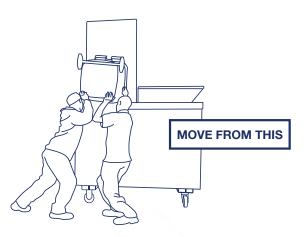




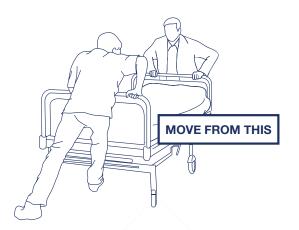
MOBILITY SOLUTIONS TO HELP YOU PUSH, PULL & LIFT WITH EASE



We can help you



















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Mobility solutions to help you push, pull and lift with ease

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Fallshaw Wheels and castors

Proudly celebrating 100 years of manufacturing in Australia.

Spanning three generations of family, Fallshaw is an Australian manufacturing business who have proudly been designing and manufacturing high-quality wheels and castors in Australia for 100 years.

We design our castors to steer true, give a smooth ride, require minimal push effort, and have brakes that work every time.

From castors for your office tables, to medical equipment, and all the way to heavy industrial applications, we make castors for a wide variety of load ratings, features, mount options and styles that seamlessly integrate with your furniture or equipment, across all industries.

Our design philosophy is simple: We make castors that you can forget about! You won't have to worry about our castors, as they will perform every time. We back that up with a three year warranty on our Aussie-made wheels and castors.



Choosing the right castor or wheel

Choose the range based on what you are using it for and how much load it will carry

Light to medium duty

Load rating: 25-200 kg

(L, Twin, N, K, M and Big M)

Suitable for applications including:

- Trolleys and carts.
- Shop fittings and displays.
- Mobile storage.

General duty to heavy duty

Load rating: 200-600 kg

(J, Y O and H Series)

Suitable for applications including:

- Linen carts.
- Work platforms.
- Roll cages.
- Stock trolleys.

Very heavy duty

Load rating: 500-3500 kg

(W, X, V and A Series)

Suitable for applications including:

- Stock trolleys for automotive plants.
- Shipping containers.
- Multi-purpose industrial trolleys.

Medical

Load rating: 100-150 kg

(Trinity and Trinity EBC, Central locking, Wheelchair)

Medical equipment, hospital beds and other applications that need an automatic or accessible brake.

- Recliner chairs.
- Mobile computer tables.



2 Choose a wheel based on the floor surface it will be travelling on

Outdoors and rough ground

Bouncy, elastic tyres help get over bumps. That's why wheelbarrows and other applications that involve rough ground use pneumatic or rubber tyres.



Soft and smooth floors

Hard wheels have high load bearing capacity and reduce push effort on carpet and soft surfaces, but are very noisy on tiles and other hard surfaces and can also leave indentations on wooden floors.



Variable floor surfaces

Road cases are a classic example of tyres that need to adapt to a wide range of floor surfaces. When bands are on the move, their equipment needs to travel over bitumen, carpet, lino, wood and over curbs and stairs. These wheels go everywhere!



Specialised applications

Some applications have specific requirements, and we have a wide range of wheels to suit, including high and low temperature, wheelie bin wheels, central locking castors, antistatic wheels and many, many more!



Q Choose the wheel's diameter

The larger the wheel, the easier to push and the better the ride comfort (ability to pass over bumps and to minimize vibration).

Why? The larger the wheel, the smaller obstacles are in proportion to the wheel's diameter, resulting in greater momentum.

DIRECTION OF TRAVEL



Wheel diameter should be maximised, bearing in mind that:

- As a rule of safety, mobile equipment should have a maximum height of 1400 mm (including the goods being carried) to enable a clear line of sight.
- Small wheels are sometimes used to reduce the centre of gravity to address tip hazards due to top-heavy loads.

Choose the bearing type

Precision industrial ball bearing

Used in applications where heat can build up due to friction caused by constant movement and/or higher speeds—all towing applications use precision bearings (as the high tolerance and hardened steel used in the sealed and greased bearings reduces heat build-up that can cause weakening of the wheel). Precision industrial ball bearings offer the lowest friction and therefore the lowest push effort—they are also the most expensive type of bearing in our range.



Total brake

Direction lock



brake

Deep groove cone ball bearing

Deep groove cone bearings are used in our outdoor, all-terrain wheels (such as pneumatics). They are designed to withstand rough, bumpy ground in applications where the direction of the load is both lateral and vertical (like wheelbarrows on construction sites).



Roller bearing

Used in high impact applications (the large surface area of the bearing spreads load and therefore protects against high impact). Not suitable for high speed (more than 6 km/h).

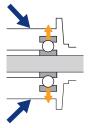


Plain bush (or bore)

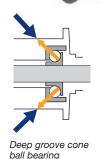
Used in corrosive environments (polymer bearings won't rust). Also used to reduce cost (the cheapest kind of 'basic' bush).







Precision industrial ball bearing



Choose the type of brake and castor configuration





No brake





Castor configuration options

Traditional











World's best practice



Trinity EBC with intuitive steer, automatically apply the steering device in the right direction, with the use of a motion sensor.



Trinity complete brake (CB) castors have a 3-in-1 brake that includes a direction lock option to steer from either end.

DIRECTION OF TRAVEL

Choose fittings

Bolt hole

Suitable for installing into tubular legs. We have a full range of expanding adaptors, pintle bolts, threaded tube ends, grip neck and friction stems and solid pintles, all designed to work seamlessly with any bolt hole castor.



Washer mount (for bolt hole)

Suitable for mounting bolt hole castors into equipment that do not have tubular leas.



Plate mount

Suitable for mounting onto equipment that have smooth flat surfaces, such as sheet metal or wood.



More information on fitting options can be found on pages 68-69.

Castor code structure

Wheel style	Tyre material	Bearing	Size (mm)	Extras	Fork series	Fork finish	Mount option	Brake option	Colourway/ Castor finish
Light duty L N Medium duty K M (C/Q/S)* General duty Y J Heavy duty O H Very heavy duty W X V A Medical and specialised F C S * M, Central Locking and Supermarket series have multiple wheel styles of the same tyre material, so the wheel series have multiple designators to differentiate styles.	Soft tyres S Grey rubber (flat profile) T Grey rubber (round profile) J Thermoplastic elastomer (TPE) B Blue high resilience rubber R Black rubber F Foamed microcellular Hard tyres N Nylon U Polyurethane V PVC C Cast iron X High impact polymer Specialised A Conductive TPE H High temp nylon K High temp phenolic	Precision industrial ball bearings Q Mild steel C Stainless steel Deep groove cone ball bearings B Mild steel Roller bearings R Mild steel S Stainless steel Plain bush (or bore) A Inserted PBT bush N Nylon bore I Cast iron bore H High temp nylon bore P Polypropylene bore T High temp phenolic bore	40 50 65 75 100 125 150 175 200 220 250 265 400	G Thread guard W White nylon S Stainless steel axle bush GT Hub cap on twin wheel	Light duty L N Medium duty K M General duty Y J Heavy duty O H Very heavy duty W X V A Medical and specialised F C S	Z Zinc plated Core Coat ™ (with lacquer) S Stainless steel P Powder-coated C Chrome N Nylon K Nickel	Plates P Swivel plate (ISO) PN Swivel plate (North American) F Fixed plate (ISO) FN Fixed plate (North American) Bolt hole H Swivel bolt hole Stems/pintles L Long pintle S Short pintle B 12 mm pintle GN Grip neck pintle J Friction stem	Core range TB Total brake (locks castor swivelling and wheel rotation) DL Direction lock (locks castor swivelling, but wheel can still rotate) BR Wheel brake only Specialised SA Self-aligning AGV kit on swivel fork TBSA Self-aligning AGV kit on TB fork Medical CB Complete brake (3 position brake including swivel, TB and DL)* * Trinity Castors and Trinity Electronic Braking Castors have a more detailed code structure, described on page 39.	L. Low one
J	В	R	125	G	/ J	Z	P	ТВ	

Castor = wheel / fork **EXAMPLE: JBR125G/JZPTB** Note: The following castor series have a different code structure:

- Twin Wheel castors (see page 11).
 Y series castors (see page 18).
 Trinity Castors and Trinity Electronic Braking Castors (see page 39).



General castors

Light to medium duty castors

 L Series, Twin Series, N Series, K Series, M Series and Big M Series.

General to heavy duty castors

Y Series, J Series, O Series and H Series.

Very heavy duty castors

W Series, X Series, V Series and A Series.

L Series 30 kg



Features

- Thermoplastic elastomer (TPE) or hard nylon wheels.
- Nickel coated forks.
- Suitable for furniture and light duty trolleys.
- Bolt hole pintle sold separately (see page 68).
- Bolt hole castors supplied with axle bolt and nut. (Plate mounts are riveted.)



Wheels



LJP TPE, plain bearing



LNN Hard nylon, plain bearing

Forks







LKPBR Plate with swivel and wheel brake



LKFFixed plate,
no swivel

LKH

Bolt hole
swivel



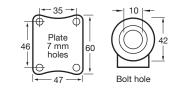
LKHBR Bolt hole swivel and wheel brake

Specifications

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)
LJP50	30	50 x 20	25 × 6
LNN50	30	50 x 20	25 x 6

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
LKP/LKH/LKF*	50	65	47
LKPBR	50	65	60
LKHBR	50	65	67

Castor mount options (mm)



Order codes

Wheel	Castor
LJP50	LJP50/LKP
	LJP50/LKPBR
	LJP50/LKF
	LJP50/LKH
	LJP50/LKHBR
LNN50	LNN50/LKP
	LNN50/LKPBR
	LNN50/LKF
	LNN50/LKH
	LNN50/LKHBR

Grip neck pintle

Order code



For L series, M10 grip-neck pintles are supplied loose to be retro-fitted. Pintle size: 8 mm OD x 39 mm long (see page 68).

SP-GN

^{*} LKF-fixed plate has no turning radius.

Twin Series 40 kg



Features

- Twin wheel plastic castors with or without wheel brake.
- Suitable for office chairs and light domestic furniture such as laundry baskets.

Castors



TW50P Plate with swivel



TW5038BR Threaded 3/8" BSW pintle with wheel brake



TW50PBR Plate with swivel and wheel brake

TW5038

Threaded 3/8"

BSW pintle

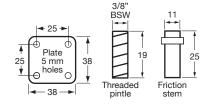


TW50CJ Friction stem (Suits most standard office chairs)

Order codes and specifications

Castor code	Diameter (mm)	Height (mm)	Turning radius (mm)	Max load (kg)
TW50P	50	61	46	40
TW50PBR	50	61	60	40
TW5038	50	61	46	40
TW5038BR	50	61	60	40
TW50CJ	50	61	46	40

Castor mount options (mm)



N Series 90 kg



Features

- White nylon wheels in zinc plated forks, Chicago screw axles, with or without wheel brake.
- Ultra-low mount height for heavy furniture and refrigerators. Please note: Wheels are not available for separate purchase.

Castors



NNN40/NZP Plate with swivel



NNN40/NZPBR Plate with swivel and wheel brake

Order codes and specifications

Castor code	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Mount height (mm)	Turning radius (mm)
NNN40/NZP	90	40 × 44	53 x 6	62	40
NNN40/NZPBR	90	40 x 44	53 x 6	62	71

Castor mount (mm)



K Series 50-100 kg



Features

- Thermoplastic elastomer (TPE), grey rubber, hard nylon or polyurethane (PU) wheels.
- Swivel, fixed plate and bolt hole zinc plated Core Coat[™] forks with or without total brake. Core Coat[™] lacquer provides best quality corrosion protection, with no white or red rust after 150 hours of salt spray testing.
- Available with Chicago screw axles and alternate colourways.
- Made in Australia.

Wheels



TPE, precision

bearing, thread

guard



Grey rubber,

plain bearing,

optional thread guard¹



KNN

Hard nylon,

plain bearing



KUQ*

PU, precision bearing, optional thread guard¹

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
KJQ65G	50	65 x 23	30 x 8	8
KJQ75G	50	75 x 23	30 x 8	8
KJQ100G	50	100 x 23	30 x 8	8
KSA65	50	65 x 23	30 x 8	12
KSA75	50	75 x 23	30 x 8	12
KSA100	50	100 x 23	30 x 8	12
KNN65	50	65 x 23	30 x 8	12
KNN75	65	75 x 23	30 x 8	12
KNN100	70	100 x 23	30 x 8	12
KUQ75	100	75 x 23	30 x 8	8
KUQ100	100	100 x 23	30 x 8	8

^{*} Wheels also available with plain bearings—KJA, KUA. Note that plain bearing bore is 12 mm.

Forks











KZPPlate with swivel

KZPTBPlate with swivel and total brake

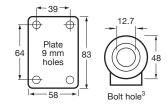
Fixed plate, no swivel

KZH Bolt hole swivel

KZHTBBolt hole swivel and total brake

Fork	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
KZP/KZH/KZF ²	65	96	63
	75	104	69
	100	131	82
KZPTB/KZHTB	65	96	89
	75	104	89
	100	131	89

Fork mounts



² KZF—fixed plate has no turning radius.

¹ For optional thread guards, add **G** to the end of wheel code.

³ Bushes available to reduce bolt hole in round swivel race castors to 8 and 10 mm (see page 69). Grip-neck pintles also available (see page 68).

