

TRAILPARTS™

Innovative Trailer Solutions

We do the business.



**Product
Catalogue 2023**

OUR STORY

Since starting in 1997 as a small over-the-counter trailer spares provider in rural New Zealand, Trailparts has built itself on innovating and developing solutions that re-think the way trailers are designed and operate in the field. At Trailparts, we reckon trailer builders and their customers need an open-minded partner to deliver solutions that are innovative, add value, improve safety and we've made this our responsibility ever since.

The Australia story:

Fast track to 2019, several Australian companies who had put roots down in New Zealand and had dealings with us were putting the pressure on us to make our products available in Australia. So in June 2019 Trailparts invested in a new manufacturing facility and warehouse in Epping, Melbourne. We had a unique range and thought there should be enough interest/demand for them in the market to get us off the ground....we underestimated demand by a long shot! Despite there being a pandemic and huge supply chain disruption, Trailparts AU has experienced 150% growth in 3 short years, from producing 30 to over 1000 axles per month, added 8 staff, shifted premise to x2.5 size warehouse and no sign of slowing down!

Efficient delivery and time saving solutions.

We do the business - letting you get on with the things most important to you.

You'll find that our service is of the highest standard, and invite you to prove that. We love what we do, and our staff co-authored these values that guide how we operate;

BEST

Do the best - for your customer, for the company, for your team, and for yourself - in any given situation.

ENJOYMENT

If you love what you do, people will know it! Be yourself, and have fun along the way.

TRUST

We'll be honest with ourselves and each other, straight-up with our customers, and reliable in the eyes of our suppliers.

FAMILY

We'll drive team engagement by having an open and sharing culture, recognize how our people contribute to our success, and reward generously for work well done.

INTRODUCTION



Welcome to the 2023 edition (First in Australia) of the Trailparts™ PTY Ltd catalogue - We have a fresh look with our new branding, focusing on what we have done so well for nearly 25 years - Innovative Trailer Solutions. This is what we do, and how we strive to create value for our local customers.

Trailparts are, like many of our customers, an independent 100% family owned company. Supported by our great team with extensive knowledge and training, Trailparts provides the same excellence in customer satisfaction and service.

Our Mission:

“To anticipate market trends, innovating to apply technology and methods in new ways, adding value, and making safer”

We're doing this by introducing products that add value by saving time and creating points of difference for manufacturers to sell on, and by reducing maintenance costs and risk of unintentional misuse for end users. Be sure to check out our two latest innovations; **Hygo** - 3500kg hydraulic over ride braking system. **Unihub** - Sealed-for-life unitary bearing hub.

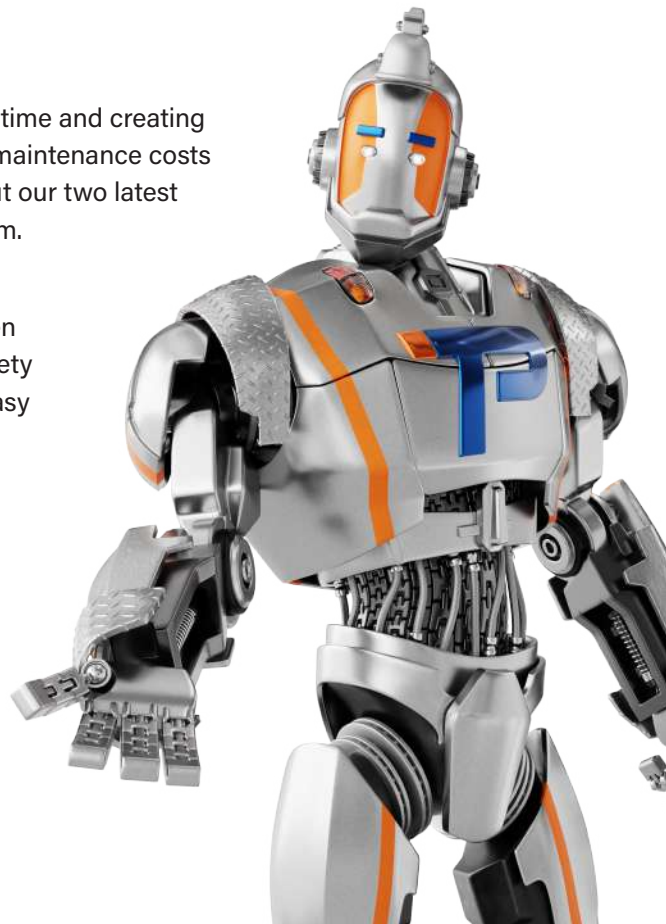
In addition, we have just launched our new website which has been stripped right down to the chassis, re-built to accommodate a variety of new useful resource tools and features. From technical data to easy online custom axle quote form. Watch this space.

This is how ***“we do the business, so you can get on with yours.”***

Best regards,

A handwritten signature in black ink, appearing to read 'Roddy Person', with a long, sweeping underline.

Roddy Person
Managing Director



NEW ZEALAND TO AUSTRALIA

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NEW ZEALAND HQ - WORKSHOP



NEW ZEALAND - NATIONWIDE FREIGHT



AUSTRALIA HQ - WORKSHOP



AUSTRALIA - PROFESSIONAL WELDING



AUSTRALIA - CUSTOM AXLE ORDER

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AXLE MANUFACTURING



AXLE MANUFACTURING

TRAILPARTS[™]
Innovative Trailer Solutions



We do the business.

CUSTOM AXLES

HOLLOW BOX SECTION AXLE TECHNOLOGY

18 MONTHS WARRANTY

ON CUSTOM AXLES AND OTHER TRAILPARTS COMPONENTS

Why do we use hollow axle technology?



Lighter

Hollow Axles are up to 75% lighter than solid axles, greatly reducing the overall weight of the trailer. This makes the trailer easier to handle when installing and optimizes weight for heavier loads.



Better / Safer Towing

A critical objective in the automotive industry, especially in regards to towing is to reduce the unsprung weight. Doing so greatly improves towing experience, reduces wear and tear on all the key suspension stress points.



Built tough, Built Local

All our Axles are manufactured using strong, high integrity Australian steel. We take pride in local quality and that's why we source our steel from local suppliers. This allows us to procure specifically milled, quality, high tensile steel.

Weight comparison - Solid vs Hollow Axles

Steel Size	Solid Beam (kg/m)	Sq. Hollow Section (kg/m)	Weight Saving*
50mm Axle	19.63kg	6.97kg	25.5kg
65mm Axle	33.17kg	7.65kg	51.0kg

*These figures are indicative based off a 2m length axle

AXLE MANUFACTURING



In-House Manufacturing

Our Axles are assembled and professionally welded in-house from high tensile Australian steel.

Accurate

At Trailparts all our axles are manufactured with 100% accuracy. Stubs are welded to our hollow axles using a laser set jig for precision and consistency.

Efficient

Trailer manufacturers are finding this service saves them time and staff capacity, while still giving them the confidence that their trailers aren't compromised in any way.

Durable

Unlike imported axles and components, Trailparts axles are engineered and designed to suit Australian roads and conditions.

Quality Control

It is important to us that we are able to keep track of our axles quality even after it has left the door. All axles come with a unique serial number and the axles details are recorded in the Trailparts database.

How does it work?

BRAKE TYPE

Think about your application, what best suits it... electric, hydraulic, mechanical? And then... disks or drums?

PCD

What wheels are you using and what is the PCD (Pitch Circle Diameter) the hubs need to be?



CHOOSE YOUR WEIGHT RATING

From 1500kg up to 3000kg (per axle), there is an option to suit your trailer requirements.



AXLE TYPE

What trailer height are you trying to achieve... does this mean a straight or dropped axle?



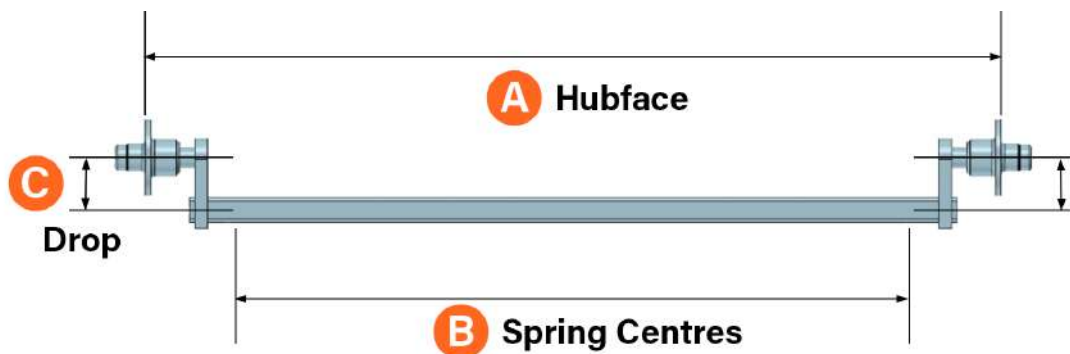
YOUR DIMENSIONS

Tell us your custom axle dimensions that the axle needs to be made to. Ref to page 40




