1500 kg	Landcruiser 5 or 6 stud.
50mm square	2000 kg	Landcruiser 5 or 6 stud.

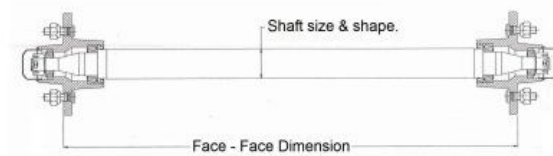
Standard mechanical disc brake hub.



Beehive disc brake hub. Suits 8" - 10" boat trailer wheels.



Standard full length axle.

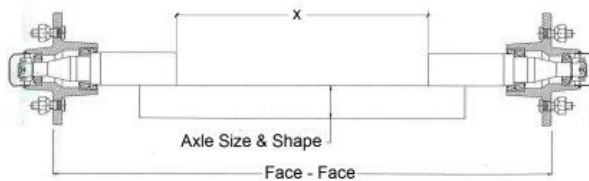


Overlay axle.

Designed to lower trailer height.

Available in braked and un- braked versions.

Additional charge applies.



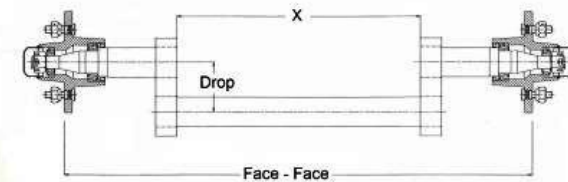
Drop Axle.

Designed to lower trailer height

Available in 2.5" or 4" drops. (Drop plates vary in thickness depending on size)

Available in braked and un- braked versions.

Additional charge applies.



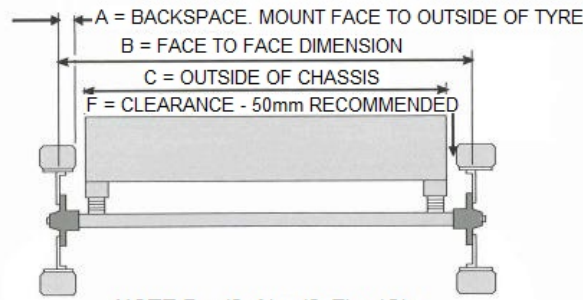
How to calculate axle lengths.

When ordering full length axles it is important to take the correct dimensions to ensure your axle will fit.

If ordering a replacement axle measure the Face to Face dimension (B) across the hubs. The face is the surface that the wheel contacts when fitted. See Below.

When building a new trailer the same dimension is required however you will have to check your chassis clearance and wheel backspace to ensure the correct dimension is calculated.

Note: The recommended chassis clearance is 50mm however this can be varied to suit your needs.



DIMENSIONS IN mm. TOLERANCE ON LENGTH = ± 5 mm

Popular Hub bolt patterns			
Type	Number of studs	Stud *	P.C.D
Mini (ATV)	4	1/2"	4" (101.6mm)
Holden HT	5	7/16"	4.25" (107.95mm)
Ford	5	1/2"	4.5" (114.3mm)
Commodore	5	1/2"	120mm
Commodore VE	5	9/16"	120mm
Holden HQ	5	7/16"	4.75" (120.65mm)
Landcruiser New	5	9/16"	150mm
Landcruiser Old	6	1/2"	5.5" (139.7mm)
USA Tractor	6	1/2"	6" (152.4mm)
USA Tractor	6	9/16"	6" (152.4mm)

* Stud size supplied in hubs

STUB AXLE ASSEMBLIES

TRAILER AND BODY EQUIPMENT / STUB AXLE ASSEMBLIES



Aline Trading P/L offer a wide range of stub axle assemblies with various capacities and designs to suit your needs.

The products listed below represent our standard range and are divided into three sections.

- On-road rated.** These are designed for high speed applications such as road trailers and fit most standard road vehicle wheels. These can also be used for Agricultural and Industrial applications if suitable.
- Off-Road rated.** Suitable for low speed Agricultural and Industrial trailers. Especially those used in soil tillage applications or those involving dirty conditions. Features include: Quality materials and bearings, multi lip seals, replaceable seal wear rings on most models and bolt on cast iron dust caps to prevent loss during use.
- FAD Off-Road rated.** Suitable for low speed agricultural and industrial trailers. The Italian FAD range of stub axles feature a strong forged steel hub that offers increased strength and reduced weight.

Other variations are available on request. Please contact us today to discuss your requirements.



On-Road range.

On-Road rated 100 kmph						
Part No	Fitment	P.C.D	Stud	Flange	Stub	Kg/ea
AL03155	HT	5/107.95	7/16"	140	39 RND	375
AL03250	HQ	5/120.65	7/16"	150	39 RND	375
AL03008	Mini	4/100	1/2"	140	39 RND	375
AL03251	Ford	5/114.3	1/2"	140	39 RND	375
AL03252	Ford	5/114.3	1/2"	150	39 RND	375
AL03253	L/Cruiser	6/139.7	1/2"	190	39 RND	375
AL03241	HT	5/107.95	7/16"	140	40 SQ	500
AL03379	HQ	5/120.65	7/16"	150	40 SQ	500
AL03149	Mini	4/100	1/2"	140	40 SQ	500
AL03012	Ford	5/114.3	1/2"	140	40 SQ	500
AL03120	Ford	5/114.3	1/2"	150	40 SQ	500
AL03156	L/Cruiser	6/139.7	1/2"	190	40 SQ	500
AL03367	HT	5/107.95	7/16"	150	45 SQ	700
AL03380	HQ	5/120.65	7/16"	150	45 SQ	700
AL03220	FORD	5/114.3	1/2"	150	45 SQ	700
AL03381	L/CRUISER	6/139.7	1/2"	190	45 SQ	700
AL03267	L/CRUISER	6/139.7	1/2"	190	45 RND	700
AL03182	L/CRUISER	6/139.7	1/2"	190	50 SQ	700
AL03090	L/CRUISER H40	6/139.7	1/2"	183	50 SQ	1000
AL03238	L/CRUISER H40	6/139.7	1/2"	183	50 RND	1000
AL03312	USA TRACTOR	6/152.4	1/2"	183	50 RND	1000
AL03378	USA TRACTOR	6/152.4	1/2"	191	56 RND	1600
AL03322	USA TRACTOR	6/152.4	9/16"	191	56 RND	1600
AL03243	L/CRUISER H50	6/139.7	1/2"	191	56 RND	1600
AL03003	L/CRUISER H50	6/139.7	1/2"	191	63 SQ	1600

Off-Road model



Off-Road rated at 25kmph						
Part No	Fitment	P.C.D	Stud	Flange	Stub	Kg/ea
AL03448	L/CRUISER	6/139.7	1/2	191	50 SQ	1600
AL03449	DIN 5 STUD	5/140	M16	191	50 SQ	1600
AL03249	L/CRUISER	6/139.7	1/2"	191	63 SQ	2000
AL03450	L/CRUISER	6/139.7	1/2"	191	60 SQ	2000
AL03201	DIN 6 STUD	6/205	M16	250	63 SQ	2000
AL03237	DIN 6 STUD	6/205	M18	250	63 SQ	2500
AL03451	DIN 6 STUD	6/205	M18	250	60 SQ	2500
AL03452	DIN 6 STUD	6/205	M18	250	70 SQ	3000
AL03195	DIN 6 STUD	6/205	M18	250	75 RND	3500
AL03248	DIN 8 STUD	8/275	M18	320	75 RND	3500
AL03246	DIN 6 STUD	6/205	M18	250	80 RND	4000
AL03245	DIN 6 STUD	6/205	M18	250	80 SQ	4000
AL03247	DIN 8 STUD	8/275	M18	320	80 RND	4000
AL03239	DIN 8 STUD	8/275	M18	320	80 SQ	4000
AL03453	DIN 6 STUD	6/205	M18	250	80 SQ	4500
AL03235	DIN 8 STUD	8/275	M20	320	90 SQ	5500
AL03454	DIN 8 STUD	8/275	M20	320	90 SQ	5500
AL03236	DIN 10 STUD	10/335	M22	381	90 SQ	5500
AL03244	DIN 10 STUD	10/335	M22	381	100 SQ	6500
AL03186	DIN 10 STUD	10/335	M22	390	110 RND	15000
AL03242	EARTH MOVER	12/425	M24	486	150RND	20000

FAD. Off-Road stub axles.

Since the 1950s the Italian made FAD axles have become well known as a quality product designed for agricultural applications.

Off-Road rated at 25kmph - IMPORTED FAD RANGE						
Part No	Fitment	P.C.D	Stud	Flange	Stub	Kg/ea
AL03231	DIN 5 STUD	5/140	M16	175	50 SQ	1600
AL03230	DIN 6 STUD	6/205	M18	245	60 SQ	2500
AL03344	DIN 6 STUD	6/205	M18	245	70 SQ	3750
AL03273	DIN 8 STUD	8/275	M18	320	70 SQ	3750
AL03274	DIN 8 STUD	8/275	M18	320	80 SQ	4500
AL03275	DIN 8 STUD	8/275	M20	320	90 SQ	5500
AL03276	DIN 10 STUD	10/335	M22	380	90 SQ	5500
AL03277	DIN 10 STUD	10/335	M22	380	100 SQ	6500

AL03231 Shown below.

5 stud - 1600 kg capacity.



COUPLINGS AND BALLS

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS

Aline Trading P/L present a range of trailer couplings and towing balls to suit both on road and off-road applications.
 Note: Agricultural tow eyes, both rigid and swivel are listed under a separate category.



50mm 2 HOLE COUPLING 2000 Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 50mm 2 HOLE COUPLING 2000 Kg



P/No AL00656

Australian Made.

A 50mm ductile iron, 2 mount hole, ball coupling. ADR rated to 2000 Kg for on-road applications.

The 2 hole coupling is best suited to trailers with single draw bars like boat trailers and small agricultural trailers such as spray vats etc.

- Anti rattle head adjustment screw.
- Padlock facility for security.
- 2 bolt mount at 102mm hole centres.
- Fits standard 50mm tow ball.

Note: Most states in Australia have a limit of 750kg for un-braked on-road trailers.

Part Number	AL00656
Capacity	2000 Kg
Fits	50mm Ball



50mm 3 HOLE COUPLING 2000 Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 50mm 3 HOLE COUPLING 2000 Kg



P/No AL00657

Australian Made.

A 50mm ductile iron, 3 mount hole, ball coupling rated ADR rated to 2000 Kg for on-road applications.

The 3 hole coupling is best suited to trailers with A frame draw bars.

- Ant rattle head adjustment screw.
- Padlock facility for security.
- 3 bolt mount. 51mm x 111mm pattern.
- Fits standard 50mm tow ball.

Note: Most states in Australia have a limit of 750kg for un-braked on-road trailers.

Standard 50mm 3 hole coupling	
Part number	AL00657
Capacity	2000 Kg
Fits	50mm ball



50mm HYDRAULIC OVERRIDE COUPLING 2000Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 50mm HYDRAULIC OVERRIDE COUPLING 2000Kg



P/No AL00704

Australian Made.

A 50mm hydraulic override coupling suitable for drum or disc brakes, ADR rated to 2000 Kg for on-road applications.

- Ant rattle head adjustment screw.
- Grease nipples fitted for servicing.
- Reversing lockout facility to disable braking.
- Padlock facility for security.
- 4 bolt mount. 54mm x 184mm pattern.
- Fits standard 50mm tow ball.

50mm Hydraulic override coupling	
Part Number	AL00704
Capacity	2000 Kg
Fits	50mm Ball



SPARE PARTS	
AL03270	Master cylinder support bracket with brake lever. Fitted with 3/4" master cylinder.
AL03052	3/4" master cylinder.
AL03254	3/4" Master cylinder cap.
AL03510	7/8" Master Cylinder.
AL03278	Master cylinder support bracket with brake lever.
AL00659	Override body.
AL00660	Safety catch assembly. Spring, clip & Pin)

AL03270 - 3/4" Master cylinder with support bracket.



AL00659 - Override body.



50mm MECHANICAL OVERRIDE COUPLING 2000Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 50mm MECHANICAL OVERRIDE COUPLING 2000Kg



P/No AL03097

Australian Made.

A 50mm mechanical override coupling suitable for drum or disc brakes, ADR rated to 2000 Kg for on-road applications.

- Ant rattle head adjustment screw.
- Grease nipples fitted for servicing.
- Reversing lockout facility to disable braking.
- Padlock facility for security.
- 4 bolt mount. 54mm x 184mm pattern.
- Fits standard 50mm tow ball.
- Supplied with park brake lever and plate.

50mm Mechanical override coupling	
Part No	AL03097
Capacity	2000 kg
Fits	50mm ball
Spare part plate and brake lever.	P/No AL02356
Override body - Complete	P/No AL00659
Brake cable kit: 1 adjuster, 8m cable 2 clips.	P/No AL03017



AL03017 - Brake cable kit.



AL02356 - Brake lever & plate.



AL00659 - Override body.



50mm ELECTRIC COUPLING 3500Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 50mm ELECTRIC COUPLING 3500Kg



P/No AL00708

Australian Made.

A 50mm heavy duty ductile iron ball coupling suitable for use with electric trailer brakes. ADR rated to 3500 Kg for on-road applications.

- Ant rattle head adjustment screw.
- Padlock facility for security.
- 4 bolt mount. 54mm x 184mm pattern.
- Fits standard 50mm tow ball.
- Anti-swing handbrake lever on a contoured ratchet.