Colourway and axle options

Colourways







Red Example: KJQ65G/KZPTB**R**



Grey Add R to castor code Add G to castor code Example: KJQ65G/KZPTB**G**

Chicago screw axle (optional)



To upgrade to a Chicago screw axle, add **C** to the end of castor code (after any colourway options)

Example: KJQ65G/KZPTBR**C**

KJQ65G K65ZP KJQ65G/KZP K65ZPTB KJQ65G/KZPTB K65ZF KJQ65G/KZF K65ZH KJQ65G/KZH K65ZHTB KJQ65G/KZHTB KJQ75G K75ZP KJQ75G/KZP K75ZPTB KJQ75G/KZPTB K75ZH KJQ75G/KZH K75ZH KJQ75G/KZH K75ZHTB KJQ75G/KZHTB KJQ100G/KZP KJQ100G/KZP K100ZP KJQ100G/KZPTB K100ZF KJQ100G/KZPTB K100ZH KJQ100G/KZHTB KSA65 K65ZP KSA65/KZP K65ZPTB KSA65/KZPTB K65ZPTB KSA65/KZPTB K65ZHTB KSA65/KZPTB K65ZHTB KSA65/KZPTB K65ZHTB KSA65/KZPTB K5A75/KZP K75ZP K75ZPTB KSA75/KZPTB K75ZH KSA75/KZPTB K75ZH KSA75/KZPTB K75ZH KSA75/KZPTB K75ZH KSA75/KZPTB K75ZH KSA75/KZPTB K75ZH<	Wheel	Fork	Castor
K65ZF KJQ65G/KZF K65ZH KJQ65G/KZH K65ZHTB KJQ65G/KZHTB KJQ75G K75ZP KJQ75G/KZP K75ZPTB KJQ75G/KZF K75ZH KJQ75G/KZH K75ZHTB KJQ75G/KZHTB KJQ100G K100ZP KJQ100G/KZP K100ZPTB KJQ100G/KZPTB K100ZH KJQ100G/KZHTB K100ZHTB KJQ100G/KZHTB KSA65 K65ZP KSA65/KZP K65ZPTB KSA65/KZPTB K65ZP KSA65/KZPTB K65ZHTB KSA65/KZHTB KSA75/KZP KSA75/KZP K75ZPTB KSA75/KZP K75ZPTB KSA75/KZPTB K75ZPTB KSA75/KZPTB K75ZPTB KSA75/KZPTB K75ZHTB KSA75/KZPTB KSA100/KZP K100ZP K100ZP KSA100/KZP K100ZP KSA100/KZP K100ZH KSA100/KZH	KJQ65G	K65ZP	KJQ65G/KZP
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K75ZH		K75ZPTB	KJQ75G/KZPTB
K75ZHTB		K75ZF	KJQ75G/KZF
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K100ZF	KJQ100G	K100ZP	KJQ100G/KZP
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K75ZH KSA75/KZH K75ZHTB KSA75/KZHTB KSA100 K100ZP KSA100/KZP K100ZPTB KSA100/KZPTB K100ZF KSA100/KZF K100ZH KSA100/KZH		K75ZPTB	KSA75/KZPTB
K75ZHTB KSA75/KZHTB KSA100 K100ZP KSA100/KZP K100ZPTB KSA100/KZPTB K100ZF KSA100/KZF K100ZH KSA100/KZH		K75ZF	KSA75/KZF
KSA100 K100ZP KSA100/KZP K100ZPTB KSA100/KZPTB K100ZF KSA100/KZF K100ZH KSA100/KZH		K75ZH	KSA75/KZH
K100ZPTB KSA100/KZPTB K100ZF KSA100/KZF K100ZH KSA100/KZH		K75ZHTB	KSA75/KZHTB
K100ZF KSA100/KZF K100ZH KSA100/KZH	KSA100	K100ZP	KSA100/KZP
K100ZH KSA100/KZH		K100ZPTB	KSA100/KZPTB
		K100ZF	KSA100/KZF
K100ZHTB KSA100/KZHTB		K100ZH	KSA100/KZH
		K100ZHTB	KSA100/KZHTB

Wheel	Fork	Castor
KNN65	K65ZP	KNN65/KZP
	K65ZPTB	KNN65/KZPTB
	K65ZF	KNN65/KZF
	K65ZH	KNN65/KZH
	K65ZHTB	KNN65/KZHTB
KNN75	K75ZP	KNN75/KZP
	K75ZPTB	KNN75/KZPTB
	K75ZF	KNN75/KZF
	K75ZH	KNN75/KZH
	K75ZHTB	KNN75/KZHTB
KNN100	K100ZP	KNN100/KZP
	K100ZPTB	KNN100/KZPTB
	K100ZF	KNN100/KZF
	K100ZH	KNN100/KZH
	K100ZHTB	KNN100/KZHTB
KUQ75	K75ZP	KUQ75/KZP
	K75ZPTB	KUQ75/KZPTB
	K75ZF	KUQ75/KZF
	K75ZH	KUQ75/KZH
	K75ZHTB	KUQ75/KZHTB
KUQ100	K100ZP	KUQ100/KZP
	K100ZPTB	KUQ100/KZPTB
	K100ZF	KUQ100/KZF
	K100ZH	KUQ100/KZH
	K100ZHTB	KUQ100/KZHTB

M Series 85-200 kg



Features

- Thermoplastic elastomer (TPE), blue high resilience (hi-res) rubber, grey rubber, polyurethane (PU) or hard nylon wheels.
- Swivel, fixed plate and bolt hole zinc plated Core CoatTM forks with or without total brake or direction lock. Core CoatTM lacquer provides best quality corrosion protection, with no white or red rust after 150 hours of salt spray testing.
- Available with Chicago screw axles and alternate colourways.
- Made in Australia.

Wheels



MJQ*
TPE, precision bearing, thread guard



Grey rubber, round profile, precision bearing, thread guard



MSQ¹
Grey rubber, flat profile, precision bearing, thread guard



CBQ
Blue hi-res
rubber,
precision
bearing,
thread guard



MBQ Blue hires rubber, precision bearing, thread guard



MNN²
Hard nylon, plain bearing precision bearing



PU, precision bearing, thread guard

Forks



MZPPlate with swivel



MZPTBPlate with swivel and total brake



MZPDL MZF
Plate with swivel and direction lock no swivel



Bol



MZHBolt hole swivel



MZHTBBolt hole swivel and total brake



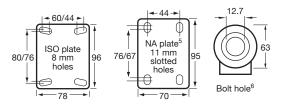
MZHDL
Bolt hole swivel
and direction lock

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
MJQ75G	85	75 x 32	40 x 8	8
MJQ100G	85	100 x 32	40 x 8	8
MJQ125G	85	125 x 32	40 x 8	8
STQ75G	100	75 x 32	40 x 8	8
STQ100G	100	100 x 32	40 x 8	8
STQ125G	100	125 x 32	40 x 8	8
MSQ100G	140	100 x 34	40 x 8	8
MSQ125G	150	125 x 34	40 x 8	8
CBQ75G	85	75 x 33	40 x 8	8
CBQ100G	100	100 x 33	40 x 8	8
CBQ125G	100	125 x 33	40 x 8	8

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
MBQ100G	140	100 x 36	40 x 8	8
MBQ125G	150	125 x 36	40 x 8	8
MNN75	150	75 x 32	40 x 8	12
MNN100	150	100 x 32	40 x 8	12
MNN125	150	125 x 32	40 x 8	12
DNQ100 ³	200	100 x 32	40 x 8	8
DNQ125	200	125 x 32	40 x 8	8
QUQ75G	200	75 x 32	40 x 8	8
QUQ100G	200	100 x 32	40 x 8	8
QUQ125G	200	125 x 32	40 x 8	8

Fork	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
MZP/MZH/MZF ⁴	75	106	71
	100	135	91
	125	161	103
MZPTB/MZPDL/	75	106	118
MZHTB/ MZHDL	100	135	128
	125	161	128

Fork mounts



Colourway and axle options

Colourway



Standard Default castor colourway



Black Example: CBQ75G/MZPTBB

CBQ75G/MZPTBB**C**





Add B to castor code Add G to castor code Example: CBQ75G/MZPTB**G**

Chicago screw axle (optional)



To upgrade to a Chicago screw axle, add **C** to the end of castor code (after any colourway options) Example:

Wheel	Fork	Castor
CBQ75G	M75ZP	CBQ75G/MZP
	M75ZPTB	CBQ75G/MZPTB
	M75ZPDL	CBQ75G/MZPDL
	M75ZF	CBQ75G/MZF
	M75ZH	CBQ75G/MZH
	M75ZHTB	CBQ75G/MZHTB
	M75ZHDL	CBQ75G/MZHDL
CBQ100G	M100ZP	CBQ100G/MZP
	M100ZPTB	CBQ100G/MZPTB
	M100ZPDL	CBQ100G/MZPDL
	M100ZF	CBQ100G/MZF
	M100ZH	CBQ100G/MZH
	M100ZHTB	CBQ100G/MZHTB
	M100ZHDL	CBQ100G/MZHDL
CBQ125G	M125ZP	CBQ125G/MZP
	M125ZPTB	CBQ125G/MZPTB
	M125ZPDL	CBQ125G/MZPDL
	M125ZF	CBQ125G/MZF
	M125ZH	CBQ125G/MZH
	M125ZHTB	CBQ125G/MZHTB
	M125ZHDL	CBQ125G/MZHDL
DNQ125	M125ZP	DNQ125/MZP
	M125ZPTB	DNQ125/MZPTB
	M125ZPDL	DNQ125/MZPDL
	M125ZF	DNQ125/MZF
	M125ZH	DNQ125/MZH
	M125ZHTB	DNQ125/MZHTB
	M125ZHDL	DNQ125/MZHDL
MBQ100G	M100ZP	MBQ100G/MZP
	M100ZPTB	MBQ100G/MZPTB
	M100ZPDL	MBQ100G/MZPDL
	M100ZF	MBQ100G/MZF
	M100ZH	MBQ100G/MZH
	M100ZHTB	MBQ100G/MZHTB
	M100ZHDL	MBQ100G/MZHDL

Wheel	Fork	Castor
MBQ125G	M125ZP	MBQ125G/MZP
	M125ZPTB	MBQ125G/MZPTB
	M125ZPDL	MBQ125G/MZPDL
	M125ZF	MBQ125G/MZF
	M125ZH	MBQ125G/MZH
	M125ZHTB	MBQ125G/MZHTB
	M125ZHDL	MBQ125G/MZHDL
MJQ75G	M75ZP	MJQ75G/MZP
	M75ZPTB	MJQ75G/MZPTB
	M75ZPDL	MJQ75G/MZPDL
	M75ZF	MJQ75G/MZF
	M75ZH	MJQ75G/MZH
	M75ZHTB	MJQ75G/MZHTB
	M75ZHDL	MJQ75G/MZHDL
MJQ100G	M100ZP	MJQ100G/MZP
	M100ZPTB	MJQ100G/MZPTB
	M100ZPDL	MJQ100G/MZPDL
	M100ZF	MJQ100G/MZF
	M100ZH	MJQ100G/MZH
	M100ZHTB	MJQ100G/MZHTB
	M100ZHDL	MJQ100G/MZHDL
MJQ125G	M125ZP	MJQ125G/MZP
	M125ZPTB	MJQ125G/MZPTB
	M125ZPDL	MJQ125G/MZPDL
	M125ZF	MJQ125G/MZF
	M125ZH	MJQ125G/MZH
	M125ZHTB	MJQ125G/MZHTB
	M125ZHDL	MJQ125G/MZHDL

- * MJQ also available in conductive—MAQ, or plain bearing—MJA.
 ¹ Wheels also available with plain bearing—MSA, QUA.
 ² MNN also available in white—MNN...W.
 ³ DNQ also available in white—DNQ125W. DNQ100 and DNQ100W are made to order.
- **AMZF—fixed plate has no turning radius.

 5 North American plate. Add **N** to the end of fork code to purchase (eg. CBQ75G/MZP**N**TB).

 6 Bushes available to reduce bolt hole to 8 and 10 mm (see page 69).
- Grip-neck pintles also available (see page 68).

Wheel	Fork	Castor	Wheel	Fork	Castor	Wheel	Fork	Castor
MNN75	M75ZP	MNN75/MZP	QUQ75G	M75ZP	QUQ75G/MZP	STQ75G	M75ZP	STQ75G/MZP
	M75ZPTB	MNN75/MZPTB		M75ZPTB	QUQ75G/MZPTB		M75ZPTB	STQ75G/MZPTB
	M75ZPDL	MNN75/MZPDL		M75ZPDL	QUQ75G/MZPDL		M75ZPDL	STQ75G/MZPDL
	M75ZF	MNN75/MZF		M75ZF	QUQ75G/MZF		M75ZF	STQ75G/MZF
	M75ZH	MNN75/MZH		M75ZH	QUQ75G/MZH		M75ZH	STQ75G/MZH
	M75ZHTB	MNN75/MZHTB		M75ZHTB	QUQ75G/MZHTB		M75ZHTB	STQ75G/MZHTB
	M75ZHDL	MNN75/MZHDL		M75ZHDL	QUQ75G/MZHDL		M75ZHDL	STQ75G/MZHDL
MNN100	M100ZP	MNN100/MZP	QUQ100G	M100ZP	QUQ100G/MZP	STQ100G	M100ZP	STQ100G/MZP
	M100ZPTB	MNN100/MZPTB		M100ZPTB	QUQ100G/MZPTB		M100ZPTB	STQ100G/MZPTB
	M100ZPDL	MNN100/MZPDL		M100ZPDL	QUQ100G/MZPDL		M100ZPDL	STQ100G/MZPDL
	M100ZF	MNN100/MZF		M100ZF	QUQ100G/MZF		M100ZF	STQ100G/MZF
	M100ZH	MNN100/MZH		M100ZH	QUQ100G/MZH		M100ZH	STQ100G/MZH
	M100ZHTB	MNN100/MZHTB		M100ZHTB	QUQ100G/MZHTB		M100ZHTB	STQ100G/MZHTB
	M100ZHDL	MNN100/MZHDL		M100ZHDL	QUQ100G/MZHDL		M100ZHDL	STQ100G/MZHDL
MNN125	M125ZP	MNN125/MZP	QUQ125G	M125ZP	QUQ125G/MZP	STQ125G	M125ZP	STQ125G/MZP
	M125ZPTB	MNN125/MZPTB		M125ZPTB	QUQ125G/MZPTB		M125ZPTB	STQ125G/MZPTB
	M125ZPDL	MNN125/MZPDL		M125ZPDL	QUQ125G/MZPDL	- - -	M125ZPDL	STQ125G/MZPDL
	M125ZF	MNN125/MZF		M125ZF	QUQ125G/MZF		M125ZF	STQ125G/MZF
	M125ZH	MNN125/MZH		M125ZH	QUQ125G/MZH		M125ZH	STQ125G/MZH
	M125ZHTB	MNN125/MZHTB		M125ZHTB	QUQ125G/MZHTB		M125ZHTB	STQ125G/MZHTB
	M125ZHDL	MNN125/MZHDL		M125ZHDL	QUQ125G/MZHDL		M125ZHDL	STQ125G/MZHDL
MSQ100G	M100ZP	MSQ100G/MZP						