AXLE MANUFACTURING


AXLE CONFIGURATIONS



1500KG SLIM-LINE RANGE


	Dropper Options			Stud Pattern (PCD)		
	45mm	65mm	100mm	5 x 4½"	5 x 150mm	6 x 5½"
Non Braked	✓	✓	✓	✓	✓	✓
Hydraulic 225mm Solid Disc	✗	✓	✓	✓	✗	✗
Hydraulic 235 Vented Disc	✗	✓	✓	✓	✗	✗
10" Electric Drum	✓	✓	✓	✓	✗	✓
10" Hydraulic Drum	✓	✓	✓	✓	✗	✓
Mechanical Disc	✓	✓	✓	✓	✗	✗

1800KG PARALLEL RANGE


	Dropper Options			Stud Pattern (PCD)		
	45mm	65mm	100mm	5 x 4½"	5 x 150mm	6 x 5½"
Non Braked	✓	✓	✓	✓	✓	✓
10" Electric Drum	✓	✓	✓	✓	✓	✓
10" Hydraulic Drum	✓	✓	✓	✓	✓	✓

AXLE MANUFACTURING


1800KG UNIHUB RANGE

	Dropper Options			Stud Pattern (PCD)		
	45mm	65mm	100mm	5 x 4½"	5 x 150mm	6 x 5½"
Non Braked	✓	✓	✓	✓	✓	✓
Hydraulic 225mm Slim Disc	✓	✓	✓	✓	✓	✓
Hydraulic 235 Vented Disc	✓	✓	✓	✓	✓	✓
10" Electric Drum	✓	✓	✓	✓	✓	✓
10" Hydraulic Drum	✓	✓	✓	✓	✓	✓

2500KG RANGE

	Dropper Options			Stud Pattern (PCD)		
	45mm	65mm	100mm	5 x 4½"	5 x 150mm	6 x 5½"
Non Braked	✗	✓	✓	✗	✗	✓
12" Electric Drum	✗	✓	✓	✗	✓	✓
12" Hydraulic Drum	✗	✓	✓	✗	✓	✓

3000KG UNIHUB RANGE

	Dropper Options			Stud Pattern (PCD)		
	45mm	65mm	100mm	5 x 4½"	5 x 150mm	6 x 5½"
Hydraulic 235 Vented Disc	✗	✗	✓	✗	✗	✓
12" Electric Drum	✗	✗	✓	✗	✗	✓
12" Hydraulic Drum	✗	✗	✓	✗	✗	✓



NOTES

A series of horizontal dashed lines for taking notes.

AXLE - SPARE PARTS



AXLE - SPARE PARTS



AXLE - SPARE PARTS

HUB KITS - NON BRAKED



Type	Hub kit (pr)	Stud Pattern	Rating	Dustcap	Backplate	Caliper
Slimline	H5032H	5 x 4 1/2"	1750kg	H4951	N/A	N/A
Slimline	H5040H	6 x 5 1/2"	1750kg	H4951	N/A	N/A
Slimline	H5048H	5 x 150mm	1750kg	H4951	N/A	N/A
Parallel	H5072	5 x 4 1/2"	1800kg	H4959	N/A	N/A
Parallel	H5077	6 x 5 1/2"	1800kg	H4959	N/A	N/A
Parallel	H5608	5 x 150mm	1800kg	H4959	N/A	N/A
Unihub	HU5412H	5 x 4 1/2"	1800kg	AU19012	N/A	N/A
Unihub	HU5417H	6 x 5 1/2"	1800kg	AU19012	N/A	N/A
Unihub	HU5418H	5 x 150mm	1800kg	AU19012	N/A	N/A
Dexter	H4357EX	6 x 5 1/2"	2500kg	H4959	N/A	N/A

NOTE: All hubs are supplied as pairs, and include bearing kits, dustcaps, and wheelnuts. Non standard stud patterns may be subject to extra charges and are non returnable.

HUB KITS - HYDRAULIC DISC



Type	Hub kit (pr)	Stud Pattern	Rating	Dustcap	Rotor	Caliper
Slimline	H4302H	5 x 4 1/2"	1750kg	H4951	225mm Solid	B3700
Slimline	H4307H	6 x 5 1/2"	1750kg	H4951	225mm Solid	B3700
Unihub	HU4302H	5 x 4 1/2"	1800kg	H4951	225mm Solid	B3700
Slimline	H4322H	5 x 4 1/2"	1750kg	H4951	235mm Vented	B3600
Slimline	H4327H	6 x 5 1/2"	1750kg	H4951	235mm Vented	B3600
Unihub	HU4322H	5 x 4 1/2"	1800kg	AU19012	235mm Vented	B3600
Dexter	H4357EX	6 x 5 1/2"	2500kg	H4959	290mm Vented	B3600
Unihub	HU4357H	6 x 5 1/2"	3000kg	AU19012	290mm Vented	B3600

NOTE: All hubs are supplied as pairs, and include bearing kits, dustcaps, and wheelnuts. Non standard stud patterns may be subject to extra charges and are non returnable. Calipers sold separately.

AXLE - SPARE PARTS

HUB KITS - ELECTRIC DRUM



Type	Hub kit (pr)	Stud Pattern	Rating	Dustcap	Backplate	Caliper
Slimline	H5412H	5 x 4 1/2"	1750kg	H4951	B3150/B3151	N/A
Slimline	H5417H	6 x 5 1/2"	1750kg	H4951	B3150/B3151	N/A
Parallel	H5602	5 x 4 1/2"	1800kg	H4959	B3150/B3151	N/A
Parallel	H5607	6 x 5 1/2"	1800kg	H4959	B3150/B3151	N/A
Parallel	H5608	5 x 150mm	1800kg	H4959	B3150/B3151	N/A
Unihub	HU5412H	5 x 4 1/2"	1800kg	AU19012	B3150/B3151	N/A
Unihub	HU5417H	6 x 5 1/2"	1800kg	AU19012	B3150/B3151	N/A
Unihub	HU5418H	5 x 150mm	1800kg	AU19012	B3150/B3151	N/A
Dexter	H5727	6 x 5 1/2"	2500kg	H4958	B3156/B3157	N/A
Dexter	H5787EX	5 x 150mm	2500kg	H4958	B3156/B3157	N/A
Unihub	HU97B	6 x 5 1/2"	3000kg	AU19012	B3156/B3157	N/A

NOTE: All hubs are supplied as pairs, and include bearing kits, dustcaps, and wheelnuts. Non standard stud patterns may be subject to extra charges and are non returnable. Backplates sold seperately.

HUB KITS - HYDRAULIC DRUM



Type	Hub kit (pr)	Stud Pattern	Rating	Dustcap	Backplate	Caliper
Slimline	H5412H	5 x 4 1/2"	1750kg	H4951	B3160/B3161	N/A
Slimline	H5417H	6 x 5 1/2"	1750kg	H4951	B3160/B3161	N/A
Parallel	H5602	5 x 4 1/2"	1800kg	H4959	B3160/B3161	N/A
Parallel	H5607	6 x 5 1/2"	1800kg	H4959	B3160/B3161	N/A
Parallel	H5608	5 x 150mm	1800kg	H4959	B3160/B3161	N/A
Unihub	HU5412H	5 x 4 1/2"	1800kg	AU19012	B3160/B3161	N/A
Unihub	HU5417H	6 x 5 1/2"	1800kg	AU19012	B3160/B3161	N/A
Unihub	HU5418H	5 x 150mm	1800kg	AU19012	B3160/B3161	N/A
Dexter	H5727	6 x 5 1/2"	2500kg	H4958	B3166/B3167	N/A
Dexter	H5787EX	5 x 150mm	2500kg	H4958	B3166/B3167	N/A
Unihub	HU97B	6 x 5 1/2"	3000kg	AU19012	B3166/B3167	N/A

NOTE: All hubs are supplied as pairs, and include bearing kits, dustcaps, and wheelnuts. Non standard stud patterns may be subject to extra charges and are non returnable. Backplates sold seperately.



AXLE - SPARE PARTS

**NEW
INNOVATION**

unihub.

Low Maintenance & Servicing Cost



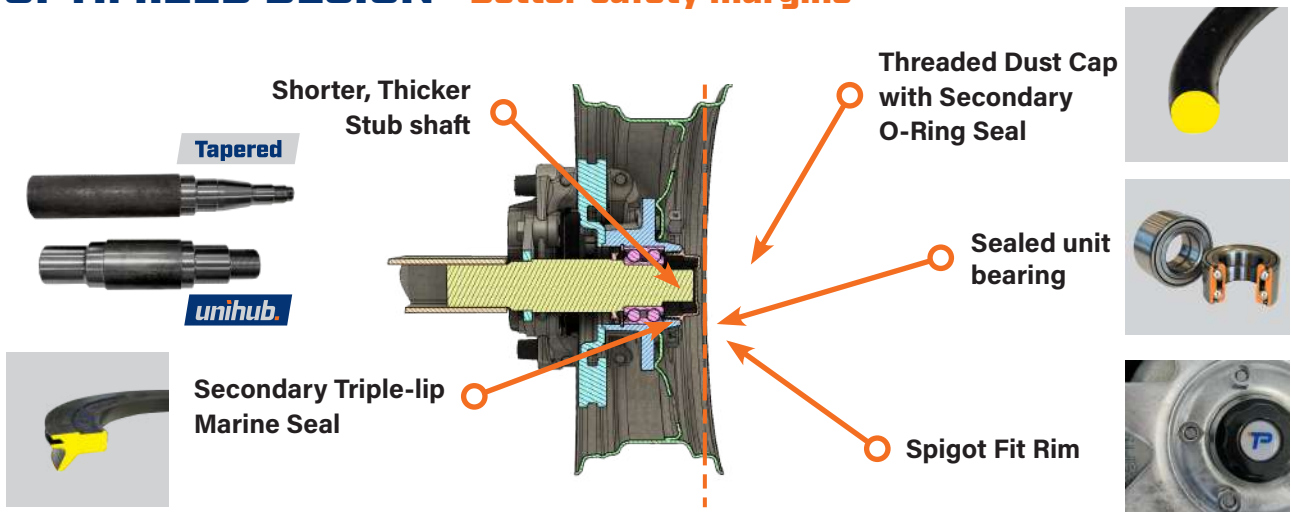
"Automotive Hub Technology finally applied to trailers."