50mm Electric coupling	
Part No	AL00708
Capacity	3500 kg
Fits	50mm ball



PARK BRAKE CABLE KIT	
Part No	Description
AL03017	1x adjuster, 8m cable, 2xclips.



COUPLING MOUNT PLATES

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / COUPLING MOUNT PLATES



Aline Trading P/L

These pre-made weld on coupling mount plates are available in two popular sizes that save you valuable time when making your trailer.

- Small plate P/N0 AL03429 suits single axle trailers with standard 3 hole couplings.
- Large plate P/No AL03082 suits tandem axle trailers with standard 4 hole couplings.

Part No	Description
AL03429	Single axle 3 hole.
AL03082	Tandem Axle 4 hole.

AL03429 coupling plate. Suits standard 3 hole couplings.



AL03082 coupling plate. Suits standard 4 hole couplings.



50mm TOW BALL 3500Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 50mm TOW BALL 3500Kg



Part No AL02284

Australian standard design. Suitable for applications up to 3500 Kg load capacity.

70mm COUPLING 6000kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 70mm COUPLING 6000kg



This heavy duty Australian Made 70mm ball coupling has been tested for onroad use up to 6000Kg capacity and is designed for larger on road trailers.

Mounting hole pattern = 184 mm x 54 mm

Part No	Description	Capacity
AL00703	70mm Coupling	6000 Kg



70mm TOW BALL 4500kg AND 6000kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 70mm TOW BALL 4500kg AND 6000kg



Standard 70mm tow balls suited to 4500kg or 6000kg couplings.

On-Road rated.

Part No	Description
AL00711	4500 kg capacity. 1.25" Shank
AL00706	6000 kg capacity. 1.50" Shank

2 5/16" OFFROAD COUPLING 6000 Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 2 5/16" OFFROAD COUPLING 6000 Kg



Part Number	139.592.050
Model	FB2516
Unit Weight	8.2 Kg
Capacity	6000 Kg
Suits	2 5/16" ball
Finish	Prime painted



2 5/16 INCH OFF-ROAD BALL 6000Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 2 5/16 INCH OFF-ROAD BALL 6000Kg



The Aline 2 5/16" (59mm) tow ball is fully machined from high grade steel and is designed for use with our FB style off-road (non highway) auto-lock couplings.

NOTE:

- The 2 5/16" ball and coupling are not accepted for on-road use in Australia.

Part number	139.592.010
Model	B2516
Unit weight	2.4 Kg
Capacity	6000 Kg
Shank Diam	45mm
Fits	FB series couplings
Finish	As machined. Zinc plated nut and washer



3" (76.2mm) ON-ROAD GP COUPLING 10000Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 3" (76.2mm) ON-ROAD GP COUPLING 10000Kg



The GP series Auto-Lock coupling is designed for use on heavy duty drawbar style trailers. If you are using a ball coupling for towing on Australian roads, it must be A.D.R approved. The Aline type GP couplings have been fully tested and certified by a Government approved testing authority.

Auto-Lock couplings close automatically when the ball enters the coupling jaws. All couplings come with a manual locking pin, which must be engaged prior to moving the vehicle.

Note:

- The 2 5/16" couplings and balls found on many imported trailers are not legal on- road in Australia.
- The coupling only complies with ADR's when used with our matching 3" tow ball. Don't use substitutes. Non original tow balls will void ADR62/02 approval.

Part number	139.334.120
Model	GP300
Unit weight	9.2 Kg
Capacity	10,000 Kg
Suits	3" (76.2mm) ball
Finish	Prime paint





3" (76.2mm) ON-ROAD SM COUPLING 5TH WHEELERS

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 3" (76.2mm) ON-ROAD SM COUPLING 5TH WHEELERS



The SM series Auto-Lock coupling is designed for use on 5TH wheel trailers and horse floats. The 3" coupling and ball are the only size that can be legally used on Australian roads. If you are using a ball coupling for towing on Australian roads, it must be A.D.R approved. The Aline type SM couplings have been fully tested and certified by a Government approved testing authority.

Auto Lock couplings close automatically when the ball enters the coupling jaws. All couplings come with a manual locking pin, which must be engaged prior to moving the vehicle.

Note:

- The 2 5/16" couplings and balls found on many imported trailers are not legal on- road in Australia.
- The coupling only complies with ADR's when used with our matching 3" tow ball. Don't use substitutes. Non original tow balls will void ADR62/02 approval.



Part Number	139.334.110
Model	SM300
CRN	24974
Unit Weight	8.2 Kg
Capacity	10,000 Kg
Suits	3" (76.2mm) ball.
Finish	Prime painted



3" (76.2mm) ON-ROAD BALL 10000Kg

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / 3" (76.2mm) ON-ROAD BALL 10000Kg



The Aline 3" (76.2mm) tow ball is fully machined from high grade steel and is designed for use with our SM and GP style on-road couplings. The tow balls have been fully tested and approved to ADR standards and are supplied stamped with the relevant information.

Note:

- The tow ball only complies with ADR's when used with our matching 3" couplings. Don't use substitutes. Non original couplings or balls will void ADR approval.

Part Number.	139.334.010
Model	B3
CRN	25147
Unit weight	4.85 Kg
Capacity	10,000 Kg
Shank Diam	50.8mm
Finish	As machined. zinc plated nut and washer.



AUTOMATIC COUPLINGS

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / AUTOMATIC COUPLINGS



40mm AUTO COUPLING

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / AUTOMATIC COUPLINGS / 40mm AUTO COUPLING



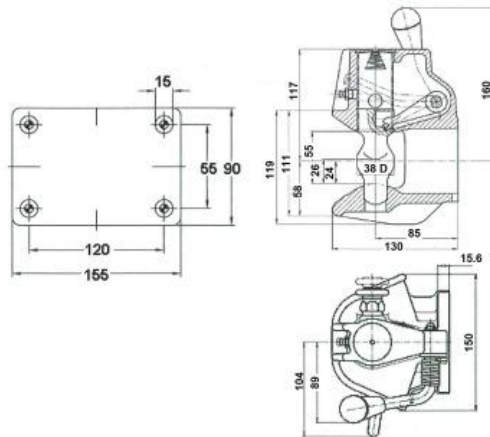
Aline Trading Pty Ltd.

A compact automatic trailer coupling for light trucks, industrial and agricultural equipment. I.e. fork lifts / grain harvesters.

Suits 40mm diameter tow eyes.

ADR Approved

Part number	AL03170
Model	R243
CRN	43247
Funnel size	100mm x 150mm
Mounting holes	120mm x 55mm - 15mm Diam
Weight	4.4 Kg
D - value	30 (kN)
Dc - value	30 (kN)
S - value (admissible static vertical load)	350 (kg)
V - value	12 (kN)
-----	-----
Off - Road use information	
Max tow vehicle weight	5000 (kg)
Max tow load without vertical load	20,000 (kg)



PINTLE HOOKS ON-ROAD RATED

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / PINTLE HOOKS ON-ROAD RATED



Aline trading prents a range of quality approved pintle hooks suitable for on or off-road towing applications. Each unit has a CRN number and have been tested in Australia to comply with the ADR's

All models are supplied with a mounting kit.

8 ton MEDIUM DUTY

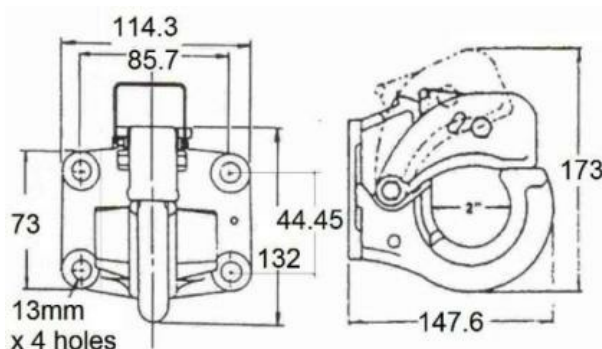
TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / PINTLE HOOKS ON-ROAD RATED / 8 ton MEDIUM DUTY



The 8 ton medium duty rigid pintle hook is made from forged alloy steel & finished with black powder coat for durability and corrosion resistance.

Pintle hooks are supplied individually boxed and include mounting information, specification sheet, mounting kit and drilling template.

Part Number	AL03040
Max vertical load	1451 kg
M.G.T.W	7257 kg
Weight	4.34 kg
D-Value	50kn
CRN	37270
Drawbar eye diameter	50-76 mm
Drawbar eye section	32-41 mm



8 ton DUAL PURPOSE BALL AND HITCH

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / PINTLE HOOKS ON-ROAD RATED / 8 ton DUAL PURPOSE BALL AND HITCH

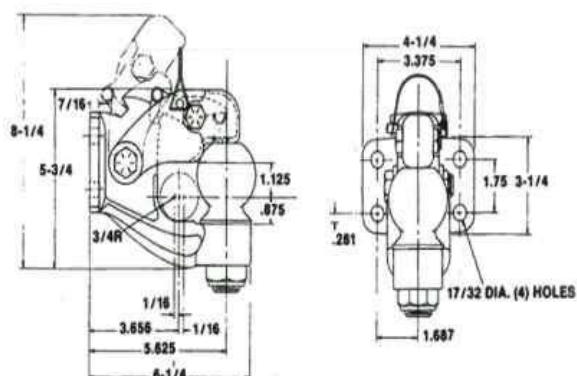


Combination pintle hook with 50mm ball.

Made from drop forged alloy steel and finished with black powder coat for durability and corrosion resistance.

Supplied individually boxed and include mounting information, specification sheet, mounting kit and drilling template.

Part Number	AL03031
Model	BPC BH 850MM
Max vertical load	1361 kg
M.G.T.W	7257 kg
Max ball tow capacity on-road	3500 kg
Weight	5.9 kg
D-Value	30 kn
CRN	37265
Drawbar eye diameter	63.5mm -76 mm
Drawbar eye section	32-41 mm



15 ton HEAVY DUTY

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / PINTLE HOOKS ON-ROAD RATED / 15 ton HEAVY DUTY

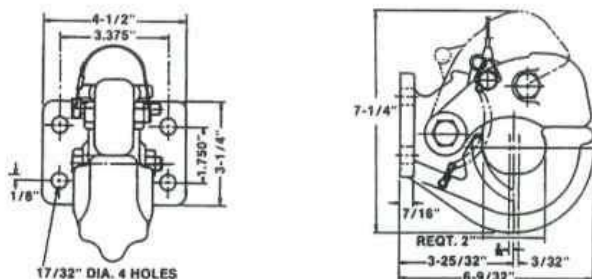


The 15 ton heavy duty rigid pintle hook is made from forged alloy steel & finished with black powder coat for durability and

corrosion resistance.

Pintle hooks are supplied individually boxed and include mounting information, specification sheet, mounting kit and drilling template.

Part Number	AL02446
Model	BPC PH 15 WMK
Max vertical load	2722 kg
M.G.T.W	13608 kg
Weight	5.33 kg
D-Value	75 kn
CRN	37267
Drawbar eye diameter	50-76 mm
Drawbar eye section	32-41 mm



20 ton HEAVY DUTY

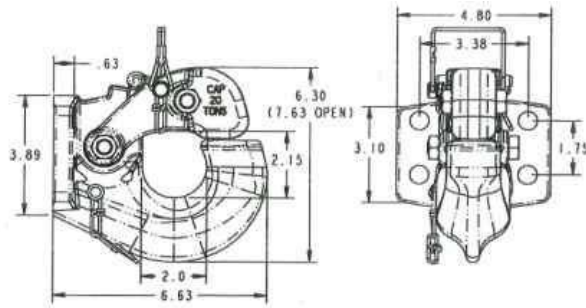
TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / PINTLE HOOKS ON-ROAD RATED / 20 ton HEAVY DUTY



The 20 ton heavy duty rigid pintle hook is made from forged alloy steel & finished with black powder coat for durability and corrosion resistance.

Pintle hooks are supplied individually boxed and include mounting information, specification sheet, mounting kit and drilling template.