M Series

		ouoto.
MNN75	M75ZP	MNN75/MZP
	M75ZPTB	MNN75/MZPTB
	M75ZPDL	MNN75/MZPDL
	M75ZF	MNN75/MZF
	M75ZH	MNN75/MZH
	M75ZHTB	MNN75/MZHTB
	M75ZHDL	MNN75/MZHDL
MNN100	M100ZP	MNN100/MZP
	M100ZPTB	MNN100/MZPTB
	M100ZPDL	MNN100/MZPDL
	M100ZF	MNN100/MZF
	M100ZH	MNN100/MZH
	M100ZHTB	MNN100/MZHTB
	M100ZHDL	MNN100/MZHDL
MNN125	M125ZP	MNN125/MZP
	M125ZPTB	MNN125/MZPTB
	M125ZPDL	MNN125/MZPDL
	M125ZF	MNN125/MZF
	M125ZH	MNN125/MZH
	M125ZHTB	MNN125/MZHTB
	M125ZHDL	MNN125/MZHDL
MSQ100G	M100ZP	MSQ100G/MZP
	M100ZPTB	MSQ100G/MZPTB
	M100ZPDL	MSQ100G/MZPDL
	M100ZF	MSQ100G/MZF
	M100ZH	MSQ100G/MZH
	M100ZHTB	MSQ100G/MZHTB
	M100ZHDL	MSQ100G/MZHDL
MSQ125G	M125ZP	MSQ125G/MZP
	M125ZPTB	MSQ125G/MZPTB
	M125ZPDL	MSQ125G/MZPDL
	M125ZF	MSQ125G/MZF
	M125ZH	MSQ125G/MZH
	M125ZHTB	MSQ125G/MZHTB
	M125ZHDL	MSQ125G/MZHDL

Big M Series 200 kg



- Grey rubber wheel with round profile, precision bearing and thread guard (plain bearing wheel also available).
- Swivel, fixed plate and bolt hole zinc plated Core CoatTM forks with total brake or direction lock. Core Coat™lacquer provides best quality corrosion protection, with no white or red rust after 150 hours of salt spray testing.
- Available with Chicago screw axles and alternate colourways.
- Made in Australia.

Castor options



bearing, thread guard





MZPTB Plate with swivel and total brake



MZPDL Plate with swivel and direction lock



Standard Default castor colourway





Black

Example:



Example: QTQ150G/MZPTB**B** QTQ150G/MZPTB**G**

Chicago screw axle (optional)

Colourway and axle options



To upgrade to a Chicago screw axle, add C to the end of castor code (after any colourway options)

Example: QTQ150G/MZPTBBC



North American Bolt hole fixed plate (150 mm only)



swivel

MZHTB Bolt hole swivel and total brake

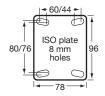


MZHDL Bolt hole swivel and direction lock

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)
QTQ150G	200	150 x 34	40 × 8
QTQ175G	200	175 x 34	40 x 8

Fork	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
MZP/MZH/	150	187	130
	175	214	145
MZFN	150	187	-
MZPTB/MZPDL	150	187	153
MZHTB/MZHDL	175	214	153









Order codes

Wheel	Fork	Castor
QTQ150G	M150ZP	QTQ150G/MZP
	M150ZPTB	QTQ150G/MZPTB
	M150ZPDL	QTQ150G/MZPDL
	M150ZFN	QTQ150G/MZFN
	M150ZH	QTQ150G/MZH
	M150ZHTB	QTQ150G/MZHTB
	M150ZHDL	QTQ150G/MZHDL
QTQ175G	M175ZP	QTQ175G/MZP
	M175ZPTB	QTQ175G/MZPTB
	M175ZPDL	QTQ175G/MZPDL
	M175ZH	QTQ175G/MZH
	M175ZHTB	QTQ175G/MZHTB
	M175ZHDL	QTQ175G/MZHDL

* Wheel also available with plain bearing-QTA.

¹ North American plate. Add **N** to the end of fork code to purchase (eg. QTQ175G/MZPNTB).

² Bushes available to reduce bolt hole to 8 and 10 mm (see page 69).

Y Series 50-360 kg



Features

- Available with puncture-proof neoprene tyres on steel rims or traditional pneumatic neoprene tyres on steel or plastic rims, in non-marking grey or black.
- Swivel or fixed plate zinc plated forks.
- Not available with brakes.

Steel rim wheels



YPRIB200Puncture-proof grey tyre, precision bearing



YSLUG250
Puncture-proof or pneumatic black tyre, deep groove ball bearing



YSSTR350
Puncture-proof or pneumatic black tyre, precision bearing



YPKNO400/ YSKNO400 Puncture-proof or pneumatic black tyre, B deep groove ball bearing



YSHWY400 Pneumatic black tyre, Q ball precision bearing

Plastic rim wheels



YRIB200 Grey tyre, roller bearing



YLUG250 Black tyre, deep groove ball bearing



YSTR350 Black tyre, precision bearing



YKNO400 Black tyre, deep groove ball bearing

Specifications

Wheel	Туре	Max load (kg)	Diameter x tread (mm)
YPRIB200	Puncture-proof	50	200 x 50
YPLUG250	Puncture-proof	75	220 x 54
YPSTR350	Puncture-proof	100	265 x 70
YPKNO400	Puncture-proof	120	400 x 100
YSLUG250	Pneumatic, steel	120	220 x 54
YSSTR350	Pneumatic, steel	180	265 x 70
YSKNO400	Pneumatic, steel	220	400 x 100
YSHWY400	Pneumatic, steel	360	400 x 100
YRIB200	Pneumatic, plastic	75	200 x 50
YLUG250	Pneumatic, plastic	100	220 x 54
YSTR350	Pneumatic, plastic	140	265 x 70
YKNO400	Pneumatic, plastic	200	400 x 100

Maximum inflation

Do NOT inflate over recommended tyre inflation pressure (30 psi).

Do NOT allow tyre pressure to drop below 20 psi or wheel may deflate and become very difficult to re-inflate. If you allow the tyre to go flat and you are unable to re-inflate it then you may need to buy an inner tube to be retro fitted to the wheel (see page 71 for spare parts).

Use of pneumatic wheels other than as recommended can be dangerous.

Forks



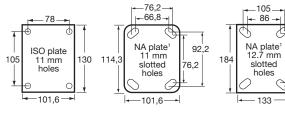
Plate with swivel



Fixed plate, no swivel

Forks	Nominal size	Mount height (mm)	Turning radius (mm)
YZP/YZF*	200	238	155
	250	250	200
	350	315	223
	400	490	328

Fork mounts





Optional: NA plate for 250 mm wheel sizes.

Standard: NA plate for 400 mm (400X8) wheel sizes.

holes

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Wheel code	Fork code	Castor code
YPRIB200	Y200ZP	YPRIB200/YZP
	Y200ZF	YPRIB200/YZF
YPLUG250	Y250ZP	YPLUG250/YZP
	Y250ZF	YPLUG250/YZF
YPSTR350	Y350ZP	YPSTR350/YZP
	Y350ZF	YPSTR350/YZF
YPKNO400	Y400ZPN	YPKNO400/YZPN
	Y400ZFN	YPKNO400/YZFN
YSLUG250	Y250ZP	YSLUG250/YZP
	Y250ZF	YSLUG250/YZF
YSSTR350	Y350ZP	YSSTR350/YZP
	Y350ZF	YSSTR350/YZF
YSKNO400	Y400ZPN	YSKNO400/YZPN
	Y400ZFN	YSKNO400/YZFN
YSHWY400	Y400ZPN	YSHWY400/YZPN
	Y400ZFN	YSHWY400/YZFN
YRIB200	Y200ZP	YRIB200/YZP
	Y200ZF	YRIB200/YZF
YLUG250	Y250ZP	YLUG250/YZP
	Y250ZF	YLUG250/YZF
YSTR350	Y350ZP	YSTR350/YZP
	Y350ZF	YSTR350/YZF
YKNO400	Y400ZPN	YKNO400/YZPN
	Y400ZFN	YKNO400/YZFN



^{*} YZF fixed fork has no turning radius. 400 mm forks available in NA (North American) plate only.

 $^{^{\}rm 1}$ For North American plate add ${\bf N}$ to end of fork code to purchase (eg. YRIB250/YZP ${\bf N}$).

J Series 150-300 kg



Features

- Blue high resilience (hi-res) rubber, cast iron, polyurethane (PU) or hard nylon wheels.
- Swivel, fixed plate and bolt hole zinc plated Core CoatTM forks with or without total brake. Core Coat™ lacquer provides best quality corrosion protection, with no white or red rust after 150 hours of salt spray testing.
- Made in Australia.

Wheels











JNR*3 Hard nylon, roller bearing, optional thread guard1



PU, roller bearing, optional thread guard1

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
JBR100	150	100 x 32	45 x 10	20
JBR125	180	125 x 32	45 x 10	20
JCR100	230	100 x 38	45 x 10	20
JNR100	300	100 x 35	45 x 10	20
JNR125	300	125 x 35	45 x 10	20
JUR100	300	100 x 32	45 x 10	20
JUR125	300	125 x 38	45 x 10	20

- * Wheels also available with plain bearings—JBA,JCI, JNA, JUA.

 ¹ For optional thread guards, add **G** to the end of wheel code.

- ² JCR or JCI wheel is not compatible with total brake forks.
 ³ JNN actual bore size is 12.7 mm reduced to 10 mm with an axle bush.

Forks

JZP

swivel







total brake



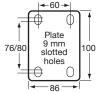
Bolt hole swivel



JZHTB Bolt hole swivel and total brake

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
JZP/JZH/JZF ²	100	129	90
	125	155	106
JZPTB/JZHTB	100	129	122
	125	155	122

Fork mounts





Also available with a 16 mm bolt hole fork as a custom order.

 $^{^2}$ JZF—fixed plate has no turning radius. 3 Bushes available to reduce bolt hole to 8 and 10 mm in round swivel race castors (see page 69).

Wheel code	Fork code	Castor code
JBR100	J100ZP	JBR100/JZP
	J100ZPTB	JBR100/JZPTB
	J100ZF	JBR100/JZF
	J100ZH	JBR100/JZH
	J100ZHTB	JBR100/JZHTB
JBR125	J125ZP	JBR125/JZP
	J125ZPTB	JBR125/JZPTB
	J125ZF	JBR125/JZF
	J125ZH	JBR125/JZH
	J125ZHTB	JBR125/JZHTB
JCR100	J100ZP	JCR100/JZP
	J100ZF	JCR100/JZF
	J100ZH	JCR100/JZH

Wheel code	Fork code	Castor code
JNR100	J100ZP	JNR100/JZP
	J100ZPTB	JNR100/JZPTB
	J100ZF	JNR100/JZF
	J100ZH	JNR100/JZH
	J100ZHTB	JNR100/JZHTB
JNR125	J125ZP	JNR125/JZP
	J125ZPTB	JNR125/JZPTB
	J125ZF	JNR125/JZF
	J125ZH	JNR125/JZH
	J125ZHTB	JNR125/JZHTB

Wheel code	Fork code	Castor code
JUR100	J100ZP	JUR100/JZP
	J100ZPTB	JUR100/JZPTB
	J100ZF	JUR100/JZF
	J100ZH	JUR100/JZH
	J100ZHTB	JUR100/JZHTB
JUR125	J125ZP	JUR125/JZP
	J125ZPTB	JUR125/JZPTB
	J125ZF	JUR125/JZF
	J125ZH	JUR125/JZH
	J125ZHTB	JUR125/JZHTB



O Series ^{230–500 kg}



Features

- Blue high resilience (hi-res) rubber, grev rubber. polyurethane (PU), or hard nylon wheels.
- Swivel or fixed plate zinc plated Core Coat[™] forks with or without total brake or direction lock. Core Coat™ lacquer provides best quality corrosion protection, with no white or red rust after 150 hours of salt spray testing.
- Made in Australia.

Wheels



Blue hi-res

rubber, roller rubber,

HBR*1

bearing,

optional

thread

quard2

Wheel

HBR150²

HBR200²

OBQ100

OBQ125

OBQ150

OBQ200

HSR200²

HUR100

HUR125

HUR150²

HUR200

ONR100

ONR125

ONR150

ONR200



OBQ

round

profile,

precision

bearing

Max load

(kg)

230

250

300

350

400

400

250

400

400

450

500

400

400

450

500

Blue hi-res



Grey rubber, PU on

HSR*1

roller

bearing,

optional

thread

quard2

Diameter x

tread (mm)

150 x 28

200 x 28

100 x 50

125 x 50

150 x 50

200 x 50

200 x 50

100 x 40

125 x 40

150 x 40

200 x 48

100 x 40

125 x 40

150 x 40



HUR*

nylon, roller

(mm)

60 x 12.7

Hub x bore³ Bore-no bush





(mm)

20

20

20

20

20

20

20

20

20

20

20

20

20

20

20

Plate with swivel

OZP

Forks



OZPTB1 Plate with swivel and total brake



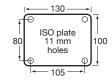
OZPDL Plate with swivel and direction lock

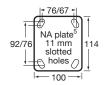


HZF Fixed plate, no swivel

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
OZP/HZF ⁴	100	138	96
	125	162	109
	150	189	121
	200	239	152
OZPTB/OZPDL	100	138	140
	125	162	140
	150	189	140
	200	239	162

Fork mounts





⁴ HZF—fixed plate has no turning radius.

compatible with total brake fork.

⁵ North American plate. Add **N** to the end of fork code to purchase (eg. HBR150/OZPNTB).