Locally Engineered for Durability & Reliability

Unihub's entire wheel-end design (wheel, hub, stub axle and bearing) is optimized to ensure that axial and radial loads are always carried exactly where you want it to be - directly through the bearing centre, on the meaty part of the stub axle. These hubs feature long life, sealed unitary bearings. They will transform how hire and rental fleets can manage trailer servicing costs, and for trailer builders looking to stand apart from the group with a much more reliable, much safer trailer hub design.



OPTIMIZED DESIGN - Better safety margins



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UNITIZED BEARING

unihub.

Trailparts Unihub uses unit bearings with back-to-back duplex designs and integrated seals. These feature super-finished bearing raceways and a lower coefficient of friction in operation, in turn generating less heat and leads to longer life. Bearings are also preloaded at manufacture, which means the chance of an installer causing damage through over-tightening is eliminated.

Both variants we use are a sealed-for-life design that doesn't require any maintenance. When used on Trailparts assembled axles, in conjunction with the secondary seals being fitted, carry a **3 year warranty** - another AU trailer industry first.

Dual row angular contact bearings - 1800kg

These use spherical ball bearings, and the design of the races angle the load towards the bearing centre line. These can bear radial and axial loads from all directions about the hub. They can also bear tilting effects, so withstand the twisting loads that non-steering wheels in sets eg. Tandem and Tri Axle trailers.



Double row taper roller bearings - 3000kg

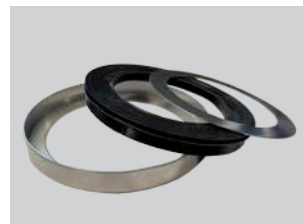
The two rows are angled towards the centre of the bearing in the same way as the 1.8T one, but use taper roller bearings instead of spherical ball bearings.

These have the same benefits as dual row angular contact bearings, but can carry higher loads, resist twisting even better, and are more stable under those loads.



SUPERIOR SECONDARY SEALS

The Unihub range was designed to be the best a trailer hub could be. So whilst all Unihub bearings have an integrated seal - and that vehicle manufacturers fit them just as they are - we went a step further. Trailparts have developed a completely new secondary seal arrangement on both sides of the hub to eliminate dust and water ingress.



Dust Cap - O-Ring Seal

We engineered an all-new nylon, threaded grease cap, so that we could integrate a secondary O-Ring seal. This important feature keeps contaminants out. It also makes fitting and replacing easy as they do not risk damage during removal. These new threaded caps are less prone to being knocked off during use than the pressed steel caps commonly found on

Marine Seal - Triple-lip

Marine seals are already widely used on trailers. We have re-engineered these to fit internally, while still having the triple-lipped characteristics that make them so good at resisting the ingress of contaminants.

These seals resist the ingress of water, meaning they are the perfect choice for boat trailers.



AXLE - SPARE PARTS

SPIGOT FIT



Wheels and hubs are always spigot mounted in automotive applications. However, the organic way trailer hub and wheel combinations have become mainstream, meant this important safety feature has been ignored.

The Unihub range introduces this feature, which is designed to eliminate improperly mounted wheels, helping prevent damage to wheel studs and nuts during fitting. Often this damage will lead to early failure in severe conditions.



Clearance fit - No gap

Standard fit - 10mm gap

MARKETPLACE WHEELS

Unit bearing design requires that hub and rims be engineered to be used together. An early decision we made was to design the Unihub range around the trailer wheels that are common in the Australian marketplace.

These are very cost-effective and widely available, and also means trailers can re-use these wheels when upgrading to Unihub. This is in contrast to EU/UK trailers and components, which use notoriously expensive wheels that are not easy to locate at short notice, when you need them.



OPTIMIZED DESIGN - Better safety margins

Current common trailer hub designs with taper roller bearings were never originally designed to be used with the centred style rims they are commonly paired with. They disproportionately load the smaller outer bearing with 65% on the axial load, which can (and often does) lead to bearing failure. Along with this, the stub axles see loads further out the shaft where they are far narrower/weaker, which can (and often does) lead to bent and/or broken stub axles.

By contrast, Unihub's entire wheel-end design (wheel, hub, stub axle and bearing) is optimized to ensure that axial and radial loads are always carried exactly where you want it to be - directly through the bearing centre, on the meaty part of the stub axle.

These shorter and thicker shafts with an engineering-led approach means safety margins with Unihub are massively increased - the 1.8T combination having a peak load safety factor of 4.8x, and 5.6x on the 3.0T hub. The Unihub is able to withstand bending loads for far longer.



BRAKE SYSTEMS & PARTS

BRAKE SYSTEMS & PARTS



BRAKE SYSTEMS & PARTS

WHY CHOOSE PATRIOT CALIPERS?

The Trailparts Patriot series define what a trailer disc brake should be. They give significant specification increases in every desirable area - brake pad size; piston on brake pad area; caliper frame rigidity; ventilated rotors; easy servicing features - delivering the total trailer disc brake package without compromising crucial space constraints and fit tolerances.

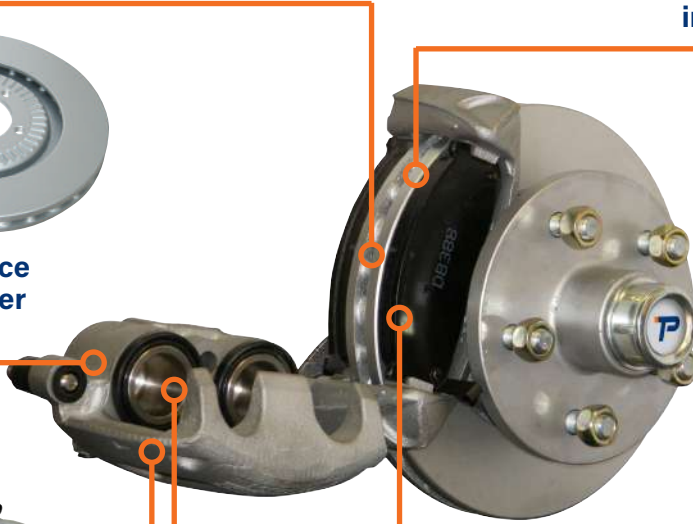
Vented rotors for improved cooling



26mm thick rotors for increased wear and longevity



Easy-to-service caliper flip over design



Larger brake pads for longevity 80% more contact area

Twin pot high performance calipers



High quality stainless steel pistons and pins

Commonly used brake pads



Trailparts Patriot brake pads

The graphic below shows how the increased outputs of Patriot brakes will impact stopping distances given identical conditions, actuation, and trailer design. The graphic presumes a 2500kg trailer with 185R14C tyres and one axle braked from 30km/h using the trailer brakes only.

	Trailparts™ Patriot caliper on 230mm ventilated disc	50mm mono piston caliper on 225mm disc	50mm mono piston caliper on 260mm disc
Effective Piston Area	2904mm ²	1963mm ²	1963mm ²
Clamping Force Generated	8.01kN	3.73kN	3.73kN
Torque per caliper	606Nm	274Nm	329Nm
Stop from 30km/h	10.2m	17.4m	15.2m

STOP ACHIEVED FROM 30 KPH



PATRIOT CALIPERS - HIGH PERFORMANCE



Code	Description
B3600	1 x pair of complete Patriot hydraulic calipers including brake pads
B3668K	Guide pin/bush kit
B3681K	Seal and piston boot kit
B3690	Brake pads (pair)
B3670	3/8" UNF Bleed screw, stainless
B3680	43mm Stainless steel piston kit (pair)

HANDBRAKE KIT - PATRIOT CALIPERS



Trailparts™ Patriot calipers are quickly and easily able to have a mechanical park brake fitted, which is operated by cables and completely independent of the hydraulic components in the caliper. This is a cost effective solution to the requirement by law for braked trailers over 2500kg to be fitted with a mechanical park brake; both at the time that the trailer is being built, and as an upgrade option at a later date.