Part Number	AL03217
Model	BPC PH 20 WMK
Max vertical load	3629 kg
M.G.T.W	18144 kg
Weight	6.03 kg
D-Value	100 kn
CRN	37268
Drawbar eye diameter	50-76 mm
Drawbar eye section	32-41 mm



PINTLE HOOK MOUNT

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / PINTLE HOOKS ON-ROAD RATED / PINTLE HOOK MOUNT

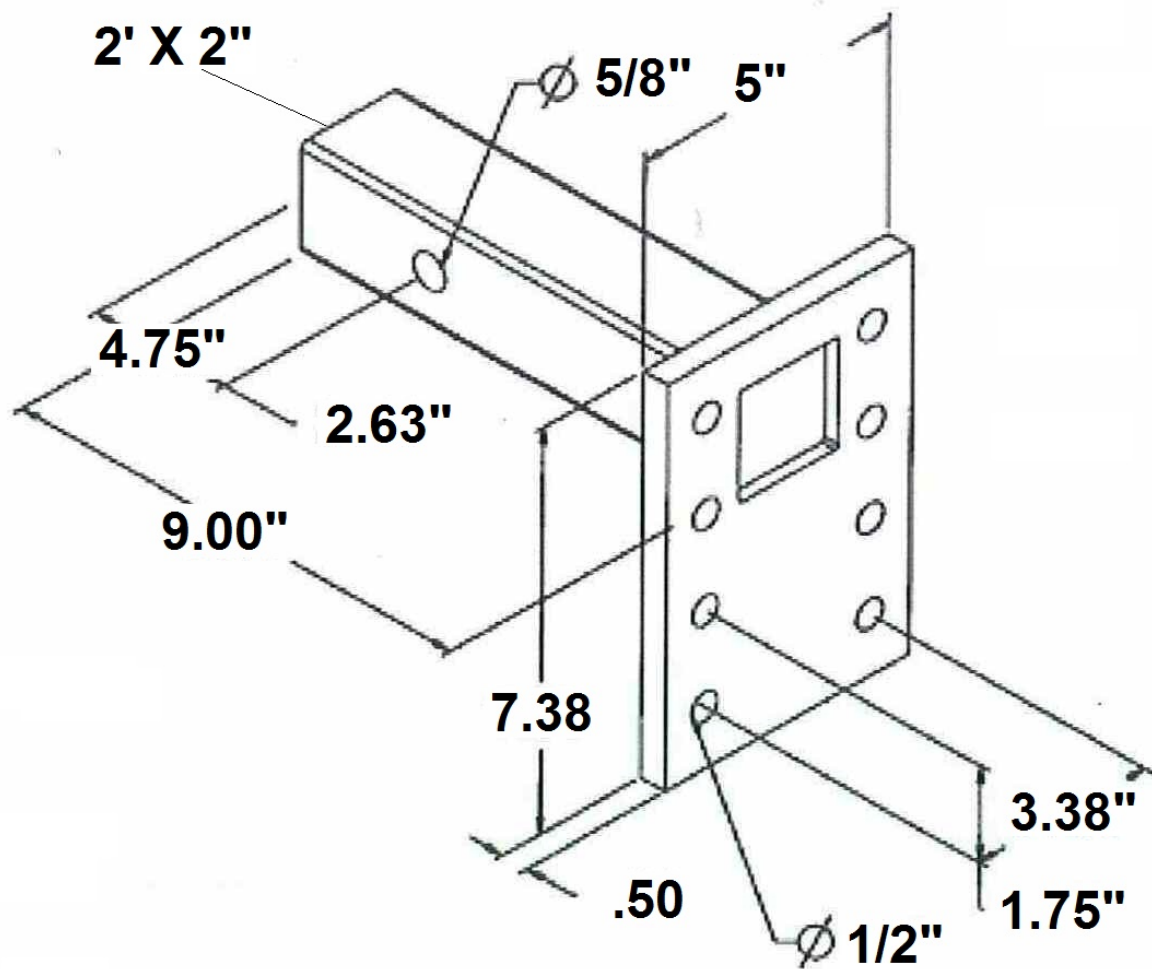


Part No AL02440

A 4 hole, pintle hook mount with high and low positioning.

Finished with black powder coat for superior durability and corrosion resistance.

Part No	AL02440
Model	BPC PH 87
Max vertical load.	907 kg
M.G.T.W.	4535 kg
Shank size	2" x 2" x 9" long
weight	6.8 kg





POLYBLOCK COUPLINGS

TRAILER AND BODY EQUIPMENT / COUPLINGS AND BALLS / POLYBLOCK COUPLINGS



Poly Block Trailer Couplings are:

A must for 4WDs and tractors towing all types of trailers in rough terrain: Camper trailers Storage trailers Mining Use Farm trailers Agricultural use Government Departments Defence Force applications

Poly Block Couplings Give:

Unique 360° rotation Silent ride 70° of vertical oscillation Safety

Description	Capacity Kg	Part No
Non override - complete	3000	AL00655
Override Hydraulic - complete	2000	AL00652
Override Mechanical - complete	2000	AL00653
Tow bar adaptor - only	3000	AL00651

3000 Kg Non override coupling and Tow bar adaptor shown below.



SPRING KITS

TRAILER AND BODY EQUIPMENT / SPRING KITS



Aline Trading P/L present a range of spring kits suitable for on-road and off-road trailers.

Our spring kits are available in a range of load capacities and designs to suit your needs.

Kits are supplied with all components required for fitment including U bolts and fish plates to secure the axle.

Note: A full range of spare parts are available to suit including:

- Spring Packs.
- Hangers Front / Rear.
- U bolts.
- Fish Plates.
- Bolts & Nuts

- Shackle Plates.
- Rocker Arms.
- Axle saddles
- Nylon bushes.

Please contact us today to discuss your requirements.

Single axle spring sets.			
Style	No Leaves	Capacity Kg	Part No
Eye - Slipper 45mm wide	3	600	AL01140
	4	800	AL01141
	5	1000	AL01142
	6	1200	AL03029
	7	1350	AL01144
Eye - Slipper 60mm wide	5	1350	AL03030
	6	1600	AL01145
	7	1800	AL03063
Eye - Eye 60mm wide	5	1370	AL03290
	6	1500	AL03033
	7	1600	AL03035
Off-Road Eye-Eye 60mm wide	5	1150	AL03414
	6	1350	AL03377
	7	1550	AL03287
	8	1750	AL03285
	9	2000	AL03272

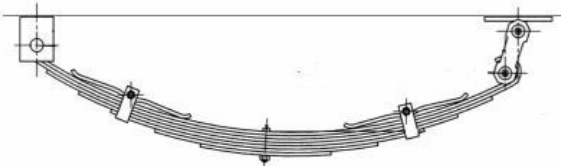
Single. Eye - Slipper



Single. Eye - Eye.

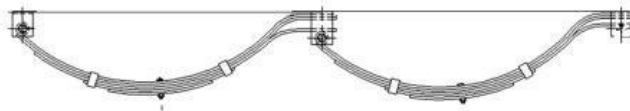


Single. Offroad Eye - Eye.

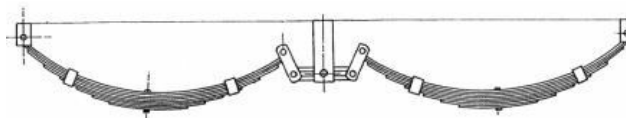


Tandem Axle Spring Sets.			
Style	No Leaves	Capacity Kg	Part No
Eye - Slipper 45mm Wide	4	1335	AL03162
	5	1665	AL03309
	6	2000	AL03007
	7	2250	AL03282
Eye - Slipper 60mm Wide	5	2250	AL03327
	6	2665	AL03328
	7	3000	AL03279
Tandem Rocker 60mm Eye - Eye	5	2000	AL03028
	6	2500	AL03004
	7	3000	AL02294
Tandem Roller Rocker 60mm Eye - Loop	5	2000	AL02292
	6	2500	AL03166
	7	3000	AL03034
	8	4000	AL03011
	9	4500	AL03167

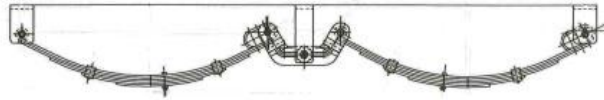
Tandem. Eye - Slipper



Tandem. Rocker



Tandem. Roller Rocker.



Tri Axle Roller Rocker Spring Sets.		
No Leaves	Capacity Kg	Part No
8	6000	AL03054
7	4500	AL03340

Tri Axle. Roller Rocker.

FRONT



MUD GUARDS

TRAILER AND BODY EQUIPMENT / MUD GUARDS



Aline Trading P/L present a range of folded mudguards suitable for on-road and off-road trailers.

Our standard guards are 4 fold profile and offer a strong and attractive profile.

For compact trailers using 12" or 13" wheels we offer the 2 fold guard as an alternative.

Our mudguards are available in smooth steel or chequer plate in a range of sizes suitable for single, tandem or triple axel sets and a variety of wheel sizes.

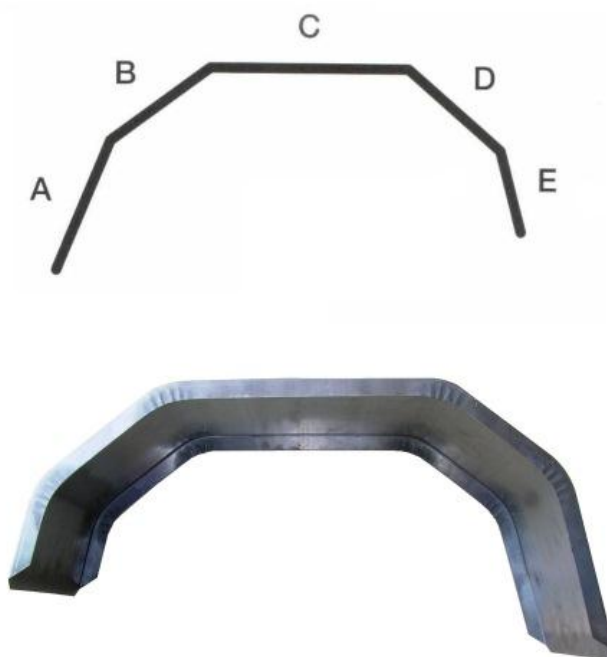
Standard finish is bare unpainted steel with some made from galvanised sheet. Refer list below.

Other sizes are available galvanized to order. A lead time may apply.

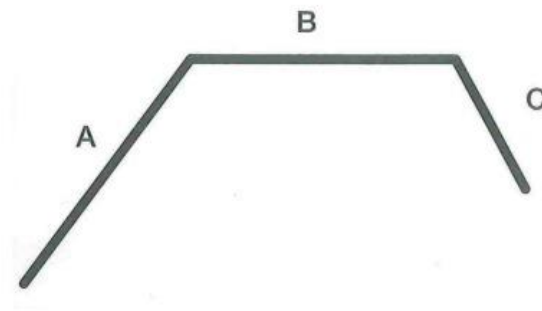
Note: The length shown below is the length around the guard in inches.

Part No	Type	Width	Length	Wheel Fitment	Finish
AL01468	single	6"	32"	8"	smooth
AL01467	single 2 fold	7"	41"	12" / 13"	smooth
AL00060	single	9"	49"	14"	smooth
AL01474	single	9"	49"	14"	checker
AL01835	single	9"	49"	14"	galv
AL01469	single	11"	49"	14"	smooth
AL01470	single	11"	49"	16"	smooth
AL01475	single	11"	49"	16"	checker
AL01471	tandem slipper	9"	84"	14"	smooth
AL03083	tandem slipper	9"	84"	14"	checker
AL01844	tandem slipper	9"	84"	14"	galv
AL01476	tandem slipper	10"	84"	14"	smooth
AL01478	tandem slipper	11"	84"	14"	checker
AL01479	tandem rocker	9"	91"	14"	checker
AL03308	tandem rocker	9"	91"	14"	smooth
AL01481	tandem rocker	10"	91"	14"	smooth
AL00037	tandem rocker	11"	91"	14"	smooth
AL01477	tandem roller rocker	9"	96"	14"	smooth
AL01472	tandem roller rocker	11"	96"	16"	smooth
AL01473	tandem roller rocker	11"	96"	16"	checker
AL01480	tandem roller rocker	12"	96"	16"	checker
AL03056	tri axle roller rocker	9"	130"	14"	smooth

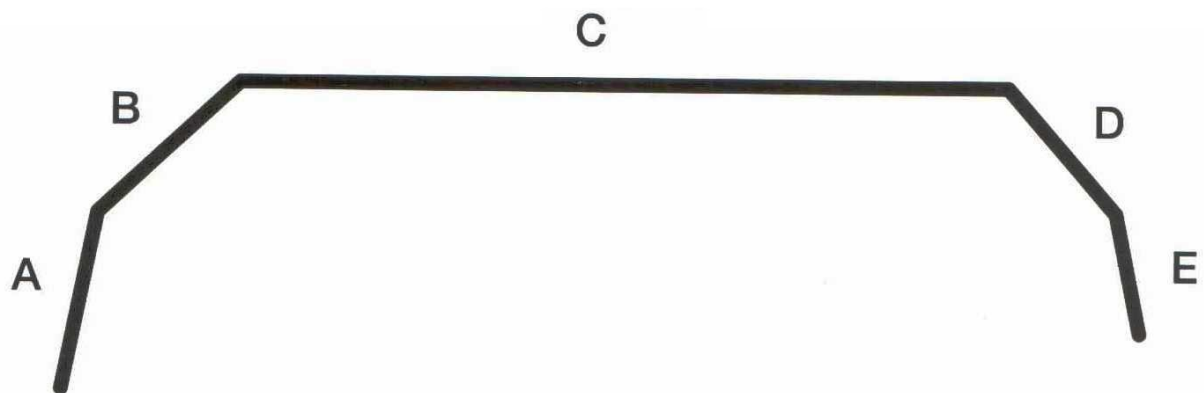
6" Wide 4 Fold single guards.					
A	B	C	D	E	Tip - Tip
130	190	190	190	130	480
9" - 12" wide 4 fold single guards.					
A	B	C	D	E	Tip-Tip
270mm	210mm	395mm	215mm	155mm	850mm



7" Wide 2 fold single guards			
A	B	C	Tip-Tip
410mm	300mm	340mm	720mm



9"-12" Wide 84" long 4 fold Tandem guards.					
A	B	C	D	E	Tip-Tip
310mm	270mm	1075mm	260mm	225mm	1560mm
9"-12" Wide 91" Long 4 fold tandem guards.					
A	B	C	D	E	Tip-Tip
310mm	270mm	1255mm	260mm	225mm	1740mm
9"-12" Wide 96" Long 4 fold tandem guards.					
A	B	C	D	E	Tip-Tip
310mm	270mm	1375mm	260mm	225mm	1860mm
9" Wide 120" Long 4 fold tri axle guards.					
A	B	C	D	E	Tip-Tip
310mm	270mm	2235mm	260mm	225mm	2720mm





LED LIGHTS

TRAILER AND BODY EQUIPMENT / LED LIGHTS



Aline Trading Pty Ltd is proud to present the quality range of LED lamps and accessories manufactured by LED Autolamps for the Automotive, Marine & Industrial markets.