²⁰⁰ x 40 * Wheels also available with plain bearings—HBA, HSA, HUA, ONA. ¹ HBR, HBA, HSR, HSA wheels in a 200 mm diameter are not

² For optional thread guards, add **G** to the end of wheel code.

³ Bore size is reduced to 12.7 mm with a spacer before fitting into a fork.

Wheel code	Fork code	Castor code
HBR150	O150ZP	HBR150/OZP
	H150ZF	HBR150/HZF
	O150ZPTB	HBR150/OZPTB
	O150ZPDL	HBR150/OZPDL
HBR200	O200ZP	HBR200/OZP
	H200ZF	HBR200/HZF
	O200ZPDL	HBR200/OZPDL
HSR200	O200ZP	HSR200/OZP
	H200ZF	HSR200/HZF
	O200ZPDL	HSR200/OZPDL
HUR100	O100ZP	HUR100/OZP
	H100ZF	HUR100/HZF
	O100ZPTB	HUR100/OZPTB
	O100ZPDL	HUR100/OZPDL
HUR125	O125ZP	HUR125/OZP
	H125ZF	HUR125/HZF
	O125ZPTB	HUR125/OZPTB
	O125ZPDL	HUR125/OZPDL
HUR150	O150ZP	HUR150/OZP
	H150ZF	HUR150/HZF
	O150ZPTB	HUR150/OZPTB
	O150ZPDL	HUR150/OZPDL
HUR200	O200ZP	HUR200/OZP
	H200ZF	HUR200/HZF
	O200ZPTB	HUR200/OZPTB
	O200ZPDL	HUR200/OZPDL

Wheel code	Fork code	Castor code
OBQ100	O100ZP	OBQ100/OZP
	H100ZF	OBQ100/HZF
	O100ZPTB	OBQ100/OZPTB
	O100ZPDL	OBQ100/OZPDL
OBQ125	O125ZP	OBQ125/OZP
	H125ZF	OBQ125/HZF
	O125ZPTB	OBQ125/OZPTB
	O125ZPDL	OBQ125/OZPDL
OBQ150	O150ZP	OBQ150/OZP
	H150ZF	OBQ150/HZF
	O150ZPTB	OBQ150/OZPTB
	O150ZPDL	OBQ150/OZPDL
OBQ200	O200ZP	OBQ200/OZP
	H200ZF	OBQ200/HZF
	O200ZPTB	OBQ200/OZPTB
	O200ZPDL	OBQ200/OZPDL

Wheel code	Fork code	Castor code
ONR100	O100ZP	ONR100/OZP
	H100ZF	ONR100/HZF
	O100ZPTB	ONR100/OZPTB
	O100ZPDL	ONR100/OZPDL
ONR125	O125ZP	ONR125/OZP
	H125ZF	ONR125/HZF
	O125ZPTB	ONR125/OZPTB
	O125ZPDL	ONR125/OZPDL
ONR150	O150ZP	ONR150/OZP
	H150ZF	ONR150/HZF
	O150ZPTB	ONR150/OZPTB
	O150ZPDL	ONR150/OZPDL
ONR200	O200ZP	ONR200/OZP
	H200ZF	ONR200/HZF
	O200ZPTB	ONR200/OZPTB
	O200ZPDL	ONR200/OZPDL



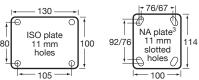
H Series 400-600 kg



Features

- Blue high resilience (hi-res) rubber, cast iron, hard nylon or polyurethane (PU) wheels with a 20 mm bore diameter, reduced to 12.7 mm with an axle bush.
- Swivel or fixed plate zinc plated Core CoatTM forks with or without total brake or direction lock. Core Coat™ lacquer provides best quality corrosion protection, with no white or red rust after 150 hours of salt spray testing.
- Made in Australia.

Fork mounts



Wheels



Blue hi-res

bearing

rubber, round

profile, precision



WCI1

Cast iron,

plain bearing





 WNQ^4 Hard nylon, precision bearing

WUQ⁴

PU, precision bearing

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
OBQ150	400	150 x 50	60 x 12.7	20
OBQ200	400	200 x 50	60 x 12.7	20
WCI150	400	150 x 50	60 x 12.7	20
WNQ150	600	150 × 40	60 x 12.7	20
WNQ200	600	200 x 40	60 x 12.7	20
WUQ150	600	150 × 40	60 x 12.7	20
WUQ200	600	200 × 40	48 x 12.7	20

Forks



HZP

swivel

Plate with







HZPDL* HZPTB1 Plate with swivel and total brake

Plate with swivel and direction lock

Fixed plate
no swivel

HZF

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
HZP/HZF ²	150	189	121
	200	239	155
HZPTB/HZPDL	150	189	165
	200	239	165

Wheel code	Fork code	Castor code
OBQ150	H150ZP	OBQ150/HZP
	H150ZF	OBQ150/HZF
	H150ZPTB	OBQ150/HZPTB
OBQ200	H200ZP	OBQ200/HZP
	H200ZF	OBQ200/HZF
	H200ZPTB	OBQ200/HZPTB
WCI150	H150ZP	WCI150/HZP
	H150ZF	WCI150/HZF
	H150ZPDL	WCI150/HZPDL
WNQ150	H150ZP	WNQ150/HZP
	H150ZF	WNQ150/HZF
	H150ZPTB	WNQ150/HZPTB
	H150ZPDL	WNQ150/HZPDL
WNQ200	H200ZP	WNQ200/HZP
	H200ZF	WNQ200/HZF
	H200ZPTB	WNQ200/HZPTB
	H200ZPDL	WNQ200/HZPDL
WUQ150	H150ZP	WUQ150/HZP
	H150ZF	WUQ150/HZF
	H150ZPTB	WUQ150/HZPTB
	H150ZPDL	WUQ150/HZPDL
WUQ200	H200ZP	WUQ200/HZP
	H200ZF	WUQ200/HZF
	H200ZPTB	WUQ200/HZPTB
	H200ZPDL	WUQ200/HZPDL

- * OBQ wheel is not compatible with direction lock fork.
- ¹ WCI wheel is not compatible with total brake fork.
- HZF—fixed plate has no turning radius.
 North American plate. Add N to the end of fork code to purchase (eg. OBQ150/HZPNTB).
- 4 WNQ and WUQ wheels have a 48 mm hub when not used in conjunction with reducers and spacers (relevant to 200 mm wheels only).

H Series scaffold 360-500 kg

Features

- Castors are branded with maker's name, and Safe Working Load (SWL).
- Supplied with a test certificate validating compliance to Australian Standards (important for risk management documentation).
- The static collapse load exceeds three times the working load (certificate available).
- Wheels 150 mm (6") and 200 mm (8") diameter to safely pass over obstacles without snagging and causing scaffold to tip.
- The stem of the castor is 150 mm (6") long, with not more than 3 mm (1/8") of clearance to tube.
- A means is provided for fixing castor to tube, so it will not fall out when lifted.
- An effective wheel/swivel brake is fitted to ensure maximum stability.
- Sockets are to suit 48.3 mm OD tube, while spigots (solid stems) are to suit 38.5 mm ID tube.
- Core CoatTM lacquer provides best quality corrosion protection (150 hours of salt spray test).
- For wheel information see 'O Series' on page 22.





W Series 500-750 kg



Features

- Cast iron, hard nylon or polyurethane (PU) wheels.
- Swivel or fixed plate zinc forks with or without total brake.

Wheels



WCI

Cast iron,

plain bearing



Hard nylon,

precision

bearing



bearing



WUQ PU, precision

XUQ PU on cast iron, precision bearing

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore—no bush (mm)
WCI150	500	150 x 50	60 x 12.7	20
WNQ150	600	150 x 40	60 x 12.7	20
WUQ150	600	150 x 40	60 x 12.7	20
XUQ150	750	152 x 50	62 x 12.7	20

Forks





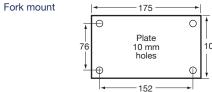


WZP
Plate with swivel
Plate

Plate with swivel and total brake

WZF
Fixed plate,
no swivel

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
WZP/WZF*	150	194	130
WZPTB	150	194	176



^{*} WZF-fixed plate has no turning radius

Order codes

Wheel code	Fork code	Castor code
WCI150	W150ZP	WCI150/WZP
	W150ZF	WCI150/WZF
	W150ZPTB	WCI150/WZPTB
WNQ150	W150ZP	WNQ150/WZP
	W150ZF	WNQ150/WZF
	W150ZPTB	WNQ150/WZPTB
WUQ150	W150ZP	WUQ150/WZP
	W150ZF	WUQ150/WZF
	W150ZPTB	WUQ150/WZPTB
XUQ150	W150ZP	XUQ150/WZP
	W150ZF	XUQ150/WZF
	W150ZPTB	XUQ150/WZPTB

Dumper bin sets

Castor sets comprising two fixed and two swivel castors can be purchased for dumper bin applications. Please note that as rubbish trucks often drop dumper bins after tipping, using these castors in such applications reduce the warranty period to six months.

Wheel code	Order code
WCI150	SETDUMPERWCI
WNQ150	SETDUMPERWNQ
WUQ150	SETDUMPERWUQ
XUQ150	SETDUMPERXUQ

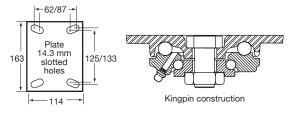
X Series 450-1000 kg



Features

- Cast iron or polyurethane (PU) on cast iron wheels.
- Swivel and fixed plate zinc forks with wheel brake or direction lock.
- Kingpin construction.

Fork mount



Spare parts: Brakes and directional locks

Spare part retrofit brake kit for 100 mm castor	SPBRKX100BR
Spare part retrofit brake kit for 125 mm castor	SPBRKX125BR
Spare part retrofit brake kit for 150 mm castor	SPBRKX150BR
Spare part retrofit brake kit for 200 mm castor	SPBRKX200BR
X Series directional locking pins for 100, 125, 150 & 200 mm castors	SPBRKXDL

^{*} Directional locking pins can be used in conjunction with wheel brakes but must be purchased as an additional retrofit item.

Wheels



XCQ Cast iron, precision bearing



XUQ PU on cast iron, precision bearing

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
XCQ100	450	102 x 48	62 x 12.7	20
XCQ125	590	127 x 48	62 x 12.7	20
XCQ150	630	152 x 48	62 x 12.7	20
XCQ200	820	203 x 50	62 x 12.7	20
XUQ100	600	102 x 50	62 x 12.7	20
XUQ125	800	127 x 50	62 x 12.7	20
XUQ150	1000	152 x 50	62 x 12.7	20
XUQ200	1000	203 x 50	62 x 12.7	20

Forks









XZP	XZPBR	XZPDL	XZF
Plate with swivel	Plate with swivel and	Plate with swivel and	Fixed plate, no swivel
	wheel brake	direction lock	

Forks Wheel size Mount height (mm) Turning radius (mm) XZP/XZPDL XZF* 100 143 95 125 167 108 150 193 137 200 257 162 XZPBR 100 143 219 125 167 242 150 193 266 200 257 291				
XZF* 125 167 108 150 193 137 200 257 162 XZPBR 100 143 219 125 167 242 150 193 266	Forks	Wheel size	•	Turning radius (mm)
125 167 108 150 193 137 200 257 162 XZPBR 100 143 219 125 167 242 150 193 266		100	143	95
200 257 162 XZPBR 100 143 219 125 167 242 150 193 266	XZF*	125	167	108
XZPBR 100 143 219 125 167 242 150 193 266		150	193	137
125 167 242 150 193 266		200	257	162
150 193 266	XZPBR	100	143	219
		125	167	242
200 257 291		150	193	266
		200	257	291

Wheel code	Fork code	Castor code
XCQ100	X100ZP	XCQ100/XZP
	X100ZF	XCQ100/XZF
	X100ZPBR	XCQ100/XZPBR
	X100ZPDL	XCQ100/XZPDL
XCQ125	X125ZP	XCQ125/XZP
	X125ZF	XCQ125/XZF
	X125ZPBR	XCQ125/XZPBR
	X125ZPDL	XCQ125/XZPDL
XCQ150	X150ZP	XCQ150/XZP
	X150ZF	XCQ150/XZF
	X150ZPBR	XCQ150/XZPBR
	X150ZPDL	XCQ150/XZPDL
XCQ200	X200ZP	XCQ200/XZP
	X200ZF	XCQ200/XZF
	X200ZPBR	XCQ200/XZPBR
	X200ZPDL	XCQ200/XZPDL
XUQ100	X100ZP	XUQ100/XZP
	X100ZF	XUQ100/XZF
	X100ZPBR	XUQ100/XZPBR
	X100ZPDL	XUQ100/XZPDL
XUQ125	X125ZP	XUQ125/XZP
	X125ZF	XUQ125/XZF
	X125ZPBR	XUQ125/XZPBR
	X125ZPDL	XUQ125/XZPDL
XUQ150	X150ZP	XUQ150/XZP
	X150ZF	XUQ150/XZF
	X150ZPBR	XUQ150/XZPBR
	X150ZPDL	XUQ150/XZPDL
XUQ200	X200ZP	XUQ200/XZP
	X200ZF	XUQ200/XZF
	X200ZPBR	XUQ200/XZPBR
	X200ZPDL	XUQ200/XZPDL

XZF—fixed plate has no turning radius.

V Series 2000–2450 kg



Features

- Polyurethane (PU) on cast iron, or high impact polymer wheels.
- Swivel or fixed plate zinc forks with or without wheel brake or direction lock.
- Kingpinless construction.