Code	Description
B3605	Forward Pull Handbrake Kit - Suits Patriot



BRAKE SYSTEMS & PARTS



Innovative, wireless brake control technology

Easy to use, multi-vehicle brake control for trailers up to 4500kg

The Credo™ brake control system was designed with ease of use in mind, and around the idea that any tow vehicle could be coupled to a Credo™ equipped trailer. Benefits of fitting a Credo™ system are significant, including;

- Remove the high cost of installing in-cab hard wired brake controllers in tow vehicles. No vehicle-side installation is required
- Enjoy the ultimate versatility in multi-vehicle fleets - any vehicle can tow a Credo™ equipped trailer
- Simple and intuitive for customers to use, reducing the chances of operator error
- Allow towing of trailers from with weights of 1000kg to 4500kg
- Hire plant out on trailers, and enjoy the saving on delivery costs while giving customers greater flexibility
- Fully compliant with the requirements of Australia Vehicle Standard, Design Rule 38/05 - Trailer Brake Systems

Why choose Credo?



The Credo brake controller boasts a number of innovative features, making it the most versatile brake control solution on the Australasian market.



Fully compatible with 12v and 24v vehicles



Easy to use touch screen for simple and intuitive operation, on-the-move adjustments and system troubleshooting



Compatible with electric and electric/hydraulic braking systems

What is the Credo Controller?

The patented Trailparts™ Credo Brake Control system makes it possible for any suitable tow vehicle* to tow a trailer fitted with an Credo module, and the key word here is ANY. The Credo Brake Controllers will;

- Avoid ALL of the costly hard-wiring normally associated with in-cab brake controllers. No direct power feed is required from the tow vehicle's battery to the controller or on trailer module.
- Allow towing of Credo equipped trailers with electric drum brakes AND electric/hydraulic actuators**.
- Give the ability to switch the in-cab portion of the controller between tow vehicles. It's fast and easy to legally tow trailers (between 2501kg and 4500kg) with any suitable vehicle.
- Allow towing to occur with ANY 12v or 24v vehicle without costly reducers being required in the electrical system, and also eliminates over-voltage damage commonly inflicted on braking systems of this type. The entire Trailparts™ Credo brake control system is multi-voltage capable.
- Eliminate ANY difficulty or interference associated with vehicle wiring systems, such as CANbus and Fibre Optics, that are becoming more and more challenging to work with when equipping tow vehicles to be able to tow TB class trailers over 2500kg.
- Operate through ANY standard trailer electrical plug, whether 7 pin flat, 7 pin round, or 12 pin flat – all are capable of operating these controllers.
- Deliver braking when travelling in reverse.

IF IT SOUNDS SIMPLE - THAT'S BECAUSE IT IS!

*Any tow vehicle with an operational standard power socket.

**Sens-a-brake™ & Hydrastar XL™ actuators are not suitable for use with Trailparts™ Credo controllers.

Braking laws in Australia

The requirements for brake control systems on trailers up to 4500kg GVM are:

- The trailer braking can be progressively increased and decreased by means of a control signal from the tow vehicle (ADR38 and VIB6).
- Trailers of over 2000kg GTM must be equipped with an efficient Emergency Brake (breakaway) System ADR38 and VIB6).
- That there is a means by which the breakaway energy source is kept in a fully energized condition (VIB6).
- That the trailer brakes can be applied from the driver's seated position (VIB6).
- That the in-cab controller has a brake over-ride device (VIB6).
- That there is a means to warn the driver, from their normal driving position, if the battery used to operate the breakaway system drops to a level not able to hold the trailer brakes on for 15 minutes (VIB6).
- Enjoy peace of mind towing with on-screen live braking system performance feedback and troubleshooting assistance.



- Tow with **ANY** tow vehicle.
- No vehicle setup required.
- Easily operated by anyone.



BRAKE SYSTEMS & PARTS

How does the Credo Controller work?

The Trailparts™ Credo brake control system really is simple, and is made up of three parts.

In-vehicle Credo controller: This plugs into a standard vehicle power socket, and communicates wirelessly with the on-trailer module to regulate braking effort generated. It is multi-voltage capable, and can therefore be used in any suitable tow vehicle, and has four key functions:

- Allows the on-trailer module to be programmed to deliver the pre-set desired level of braking according to the load carried, and is variable in 20 braking levels from 5% through to 100%. The effort generated in each braking cycle is also displayed in a digital readout as a percentage, making setting and adjusting the braking effort delivered to the trailer simple and intuitive on-the-fly.
- Has five sensitivity adjustment settings, which alters how quickly the pre-set braking level is applied on the trailer. A lower setting, for example, gradually ramps up the braking force, and makes the Credo controller ideal for livestock or horse float applications.
- Features an emergency switch that engages the trailer brakes only independent of the tow vehicle, which can be used to control trailer snaking or sway.
- Incorporates an audible warning system for when a fault occurs.



On-Trailer Credo Module: This is mounted on the trailer, parallel with the direction of travel. It houses a microprocessor and accelerometer, which senses the rate that the stop is occurring, and applies more or less braking to the trailer wheels accordingly. It is multi-voltage capable, and can be towed by any suitable tow vehicle; its power source being the battery supplied as part of the breakaway kit, below. It is housed in an IP67 rated alloy enclosure, with the internal components fully encased in resin for shock and water ingress protection, which makes them suitable for exposed mounting.

Breakaway Kit: As with most braking systems for TB class trailers, the breakaway kit ensures power is applied to the trailer brakes in the event of a tow vehicle separation. However, with the Credo brake control system, the breakaway battery is also used as the source of power to operate the on-trailer Credo module. This in turn is trickle charged by drawing power from the trailer tail lamp circuit, which means that the towing vehicle must have its lights on when towing with an Credo controller.



Credo Brake Controller

Wireless In-cab Controller

- Includes components as shown.
- Instruction manual for touch screen controller.

Code	Description
BS3322	Credo In-Cab Controller with case & accessories
BS3320	Credo In-Cab Controller only
BSC-CASE	Carry case only
BSC-A	USB Adapter for Credo
BSC-H	Handpiece holder for Credo
BSC-AVH	Airvent holder for Credo



Credo Brake Controller

Electric Brake Kits

- Quick & easy to install.
- On-trailer Credo Module.
- Includes In-cab controller with case & accessories.
- Breakaway Switch (BSCE only)
- 12v 12/14Ah Battery in box. (BSCE only)

Code	Description
BSCC	Credo Incab & Trailer Controllers only
BSCE	Credo Electric Brake Controller Kit, Complete



Credo Brake Controller

Pre-Assembled Hydraulic Kit

- **NEW** Maintenance charging port
- Quick & easy to install.
- Built in On-trailer Credo Module.
- Built in On-trailer Hydraulic Actuator.
- Built in Breakaway Switch.
- Built in 12v 12/14Ah Battery.
- Includes alloy base plate for mounting.
- Includes In-cab controller with case & accessories.

Code	Description
BSCHPA	Pre-Assembled Credo with Actuator



PROPORTIONAL TRAILER MOUNTED CONTROLLER



Features;

- Suited for trailers with electric drum brakes up to 2000kg.
- Multi-voltage capable input - 12v or 24v.
- Fully sealed compact design 65mm x 65mm.
- Inertia technology gives a smooth and seamless braking experience.
- Suits single - braked axle



**NEW
INNOVATION**

hygo.
MkII

3.5T HYDRAULIC OVER-RIDE BRAKES

- Easy multiple vehicle towing.
- No in-cab wiring required.
- Supports AU products / industry.
- Unihub compatible.



NO ELECTRICS REQUIRED

Why Hygo?

The Trailparts Hygo Mk II Kit is the only ADR approved, high performance hydraulic brake system for trailers up to 3500kg. It's a plug-and-play system that's fast and easy to fit, and offers several advantages over EU alternatives.

Core Benefits of the Hygo MkII

Unihub Compatible

Unihub is our latest innovation and an all new hub design for the AU market. Low maintenance, bigger safety margins. Ask now more details.

Brake-away Function

In the event of a vehicle separation, the break-away feature on our coupling will immediately apply the brakes.

Multiple tow vehicles

With no in-cab wiring, trailers fitted with the Hygo MkII can be towed without brake controllers.

Parking Brake & Auto-Reverse

The Hygo MkII has an effective, easy to install parking brake and features auto-reverse to release the brake when the tow vehicle is reversing.

Off the shelf components

Nobody wants to mess around with expensive, hard to find spares and parts, a big problem with EU imports. This system uses Trailparts core off the shelf components offering customers fully customised builds with readily available parts.