The LED lamps detailed on this site are the core products held in stock by Aline Trading Pty Ltd.

Many other products are available to order. Details of these non- stocked products can be found by contacting us or by visiting the LED Autolamp website www.ledautolamps.com and downloading the full catalogue.

Save money by consolidating your orders. LED Autolamps can now be shipped from us combined with your other goods.

Please ask us to quote your needs today.

ABOUT LED AUTOLAMPS

TRAILER AND BODY EQUIPMENT / LED LIGHTS / ABOUT LED AUTOLAMPS



About LED Autolamps

A success story LED Technologies Pty. Ltd. operation has seen a tremendous development in LED products. Since their first designed square series lamp they are proud to announce that they have designed, developed and manufactured more than 60 different new product lines. These added to the existing range now provide customers with over 100 different LED products ranging from stop/tail, indicator, reverse and their combinations, marker lamps, interior to marine lamps, work, emergency and daytime running lamps.

Manufacturing: LED Autolamp products are made in Taiwan under ISO 9001 to their strict instructions; they also manufacture certain products in Australia.

Printed circuit board manufacturing: As with any electronic parts great care needs to be taken in the manufacturing process which includes component quality, assurance of same components throughout product life and the use of conformal coating or encapsulation which protects LED's and the PCB from the environment.

Resins and glues: In 2005 LED Technologies along with its manufacturer developed a specially formulated resin that dissipates heat has strong adhesive properties and does not crack or shrink over time. This resin is used in all our automotive products. This is very important, and something you should be aware of when purchasing a product other than our LED Autolamps brand.

Lenses, frames and bases: Much has been advertised by companies claiming polycarbonate as the best material to be used for LED lenses. This is not correct; great research has gone into the materials used and the acrylic in our applications is far superior. Polycarbonate applications we suggest are better used for the mining industry; this is also the general consensus by the industry leaders. **Lifetime warranty since 2007:** Don't be fooled by product copiers and companies without an LED track record. Failure rates are high. Stick with LED Autolamps, minimum automotive warranty is 5 years with several of our products having a lifetime warranty.

REAR COMBINATION LAMPS

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS



AL00206 - 278x100x28

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00206 - 278x100x28



Combination lamp - 278mm x 100mm x 28mm

Stop / Tail / Indicator / Reverse

Specifically designed for trailers or small sized commercial vehicles.

Available in 12V only or multivolt 12-24V

80 series lamps are fully submersible, shock resistant and feature the hexagonal lens pattern. The rear of the circuit board is fully encased in resin. Individual clip in lenses are used for easy replacement. Surface mountable with no visible screws.

Part No	Model	Voltage
AL00206	80BARW	12V
AL00207	80BARWM	12V - 24V



AL00230 - 278x100x28

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00230 - 278x100x28



Combination lamp - 278mm x 100mm x 28mm

Stop / Tail / Indicator

Specifically designed for trailers.

Available in 12V only.

80 series lamps are fully submersible, shock resistant and feature the hexagonal lens pattern. The rear of the circuit board is fully encased in resin. Individual clip in lenses are used for easy replacement. Surface mountable with no visible screws.

Part No	Model	Voltage
AL00230	80BARR	12V



AL00239 - 284x100x27

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00239 - 284x100x27



Combination lamp - 284mm x 100mm x 27mm

Stop / Tail / Indicator / Reverse

Specifically designed for trailers or small sized commercial vehicles.

Available as multivolt 12-24V

These new low profile slimline lamps are ECE Australian Road Approved, fully submersible (IP67 100% waterproof), shock resistant and feature the Diamond shaped lens pattern with 48 high quality SMD LED's.

Part No	Model	Voltage
AL00239	282ARWM	12V/ 24V



AL00229 - 275x100x33

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00229 - 275x100x33



Combination lamp - 275mm x 100mm x 33mm

Stop / Tail / Indicator / Reverse

Specifically designed for trailers or small sized commercial vehicles.

Available as multivolt 12-24V

These lamps ADR approved lamps are fully submersible (IP67 100% waterproof), shock resistant and feature high brightness LED's.

Part No	Model	Voltage
AL00229	275GARWM	12V/ 24V



AL00241 - 280x95x28

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00241 - 280x95x28



Mini Jumbo combination lamp - 280mm x 95mm x 28mm.
Stop/Tail/Indicator/Reverse. Supplied with separate red reflector.
Designed for use on trailers and mid sized commercial vehicles.
Shock dust and waterproof.

Part No	Model	Voltage
AL00241	280ARWMB	12V/ 24V



AL00244 - 280x95x28

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00244 - 280x95x28



Mini Jumbo combination lamp 280mm x 95mm x 28mm
Stop / Tail / Indicator.
Designed for trailers and mid size commercial vehicles.
Shock dust and waterproof

Part No	Model	Voltage
AL00244	280ARRMB	12V/ 24V



AL00213 - 200x50x28

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00213 - 200x50x28



Combination lamp - 200mm x 50mm x 28mm
Stop / Tail / Indicator

Specifically designed to fit into small places on trailers or small sized commercial vehicles.

Available in 12V-24V Multivolt.

200 series lamps are fully submersible, rust proof, shock resistant and feature the hexagonal lens pattern. The rear of the circuit board is fully encased in resin. Individual clip in lenses are used for easy replacement. Surface mountable with no visible screws.

Part No	Model	Voltage
AL00213	200BSTIM	12V-24V



AL00214 - 107x107x23

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00214 - 107x107x23



Combination lamp 107mm x 107mm x 23mm

Stop / Tail / Indicator

Specifically designed for small trailer applications.

Available in 12V.

Supplied as individual lights.

The 99 series lamps are designed for the budget conscious consumer. They have 8 high powered LED's housed in a hardened acrylic lens, and tough ABS base. These lamps are fully sealed against water and dust ingress, shock resistant and have tinned copper wire for added protection making them perfect for small trailer applications.

Part No	Model	Voltage
AL00214	99AR	12V



AL00231 - 107x107x23

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00231 - 107x107x23



Combination lamp 107mm x 107mm x 23mm

Stop / Tail / Indicator / N. Plate

Specifically designed for small trailer applications.

Available in 12V.

Supplied as a pair in blister pack.

The 99 series lamps are designed for the budget conscious consumer. They have 8 high powered LED's housed in a hardened acrylic lens, and tough ABS base. These lamps are fully sealed against water and dust ingress, shock resistant and have tinned copper wire for added protection making them perfect for small trailer applications.

Part No	Model	Voltage
AL00231	99ARL2	12V



AL00215 - 150x80x22

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00215 - 150x80x22



Combination lamp 150mm x 80mm x 22mm

Stop / Tail / Indicator / Reflector

Specially designed for trailer applications.

Available in 12V.

Supplied in blister of 2 lights. (One Pair)

The 155 series lamps are designed for the budget conscious consumer. They have 8 high powered LED™s with a new hardened acrylic honeycomb lens design and tough ABS base. These lamps are fully sealed against water and dust ingress, shock resistant and have stainless steel fittings with tinned copper wire for added protection making them perfect for trailer applications.

Part No	Model	Voltage
AL00215	151BAR2	12V



AL00225 - 150x80x24

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00225 - 150x80x24



Combination lamp 150mm x 80mm x 24mm

Stop / Tail / Indicator / Reflector

Specially designed for trailer applications.

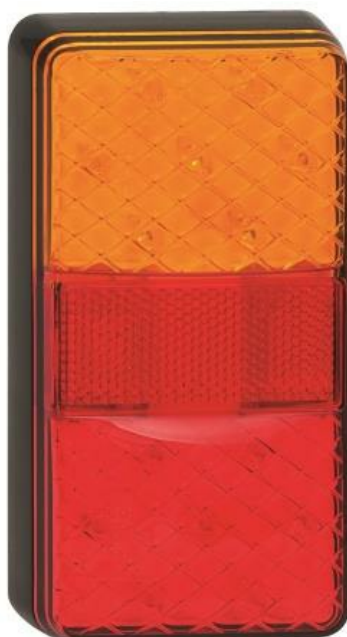
Available in 12V.

Supplied in blister of 2 lights. (One Pair)

The 150 series lamps are fully submersible, rust proof, shock resistant and feature the diamond lens pattern. The circuit board is fully encased in

resin with corrosion protected tinned copper wiring. Specially designed male & female 4 pin plugs, compatible with the plug and drive away cable system.

Part No	Model	Voltage
AL00225	150 BAR2	12V



AL00220 - 370x135x40

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00220 - 370x135x40



Combination lamp - 370mm x 135mm x 40mm

Stop / Tail / Indicator / Reverse / Reflex Reflectors.

Chrome series. Clear when off.

Available in 12V-24V Multi volt.

These lamps are fully submersible, rust proof, shock resistant, dust proof and feature incredibly bright LED illumination. The circuit board is fully encased in resin and cannot be penetrated by air or water. The high impact acrylic outer cover has a high resistance to the chemicals in cleaning fluids and enhanced UV protection against fading.

Part No	Model	Voltage
AL00220	Mailamp C3XRW	12V-24V



AL0221 - 595x130x45

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL0221 - 595x130x45



Jumbo Combination lamp - 595mm x 130mm x 45mm

Stop / Tail / Indicator / Reverse / Reflector

Specifically designed for large trailers.

Available in multi volt 12-24V

The J3 series Jumbo lamps are water proof and shock resistant, with classic styling, modern aesthetic appeal and featuring a specially designed inner chrome reflector. Individual lenses are available separately for replacement. These lamps are ADR approved for horizontal or vertical mount. 5 year warranty.

Part No	Model	Voltage
AL00221	J3BARMW	12v-24v



AL00227 - 595x130x45

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00227 - 595x130x45



Jumbo Combination lamp - 595 mm x 130 mm x 45 mm

Stop / Tail / Indicator / Reflector

Specifically designed for large trailers.

Available in multi volt 12-24V

The J3 series Jumbo lamps are water proof and shock resistant, with classic styling, modern aesthetic appeal and featuring a specially designed inner chrome reflector. Individual lenses are available separately for replacement. These lamps are ADR approved for horizontal or vertical mount. 5 year warranty.

Part No	Model	Voltage
AL00227	J3BARRM	12V-24V



AL00228 - 400x130x45

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REAR COMBINATION LAMPS / AL00228 - 400x130x45



Jumbo Combination lamp - 400 mm x 130 mm x 45 mm

Stop / Tail / Indicator / Reflector

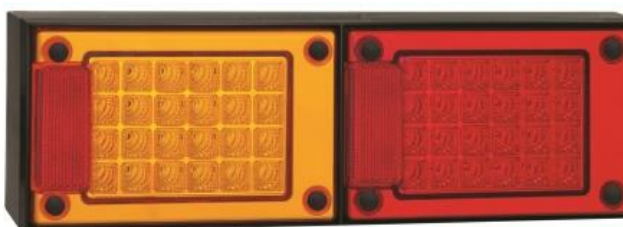
Specifically designed for large trailers.

Available in multi volt 12-24V

The J2 series Jumbo lamps are water proof and shock resistant, with classic styling, modern aesthetic appeal and featuring a specially designed inner chrome reflector. Individual lenses are available separately for replacement. These lamps are ADR approved for horizontal or vertical mount. Cable: 1.2 metre sheathed hard wired.

5 year warranty.

Part No	Model	Voltage
AL00228	J2BARM	12V-24V



RECESSED STRIP LAMPS

TRAILER AND BODY EQUIPMENT / LED LIGHTS / RECESSED STRIP LAMPS



AL00212- 130x25x12.5

TRAILER AND BODY EQUIPMENT / LED LIGHTS / RECESSED STRIP LAMPS / AL00212- 130x25x12.5

Recessed Strip Lamps â€“ 130mm x 25mm x 12.5mm

Available in 12V.

The 25 series lamps are fully submersible and shock resistant



Part No	Model	Voltage
AL00212	25W12	12V

**237x25x18 - RED - WHITE - AMBER**

TRAILER AND BODY EQUIPMENT / LED LIGHTS / RECESSED STRIP LAMPS / 237x25x18 - RED - WHITE - AMBER

**Recessed Strip Lamps â€“ 237mm x 25mm x 18mm**

Tail / Indicator / Reverse

Available in 12V.

Supplied with rubber mounting grommet.

The 235 series lamps are fully submersible and shock resistant

Part No	Model	Voltage
AL00217	235W12 - WHITE	12V



Part No	Model	Voltage
AL00218	235A12 - AMBER	12V



Part No	Model	Voltage
AL00219	235R12 - RED	12V

**382x25x18 - RED - WHITE - AMBER**

TRAILER AND BODY EQUIPMENT / LED LIGHTS / RECESSED STRIP LAMPS / 382x25x18 - RED - WHITE - AMBER

**Recessed Strip Lamps â€“ 382mm x 25mm x 18mm**

Tail / Indicator / Reverse

Available in 12V.