Wheels



VUQ PU on cast iron, precision bearing



VXQ High impact polymer, precision bearing

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
VUQ200	2000	203 x 75	89 x 20	30
VUQ250	2000	254 x 75	89 x 20	30
VXQ200	2450	200 x 75	89 x 20	30
VXQ250	2450	250 x 75	89 x 20	30

Forks

VZP

Plate with

swivel





VZPBR



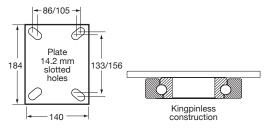


VZF

VZPDL Plate with swivel Plate with Fixed plate, swivel and and wheel brake no swivel direction lock

Forks	Wheel size	Mount height (mm)	Turning radius (mm)
VZP/VZPDL/	200	267	165
VZF*	250	318	190
VZPBR	200	267	317
	250	318	353

Fork mount



Order codes

Wheel code	Fork code	Castor code
VUQ 200	V200ZP	VUQ200/VZP
	V200ZF	VUQ200/VZF
	V200ZPBR	VUQ200/VZPBR
	V200ZPDL	VUQ200/VZPDL
VUQ 250	V250ZP	VUQ250/VZP
	V250ZF	VUQ250/VZF
	V250ZPBR	VUQ250/VZPBR
	V250ZPDL	VUQ250/VZPDL
VXQ200	V200ZP	VXQ200/VZP
	V200ZF	VXQ200/VZF
	V200ZPBR	VXQ200/VZPBR
	V200ZPDL	VXQ200/VZPDL
VXQ 250	V250ZP	VXQ250/VZP
	V250ZF	VXQ250/VZF
	V250ZPBR	VXQ250/VZPBR
	V250ZPDL	VXQ250/VZPDL

^{*} VZF-fixed plate has no turning radius.

Spare parts: Brakes and directional locks

Description	Order code
Spare part retrofit brake kit for 200 mm castor	SPBRKV200BR
Spare part retrofit brake kit for 250 mm castor	SPBRKV250BR
V Series directinoal locking pins (suits 200 mm and 250 mm castors	BRKVDL

Directional locking pins can be used in conjunction with wheel brakes, but must be purchased as an additional retrofit item.

A Series 3000–3500 kg



Features

- Polyurethane (PU) on cast iron wheel.
- Swivel or fixed plate zinc forks with or without wheel brake or direction lock.
- Kingpinless construction.

Wheels



AUQ PU on cast iron, precision bearing

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
AUQ200	3000	200 x 102	109 x 30	30
AUQ250	3500	250 x 102	109 x 30	30

Forks







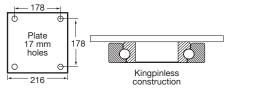


AZP AZPBR AZPDL AZF

Plate with swivel and swivel and swivel and wheel brake direction lock

Forks	Wheel size	Mount height (mm)	Turning radius (mm)
AZP/AZPDL/ AZF*	200	279	172
	250	330	197
AZPBR	200	279	317
	250	330	353

Fork mount



^{*} AZF-fixed plate has no turning radius.

Order codes

Wheel code	Castor code	
AUQ200	AUQ200/AZP	
Diameter: 200 mm	AUQ200/AZF	
	AUQ200/AZPBR	
	AUQ200/AZPDL	
AUQ 250	AUQ250/AZP	
Diameter: 250 mm	AUQ250/AZF	
	AUQ250/AZPBR	
	AUQ250/AZPDL	

Spare parts: Brakes and directional locks

Description	Order code
Spare part retrofit brake kit for 200 mm castor	SPBRKA200BR
Spare part retrofit brake kit for 250 mm castor	SPBRKA250BR
A Series directional locking pin (suits 200 mm and 250 mm castors)	SPBRKADL

Directional locking pins can be used in conjunction with wheel brakes, but must be purchased as an additional retrofit item.

Decorative castors

Our decorative castor ranges present alternative finishes for our popular K series (page 12) and M series (page 14) ranges. Each range comes with Chicago screw axles, that provide an elegant domed head on both sides of the wheel. We utilise pearlescent pigment in the thread guards for high-lustre sheen.

If you're looking for serious working castors, that can cope with constant use in applications such as room service trolleys (that clock up a lot of miles); but don't want industrial castors to stand out and foul the general aesthetic of your curated ambiance, then you're in the right place!

The Arc range

The Arc colourways are light and neutral, ideally suited to modern, contemporary furniture, with wheel options in graphite, silver, white and grey.

The decorative finishes include powder-coating in Anodic Natural Matt, with grey pedals and seals. Ideal for café tables, moveable boardroom furniture and design applications requiring a cool, clean finish.

The Midnight Black range

The Midnight Black colourway has a satin black finish, designed to escape notice and seamlessly blend into shadow. Midnight Black castors are powder-coated in NightSky™ (a true black from Colorbond's range).

From casino gaming tables, to shopfitting cabinetry, the Midnight Black range won't stand out or jar with your overall design.

The M Deluxe range

M Deluxe is finished in bright chrome, combined with high-lustre bluestone trims, bringing elegant sophistication to hospitality equipment and furniture.



Arc

Features

- Anodic Natural Matt powder-coated forks with grey pedals and seals.
- Available in K and M series TPE wheels in graphite, silver and white colourways.
- Chicago screw axles and pearlescent thread guards.
- Suitable for modern contemporary furniture.
- Other sizes available subject to minimum orders.
- Made in Australia.



Wheels







M SERIES MJQ100G TPE, precision bearing, thread guard bearing, thread guard

K Series forks







KPPTB Plate with swivel and total brake



KPH Bolt hole swivel



KPHTB Bolt hole swivel and total brake

M Series forks







MPPTB Plate with swivel and total brake



MPH Bolt hole swivel



MPHTB Bolt hole swivel and total brake

Colourways



GH Graphite



SL Silver



WT White

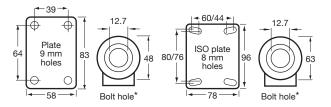
Specifications

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	
KJQ75G	50	75 x 23	30 x 8	
MJQ100G	85	100 x 32	40 x 8	

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
KPP/KPH	75	104	69
KPPTB/KPHTB	75	104	89
MPP/MPH	100	135	91
MPPTB/MPHTB	100	135	128

K Series fork mount

M Series fork mount



Wheel code	Fork code	Castor code	Colourway
KJQ 75G	K75PPARC	KJQ75G/KPP	+
	K75PPTBARC	KJQ75G/KPPTB	+
	K75PHARC	KJQ75G/KPH	+
	K75PHTBARC	KJQ75G/KPHTB	+
MJQ 100G	M100PPARC	MJQ100G/MPP	+
	M100PPTBARC	MJQ100G/MPPTB	+
	M100PHARC	MJQ100G/MPH	+
	M100PHTBARC	MJQ100G/MPHTB	+

^{*} Bushes available to reduce bolt hole to 8 and 10 mm (see page 69).

Midnight NEW Black





Wheels







M SERIES MJQ100GBLK TPE, precision bearing, thread guard

K Series forks



KPP Plate with swivel



KPPTB
Plate with
swivel and
total brake



KPH Bolt hole swivel



Bolt hole swivel and total brake

M Series forks



MPP Plate with swivel



MPPTB
Plate with
swivel and
total brake



swivel

B sv

5

MPHTB Bolt hole swivel and total brake

Features

- NightSky™ (Colorbond black satin).
- Available in K Series or M Series thermoplastic elastomer (TPE) wheels with black thread guards and Chicago screw axles.
- Suitable for complementing timber and steel furniture.
- Other sizes available subject to minimum orders.
- Made in Australia.

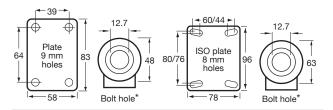
Specifications

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)
KJQ75GBLK	50	75 x 23	30 x 8
MJQ100GBLK	85	100 x 32	40 x 8

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
KPP/KPH	75	104	69
KPPTB/KPHTB	75	104	89
MPP/MPH	100	135	91
MPPTB/MPHTB	100	135	128

K Series fork mount

M Series fork mount



Wheel code	Fork code	Castor code
KJQ75GBLK	K75PPBLK	KJQ75G/KPPBLK
	K75PPTBBLK	KJQ75G/KPPTBBLK
	K75PHBLK	KJQ75G/KPHBLK
	K75PHTBBLK	KJQ75G/KPHTBBLK
MJQ100GBLK	M100PPBLK	MJQ100G/MPPBLK
	M100PPTBBLK	MJQ100G/MPPTBBLK
	M100PHBLK	MJQ100G/MPHBLK
	M100PHTBBLK	MJQ100G/MPHTBBLK

^{*} Bushes available to reduce bolt hole to 8 and 10 mm (see page 69).

M Deluxe





Castor options



MJQ WHEEL TPE, precision bearing, thread guard



MCP Plate with swivel



MCPTB Plate with swivel and total brake



Fixed plate, Bolt hole swivel no swivel



MCHTB Bolt hole swivel and total brake

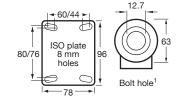
Features

- Chrome plated forks with *Bluestone* pedals and seals.
- M Series 100 mm or 125 mm thermoplastic elastomer (TPE) wheels with Bluestone thread guards and Chicago screw axles.
- Complements high end furniture, displays or equipment.
- Other sizes available subject to minimum orders.
- Made in Australia.

Specifications

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)
MJQ100G	85	100 x 32	40 × 8
MJQ125G	85	125 x 32	40 x 8
Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
MCP/MCF*/MCH	100	135	91
MCPTB/MCHTB	100	135	128
MCP/MCF*/MCH	125	161	91
MCPTB/MCHTB	125	161	128

M Series fork mount



Wheel code	Fork code	Castor code
MJQ 100G	M100CPBN	MJQ100G/MCPBN
	M100CPTBBN	MJQ100G/MCPTBBN
	M100CFBN	MJQ100G/MCFBN
	M100CHBN	MJQ100G/MCHBN
	M100CHTBBN	MJQ100G/MCHTBBN
MJQ 125G	M125CPBN	MJQ125G/MCPBN
	M125CPTBBN	MJQ125G/MCPTBBN
	M125CFBN	MJQ125G/MCFBN
	M125CHBN	MJQ125G/MCHBN
	M125CHTBBN	MJQ125G/MCHTBBN

^{*} MCF—fixed plate has no turning radius.

1 Bushes available to reduce bolt hole to 8 and 10 mm (see page 69).

Medical castors and wheels

Trinity series (including Trinity Electronic Braking Castors)

Designed for patient transport, Trinity three-in-one castors are renowned in the healthcare industry for their innovative three-in-one brake function, fixed brake pedal position and high dynamic load rating.

Built on this innovation, Trinity Electronic Braking Castors (EBC) feature automatic brakes, intuitive steering, and the control of brakes and steering from any castor foot pedal, handset or nurse panel.

Traditional central locking castors

Castors and fittings for traditional hospital beds with mechanical central locking systems.

Wheelchair castors

Moulded from high-impact nylon, spoked for less weight, fitted with sealed precision bearings and paired with lightweight foamed urethane tyres, our wheelchair castors are designed to be easy to use and maintenance free over its lifetime.

Conductive wheels

Non-marking conductive wheels for M Series castors.



Trinity series



Features across the range

- Innovative patented design.
- Suits a wide range of medical equipment and applications.
- Advanced braking system.
- Fixed position soft-touch actuation pedal.
- Available in 100, 125 and 150 mm wheel diameters.
- Made in Australia.

Innovative patented design

Trinity castors and Trinity EBC are designed in Australia and made under the following patents:

- USA patent 8205297 (12/663354).
- European patent 2164715.
- Australian patent 2008258348.
- International patent pending 20150266342.

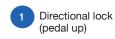
Three-in-one castors

Designed for patient transport, Trinity castors are renowned in the healthcare industry for their innovative three-in-one brake function, fixed brake pedal position and high dynamic load rating.

Configuration

Trinity castors are available in three wheel sizes— 100, 125 and 150 mm—and four brake configurations:

- Complete brake (CB)—includes all three brake positions.
- Total brake (TB)—includes TB and swivel.
- Swivel (SW)—free movement castor with no pedal.
- Blank castor (BL)—used to achieve bilateral braking. If used at the rear of equipment and combined with CB castors at the front, one activation bar can control all castors to achieve total brake, direction lock or free swivel (down = TB, horizontal = swivel, up = swivel).

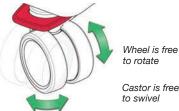




Wheel is free to rotate

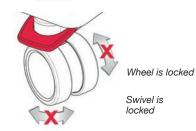
Swivel is locked



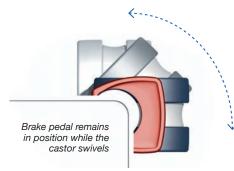


Castor is free to swivel





Three-in-one brake pedal function



Fixed brake pedal position

A fixed brake pedal means that you can use the castor no matter where it's facing as the pedal will always be accessible. No more fishing under equipment to try to find the pedal.

Specifications

	Diameter (mm)	Max load (kg)	Height* (mm)	Turning radius (mm)
Swivel	100	100	133	78
Swivel only	125	125	161	104
	150	150	185	129
In-line pedal	100	100	133	78
Pedal in-line with directional lock	125	125	161	104
	150	150	185	129
90 degree pedal	100	100	133	78
Pedal at 90 degree angle to directional	125	125	161	104
lock	150	150	185	129

* Mount heights shown are for castors only. Fittings are additional— 5 mm for washer, 14 mm for plate.

> Take a closer look. Scan the QR code.



Electronic braking castors (EBC)

Built on the innovation of Trinity three-in-one castors, Trinity electronic braking castors (EBC) feature automatic brakes, intuitive steering, and the control of brakes and steering from any castor foot pedal, handset or nurse panel.

Never forget the brakes again

Where medical castors are used for moving patients and specialised equipment frequently, forgetting to apply the brakes presents a higher risk of accidents, especially if the patient tries to alight, or when hospital equipment unexpectedly moves.

Trinity EBC helps prevent these kinds of accidents by automatically applying the brakes when it has been stationary for a programmed time (normally 60 seconds). When you want to unlock the brakes again, the control is always within easy reach—just flick up any of the four castor pedals, or press the button on the handset or nurse control panel.

Steer like you flip your smart-phone

Just like your smart-phone decides whether to flip its display from portrait to landscape based on your pattern of movement, Trinity EBC analyses how you move the bed or equipment, and intelligently decides when and how to engage or disengage the directional lock.

Take a closer look. Scan the QR code.





Control system

Trinity EBC is compatible with Dewert, TiMotion and Linak control systems. It is also fully customisable and can interface with customer-specific control systems. Pair an EBC set with the Fallshaw Control System to get the most out of Trinity EBC, or ask our engineers to help you retrofit EBC to you existing hospital bed system. Ask a Fallshaw representative for more information.