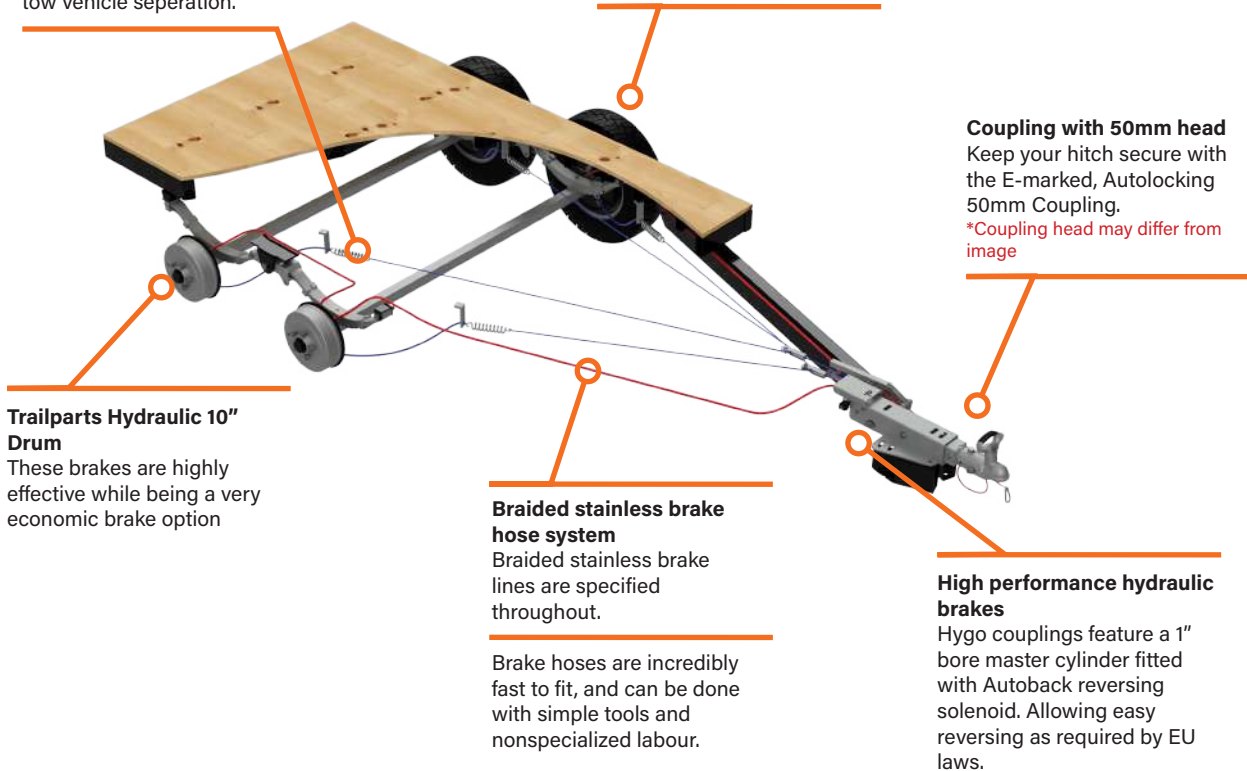
BRAKE SYSTEMS & PARTS

Handbrake & Breakaway System

A stand-alone cable brake system provides a parkbrake function that doubles as an emergency brake that activates in the event of a tow vehicle separation.

Wheel Specification

Testing and certification of the Trailparts Hygo system use tyres that are 195mm wide. Wheel diameters between 525mm and 670mm can be used.



Trailparts Hydraulic 10" Drum

These brakes are highly effective while being a very economic brake option

Braided stainless brake hose system

Braided stainless brake lines are specified throughout.

Brake hoses are incredibly fast to fit, and can be done with simple tools and nonspecialized labour.

Coupling with 50mm head

Keep your hitch secure with the E-marked, Autolocking 50mm Coupling.

*Coupling head may differ from image

High performance hydraulic brakes

Hygo couplings feature a 1" bore master cylinder fitted with Autoback reversing solenoid. Allowing easy reversing as required by EU laws.

Advantages over EU import trailers:

- Less down time: parts are locally designed, and replacement parts such as brake pads are available off-the-shelf.
- Lower lifetime costs: replacement parts cost less compared to pricey EU parts. And low-maintenance disc brakes are used instead of the cable and shaft mechanical drum brakes used on all EU trailers.
- Customisation is possible: trailers can still be completely customised and designed to suit your application – and not restricted to the designs that importers want to sell you from their stock.

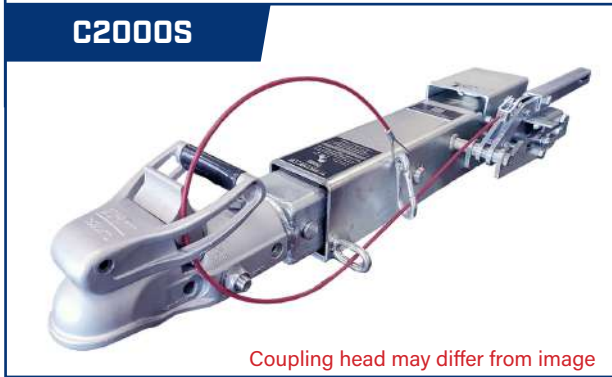
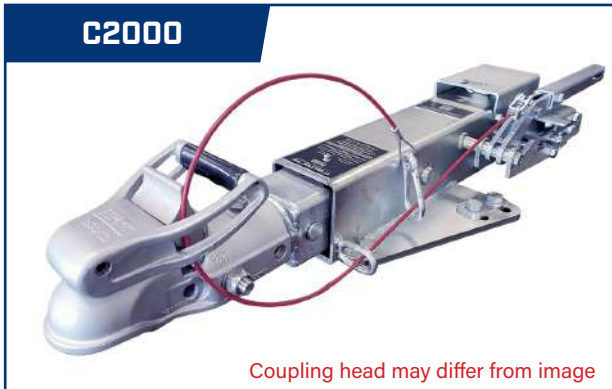
Need help with approval?

We can help guide you through the process of applying for an approval for the Hygo system. And if you're producing multiple trailers to the UN/ECE R13 standard using the Hygo system, we can advise you on streamlining the process significantly. Just another way we do the business, so you can get on with yours. **Get in touch to find out more.**



BRAKE SYSTEMS & PARTS

HYGO MKII - CORE COMPONENTS



Code	Description
C2000	Hygo Coupling - A-frame mount
C2000S	Hygo Coupling - Straight mount
B3312	Hygo Brake Assembly Kit
B312000EX	Bowden cable - Spare

Note: The Hygo mkII requires x2 axles to be braked on both tandem and tri-axle trailers.

FLOATING MALE TUBE NUT HOSES - 90° ELBOW

Hoses	Code	Hoses	Code
0.5m hose	BFT90500	1.8m hose	BFT901800
0.7m hose	BFT90700	2m hose	BFT902000



FLOATING MALE TUBE NUT HOSES

Hoses	Code	Hoses	Code
0.25m hose	BFT250	4m hose	BFT4000
0.45m hose	BFT250	4.5m hose	BFT4500
0.55m hose	BFT550	5m hose	BFT5000
1.05m hose	BFT1050	5.5m hose	BFT5500
1.2m hose	BFT1200	6m hose	BFT6000
1.5m hose	BFT1500	6.5m hose	BFT6500
2m hose	BFT2000	7m hose	BFT7000
3.1m hose	BFT3100	7.5m hose	BFT7500
3.5m hose	BFT3500	8m hose	BFT8000



BRAKE SYSTEMS & PARTS



BRAKELINE HOSE KITS

- Easy Quick-fit
- Fully Stainless
- Strong Braided Hose

Trailparts new fast-to-fit banjo brakeline hose kits don't require any expertise or fancy tools to fit, and are stainless steel throughout so suitable for every job. They are designed to be a plug and play system, and really are the business, letting you – and your high paid staff – get on with running yours.

14MM SPANNER

ALL YOU NEED TO INSTALL BANJO BRAKE LINES

BRAKE SYSTEMS & PARTS

BANJO HOSE LENGTHS & ACCESSORIES

Hoses	Code	Hoses	Code
1.3m hose	BBB1300	3.5m hose	BBB3500
1.5m hose	BBB1500	3.85m hose	BBB3850
1.65m hose	BBB1650	4m hose	BBB7000
1.75m hose	BBB1750	4.5m hose	BBB4500
1.85m hose	BBB1850	5m hose	BBB5000
2m hose	BBB2000	5.5m hose	BBB5500
2.5m hose	BBB2500	6m hose	BBB6000
3m hose	BBB3000	7m hose	BBB7000
3.1m hose	BBB3100	8m hose	BBB8000
Accessories	Code	Accessories	Code
Single Banjo bolt 3/8"	B3183	P-clip with bolt	E7105
Double Banjo bolt 3/8"	B3183D	Grommet 4-5mm	Z6797
Copper washer	B3197		

FIXINGS MADE EASY

Banjo brake hoses have been designed to simplify the routing and fixing process. Our strong braided lines can be run along the chassis internally using the 4-5mm grommets for weather sealing, or externally using P-clips.

PRO TIP

Torque Banjo bolts to 27 ft/lb. We recommend an extra x2 washers on both double & single banjo bolts when used with non-Trailparts components.



BRAKE SYSTEMS & PARTS

BRAIDED HOSE

Banjo brake hoses are braided to ensure strength and reduce damage.

All hoses are ready to install regardless of whether its a single or double bolt with a universal banjo fitting each end.