Supplied with rubber mounting grommet.

The 380 series lamps are fully submersible and shock resistant.

Part No	Model	Voltage
AL00209	380W12 - WHITE	12V



Part No	Model	Voltage
AL00210	380A12 - AMBER	12V



Part No	Model	Voltage
AL00211	380R12 - RED	12V



WORK LAMPS

TRAILER AND BODY EQUIPMENT / LED LIGHTS / WORK LAMPS



LED Auto lamps produce a wide range of lamps suitable for many applications.

These include:

- Flood Lamps
- Work Lamps round /square
- Heavy Duty Work Lamps. Bar Style.
- Spot Lamps
- Interior Lamps
- Recessed Interior / Exterior lamps
- Hand Held Work Lamps

Our stocked range of lamps is detailed in this section. Please contact us for details of other lamps available.

AL00226 - 115x137x40

TRAILER AND BODY EQUIPMENT / LED LIGHTS / WORK LAMPS / AL00226 - 115x137x40



Work Lamp - 115mm x 137mm x 40mm

These work lamps are waterproof and sea/salt spray resistant, with durable powder coated diecast aluminium housing and polycarbonate lens. Powered by 6 x high brightness 3 watt LED's. 1300 lumens. Steel mounting brackets.

IP67 RATED.

Part No	Model	Voltage
AL00226	11518FBM	9V - 32V



LICENCE PLATE LAMPS

TRAILER AND BODY EQUIPMENT / LED LIGHTS / LICENCE PLATE LAMPS



AL00202 - 65x30x24

TRAILER AND BODY EQUIPMENT / LED LIGHTS / LICENCE PLATE LAMPS / AL00202 - 65x30x24



LICENCE PLATE LAMP - 65mm x 30mm x 24mm

Available in 12V & 24V

Supplied in blister pack of 2 pcs. (One pair)

The 30 series licence plate lamps are fully submersible, shock resistant and suited for the budget conscious customer. Can also be used for general illumination.

Part No	Model	Voltage
AL00202	30BLM	12V - 24V



AL00203 - 76x42x30

TRAILER AND BODY EQUIPMENT / LED LIGHTS / LICENCE PLATE LAMPS / AL00203 - 76x42x30



LICENCE PLATE LAMP - 76mm x 42mm x 30mm

Available in 12V & 24V

The 35 series licence plate lamps are fully submersible, shock resistant and hard wired with 1 metre of cable and a plug which clips into the back of 100,150 & 275 generation lamps.

Part No	Model	Voltage
AL00203	35BLMIP	12V - 24V



AL00204 - 375x173x25

TRAILER AND BODY EQUIPMENT / LED LIGHTS / LICENCE PLATE LAMPS / AL00204 - 375x173x25



LICENCE PLATE LAMP - 375mm x 173mm x 25mm

Available in 12V & 24V

The licence plate frame allows the licence plate to be fitted underneath the two licence plate lamps all in one housing. Comes with 1m of cable ending in a plug which clips into the back of the 100, 150 and 275 series GenII lamps.

Part No	Model	Voltage
AL00204	LP1	12V - 24V



AL00242 - 60x22x32

TRAILER AND BODY EQUIPMENT / LED LIGHTS / LICENCE PLATE LAMPS / AL00242 - 60x22x32



A revolutionary new self adhesive Licence Plate Lamp design that saves installation time.

The 60 series lamps feature a low profile compact design and strong polycarbonate design.

To mount. Drill a 10mm hole for the serrated plug. Pull the cable through the hole. Remove the protective film from the 3M tape. Push the serrated plug into the hole. Line up the lamp and press firmly.

The lamp is held securely with the plug serrations and high quality 3M tape.

Part No	Model	Voltage
AL00242	60BLM	12V / 24V



MARKER LAMPS

TRAILER AND BODY EQUIPMENT / LED LIGHTS / MARKER LAMPS



Marker Lamps

58 x 35 x 21

TRAILER AND BODY EQUIPMENT / LED LIGHTS / MARKER LAMPS / 58 x 35 x 21



Marker Lamps - 58mm x 35mm x 21mm

Red / Amber - White - Red

Available in 12V & 24V

The 35 series marker lamps are fully submersible, shock resistant and feature a hexagonal lens pattern and slimline design. Individual clip in lenses allow for easy surface mount with no visible screws.

Part No	Model	Voltage
AL00208	35ARMB - Side Marker Amber / Red	12V - 24V
AL00237	35RMB - Rear Marker Red	12V - 24V
AL00238	35WMB - Front Marker White	12V - 24V
AL00240	35AMB - Side Marker / Indicator Amber	12V - 24V



135 x 38 x 22

TRAILER AND BODY EQUIPMENT / LED LIGHTS / MARKER LAMPS / 135 x 38 x 22



Marker Lamps - 135mm x 38mm x 22mm

Available in 12V & 24V

The 38 series marker lamps are fully submersible, shock resistant and feature a hexagonal lens pattern, slimline design and reflex reflectors. A clip on bezel allows for easy surface mount with no visible screws.

Part No	Model	Voltage
AL00233	38AMB - AMBER	12V - 24V
AL00234	38RMB - RED	12V - 24V
AL00235	38WMB - WHITE	12V - 24V
AL00243	38ARMB - AMBER & RED	12V - 24V





LOAD RESISTORS

TRAILER AND BODY EQUIPMENT / LED LIGHTS / LOAD RESISTORS



Dummy load resistors are designed to draw the same current as a 21 watt globe and can be used on vehicles that have electronic components that are not LED compatible. You may require up to 1 resistor per function on each side.

Note: The resistor can reach 170 deg C and must be mounted to a metal surface.

Part No	AL00205
Model	LR12/2
Packaging	Blister of 2
Voltage	12V only



REFLECTORS

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REFLECTORS



A range of quality ADR approved reflex reflectors are available.
The 70 x 30 x 6 self-adhesive units being the most popular.

Part No	Description
AL00222	RED
AL00223	AMBER
AL00224	WHITE



70 x 30 x 6 Adhesive

TRAILER AND BODY EQUIPMENT / LED LIGHTS / REFLECTORS / 70 x 30 x 6 Adhesive



Reflex reflectors

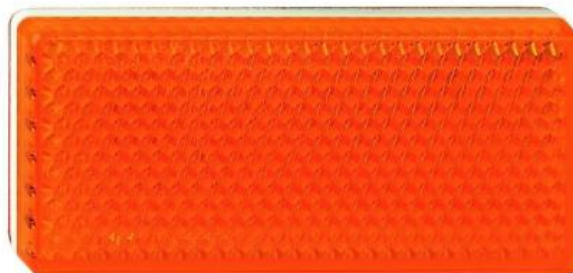
ADR compliant for both horizontal and vertical mount. Highest quality adhesive tape used for secure and lasting application.
Please refer to ADR 13/00 for correct mounting instructions.

Part Number	Description
AL00222	Red
AL00223	Amber
AL00224	White

AL00222 - Red



AL00223 - Amber



AL00224 - White



BEACON LAMPS

TRAILER AND BODY EQUIPMENT / LED LIGHTS / BEACON LAMPS



Aline Trading Pty Ltd

AL00232 - 127 x 97

TRAILER AND BODY EQUIPMENT / LED LIGHTS / BEACON LAMPS / AL00232 - 127 x 97



Hazard Warning Strobe Beacon.

Part No	AI00232
Model	127AMF
Dimensions	127mm Round x 97mm High
Mount	Fixed Base
Voltage	12-24V
Led Qty	1 x GNEII Super LED
Flash Rate	60-70 Tripple Flashed per min
Cable	40cm
Peak Draw	@ 13.8V = .19A @ 28V = .12A



PLUGS - SOCKETS - WIRE

TRAILER AND BODY EQUIPMENT / LED LIGHTS / PLUGS - SOCKETS - WIRE



TRAILER PLUGS



Standard 7 pin plugs to suit your trailer.

Part No	Style	Material
AL03447	Round	Metal
AL03188	Round	Plastic
AL03183	Flat	Plastic



TRAILER SOCKETS



Flat or round 7 pin sockets.

Part No	Description
AL03461	Round 7 pin plastic.
AL03462	Flat 7 pin plastic.

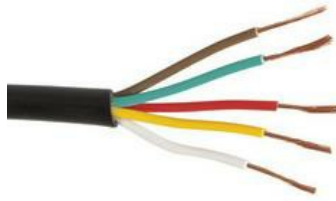


WIRE



Standard weight trailer wire available in either 5 or 7 core.

Part No	Description
AL00033	5 core wire per metre
AL00034	7 core wire per metre



OVERSIZE LOAD SAFETY EQUIPMENT

TRAILER AND BODY EQUIPMENT / OVERSIZE LOAD SAFETY EQUIPMENT

OVERSIZE

Aline Trading Pty Ltd present a range of safety equipment designed for use in the transportation of oversize loads.

OVERSIZE SIGNS

TRAILER AND BODY EQUIPMENT / OVERSIZE LOAD SAFETY EQUIPMENT / OVERSIZE SIGNS

OVERSIZE

Oversize sign's

Part No AL03390

Metal sign complies with Australian Standards.

AL03485

Decal (sticker) complies with Australian standards.

Designed for effective Identification of Trucks with Oversized Equipment On Board or oversized farm equipment like comb trailers, headers etc.



SAFETY FLAGS

TRAILER AND BODY EQUIPMENT / OVERSIZE LOAD SAFETY EQUIPMENT / SAFETY FLAGS



Oversize Load Safety Flags.

Heavy duty red and yellow design with or without timber pole .

A must when transporting oversized loads.

Complies with Australian standards.

Part No	Description
AL03391	Flag with pole.
AL03399	Flag only. No pole.



FLASHING BEACONS

TRAILER AND BODY EQUIPMENT / OVERSIZE LOAD SAFETY EQUIPMENT / FLASHING BEACONS



There is a huge range of Rotating Base Halogen Beacons available on the market. Aline Trading Pty Ltd stocks the following 2 models that are used extensively in the industrial, agricultural and mining industries.

NARVA Optimax rotating amber beacon.

Features: Dual voltage, radio suppressed, flange base, high impact polycarbonate lens.

Important note:

When ordering please nominate the globe you will require. 12V or 24V

Part No	AL03389
Model	NARVA OPTIMAX 85650A
Current draw	4.4A at 12V, 2.6A at 24V
Globe	H1 55W
Size	Diam 153mm x Height 180mm



ECCO Rotating amber beacon.

Features: 12/24V, 3 bolt permanent mount, Stainless steel bearing for increased unit life.

Important note:

When ordering please nominate the globe you will require. 12V or 24V

Part No	AL03140
Model	ECCO ACX2123
Current draw	4.4A at 12V, 2.6A at 24V
Globe	H1 55W
Size	Diam 153mm x Height 178mm



DOCUMENT CANISTER

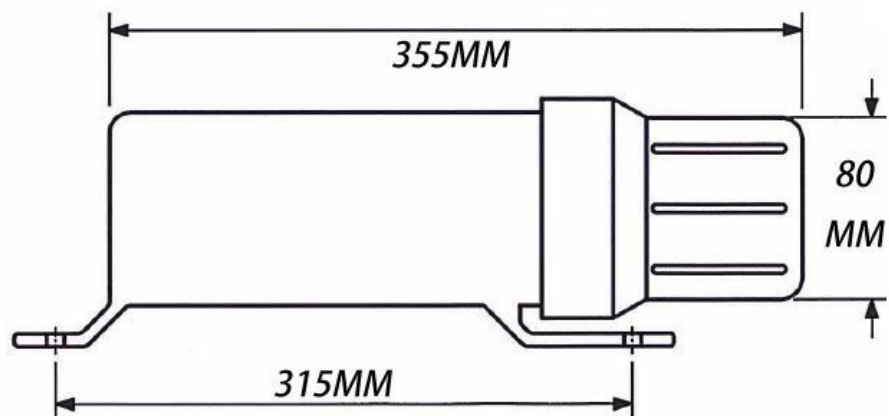
TRAILER AND BODY EQUIPMENT / OVERSIZE LOAD SAFETY EQUIPMENT / DOCUMENT CANISTER



Document Storage Canister

Suitable for storing safety data sheets or operating instructions on your equipment.

Part Number	AL03397
O/A Length	335mm
Diameter	80mm



HAND BRAKE LEVERS

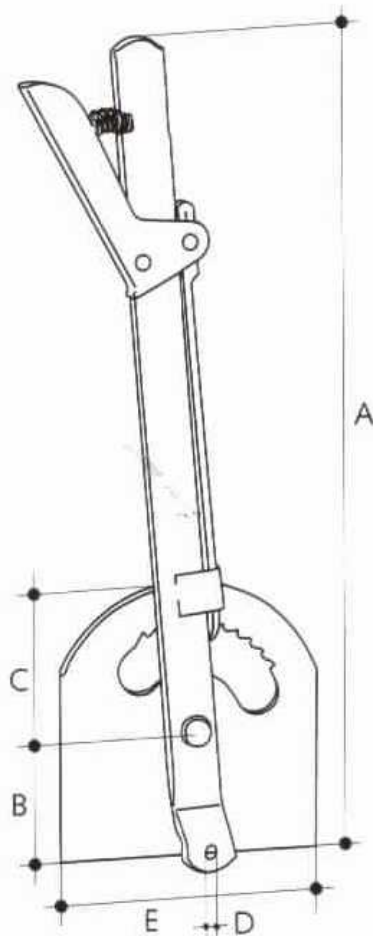
TRAILER AND BODY EQUIPMENT / HAND BRAKE LEVERS



Aline Trading P/L has a selection of park brake levers designed for use on trailers and farm machinery.