No power, no problem

In the unlikely event of a power cut, the castors can still be manually steered and locked through the pedals, just like a normal Trinity castor. This allows you to still use the bed normally.

Trinity EBC set

Trinity EBC can be ordered as a set. An EBC set consists of four castors—one motion sensing and conductive castor, and three standard castors.

Specifications

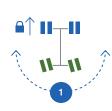
	100 mm wheel	125 mm wheel	150 mm wheel
Max load	100 kg	125 kg	150 kg
Mount height*	133 mm	161 mm	185 mm
Turning radius	78 mm	104 mm	129 mm
Standard fittings	32 mm pintle or 28 mm ISO pintleWasher		
Standard features	IPX5 water resistance rating Cool grey or eggshell colourway		
Optional features	 Auto brake motion sensor Intuitive steer motion sensor Conductive (resistance < 10⁵ ohms) 		

^{*} Add 5 mm for washer mount.

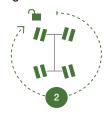


Trinity EBC can be used on a wide range of medical equipment, including hospital beds, mobile rehab robots and specialised surgical equipment.

How automatic braking and intuitive steering works



Purposeful movement in either direction engages the directional lock to the forward wheels, allowing the rear wheels to do the steering.



No movement for one second disengages the directional lock and allows free swivel movement to all four castors.



No movement for 60 seconds engages total brake on all four castors. This can be disengaged from the handset or by using any of the four pedals.

Trinity series

Trinity EBC control system

Core components



EBCCONTROLU (For user-specified handsets)
EBCCONTROLI (For Intuitive handset or panel)

EBC Controller



EBCCABLESET1.5 (Set of four 1.5 m cables)

Extension cable set



EBCCABLEY

Y cable



EBCPOWERAU (Australasian) EBCPOWEREU (European) EBCPOWERUK (UK) EBCPOWERUS (US)

User interface options (choose one only)



EBCHANDSETU1 (User-specified, 1 button)
EBCHANDSETU5 (User-specified, 5 button)
EBCHANDSETI1 (Intuitive, 1 button)
EBCHANDSETI6 (Intuitive, 6 button)

Handset



EBCINTERFACE (If using existing control panel)

Interface Box

Optional extras (choose only if your existing system requires a stand-alone battery)



EBCBATTERY1 (1.2AH)

Battery

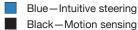
Trinity EBC set: order codes

Castor series	Size	Pedal configuration	Colourway	Brake configuration	Steering type	Cable compatibility	Water resistance
EBCSET	100 100 mm 125 125 mm 150 150 mm	0 In-line 9 90°	C Cool grey E Eggshell	CB Complete brake TB Total brake	l Intuitive U User specified	L Linak D Dewert T TiMotion	5 IPX5
EBCSET							

Please note: The combination of TB (total brake) and I (intuitive steering) is unavailable in the Trinity EBCSET.

EBC sets include one conductive and motion-sensing castor, and three standard castors.

Trinity EBC colour coded feature identification



Yellow—Conductive



Colourway options

Grey colourway

Body	Wheels	Pedal
Pantone 423C	Pantone 7546C	Pantone 288C

Eggshell colourway

Body	Wheels	Pedal
Pantone 7527C	Pantone 7546C	Pantone 7545C

Please note: Customised colours are available on request. Minimum order quantities apply.



Trinity series fitting options

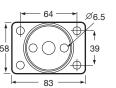


PLATE MOUNT SPFPLATEKIT

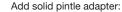
Includes:

- SPM14X40 (bolt)
- SPWSHFZDRILL (fitting washer)
- SPFPLATE (top plate)

Only compatible with 100 mm castors at full load rating.



TUBE MOUNT



-AFR28Z(100)	Fits 100 mm castors, 28 mm round stem ²
-AFR28Z(125150)	Fits 125 mm & 150 mm castors, 28 mm round stem ²
-AFR32Z(100)	Fits 100 mm castors, 32 mm round stem ³
-AFR32Z(125150)	Fits 125 mm & 150 mm castors, 32 mm round stem ³



WASHER MOUNT

Customer supplied M14 bolt and washer to ensure engagement into the castor of 30–38 mm (100) or 40–50 mm (125 and 150).



Laser cut mount SPWSHFZLASER



Trinity stoppers

- Castors can be installed either with a pintle mount or washer mount (as per images below); however, the installation method must provide a 'stopper' to prevent over-extension of the pedal in the 'ur' direction. This has been found to be critical to ensure long life of the product in the field and protect against the castors being damaged from abuse by kicking the pedal.
- Fallshaw can provide stoppers for this purpose or, manufacturers can design this into the bed frame (with our assistance).



Stopper options

Application Stopper Order code

Total brake castor with tube mount SPSTOPFPTLTBAN



Complete brake castor with tube mount

SPSTOPFPTLCBAN



Total brake castor with washer mount

SPSTOPFWSHTBBN



Complete brake castor with washer mount

SPSTOPFWSHCBBN

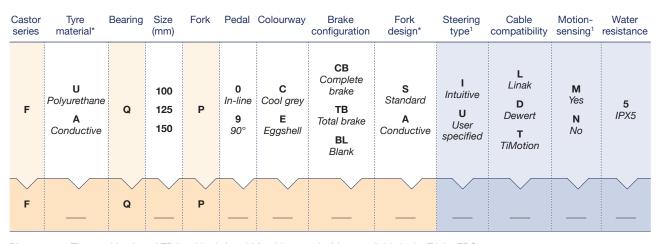


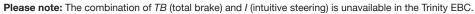
Trinity series

Trinity three-in-one castor: order codes

Castor series	Tyre material	Bearing	Size (mm)	Fork	Pedal	Colourway	Brake configuration	Fork design		
Į	U Polyurethane		100	_	0 In-line	C Cool grey	CB Complete brake TB Total brake	S Standard		
F	A Conductive	Q	125 150	F	9 90°	E Eggshell	SW Swivel	A Conductive		
							BL Blank			
F		Q		F						
							—	—		







^{*} Tyre material and fork design - polyurethane tyre (U) can only be matched with standard fork (S). Conductive tyre (A) can only be matched with conductive fork.







¹ Steering type and motion sensing—intuitive steering (I) can only be matched with motion sensing (M: Yes).
2 Cross drill hole: distance from end—19 mm, diameter—8 mm.

³ Cross drill hole: distance from end – 7 mm, diameter – 6 mm.

Central locking castors

Traditional v Trinity EBC

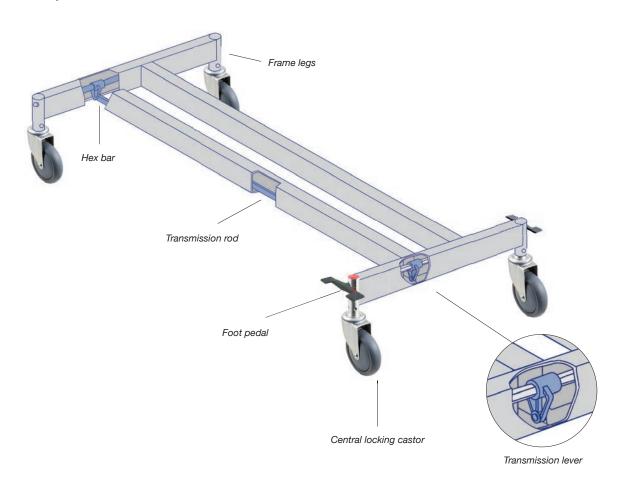
We have two options for central locking castors for hospital beds—the traditional mechanical system, and the innovative Trinity EBC.

Traditional mechanical system

Made in Australia, these castors are operated via a foot pedal, which typically moves down for total brake, horizontal for swivel, and up for directional lock (steer). The foot pedal is connected via transmission levers and a hexagonal rod running through the bed undercarriage, which, in turn rotates cams inside the castors to control the brake state in all four castors centrally. Steering needs to be factory fitted to either steer from the head end or the foot end of the bed.



Traditional mechanical system fitted to a hospital bed frame



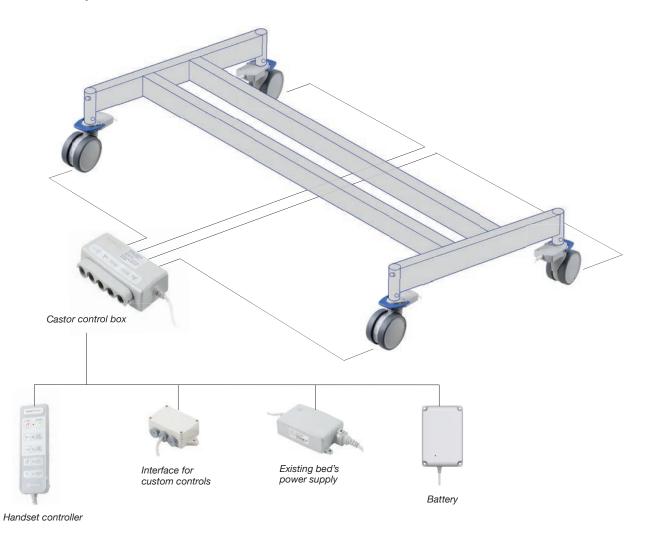
Trinity EBC system

Trinity EBC can be controlled with the push of a button via the handset, or by activating any of the four castors (which will then control their companion castors). Steering can flip from the head end of the bed to the foot end automatically.

The EBC technology connects all four castors with electronic cables instead of a hexagonal rod and transmission levers. This provides great flexibility in bed design, where the undercarriage no longer needs to provide for the rigid hexagonal bars, and the cables can bend to any shape. Additionally, Trinity EBC can be retro-fitted to existing hospital beds.



Trinity EBC system fitted to a hospital bed frame

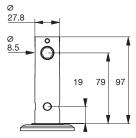


Traditional central locking castors

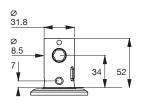


Features

- Suitable for use on hospital beds where one pedal needs to activate multiple brakes.
- Precision wheel bearings.
- Excellent design and performance.
- Made in Australia.



Long pintle (Order code includes 'L')



Short pintle (Order code includes 'S' and is made to order)



CUQ (twin wheel) PU, precision



MJQ TPE, precision bearing, thread guard bearing, thread guard



Grey rubber, round profile, precision bearing, thread guard

Wheel	Max load (kg)	Bore (mm)	Diameter x tread (mm)
CUQ150GT	100	8	150 x 32
MJQ100G	100	8	100 x 32
MJQ125G	100	8	125 x 32
QTQ150G	100	8	150 x 32

Fork options

		Wheel diameter (mm)	Height (mm)	Turning radius (mm)
	CNL/CZL	100	139	91
	Long pintle	125	165	103
	with swivel	150	190	113
	CNLTB/CZLTB	100	139	91
	Long pintle	125	165	103
*	with total brake	150	190	113
	CNLDL/CZLDL	100	139	91
	Long pintle	125	165	103
_	with direction lock	150	190	113
#	CNS/CZS	100	139	91
	Short pintle	125	165	103
	with swivel	150	190	113
	CNSTB/CZSTB	100	139	91
	Short pintle	125	165	103
*	with total brake	150	190	113
	CNSDL/CZSDL	100	139	91
	Short pintle with	125	165	103
$\overline{}$	direction lock	150	190	113

Order codes

Wheel code	Fork code	Castor code
CUQ150GT	C150NL	CUQ150GT/CNL
Diameter: 150 mm	C150NLTB	CUQ150GT/CNLTB
	C150NLDL	CUQ150GT/CNLDL
	C150NS	CUQ150GT/CNS
	C150NSTB	CUQ150GT/CNSTB
	C150NSDL	CUQ150GT/CNSDL
MJQ 100G	C100ZL	MJQ100G/CZL
Diameter: 100 mm	C100ZLTB	MJQ100G/CZLTB
	C100ZLDL	MJQ100G/CZLDL
	C100ZS	MJQ100G/CZS
	C100ZSTB	MJQ100G/CZSTB
	C100ZSDL	MJQ100G/CZSDL
MJQ 125G	C125ZL	MJQ125G/CZL
Diameter: 125 mm	C125ZLTB	MJQ125G/CZLTB
	C125ZLDL	MJQ125G/CZLDL
	C125ZS	MJQ125G/CZS
	C125ZSTB	MJQ125G/CZSTB
	C125ZSDL	MJQ125G/CZSDL
QTQ 150G	C150ZL	QTQ150G/CZL
Diameter: 150 mm	C150ZLTB	QTQ150G/CZLTB
	C150ZLDL	QTQ150G/CZLDL
	C150ZS	QTQ150G/CZS
	C150ZSTB	QTQ150G/CZSTB
	C150ZSDL	QTQ150G/CZSDL

Castor sets

Total brake (x2), direction lock (x2), transmission levers (x2).

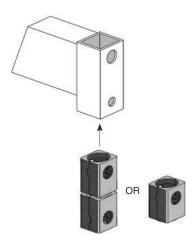
CUQ150GT	Long pintle	CUQ150GTCLLSET
	Short pintle	CUQ150GTCLSSET
MJQ 100G	Long pintle	MJQ100GCLLSET
	Short pintle	MJQ100GCLSSET
MJQ 125G	Long pintle	MJQ125GCLLSET
	Short pintle	MJQ125GCLSSET
QTQ 150G	Long pintle	QTQ150GCLLSET
	Short pintle	QTQ150GCLSSET

Central locking castors

Spare parts

Central locking castors must be installed with a tight fit into the tubing—otherwise the castors will tilt forward under load causing excessive wear and compromising the directional lock performance.

Our warranty only applies if castors are correctly installed. This includes always fitting the central locking castors using round tubing or square tubing with square adaptors.



Fitting options order codes

	Description	Order code
	Square adaptor to suit 28 mm ID tube	SPMCLNS28SPLIT
1	Left hand side control pedal	SPPEDCL(L)
	Right hand side control pedal	SPPEDCL(R)
	Glass-filled nylon* transmission lever for long ISO pintle	SPMCLTL
	Glass-filled nylon* transmission lever to suit the short pintle	SPMCSTL

^{*} Very strong, hard polymer designed for high abrasion resistance and ductility to prevent brittle-fracture. Note: Tougher than sintered metal transmission levers.