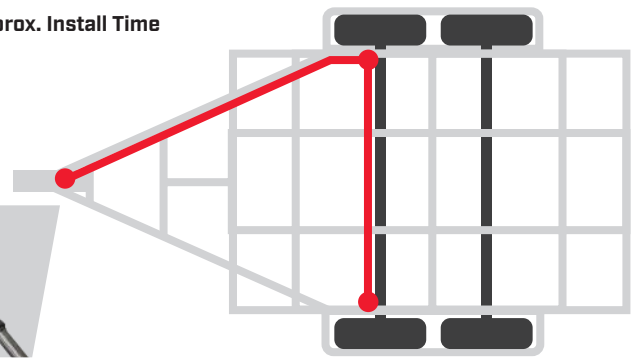


Single Braked Axle - Option 1

- x2 Banjo Banjo braided hose
- x2 Single Banjo bolt
- x1 Double Banjo bolt
- x7 Copper Washer



Approx. Install Time

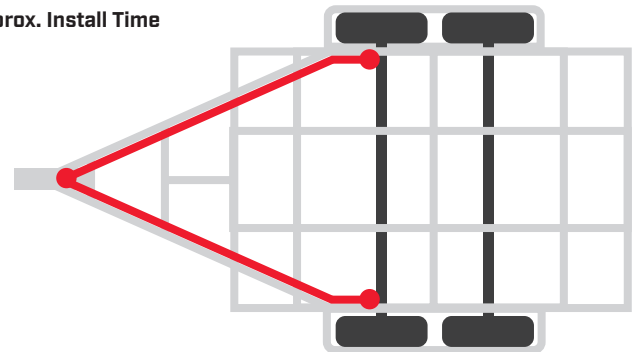


Single Braked Axle - Option 2

- x2 Banjo Banjo braided hose
- x2 Single Banjo bolt
- x1 Double Banjo bolt
- x7 Copper Washer



Approx. Install Time

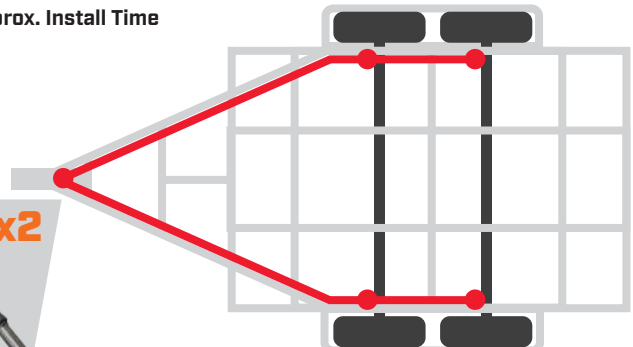


Tandem braked axles

- x4 Banjo Banjo braided hose
- x2 Single Banjo bolt
- x3 Double Banjo bolt
- x13 Copper Washer



Approx. Install Time



COUPLINGS

COUPLINGS



COUPLINGS



HEAVY DUTY COUPLINGS

These couplings are rated to 3500kg, and are referred to as electric couplings because they don't directly operate trailer brakes on their own. They are often used with trailer brakes however; both with actuator driven hydraulic brakes, and with controller driven electric brakes.

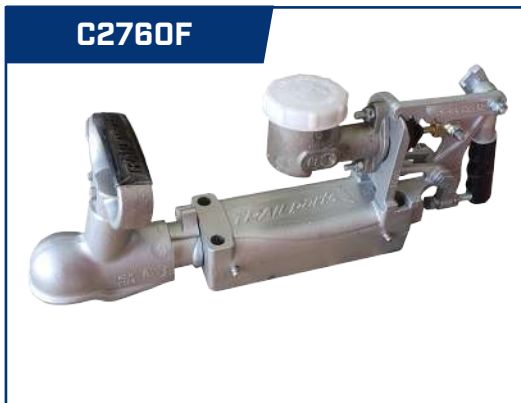
3500kg FIXED TYPE + HANDBRAKE



These couplings are an extremely strong and robust design, and are designed for use with A-frame drawbars. The handbrake lever incorporated into them can be used for cable parking brakes, a stipulation for trailers over 2000kg.

Code	Ball Size
C2795	50mm incl Handbrake

HYDRAULIC OVER-RIDE COUPLING

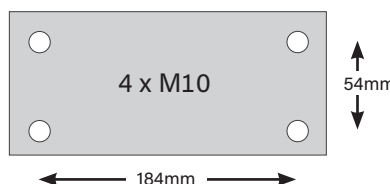


Trailparts™ single sized over ride couplings are a tried and proven design, and feature a 1040 steel shaft and zinc plated finish. With the Premium Backframe shown at left, the folding handle and Trailparts Master Cylinder overall height is lowered significantly, reducing the possibility of expensive tailgate repairs and trailer damage. **3500kg rated - Allows for trailers up to 2200kg ATM.**



Code	Description
C2760F	50mm Over-ride Coupling, Premium Backframe, 3/4" m. cyl.
C2760FA	50mm Over-ride Coupling, Premium Backframe, 3/4" m. cyl. + Autoback
C2762F	50mm Over-ride Coupling, Premium Backframe, 1" m. cyl.

COUPLING HOLE PATTERN





TRAILPARTS™ MASTER CYLINDER



The Trailparts™ master cylinder was designed with 3 key criteria - To lower the height; to enable incorporating a revised Autoback reversing solenoid at lower cost; and to use commonly available parts. The low height theme continues with the design of the output to the brakes, being designed to be used with low profile and strong banjo hoses and fittings to reduce the risk of brakeline damage. These master cylinders are now supplied as standard on all Trailparts™ braked couplings.

[See next page for more](#)

AUTOBACK REVERSING LOCKOUT FOR OVER-RIDE BRAKES



The Autoback reversing system makes it easy, quick, and safe when reversing loaded trailers that are fitted with hydraulic over ride brakes. This latest development makes Autoback an affordable option on all trailers, and also easily retro-fittable to existing braked trailers. Trailparts™ were the first to offer a reversing lock out brake system in Australia. Now compact and inexpensive, Autoback should be on the spec sheet of every new braked trailer! **See tables for codes of couplings including Autoback systems.**

[See next page for more](#)

HANDBRAKE LEVER + FOLDING HANDLE



This lever follows demands from customers for a handbrake lever with a fold down handle. This is achieved with a simple slotted handle mount which engages on a keyway, making it intuitive and easy to use. These are manufactured from high-strength 1045 steel, and are a significant step forward from other offerings available.

[See next page for more](#)



COUPLINGS

PREMIUM BACKFRAME

C28F34



The combination of these Trailparts™ Premium developed products deliver what every braked trailer user has been asking for: lower height. The lever is cast from high strength steel, and is simple and intuitive to use. The master cylinder was designed with 3 key criteria: To lower the height; to create the vehicle for incorporating a revised Autoback reversing solenoid at lower cost; and to use commonly available parts – with all 3 having been achieved. In particular, the reversing solenoid for over-ride braked trailers, has become an affordable and desirable addition to every trailer braked this way.

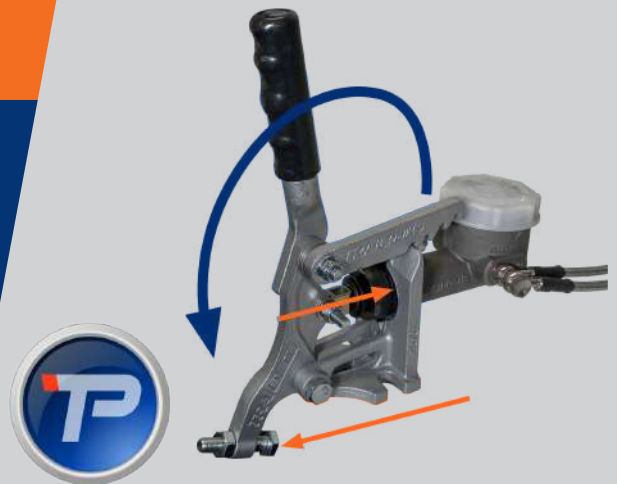


Code	Description
C28F	Premium backframe & folding lever only, zinc plated
C28F34	Premium backframe incl. 3/4" Master Cylinder, zinc plated
C28F34A	Premium backframe incl. 3/4" Master Cylinder + Autoback, zinc plated
C28F1	Premium backframe incl. 1" Master Cylinder, zinc plated
C28F1A	Premium backframe incl. 1" Master Cylinder + Autoback, zinc plated

NEW INNOVATION

Quick-Release Flipper Spring

When the trailers brakes are engaged the spring flicks up the lever off the backframe.



C28FQR



We've come up with this ingenious hack to ensure you never get burnt out brakes again. If the park brake is left engaged, the flipper spring will ensure it is released at the first brake actuation – usually as the trailer leaves the yard just a few metres away.

Comes with Trailparts Backframes with folding handles.

Code
C28FQR



Scan for video

SUSPENSION

SUSPENSION



SUSPENSION

ROCKER / ROLLER SUSPENSION

The Trailparts Rocker/Roller springs are very similar to 'traditional' automotive leaf springs. The front leading end of the spring is coiled into an eye with an internal bush, while the rear of the spring is coiled with an elongated eye allowing it to move back and forth over a steel bush. The roller allows for quick operation when travelling over minor road bumps and/or potholes.

Minimum pivot points ensures a prolonged, low maintenance suspension life and, this, along with the cast centre-rocker arm, gives an effective and high-strength tandem/tri suspension solution. Available with centre mount springs to allow larger diameter wheels to be used, such as 15" - 16".