The lever is used to apply the brakes on either electric or mechanical braked axles when the trailer is in the parked position.

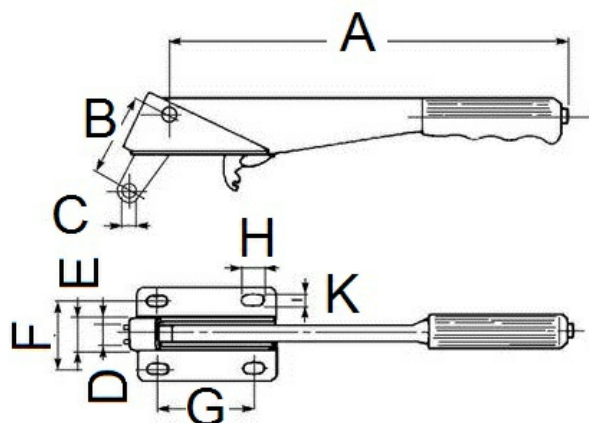
Steel Park Brake Lever	
Part No	AL02759
A	480 mm
B	80 mm
C	85 mm
D	8 mm
E	155 mm





Soft Grip Park Brake Lever	
Part No	AL00827
A	296 mm
B	57.2 mm
C	8 mm
D	9 mm
E	20.5 mm
F	49 mm
G	69 mm
H	16.5 mm
K	9 mm





TARP WINDER UNIVERSAL JOINTS

TRAILER AND BODY EQUIPMENT / TARP WINDER UNIVERSAL JOINTS



Aline Trading P/L presents a range of tarp winding universal joints for use on truck and agricultural trailers.

The universal joint connects the winding handle to the roll tarp shaft mounted on the side of the trailer body allowing the tarp to be wound over the load.

There are 3 standard versions offered by Aline Trading. Others sizes and end combinations assembled to order.

We also supply 13/8" Z21 splined shaft in 200mm lengths. Part Number AL01897. These can be used to connect the universal joint to the handle or roll shaft. Details below.

Part No	Bearing size	Yoke 1	Yoke 2
AL00938	T1 22 x 54	13/8" Z21	13/8" Z21
AL00939	T1 22 x 54	1" plain	1 3/8" Z21
AL00941	T1 22 X 54	1" plain	1" plain

AL00939 pictured below.



AL01897 13/8" splined shaft x 200mm.





The AL01338 is a small universal joint with shafts and is suitable for use on roll tarps and other applications. The shafts are connected to the yokes using a fine spline that allows for adjustment and clamp bolt.

Part Number AL01338	
Shaft diameter	21mm
Overall length	357mm
Bearing diameter	16mm
Width across yokes	43mm
Spare cross bearing	P/No AL01339



TRAILER PARTS AND SPARES - OTHER

TRAILER AND BODY EQUIPMENT / TRAILER PARTS AND SPARES - OTHER



Aline Trading Pty Ltd have available a wide range of trailer related components and spare parts. The items listed in this section are some of the more commonly requested items. Many other items are available at request. Please contact us today to discuss your needs.

WHEEL STUDS AND NUTS

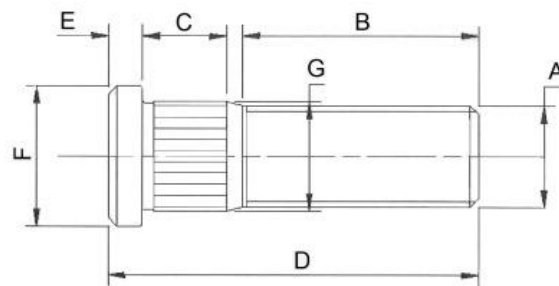
TRAILER AND BODY EQUIPMENT / TRAILER PARTS AND SPARES - OTHER / WHEEL STUDS AND NUTS



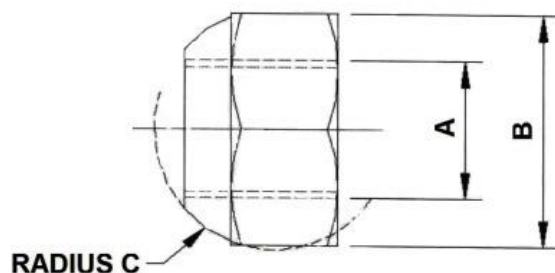
Aline Trading P/L stock a range of wheel studs and nuts suitable for both on-road and off-road applications. This range also includes studs, nuts and washers to suit imported FAD agricultural axles.



Metric Wheel Studs - Standard							
Part No	A	B	C	D	E	F	G
AL03039	M16 x 1.5	33	9	50	5	22	17.4
AL03018	M18 x 1.5	42	15	65	5.5	25	19.5
AL03202	M20 x 1.5	47	16	73	6	25	21.6
AL03024	M22 x 1.5	54	21	85	6	30	24.4
Metric Wheel Studs - FAD							
Part No	A	B	C	D	E	F	G
AL03022	M16 x 1.5	33	8	50	5	20	17.1
AL03050	M18 x 1.5	35	11	55	6	24	19.6
AL03066	M20 x 1.5	48	12	68	6	25	21.6
AL03045	M22 x 1.5	47	14	71	6	27	24.3
AL03261	M22 x 1.5	59	14	96	6	30	24.4
Imperial UNF Wheel Studs							
Part No	A	B	C	D	E	F	G
AL03071	7/16"	26	9	43	5.3	19	14
AL03070	1/2" LONG	31	11	50	4.5	19	14
AL03204	1/2" STD	28	8	43.5	5.3	19.3	14
AL03087	9/16"	32	10	51	6.5	22.2	18.4
AL03048	5/8"	48	12	66	6.5	25.4	18.1
AL03075	3/4"	45	16	77	6.5	32	20.8
AL03026	7/8"	43	24	78	8	32	23.6



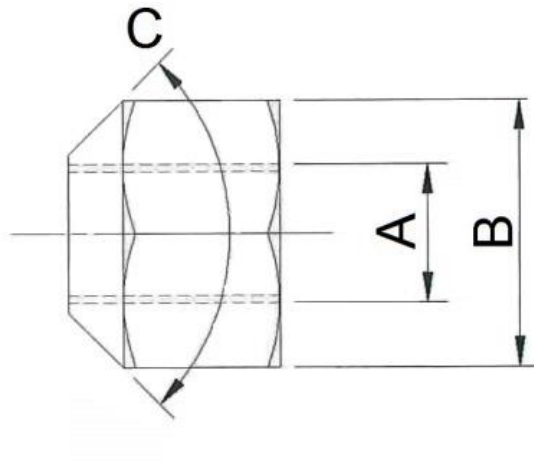
Metric wheel nuts - Standard			
Part No	A - Thread	B - A/F	C - Radius
AL03038	M16 x 1.5	27	R14
AL03153	M18 x 1.5	27	R16
AL03203	M20 x 1.5	32	R18
AL03145	M22 x 1.5	32	R18
Metric Wheel Nuts - FAD			
Part No	A - Thread	B - A/F	C - Radius
AL03023	M16 x 1.5	27	R14
AL03051	M18 x 1.5	24	R16
AL03067	M20 x 1.5	27	FLAT
AL03046	M22 x 1.5	30	FLAT



Spherical Washer - FAD	
AL03068	Suits FAD - M20 stud
AL03047	Suits FAD - M22 stud



Imperial UNF wheel nuts			
Part No	A	B - A/F	C - DEG
AL03072	7/16 UNF	3/4"	60
AL03069	1/2 UNF	13/16"	60
AL03088	9/16 UNF	1 1/16"	90
AL03049	5/8 UNF	15/16"	90
AL03076	3/4 UNF	1 5/16"	90
AL03027	7/8 UNF	1 5/16"	90



DUST CAPS

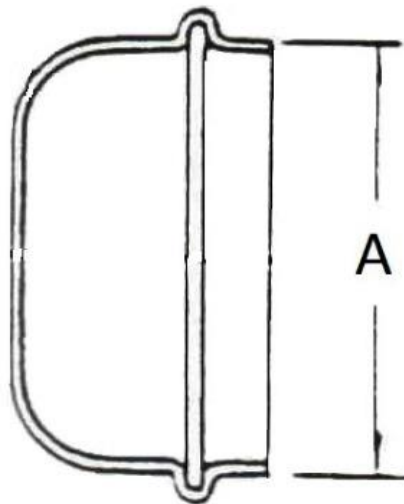
TRAILER AND BODY EQUIPMENT / TRAILER PARTS AND SPARES - OTHER / DUST CAPS



Aline Trading stock a wide range of replacement dust caps suitable for axles used in on- road and off-road agricultural applications.

Pressed metal caps available in metric or imperial fitments.

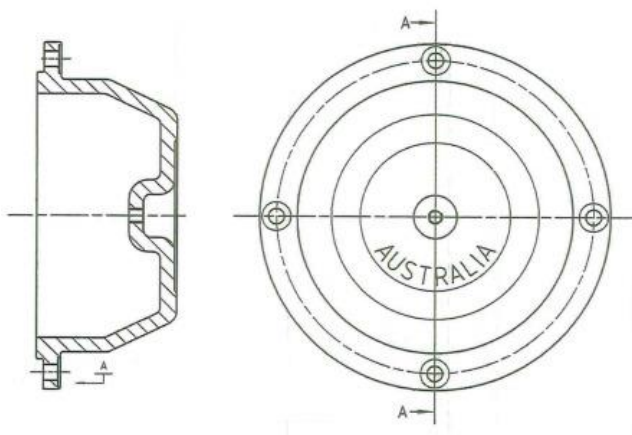
We also have a selection of cast iron bolt on caps for heavy duty agricultural axles.



Pressed Dust Caps - Imperial	
Part No	Size - Dimension A
AL03147	1 3/4" - 44.45mm
AL03400	1 3/4" - 44.45mm BEARING BUDDIES - EA
AL03517	2" - 50.8 mm
AL03089	2 1/16" - 52.387 mm
AL03065	2 1/2" - 63.5mm STD
AL03335	2 1/2" - 63.5mm Deep. 12" Electric hub.
AL03263	2 3/4" - 69.85 mm
AL03334	3" - 76.2mm
Pressed Dust Caps - Metric	
PART No	Size - Dimension A
AL03257	59mm
AL03043	62mm
AL03019	80mm
AL03020	85mm
AL03042	90mm
AL03041	100mm
AL03044	110mm
AL03021	120mm



Bolt on Cast Iron dust caps.		
Part No	Series	No Screws
AL03350	H50/H50HD	3
AL03409	63	3
AL03410	75/80	3
AL03341	90/100	4
AL03411	110	6
AL03412	150	6



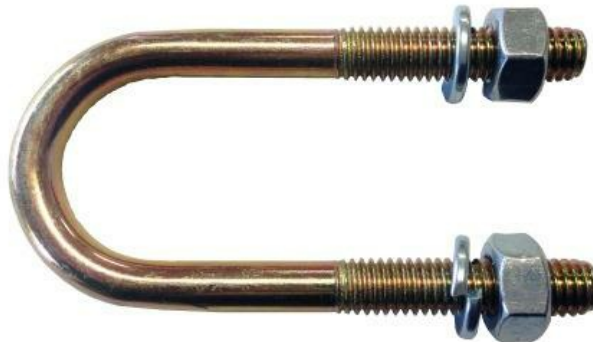
U BOLTS - FISH PLATES - AXLE SADDLES

TRAILER AND BODY EQUIPMENT / TRAILER PARTS AND SPARES - OTHER / U BOLTS - FISH PLATES - AXLE SADDLES



The U bolts and fish plates listed below are designed to suit most common trailer axle and spring sets.
U bolts are supplied with spring washers and nuts or Nyloc nuts depending on the size / design.

U Bolts - Round			
Part No	Axle Size	Length	Diameter
AL03313	39mm	120mm	1/2"
AL03291	39mm	130mm	1/2"
AL02815	39mm	150mm	1/2"
AL00047	45mm	120mm	1/2"
AL00062	50mm	140mm	1/2"



U Bolts - Square			
Part No	Axle Size	Length	Diameter
AL00048	40mm	120mm	1/2"
AL00049	40mm	130mm	1/2"
AL00022	45mm	120mm	1/2"
AL03143	45mm	130mm	1/2"
AL00045	45mm	140mm	1/2"
AL00021	50mm	120mm	1/2"
AL02816	50mm	150mm	1/2"
AL02811	50mm	150mm	5/8"
AL02812	63mm	180mm	5/8" HT



Fish Plates		
Part No	Spring Width	U Bolt Size
AL03142	45mm	39mm - 40mm - 45mm - 1/2"
AL03141	60mm	45mm - 1/2"
AL03292	60mm	50mm - 1/2"
AL02810	60mm	50mm - 5/8"
AL03416	60mm	63mm - 5/8"



Axle Saddle Plate - Universal fit.	
Part No	Description
AL03295	40 X 8 X 48 - 17mm HOLE



SPRING PACKS AND SPARE PARTS

TRAILER AND BODY EQUIPMENT / TRAILER PARTS AND SPARES - OTHER / SPRING PACKS AND SPARE PARTS



Aline Trading Pty Ltd stock a range of spring packs and associated parts for maintaining your trailer suspension.