Central locking bed requirements

This page outlines the requirements needed to ensure that your Fallshaw central locking castors function correctly when initially fitted and also continue to function for the life of the product. If you are unable to meet one or more of these requirements please speak to our technical team to see if a special product can be made to suit your application.

Mounting heights

It is critical that the load of the bed sits on the mounting washer. This reduces movement of the product over time and reduces the stress placed on the attachment bolts and holes. If the load of the bed doesn't sit on the washer, with time the mounting bolt holes will elongate and the castor will push up into the leg and cease to function.

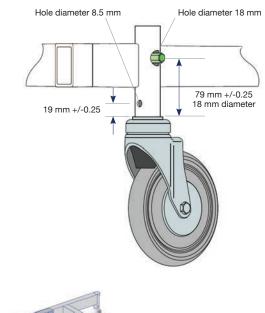
It is therefore important to control the height from the bottom of the tube to the attachment holes, and also to the hex bar hole (see drawing for dimension and tolerances).

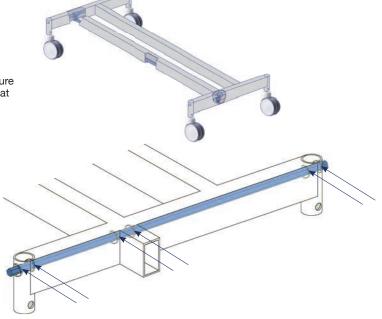
These dimensions are to suit the Australian and European Standard (EN12531:1999). If you are unable meet these dimensions please speak to our sales team.

Hex bar clearance

It is also critical that the hex bar for actuating the castor is free to move. Ensure that the frame does not interfere with the hex bar. This involves either drilling large holes for ample clearance (suggest 18 mm diameter) or, if smaller holes are required. Ensure that all the holes are aligned and the frame is strong enough that it will not twist when fully loaded.

The hex bar should only contact the mechanism (two castors, pedals and the transmission lever), it should be able to rotate freely without rubbing or bending. If these holes are too small, or misaligned, the rubbing and bending of the hex bar will make operation difficult, and will stop the castors from functioning.





Conductive wheels



Features

- Conductive non-marking wheels exceeds the conductivity level requirements of ANSI/ESD S20.20–1999.
- Made in Australia.

Designed for use in Electrostatic Discharge (ESD) environments as part of an effective ESD Control Program, our conductive non-marking wheels can be assembled into our M series castors.

With a conductivity of <10 $^{\circ}$, our conductive wheels exceed the requirements of ANSI/ESD S20.20–1999 for mobile equipment in protected areas, which specify 10 $^{\circ}$ as the maximum level of resistance.

Installation of conductive wheels

Conductive wheels must be properly installed to ensure a conductive path from the trolley leg, through the stem, and the castor and the axle and the bearing, and through the centre and tyre. Solid metal pintles will provide such a conductive path. If plastic expanding stems are selected, they will need to be installed with a copper wire attached to the stem and wrapped between the adaptor and tube inner to ensure a conductive path.

Please note: Do not use with plastic expanding adaptors.

Wheel



MAQ

Conductive TPE, precision bearing, thread guard

Forks









MZF

Plate with swivel

Plate with swivel & total brake

Plate with swivel & direction lock

Fixed plate, no swivel



Bolt hole

swivel



Bolt hole swivel

& total brake



MZHDL

Bolt hole swivel

& direction lock

Fork options

Fork	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
MZP/MZH/MZF ⁴	75	106	71
	100	135	91
	125	161	103
MZPTB/MZPDL/	75	106	118
MZHTB/ MZHDL —	100	135	128
IVIZITOL	125	161	128

^{*} See page 14 for M Series fork options. Also available with stainless steel bearing "MAC" for M Powder-coat (page 52) and M Stainless Steel (page 48) castors.

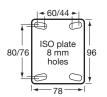
Wheel options

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
MAQ75G	85	75 × 32	40 x 8	8
MAQ100G	85	100 x 32	40 x 8	8
MAQ125G	85	125 x 32	40 x 8	8

Order codes

Wheel	Fork	Castor
MAQ75G	M75ZP	MAQ75G/MZP
	M75ZPTB	MAQ75G/MZPTB
	M75ZPDL	MAQ75G/MZPDL
	M75ZF	MAQ75G/MZF
	M75ZH	MAQ75G/MZH
	M75ZHTB	MAQ75G/MZHTB
	M75ZHDL	MAQ75G/MZHDL
MAQ100G	M100ZP	MAQ100G/MZP
	M100ZPTB	MAQ100G/MZPTB
	M100ZPDL	MAQ100G/MZPDL
	M100ZF	MAQ100G/MZF
	M100ZH	MAQ100G/MZH
	M100ZHTB	MAQ100G/MZHTB
	M100ZHDL	MAQ100G/MZHDL
MAQ125G	M125ZP	MAQ125G/MZP
	M125ZPTB	MAQ125G/MZPTB
	M125ZPDL	MAQ125G/MZPDL
	M125ZF	MAQ125G/MZF
	M125ZH	MAQ125G/MZH
	M125ZHTB	MAQ125G/MZHTB
	M125ZHDL	MAQ125G/MZHDL

Fork mounts







Wheelchair castors



Features

- High impact nylon moulded centre with foamed urethane tyre and precision bearing.
- Spoked design for lighter castor weight, only 0.3 kg for 150 mm castor, 0.44 kg for 175 mm castor, and 0.55 kg for the 200 mm castor.
- Maintenance free sealed precision head race bearing.
- Not available with brakes.
- Made in Australia.





Foamed urethane wheel, precision bearing, no thread guard.

Wheel options

Wheel	Max load (kg)	Weight (kg)	Diameter x tread (mm)	Hub x bore (mm)
CFQ150*	45	0.30	150 x 35	40 x 8
CFQ175	45	0.44	175 x 45	50 x 8
CFQ200	45	0.55	200 x 45	50 x 8

Solid stem pintle mount

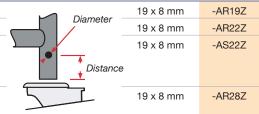
Stem OD	Tube size (OD x wall thickness)	Cross drill ho (distance from end x		Order code
19 mm round	22 x 1.2 mm		19 x 8 mm	-AR19Z
22 mm round	25 x 1.6 mm	Diameter	19 x 8 mm	-AR22Z
-AR19 with adaptor 22 mm square. (Supplied as 19 mm round solid stem with 22 mm square nylon overlay.)	25 x 1.6 mm SQ	Distance	19 x 8 mm	-AS22Z
28 mm round	32 x 1.6 mm		19 x 8 mm	-AR28Z

^{*} Note: CFQ150 wheel can be used with Big M forks for additional combinations.

Fork options

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
M150ZH	150	187	153
C175PH	175	225	130
C200PH	200	237	144

Wheel	Fork code	Castor code
CFQ150	M150ZH	CFQ150/MZH
CFQ175	C175PH	CFQ175/CPH
CFQ200	C200PH	CFQ200/CPH





Specialised castors

M & O Stainless steel castors

Our stainless steel castors are the premium castors for corrosive environments. 100% corrosion free, with a wide range of styles and load capacities available.

M Powder-coat castors

Specially designed for corrosive environments (particularly shower chair applications). Zinc plated and then powder-coated for better corrosion resistance from substances such as alkaline soaps and other cleaning agents, these castors have stainless steel bottom races and twin ball races with stainless steel balls, covered by a diaphragm shroud to stop water entering from above). The wheels are available with a plain PBT (corrosion free) bush or a stainless steel precision bearing with thread guards to prevent the build-up of hair and lint.

High & low temperature castors

While our standard wheels and castors have a working temperature range of 5°C to 60°C, we also make specialised high temperature castors designed to withstand temperatures of baking ovens, and low temperature castors that can survive in freezing rooms.

Self-aligning castors

Self-aligning castors for Automated Guided Vehicle (AGV) carts ensure that the castors align with the AGV's direction of travel when it is lifted off the ground. This ensures that the castor avoids coming into contact with walls, pedestrians or the AGV itself.

Supermarket trolley and travelator castors

Our range of castors designed for supermarket trolleys and travelators are built for reliability and safety.



About chemical resistance

The castors and wheels we make have worked well for many years in many uses and places around the world. However, sometimes you may want to apply them in places more corrosive than the usual residential, commercial or industrial environment. In the table (below), we lay out what can be expected from our castors when exposed to some of the more severe chemicals used.

For castors that are resistant to corrosion or extreme temperatures, see our range of corrosion resistant castors from page 48–52, and our high and low temperature castors from page 54–55.

If you are planning to use our castors in severe conditions, our team will be happy to help you choose the right castor for the job.



Chemical resistance rating

	Polyurethane	Nylon	Thermoplastic elastomer	Rubber	Polypropylene	Cast iron	Stainless steel
Sulphuric acid 10%	Good	Good	Good	Poor	Good	Poor	Fair
Hydrochloric acid 10%	Fair	Poor	Fair	Poor	Fair	Poor	Poor
Nitric acid 10%	Poor	Poor	Fair	Poor	Good	Poor	Good
Methyl alcohol	Fair	Good	Good	Fair	Good	Good	Good
Sodium hydroxide 20%	Fair-Poor	Good	Good	Fair	Good	Good	Good
Gasoline 100%	Good	Good	Fair	Poor	Fair	Good	Good
Ethylene glycol	Good	Good	Fair	Poor	Fair	Good	Good
Brake fluid	Fair-Poor	Good	Good	Poor	Good	Good	Good
Salt, including marine environments	Good	Good	Good	Good	Good	Good	Poor
Carbon tetrachloride	Fair	Poor	Good	Poor	Fair	Fair	Good-Fair
Fresh water immersion	Good	Poor	Good	Good	Good	Good	Good
Dry heat 10%	Good	Good	Good	Good	Good	Good	Good
Outdoor weathering	Good	Good	Good	Good	Good	Good	Good

M Stainless



Features

- 100% corrosive-free 304 grade stainless steel (SS) castors in plate or bolt hole configurations, with or without total brake or direction lock.
- M Series thermoplastic elastomer (TPE), white nylon, grey rubber, or polyurethane (PU) on polypropylene (PP) wheels with stainless steel (SS) bearings or stainless steel bushes.
- Standard Chicago screw axles².
- Chicago screw axle type 304.
- Fork and ball bearings type 304.
- Axle, bolt and nut type 304.
- Rivet and axle bush type 303.
- TB spring type 301 full hard.
- Magnetic and high carbon stainless steel precision bearings type AISI440C.
- Option for regular nut and bolt or stainless steel Chicago screw.
- Made in Australia.

See page 47 for more information about chemical resistance.

Wheels



MJC*
TPE, SS precision bearing, thread guard



MNN...WS White nylon, plain bearing



DNC⁵
White nylon, SS precision bearing



MSC¹
Grey rubber, SS
precision bearing,
thread guard



QUC¹
PU on PP, SS
precision bearing,
thread guard

Forks







MSPTB
Plate with swivel and total brake



MSPDLPlate with swivel and direction lock



MSF Fixed plate, no swivel



MSH Bolt hole swivel



MSHTBBolt hole swivel and total brake



MSHDL

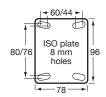
Bolt hole swivel and direction lock

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
MJC75G	85	75 x 32	40 x 8	8
MJC100G	85	100 x 32	40 x 8	8
MJC125G	85	125 x 32	40 x 8	8
MNN75WS	150	75 x 32	40 x 8	12
MNN100WS	150	100 x 32	40 x 8	12
MNN125WS	150	125 x 32	40 x 8	12
DNC100W ⁵	200	100 x 32	40 x 8	8
DNC125W	200	125 x 32	40 x 8	8
MSC100G	140	100 x 34	40 x 8	8
MSC125G	150	125 x 34	40 x 8	8
QUC75G	200	75 x 32	40 x 8	8
QUC100G	200	100 x 32	40 x 8	8
QUC125G	200	125 x 32	40 × 8	8

^{*} Wheel also available in conductive—MAC, or plain bearing—MJA.

Forks ²	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
MSP/MSH/MSF ³	75	106	71
	100	135	91
	125	161	103
MSPTB/MSPDL/	75	106	118
MSHTB/MSHDL	100	135	128
	125	161	128

Fork mounts





² To replace Chicago screw axles with regular hex bolt axles, add -B to the end of fork code.

¹ Wheels also available with plain bearings—MSA, QUA.

³ MSF—fixed plate has no turning radius.

⁴ Bushes available to reduce bolt hole to 8 and 10 mm (see page 69).

⁵ DNC100W are made to order.