Spring leaves are 60mm wide x 7mm thick.

Centre vs Off-Centre

Centre

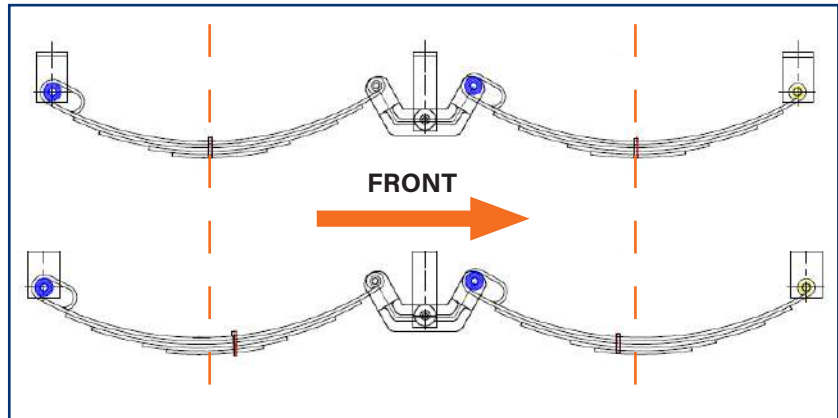
Spring mount pins are located in the centre of leaf.

Suits 15" - 16" rims.

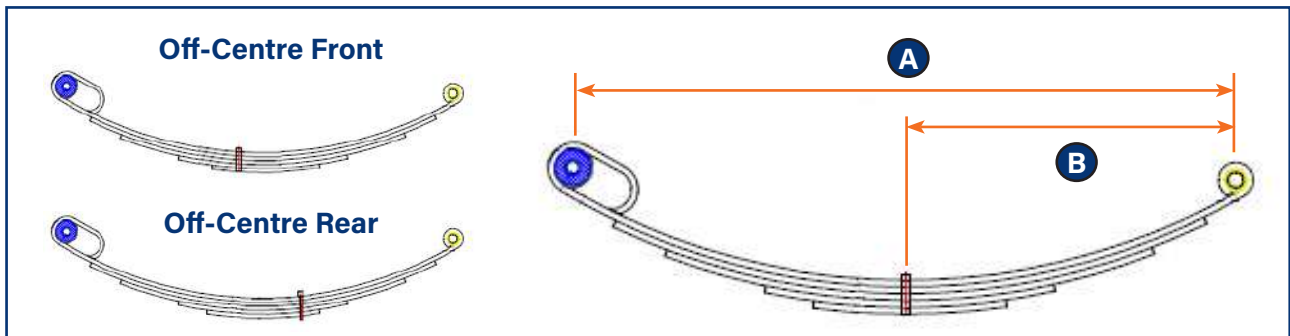
Off-Centre

Spring mounts are offset reducing axle spacing. Front spring mount pin is offset slightly back, the Rear spring mount pin is offset slightly forward.

Suits 13 - 14" rims.

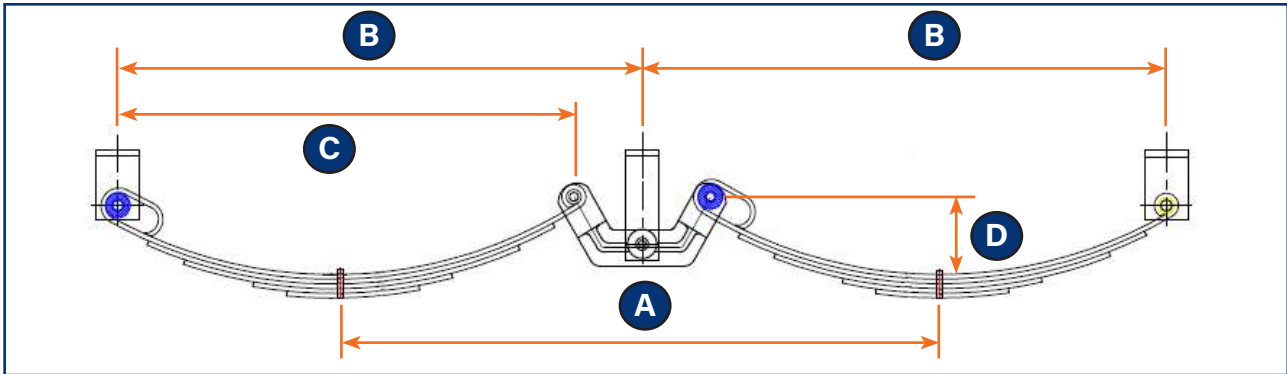


EYE/ROLLER SPRINGS - INDIVIDUAL



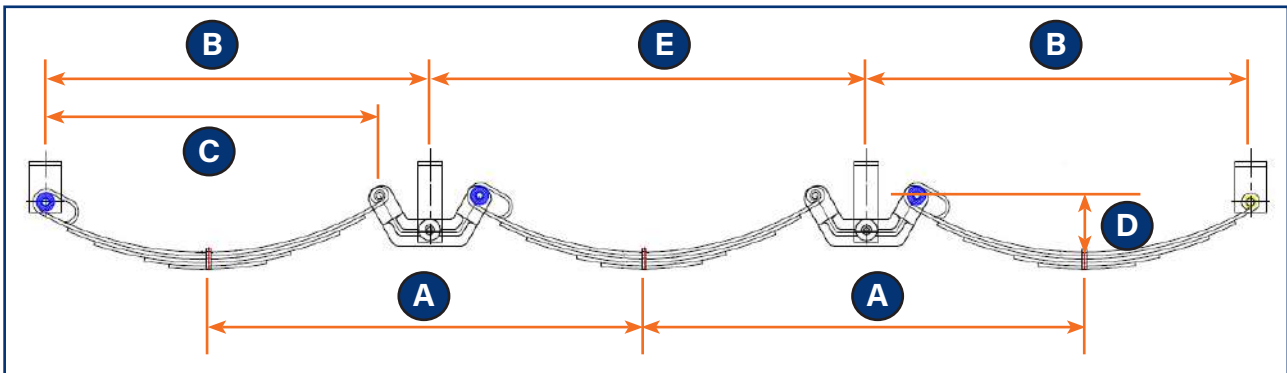
Spring	Mount	Position	A	B	Leaves
S3336C	Centre	N/A	687mm	343mm	6
S3336F	Off-Centre	Front	687mm	396mm	6
S3336R	Off-Centre	Rear	687mm	291mm	6
S3337C	Centre	N/A	687mm	343mm	7
S3337F	Off-Centre	Front	687mm	396mm	7
S3337R	Off-Centre	Rear	687mm	291mm	7
S3338C	Centre	N/A	687mm	343mm	8
S3338F	Off-Centre	Front	687mm	396mm	8
S3338R	Off-Centre	Rear	687mm	291mm	8
S3339C	Centre	N/A	687mm	343mm	9
S3339F	Off-Centre	Front	687mm	396mm	9
S3339R	Off-Centre	Rear	687mm	291mm	9

TANDEM SUSPENSION KITS



Spring Set	Mount	A	B	C	D	Capacity	Leaves
S3836	Off-Centre	785mm	787mm	687mm	117mm	3000kg	6
S3837	Off-Centre	785mm	787mm	687mm	117mm	3500kg	7
S3838	Off-Centre	785mm	787mm	687mm	117mm	4000kg	8
S3839	Off-Centre	785mm	787mm	687mm	117mm	4500kg	9
S3846	Centre	888mm	787mm	687mm	117mm	3000kg	6
S3847	Centre	888mm	787mm	687mm	117mm	3500kg	7
S3848	Centre	888mm	787mm	687mm	117mm	4000kg	8
S3849	Centre	888mm	787mm	687mm	117mm	4500kg	9

TRI-AXLE SUSPENSION KITS



Spring Set	Mount	A	B	C	D	E	Capacity	Leaves
S3846T	Centre	888mm	787mm	687mm	117mm	887mm	4500kg	6
S3847T	Centre	888mm	787mm	687mm	117mm	887mm	5250kg	7
S3848T	Centre	888mm	787mm	687mm	117mm	887mm	6000kg	8
S3849T	Centre	888mm	787mm	687mm	117mm	887mm	6750kg	9



SUSPENSION

SUSPENSION HARDWARE KITS

Eye/roller hardware kits contain all the necessary parts to install your equalizing suspension including hangers, rockers, greased nuts, and bushes.

U-bolt kits have all the parts required to mount a single axle including mount plate. *(not included in Suspension Hardware Kits)*



Code	Discription	Thread	Spring Leaf
S3690S	Single axle hardware kit	N/A	N/A
S3690	Tandem axle hardware kit	N/A	N/A
S3690T	Tri-axle axle hardware kit	N/A	N/A
SUBK150X52X58	U-Bolt kit - Suit 50mm axle	5/8"	7-9
SUBK180X67X58	U-Bolt kit - Suit 65mm axle	5/8"	7-9

SPARE PARTS



Centre Rocker Bolt
3/4"x 85mm Bolt, Nut & Greaser.



Roller Bolt
5/8"x 100mm Bolt, Nut & Greaser.