Note: For complete suspension kits please refer to the trailer spring kits section.

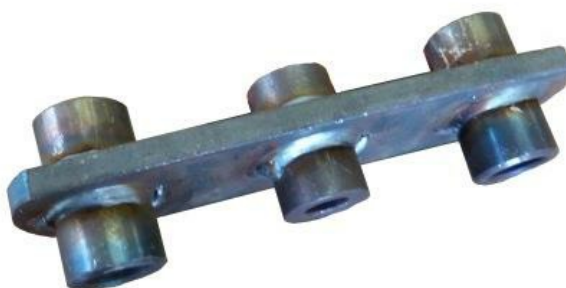
SPRINGS					
Part No	Style	Width	Length	Leaves	Capacity
AL00066	Slipper	45mm	762	3	300 kg
AL00067				4	400 kg
AL00068				5	500 kg
AL00069				6	600 kg
AL00070				7	675 kg
AL00071	Slipper	60mm	762mm	5	675 kg
AL00072				6	800 kg
AL00061				7	900 kg
AL00063	Eye-Eye	60mm	685mm	5	700 kg
AL00064				6	750 kg
AL00065				7	800 kg



SPRING HANGERS		
Part No	Description	Fits
AL03304	Rear Hanger	45mm Eye-Slipper
AL03303	Front Hanger	45mm Eye-Slipper
AL03305	Front Hanger - Deep	45mm Eye-Slipper Tandem
AL03302	Front Hanger	60mm Eye-Slipper or Eye-Eye
AL03306	Front Hanger - Deep	60mm Eye-Slipper Tandem
AL03307	Rear Hanger	60mm Eye Slipper
AL03293	Rear Hanger-Dead Eye	60mm Eye-Eye
AL03297	Centre Hanger 2pce	60mm Tandem Rocker
AL00053	Front/Rear Hanger	60mm Roller Rocker Tandem
AL00054	Centre Hanger	60mm Roller Rocker Tandem



ROCKER ARMS		
Part No	Description	Fits
AL03296	Fabricated	60mm Rocker Tandem
AL03413	Cast Beam	60mm Roller Rocker Tandem
AL03294	Steel Roller	60mm Roller Rocker Tandem



SHACKLE PLATES	
Part No	Description
AL00039	Suits 1/2" bolts. Centres = 63mm
AL00040	Suits 5/8" bolts. Centres = 78mm



SHACKLE BOLTS

Part No	Description
AL00041	Bolt & Nut 4" x 5/8" Greaser. Suits 60mm springs.
AL00056	Bolt & Nut 4" x 5/8" Non greased. Suits 60mm springs
AL00055	Bolt & Nut 3 1/2" x 1/2" Non greased. Suits 45mm springs
AL00038	Bolt & Nut 3 1/4" x 3/4" Greaser for rocker roller centre bracket.



SPRING BUSHES - NYLON

Part No	Description
AL00058	1/2" x 13/4" suits 45mm springs.
AL00057	5/8" x 2 1/4" suits 60mm springs.



Aline trading Pty Ltd offer a variety of brake controllers and brake away units to suit our range of braked trailer axles. Including the Elecbrakes Bluetooth electric brake controller and Brake Commander wireless hydraulic brake controller.
Note: Installation of these units should be performed by a qualified automotive electrician to ensure proper operation and safety.



Part No	Description.
AL03095	Brake controler - Under dash Hayes 81741B
AL03354	Brake Controler - Trailer Mounted. 12V
AL03515	Brake controler - Redarc Tow Pro Elite. 12/24V
AL03055	Brake away unit. Brake Safe 6000. 2 - 4 wheels.
AL03169	Brake away unit. Brake Safe 6000XP. 4-6 wheels.
AL03532	Brake Commander. Hydraulic Brake Controller.
AL03533	Elecbrake. Bluetooth Electric Brake Controller.

AL03055 - Brake Away Unit. Brake Safe 6000. Suits 2 - 4 wheels.



AL03095 Hayes Under Dash Brake Controller.



AL03515 - Brake Controller. Redarc Tow-Pro Elite. 12-24V

The Tow-Proâ„¢ Elite is an electric trailer brake controller designed to suit most common trailer braking applications whilst requiring minimal dash space and being simple to install and operate. The Tow-Proâ„¢ Elite offers selectable Automatic or User Controlled trailer braking modes allowing the user to choose the braking style depending on the road or terrain conditions, vehicle type, or driver preference. The Tow-Proâ„¢ Elite features Active Calibration which constantly monitors the direction of travel removing the need for an initial calibration process, the unit will even calibrate with no trailer attached whilst maintaining the ability to mount in any orientation. The unit is able to operate both electric and electric/hydraulic trailer brakes and will operate from either 12V or 24V vehicle systems without the need for manual selection or extra components/ wiring. The unit is also ADR compliant when installed as directed.



AL03354 - Brake controller. Trailer mounted.
Controls 1 to 2 Axles up to 2000 kg. Not legal over 2000 kg
Note: For use on trailers under 2000kg only.



Introducing Australia's™ first Bluetooth Electric Brake Controller.

Elecbrakes is an Australian Manufactured, Designed and Invented Bluetooth electric brake controller that allows a trailer to comply with ADR38/03 and VSB1* ensuring you can tow your trailer with a suitable tow vehicle easily, safely and legally in all States and Territories of Australia.

The ELBC2000 operates with 12V or 24V tow vehicles and comes with a 2 year warranty.

*To comply with ADR38/03 and VSB1 the smart Phone App must have Bluetooth connection with the ELBC2000 controller; the smart phone MUST be securely mounted within the drivers reach and connected to a power source.

The Elecbrakes system is designed to be installed on a trailer and does not require any modification to the tow vehicle.

Elecbrakes wireless electronic brake controller is revolutionising the towing process by eliminating the need for modification to your tow vehicle.

Designed and assembled in Australia, this simple-to-use brake controller can be fitted to any trailer. It is controlled through Bluetooth and can be synced to any smart phone device.

The smart Phone App has been developed as a driving aid and requires minimal input from the driver to set the brake system to the driving conditions.

The Elecbrake App provides the user with the ability to monitor, configure programs and control brake response from the Tow Vehicle. The Elecbrake App also provides live data and historical information that can assist in defining service intervals for trailer maintenance.

The App allows firmware to be pushed to the controller ensuring you always have the most up to date trailer brake system on the market.

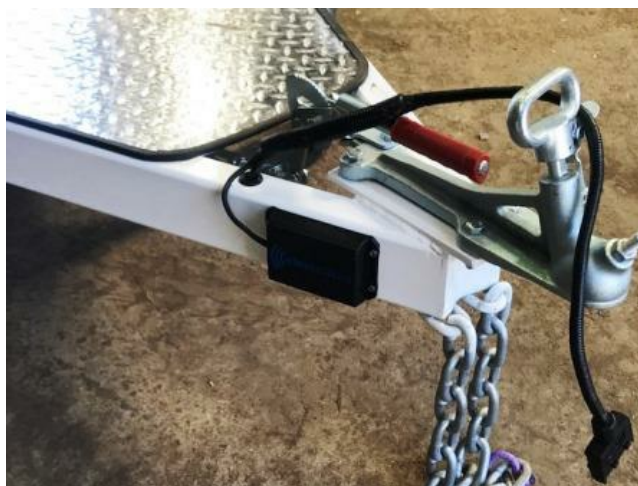
â€¢Elecbrakes employs a high-speed microprocessor and various sensors which continuously sample various operating parameters at over 1000 times per second. For communication, the device uses the widely adopted Bluetooth 4.0 standard, and the hardware selections yield a Bluetooth device that has long range capability ensuring high connection reliability and no dropouts under typical operating conditions. This ensures the device can be mounted anywhere on the trailers draw bar.

Elecbrakes is powered via the Tail Lights, a second input is provided if the user prefers an Auxiliary power source. And the system has been designed to continue operating even if the Bluetooth signal is interrupted or lost.

â€¢The Elecbrake Controller ELBC2000 has been designed for Australian Conditions.

Housed in Tough fibre reinforced housing and fully encased in urethane, ensuring the electronics are fully protected from water, dust and vibration.

When fitted to trailers greater the 2000Kg GTM the brake system must also be fitted with a compliant emergency brake controller. (Break away unit)



ELBC2000 Specifications			
Parameter	Min	Max	Units
Supply Voltage	10	32	Volts
Output Load *	.75	-	Ohms
Output Current **	0	16	Amps
Output Voltage	0	12	Volts RMS
Radio Freq	2.4	GHz	
Range	>30	Mtrs	
Operating Temp	-20	+85	Celsius
Water Submersion 1mtr	>24	Hours	
* 4 x3.0 Ohm brake magnets wired in parallel			
** Controller intelligently shares load with multiple supply circuits			



Brake Commander. Wireless hydraulic brake controller.

Brake Commander is a hydraulic trailer Brake Controller / trailer Brake Actuator designed and assembled in Australia. Brake Commander is a wireless system consisting of a trailer mounted unit and a wireless remote. The unique design and features are approved and conform to ADR38

and VSB1 for trailers up to 4.5T ATM.

The Brake Commander unit is bolted to the trailer and a hydraulic master cylinder is attached to the mounting boss. Brake Commander's electro-mechanical operation controls the trailer brakes much like when you press the brake pedal in your car. The benefit of our electro-mechanical system is that it is extremely efficient. In fact it is so efficient and user friendly you do not need to install any wiring into your vehicle to power Brake Commander. It simply draws all the power necessary from the tail light circuit of most standard trailer wiring systems, and in case you prefer not to use your tail lights we developed our Dual Power feature.

Brake Commander provides intelligent proportional hydraulic brake control for your Boat Trailer, Caravan / Towable RV, Horse Floats or any other trailer that requires brakes. When fitted with a 3/4" master cylinder Brake Commander will deliver up to 1400psi, but we didn't just stop there, we also developed intelligent safety monitoring features, an Electronic Park Brake and Break-Away Ready functionality.

Brake Commander's main electronic control unit is housed safely within the trailer mounted unit allowing specific setup parameters to be stored where they are needed most, with the trailer. Therefore once the initial setup parameters, ideal forward brake power and reverse brake power are set, they are stored digitally within the device on the trailer. This is especially handy if you tow more than 1 trailer behind your vehicle, as this would normally involve re-adjusting an in-car controller every time you towed different trailers, and you can rest assured knowing the trailer brakes are set correctly when and if you loan your trailer to family and friends.

All Brake Commander units are supplied with a Wireless Remote which have a full colour display, USB power port and a built in battery that provides up to 2hr's of operation when unplugged. In addition to providing access to various settings the Wireless Remote also provides graphical and audible warnings, the ability to operate the Electronic Park Brake and trailer brake Over-Ride function.

Brake Commander uses solid-state electronics capable of processing 40 million instructions per second and a brushless motor that spins freely to 22,000rpm with no wearing parts. The stroke length is programmable up to 55mm and the trailer mounted unit can be installed with 360° of freedom and only requires 4 wires to be connected. We also developed a start-up routine, which automatically locates the start position of the master cylinder, ensuring your system is always perfectly adjusted. Brake Commander also provides Break-Away Braking without the use of large batteries and battery charging systems.

Features

HYDRAULIC BRAKES

With 1400 psi of hydraulic pressure when fitted with a 3/4" master cylinder, intelligent control and safety monitoring features, it's never been easier to appreciate the benefits of hydraulic disc brakes on your trailer. Simply bolt your existing master cylinder on to Brake Commander and you are ready to go.

DUAL POWER

Brake Commander's power can be supplied by both the tail light circuit and / or an accessory circuit. This allows a main vehicle to be setup with power supplied to the accessories thus not requiring tail lights to be turned on. While other vehicles may still tow the trailer by simply turning on their tail lights. Not only is it easy for you, it's also easy for family members and friends with an adequate sized vehicle to borrow your boat, caravan, horse float or whatever it is you tow.

WIRELESS REMOTE

Included with all Brake Commander units is a wireless remote which provides real-time graphical feedback of device status and brake Override should you need it while you're on the move. It also allows you too quickly and easily access Brake Commander's advanced system configuration. And, since it's a wireless remote, you can easily transfer it between tow vehicles.

ELECTRONIC PARK BRAKE

Simply use the wireless remote to engage the park brake; it's even available for a short while after the trailer has been detached from the tow vehicle. And if you're inclined to forget to release the Park Brake before you take off, never mind, Brake Commander will automatically release it for you.

BREAK-AWAY READY

Break-Away batteries and charging circuits are simply not required by Brake Commander. Just wire in an industry standard Break-Away switch (sold separately) and Brake Commander looks after the rest. In fact, in the unfortunate event of a break-away, Brake Commander will apply emergency braking automatically, holding maximum braking until the trailer comes to a stop and the brakes are manually and intentionally released.



HUB KITS AND STUBS

TRAILER AND BODY EQUIPMENT / TRAILER PARTS AND SPARES - OTHER / HUB KITS AND STUBS

Aline Trading Pty Ltd, stock the following un-braked hub kits and stub axles.

Other versions including braked hubs are available to order.

Aline Trading Pty Ltd can supply complete brake upgrade kits to suit your existing axles. Available, in Hydraulic Drum, Electric Drum, Mechanical Drum, Hydraulic Disc or Mechanical Disc. Each kit includes: 2 x Braked hubs with bearings, seals, studs, nuts, mounting plates and bolts.