Eye Bolt
5/8"x 100mm Bolt, Nut. *No Greaser*



Centre Hanger



Hanger



Rocker Arm



Roller Bush



Eye Bush
60 x 16mmØ Plastic Eye Bush

IMPROVED | STRONGER | SAFER

INTRODUCING THE NEW V-SERIES

Sideways load kills more jockey wheels than anything else! And nobody knows this better than trailer hire companies and users of heavy trailers, who suffer frequent jockey wheel breakages in this way.

Based on feedback from some of the biggest trailer hire companies in Australia, Trailparts V-Series jockey wheels better withstand sideways load, improving user safety and service life.



Heavy-Duty Handle & Screw

V-series jockey wheels all use a 20% heavier duty winding screw than in standard models. And atop that is a compact foldaway heavy duty handle with a 16mm shaft.

Unique & Improved Swivel Mechanism

The Trailparts V-series swivel bracket has a two-point engagement mechanism that resists sideways load. Further improvements are the swivel pin – which remains static in the bracket during swiveling (no more caught fingers) – and the short distance between the two parts of the swivel bracket (no more bent pins).

New High Load Galvanized Wheel

A newly developed high-load solid galvanized rim with nylon rubber tread. The 200 x 50mm rubber tyre is designed so that it won't slip on the rim under heavy load or skid on stones on concrete; and the intergrated rim bearing on tube sleeve means it is easier to push on soft and uneven surfaces.

8" JOCKEY WHEEL V-PIN

JZV8H



- 200mmØ x 50mm Galvanized/Nylon Wheel
- Zinc plated finish.
- Foldaway heavy duty handle with 16mm shaft.
- Two point engagement mechanism that resists sideways loads.
- 280 kg load capacity
- 250 mm height adjustment
- 400mm from ground to centre of swivel bracket
- 600mm overall closed height
- U-bolt on





APPENDIX

AXLE ORDER FORM



Business Name:

Contact Name:

Order Number (If applicable):

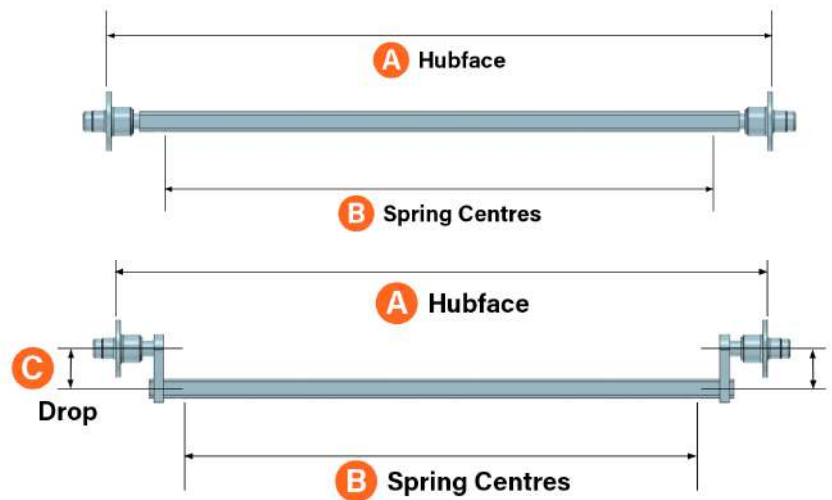
Phone Number:

Email Address:

Axle type

1. Straight

2. Dropper Axle



Specifications

Overall Hub-face (A):

Spring Centre (B):

Dropper Height (C): 45mm 65mm
 100mm

Chassis Width (Outside to outside in mm):

Note: This is the Chassis width not body



Pre-Galvanised

Hot Dip Galvanised Bare Steel

Box Section Size: 50x50mm 65x65mm

Axle Location: Under Spring (closer to road)

Over Spring (closer to chassis)

Stud Pattern: 5 x 4½" 5 x 150mm

6 x 5½"

Axle Capacity: 1500kg 1800kg

(Per Axle) 2500kg 3000kg

Bearing Type: UNIHUB Taper

Quantity of Axles: Non-Braked

Electric Drum

Hydraulic Drum

Hydraulic Disc

Mechanical Disc

Wheel Specs:

*Trailparts do not supply wheels.

Offset

*Offset and tyre size must be supplied.

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Signature: Date:

Trailparts Pty Ltd, 33/35 Foden Ave, Campbellfield, Victoria, 3061

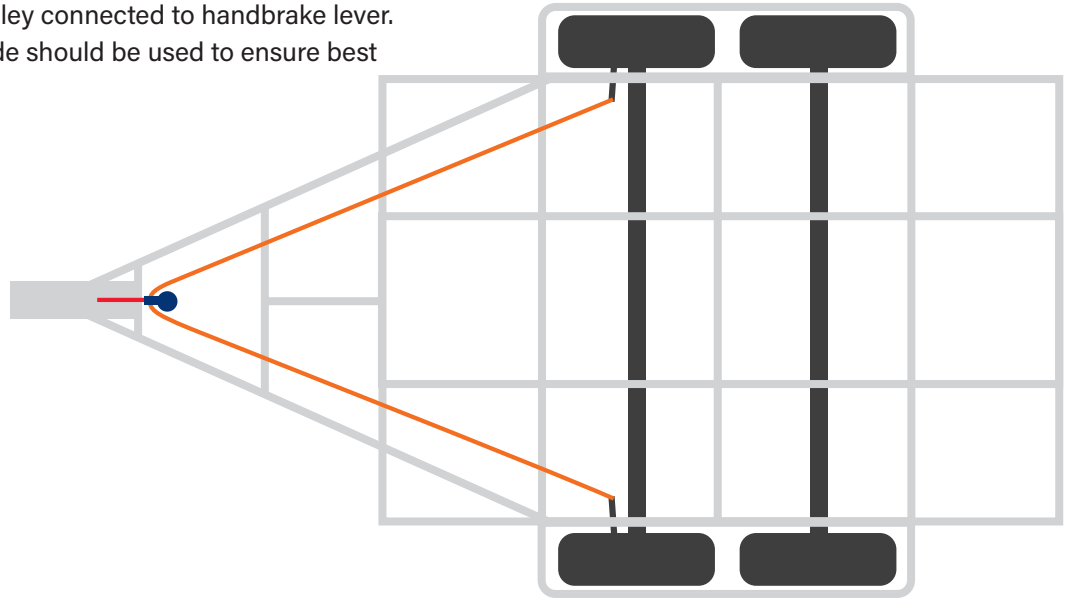
PH 1300 538 598 | sales@trailparts.com.au | www.trailparts.com.au

APPENDIX

HANDBRAKE DIAGRAMS

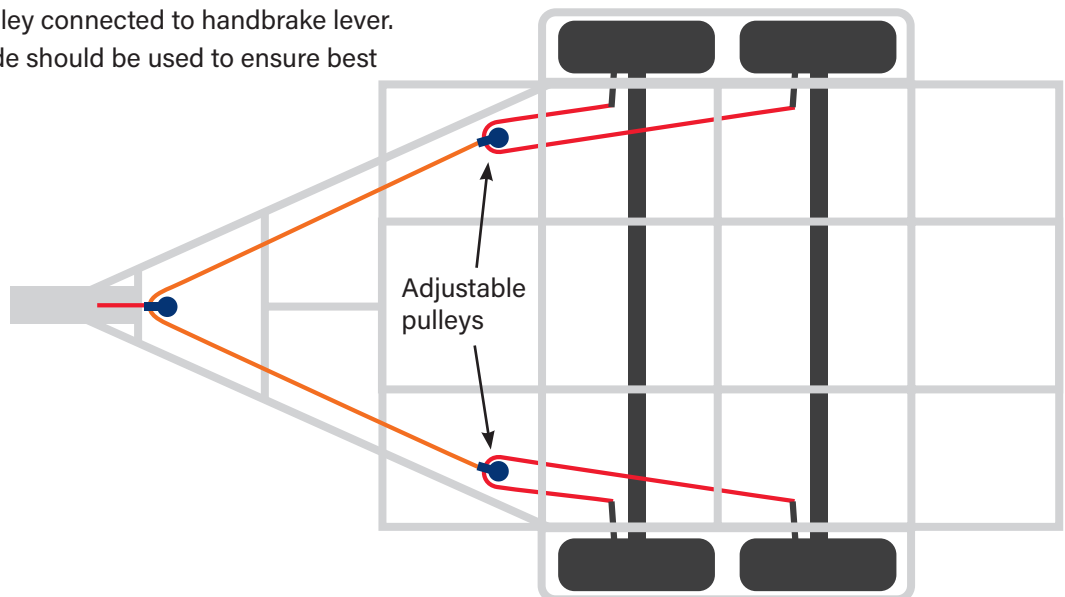
B312610 - Handbrake on Front axle only

- Calipers mounted on front of axle with forward pull lever.
- Adjustable pulley connected to handbrake lever.
- Wire rope guide should be used to ensure best performance.



B312710 - Handbrake on both axles

- Calipers mounted on front of axles with forward pull lever.
- Adjustable pulley connected to handbrake lever.
- Wire rope guide should be used to ensure best performance.





www.trailparts.com.au