Please contact us today with your enquiry.

Hub Kits.					
Hub, bearings, seal, studs, nuts. Studs and cups are fitted.					
Part No	P.C.D - mm	Stud	Ftiment	Flange mm	Bearing
AL03209	4/101.2	1/2"	Mini	140	LM
AL03210	5/107.95	7/16"	HT	140	LM
AL03211	5/114.3	1/2"	Ford	140	LM
AL03205	5/120	7/16"	Commodore	150	LM
AL03208	5/120.65	7/16"	HQ	150	LM
AL03407	5/107.95	7/16"	HT	150	LM
AL03311	4/100	7/16"	BMW - Gemini	150	LM
AL03206	5/114.3	1/2"	Ford	150	LM
AL03258	6/139.7	1/2"	Landcruiser	190	LM
AL03403	5/120	7/16"	Commodore	150	SL
AL03404	5/120.65	7/16"	HQ	150	SL
AL03207	5/114.3	1/2"	Ford	150	SL
AL03197	6/139.7	1/2"	Landcruiser	150	SL
AL03402	6/139.7	1/2"	Landcruiser	190	2 Ton

Bearing Note.

LM = Standard Holden bearings. LM11910/49 & LM37010/48

SL = Slimline. Standard Ford bearings. 68149/10 & 12749/10

2 Ton = LM67010/48 & 25520/80



Stub Axles				
Supplied with stub, washer, nut & split pin.				
Part No	Size mm	Round/Square	Length	Bearing
AL03216	39	Round	10"	LM
AL03219	39	Round	12"	LM
AL03198	40	Square	10"	LM
AL03214	45	Round	12"	SL
AL03215	45	Square	12"	SL



VEHICLE IDENTIFICATION PLATES

TRAILER AND BODY EQUIPMENT / TRAILER PARTS AND SPARES - OTHER / VEHICLE IDENTIFICATION PLATES



VEHICLE I.D PLATES	
P/No	AL03084
Size	170 mm x 40 mm

Before registering a trailer, the manufacturer must affix a vehicle plate to the trailer. The vehicle plate provides clear information to the registering authority, owner and general public that the trailer is ready for road use. The trailer plate also provides useful information about the specifications of the trailer. The vehicle plate must be affixed to the trailer in a position where it may be readily examined. The vehicle plate must be permanently affixed by pop rivets, hammer drive rivets or screws. Fixing plates with adhesives is not acceptable.

Requirements may vary slightly between the states. Please check with your local authority.

Vehicle Plates

MANUFACTURER – Enter your name. The name of your business or “Home Made”

VIN – This is the Vehicle Identification Number that is issued by the registering authority. This VIN may also have to be welded or stamped to a substantial part of the trailer chassis. Ref your local authority.

DATE OF MANUFACTURE – Completion date of trailer build.

TARE (kg) – Total mass of trailer without any load, including “ball or drawbar weight”.

ATM – Aggregate Trailer Mass (kg). Total mass of trailer including maximum load.

MODEL No – Model of trailer.

TYRE SIZE – The tyre size as noted on the side walls of the trailer tyres. Ensure that the combined tyre load rating is above the ATM of the trailer.

RIM SIZE – As noted on the rim. Usually stamped on the inside of the rim.

COLD INFLATION PRESSURE (kpa) – This information is shown on the side wall of the tyre. If in doubt contact the tyre supplier.

AXLE GROUP LOAD CAPACITY (kg) – The capacity of the trailer suspension.

MANUFACTURER	TYPE SIZE	RIM SIZE
VIN	COLD INFLATION PRESSURE	
DATE OF MANUFACTURE	AXLE GROUP LOAD CARRYING CAP. KG.	
ATM	THE SUM OF THE LOAD CARRYING CAPACITIES OF THE TYRES FITTED TO ANY AXLE OR AXLE GROUP OF THE VEHICLE SHALL NOT BE LESS THAN THE RELEVANT LOAD SHOWN ABOVE.	
MODEL NO.	THE TYRES FITTED TO THIS VEHICLE SHALL HAVE A SPEED CATEGORY NOT LESS THAN “L” 120 KPH.	
THIS TRAILER WAS MANUFACTURED TO COMPLY WITH THE MOTOR VEHICLE STANDARDS ACT 1989		

HYDRAULIC BRAKE PARTS

TRAILER AND BODY EQUIPMENT / TRAILER PARTS AND SPARES - OTHER / HYDRAULIC BRAKE PARTS



A selection of brake line components are available including those listed below.

3/16” Bundy tube brake lines can be made in house to suit your requirements.

Note: Our complete hydraulic braked axle assemblies are supplied ready assembled with Bundy tubes from the brakes, T piece and rubber dropper hose.

Decription	Part No
3/16 Bundy tube pre made. 144" length	AL03079
3/16" Bundy tube per meter.	AL03420
Tube nut short. Suits T pce	AL03419
Tube nut long. Suits master cylinder.	AL03418
Brass Tee Piece.	AL03408
Straight joiner	AL03421
Weld on brake hose plate	AL03080
Brake hose retainer clip	AL03081
Rubber brake hose.	AL03329



BALL JOINTS

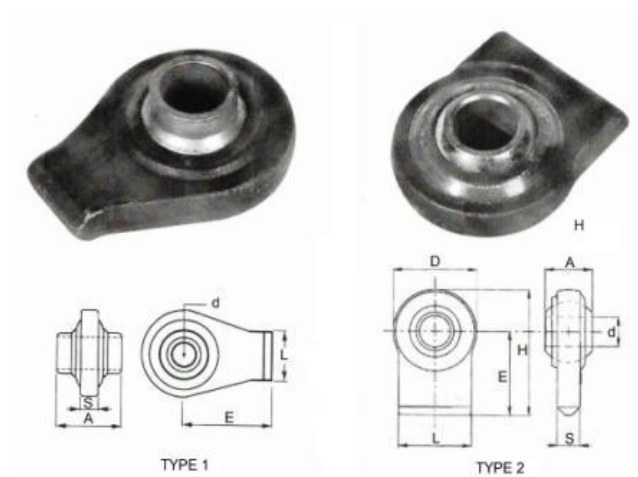
BALL JOINTS



Aline Trading P/L present a range of quality European made weld on ball joints. Suitable for use as linkage assemblies, tow eyes and pivot joints on a wide range of agricultural and industrial machinery.

Available in 3 styles and a range of sizes to suit your needs.

Please contact us today with your requirements.



Part No	Diameter (mm)	L	D	E	A	S	Type
AL01656	16.0	33	48	59	20	13	1
AL00813	19.5	30	59	50	44	14	1
AL01657	19.3	50	65	45	35	15	2
AL01658	22.2	60	68	50	35	18	2
AL00814	25.9	30	68	64	51	16	1
AL01659	25.5	70	78	50	35	18	2
AL01661	28.4	70	80	70	45	22	2
AL01662	32.2	70	95	65	45	22	2
AL01663	35.3	70	95	65	45	22	2
AL01664	38.4	80	108	65	45	24	2
AL01654	50.3	-	100	-	75	34	Round
AL00967	51.3	-	100	-	75	34	Round

Style from left to right. Type 2, Round, Type1



TOP LINKS

TOP LINKS

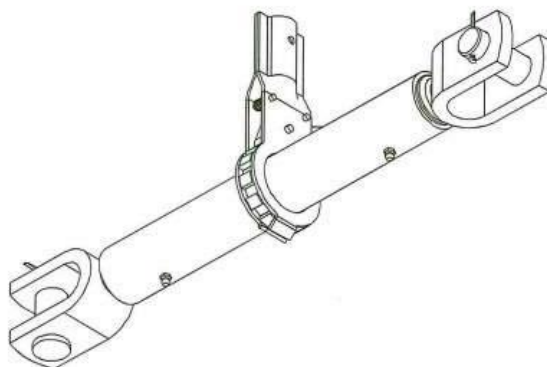
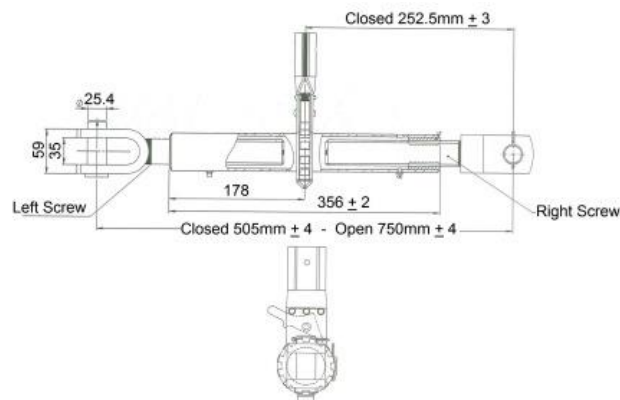


Aline Trading Pty Ltd present a very heavy duty ratchet adjustable top link suitable for conventional top link applications or as an adjuster arm on many other custom made agricultural and industrial machines.

Features:

- 12 mm thick clevis yokes.
- Metric M34 x 6 screw thread.
- Heavy duty outer tube and handle assembly.
- Greasable.

Ratchet Adjustable Top Link	
Part No	AL01972
Unit Weight	7 kg
Closed Length	505mm + 4mm
Open Length	750mm + 4mm
Clevis Pin Diameter	25.4mm (1")



GAS STRUT RECHARGE AND SALES

GAS STRUT RECHARGE AND SALES



Aline Trading Gas Strut Re-charge and Sales.

Aline Trading now offer their valued customers a gas strut re-charge and sales service.

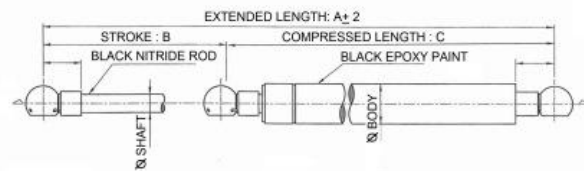
Backed by one of Australia's biggest strut suppliers Aline Trading Pty Ltd has available a large range of gas struts & accessories.

Aline Trading Pty Ltd, sell predominately into the industrial, automotive, marine & medical industries. We offer a friendly professional service and can provide assistance in application design and solutions.

Quality is paramount at Aline Trading Pty. Our struts are manufactured under ISO/TS 16949 that has been developed by the industry, "the International Automotive Task Force" (IATF), to encourage improvement in both the supply chain and the certification process. In fact, for the majority of leading vehicle manufacturers, certification to this specification is a mandatory requirement for doing business.

Our services include

New Gas Struts. Re-charging your existing gas struts. (subject to physical condition) Ability to set the Gas pressure to suit your requirements. Special Gas Struts can be made to order. Stainless Steel Gas Struts are available. Replacement Gas struts for Office Chairs. Wide range of brackets & ends for mounting Gas Struts. We can advise the correct Gas strut for your application.



PROCUREMENT AND CUSTOM DESIGNS

PROCUREMENT AND CUSTOM DESIGNS



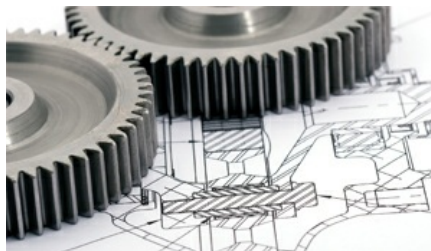
Procurement - **Procurement** is the acquisition of appropriate goods and/or services at the best possible total cost of ownership to meet the needs of the purchaser...

Aline Trading P/L offer our services to procure the products you require to meet your needs and to make your business successful.

The products shown on this site are our standard items. Some may be familiar to you as the product formerly offered by Andiline while others are newer additions.

Our extensive network of suppliers, allow us to bring these products to you. These same suppliers also give us access to a much wider range of products including items outside the core focus of our business.

If , as a manufacturer you require a product that you are having difficulty sourcing or would like to obtain at a more favourable price please contact us today to discuss your needs.



WEB SITE DISCLOSURE - WARRANTY

WEB SITE DISCLOSURE - WARRANTY



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ALINE TRADING PTY LTD

ABN 74 137 252 594

GENERAL WARRANTY POLICY

ALINE TRADING PTY LTD Warrants to the customer that it shall free of charge either repair or replace or at its option refund the purchase price of defective goods where the defect appears under proper use within 12 months (the "Warranty Period") from the date of invoice. PROVIDED THAT:

a) The customer provides Aline Trading with satisfactory proof of purchase.

b) Notice of the defect is given to Aline Trading immediately once the customer becomes aware of it.

c) If so requested, the goods are returned to Aline Trading at purchasers expense for assessment.

(Accepting goods for return does not automatically constitute acceptance of a claim).

This warranty applies only to defects found to Aline Trading's satisfaction to be solely attributable to faulty design, workmanship or materials and excludes damage caused by all or any of the following:

a) Improper installation.

b) Inadequate maintenance.

c) Misuse.

d) Neglect.

e) Shipping (or other forms of transport).

f) Accident.

g) Normal wear & tear.

h) Use other than ordinary commercial or industrial applications.

(i) Unauthorized alteration, processing or adaptation by the customer or a third party.

3. Aline Trading's liability under the foregoing shall be to the exclusion of any other liability to the customer whether contractual, tortious or otherwise and Aline Trading will not be liable to the purchaser for any increased costs or expenses or for any loss of profit, business, contracts, revenues or anticipated savings or for any indirect or consequential damage of any nature whatsoever.

4. Aline Trading is not responsible for freight charges or losses in transit.