Wheel	Fork code	Castor code
DNC 125W	M125SP	DNC125W/MSP
	M125SPTB	DNC125W/MSPTB
	M125SPDL	DNC125W/MSPDL
	M125SF	DNC125W/MSF
	M125SH	DNC125W/MSH
	M125SHTB	DNC125W/MSHTB
	M125SHDL	DNC125W/MSHDL
MJC75G	M75SP	MJC75G/MSP
	M75SPTB	MJC75G/MSPTB
	M75SPDL	MJC75G/MSPDL
	M75SF	MJC75G/MSF
	M75SH	MJC75G/MSH
	M75SHTB	MJC75G/MSHTB
	M75SHDL	MJC75G/MSHDL
MJC 100G	M100SP	MJC100G/MSP
	M100SPTB	MJC100G/MSPTB
	M100SPDL	MJC100G/MSPDL
	M100SF	MJC100G/MSF
	M100SH	MJC100G/MSH
	M100SHTB	MJC100G/MSHTB
	M100SHDL	MJC100G/MSHDL
MJC 125G	M125SP	MJC125G/MSP
	M125SPTB	MJC125G/MSPTB
	M125SPDL	MJC125G/MSPDL
	M125SF	MJC125G/MSF
	M125SH	MJC125G/MSH
	M125SHTB	MJC125G/MSHTB
	M125SHDL	MJC125G/MSHDL
MNN75WS	M75SP	MNN75WS/MSP
	M75SPTB	MNN75WS/MSPTB
	M75SPDL	MNN75WS/MSPDL
	M75SF	MNN75WS/MSF
	M75SH	MNN75WS/MSH
	M75SHTB	MNN75WS/MSHTB
	M75SHDL	MNN75WS/MSHDL

Wheel	Fork code	Castor code
MNN100WS	M100SP	MNN100WS/MSP
	M100SPTB	MNN100WS/MSPTB
	M100SPDL	MNN100WS/MSPDL
	M100SF	MNN100WS/MSF
	M100SH	MNN100WS/MSH
	M100SHTB	MNN100WS/MSHTB
	M100SHDL	MNN100WS/MSHDL
MNN125WS	M125SP	MNN125WS/MSP
	M125SPTB	MNN125WS/MSPTB
	M125SPDL	MNN125WS/MSPDL
	M125SF	MNN125WS/MSF
	M125SH	MNN125WS/MSH
	M125SHTB	MNN125WS/MSHTB
	M125SHDL	MNN125WS/MSHDL
MSC100G	M100SP	MSC100G/MSP
	M100SPTB	MSC100G/MSPTB
	M100SPDL	MSC100G/MSPDL
	M100SF	MSC100G/MSF
	M100SH	MSC100G/MSH
	M100SHTB	MSC100G/MSHTB
	M100SHDL	MSC100G/MSHDL
MSC 125G	M125SP	MSC125G/MSP
	M125SPTB	MSC125G/MSPTB
	M125SPDL	MSC125G/MSPDL
	M125SF	MSC125G/MSF
	M125SH	MSC125G/MSH
	M125SHTB	MSC125G/MSHTB
	M125SHDL	MSC125G/MSHDL
QUC 75G	M75SP	QUC75G/MSP
	M75SPTB	QUC75G/MSPTB
	M75SPDL	QUC75G/MSPDL
	M75SF	QUC75G/MSF
	M75SH	QUC75G/MSH
	M75SHTB	QUC75G/MSHTB
	M75SHDL	QUC75G/MSHDL

Wheel	Fork code	Castor code
QUC100G	M100SP	QUC100G/MSP
	M100SPTB	QUC100G/MSPTB
	M100SPDL	QUC100G/MSPDL
	M100SF	QUC100G/MSF
	M100SH	QUC100G/MSH
	M100SHTB	QUC100G/MSHTB
	M100SHDL	QUC100G/MSHDL
QUC125G	M125SP	QUC125G/MSP
	M125SPTB	QUC125G/MSPTB
	M125SPDL	QUC125G/MSPDL
	M125SF	QUC125G/MSF
	M125SH	QUC125G/MSH
	M125SHTB	QUC125G/MSHTB
	M125SHDL	QUC125G/MSHDL



Pictured: M Stainless steel castor with optional buffer cap (available separately).

O Stainless



Features

- 100% corrosive-free 304 grade stainless steel (SS) castors in plate or bolt hole configurations, with or without total brake or direction lock.
- Blue high resilience (hi-res) rubber, grey rubber, polyurethane (PU) or white nylon wheels.
- Chicago screw axle type 304.
- Fork and ball bearings type 304.
- Axle, bolt and nut type 304.
- Rivet and axle bush type 303.
- TB spring type 301 full hard.
- Reducing bush type 303.
- Option for regular nut and bolt or stainless steel Chicago screw.
- Made in Australia.

See page 47 for more information about chemical resistance.

Wheels



HBS*1 Blue hi-res rubber, SS roller bearing



HSS*1 Grey rubber, SS roller bearing, optional thread guard



HUS* PU, SS roller bearing





ONS...W* White nylon, SS roller bearing

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
HBS150	230	150 x 28	60 x 12.7	20
HBS200	250	200 x 28	60 x 12.7	20
HSS200	250	200 x 50	60 x 12.7	20
HUS100	400	100 x 40	60 x 12.7	20
HUS125	400	125 x 40	60 x 12.7	20
HUS150	450	150 × 40	60 x 12.7	20
HUS200	500	200 x 48	60 x 12.7	20
ONS100W	350	100 × 40	60 x 12.7	20
ONS125W	380	125 x 40	60 x 12.7	20
ONS150W	450	150 x 40	60 x 12.7	20
ONS200W	500	200 x 40	60 x 12.7	20

^{*} Wheels also available with plain bearings—HBA, HSA, HUA...S,

Forks







Plate with swivel and total brake



Plate with swivel and

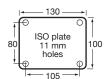
direction lock



Fixed plate

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
OSP/HSF ²	100	138	96
	125	162	109
	150	189	121
	200	239	152
OSPTB/OSPDL	100	138	140
	125	162	140
	150	189	140
	200	239	162

Fork mounts





² HSF-fixed plate has no turning radius.

¹ HBS, HSS wheels are not compatible with total brake fork.

³ North American plate. Add **N** to the end of fork code to purchase (eg. HBS150/OSPNTB).

Fork code	Castor code
O150SP	HBS150/OSP
H150SF	HBS150/HSF
O150SPDL	HBS150/OSPDL
O200SP	HBS200/OSP
H200SF	HBS200/HSF
O200SPDL	HBS200/OSPDL
O200SP	HSS200/OSP
H200SF	HSS200/HSF
O200SPDL	HSS200/OSPDL
O100SP	HUS100/OSP
H100SF	HUS100/HSF
O100SPTB	HUS100/OSPTB
O100SPDL	HUS100/OSPDL
O125SP	HUS125/OSP
H125SF	HUS125/HSF
O125SPTB	HUS125/OSPTB
O125SPDL	HUS125/OSPDL
O150SP	HUS150/OSP
H150SF	HUS150/HSF
O150SPTB	HUS150/OSPTB
O150SPDL	HUS150/OSPDL
O200SP	HUS200/OSP
H200SF	HUS200/HSF
O200SPTB	HUS200/OSPTB
O200SPDL	HUS200/OSPDL
	O150SP H150SF O150SPDL O200SP H200SF O200SPDL O200SP H200SF O200SPDL O100SP H100SF O100SPTB O100SPDL O125SP H125SF O125SPTB O125SPDL O150SP H150SF O150SPTB O150SPTB O150SPTB O150SPTB O150SPTB O150SPTB O150SPTB O150SPTB

Wheel	Fork code	Castor code
ONS 100W	O100SP	ONS100W/OSP
Diameter: 100 mm	H100SF	ONS100W/HSF
	O100SPTB	ONS100W/OSPTB
	O100SPDL	ONS100W/OSPDL
ONS 125W	O125SP	ONS125W/OSP
Diameter: 125 mm	H125SF	ONS125W/HSF
	O125SPTB	ONS125W/OSPTB
	O125SPDL	ONS125W/OSPDL
ONS 150W	O150SP	ONS150W/OSP
Diameter: 150 mm	H150SF	ONS150W/HSF
	O150SPTB	ONS150W/OSPTB
	O150SPDL	ONS150W/OSPDL
ONS 200W	O200SP	ONS200W/OSP
Diameter: 200 mm	H200SF	ONS200W/HSF
	O200SPTB	ONS200W/OSPTB
	O200SPDL	ONS200W/OSPDL



M Powder-coat



Features

- Powder-coated zinc plated bolt hole forks with or without total brake or direction lock in Interpon Anodic Natural Matte colour.
- M Series thermoplastic elastomer (TPE), white nylon, grey rubber, or polyurethane (PU) on polypropylene (PP) wheels with stainless steel (SS) bearings or stainless steel bushes.
- Resistant to corrosion from alkaline soaps and cleaning agents, making them suitable for shower chairs and similar applications.
- Twin ball race with stainless steel balls covered with a buffer (five sizes available) to lock out water.
- Stainless steel bottom race and brake rivet.
- Powder-coat colour Anodic Natural Matte.
- Medical Trinity™ red colourway pedal.
- Stainless steel screw (domed head axle).
- 1 year warranty in shower chair applications.
- 3 year warranty in general use (subject to conditions of use).
- Can be fitted with M12 pintle bolts with expanding adaptors or solid pintles.
- Made in Australia.

Wheels



MJC* TPE, SS precision bearing, thread quard



MNN...W White nylon, plain bearing



DNC White nylon, SS precision bearing



QTC1 Grey rubber, SS precision bearing,



Grey rubber, SS precision bearing, thread guard thread guard



QUC1 **MPH** PU on PP, Bolt hole SS precision swivel bearing, thread quard



Forks

MPHTB Bolt hole swivel and total brake



MPHDL Bolt hole swivel and direction lock

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
MJC125G	85	125 x 32	40 x 8	8
MNN125W	150	125 x 32	40 x 8	12
DNC125	200	125 x 32	40 x 8	8
QTC150G	150	150 x 34	40 × 8	8
QTC175G	150	175 x 34	40 x 8	8
MSC125G	150	125 x 34	40 x 8	8
QUC125G	200	125 x 32	40 x 8	8

Forks	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
MPH	125	161	103
	150	187	130
	175	214	145
MPHTB/ MPHDL	125	161	128
	150	187	153
	175	214	153

Fork mounts **Buffer options**





-BUF22: Suit -ER19 or -AR19 -BUF25: Suit -ER22 or -AR22 -BUF28: Suit-ER28 or -AR28 -BUF32: Suit 33 mm OD of

-BUF33.5: Suit 34 mm OD of hollow stem

Buffer caps are optional extras, available to purchase separately. See page 73 for more information.

Wheel code	Fork code	Castor code
DNC 125	M125PH	DNC125/MPH
	M125PHTB	DNC125/MPHTB
	M125PHDL	DNC125/MPHDL
MJC 125G	M125PH	MJC125G/MPH
	M125PHTB	MJC125G/MPHTB
	M125PHDL	MJC125G/MPHDL
MNN 125W	M125PH	MNN125W/MPH
	M125PHTB	MNN125W/MPHTB
	M125PHDL	MNN125W/MPHDL
MSC125G	M125PH	MSC125G/MPH
	M125PHTB	MSC125G/MPHTB
	M125PHDL	MSC125G/MPHDL
QTC 150G	M150PH	QTC150G/MPH
	M150PHTB	QTC150G/MPHTB
	M150PHDL	QTC150G/MPHDL
QTC 175G	M175PH	QTC175G/MPH
	M175PHTB	QTC175G/MPHTB
	M175PHDL	QTC175G/MPHDL
QUC125G	M125PH	QUC125G/MPH
	M125PHTB	QUC125G/MPHTB
	M125PHDL	QUC125G/MPHDL

^{*} Wheel also available in conductive—MAC, or plain bearing—MJA.

Wheels also available with plain bearings—QTA, MSA, QUA.

² Bushes available to reduce bolt hole to 8 and 10 mm (see page 69).

About high and low temperature castors

The normal temperature limit of our standard wheels and castors is 5°C to 60°C (41°F to 140°F). For applications outside these temperatures, please see below.

High temperature use

As temperatures increase, wheels become weaker, which lowers their load capacity and shortens their lifespan. It is important that you specify the temperature and type of application before ordering a castor, to ensure that the appropriate wheel type is selected. We make three different wheel types designed specifically for use in high temperature environments. These specialised wheels use standard lithium complex grease (STABUTHERM® GH 461) which has excellent water resistance (24 hrs at 90°C), bearing retention and long life.

Low temperature use

Below 5°C you must specify temperature of use at the time of ordering. The standard grease we use in our castors is a lithium complex grease (AERO SHELL7 GREASE MIL-PRF-23827C Type II 70149). This has excellent water resistance, bearing retention and long life. However below 5°C it begins to stiffen quickly, and will soon freeze the bearings so that neither the castor swivels nor the wheel bearings revolve. If specified at the time of ordering, we use a special aeronautical grease which is a synthetic oil with a microgel thickener. This is compounded for use down to -30°C, and will need to be refreshed every 6–12 months, but will continue to work effectively in chilling rooms, freezing stores and outdoor winter use in northern countries where ordinary greases would be useless.

As the temperature becomes lower, the softer rubber and polyurethane treads on our wheels become less elastic. For example, the polyurethane used on the 'H' series slowly stiffens from +20°C down to -20°C, but then rapidly stiffens until at -50°C, when it becomes brittle.

As temperature goes below 5°C, nylon can become brittle (particularly if it is kept for long periods in the very dry air in freezing rooms). At such times we recommend glass filled nylon reinforced wheels, which can be used down to -30°C.



Castors for applications such as baking trolleys and freezer carts need to specified to ensure that they perform optimally in these extreme conditions.

Wheel types

Glass filled nylon

The best choice for hospitality based applications such as 'food baking' ovens, glass filled nylon can withstand sustained high temperatures and is gentle and quiet on most floor surfaces. Fibreglass reinforced nylon wheels are the preferred wheel for extended periods of up to 210°C (assuming most of their life is spent outside the oven), and for short periods up to 230°C.

Phenolic

Phenolic is more brittle than glass filled nylon and it has a shorter life cycle but can go up to very high temperatures. Phenolic is a good choice for light duty industrial applications with very high temperatures such as ovens used for curing paint. The load capacity decreases from 125 kg at 100°C to 40 kg at 300°C therefore it is very important to ensure that the load capacity of the trolley fits within the appropriate temperature and load capacity. Phenolic wheels (with special inorganic fillers and PTFE bushes) are preferred for extended periods up to 280°C assuming most of their life is spent outside the oven and for short periods up to 300°C. These have a thick cross section, but are more brittle than either nylon or ordinary grades of phenolic. Please note that phenolic wheels are not suitable for medium duty applications or applications where wheels are subjected to impact such as when a trolley is rolled down steps.

Cast iro

The best choice for Industrial based applications such as 'paint curing' ovens and also for use in sustained high temperature environments, cast iron wheels can withstand extreme high temperatures as well as higher load capacities than all other wheel types. Cast iron wheels do not have bearings. They have a plain bore fitted with an axle spacer that is lubricated with high temperature grease. This grease can be used up to 230°C for long periods. For temperatures that exceed 230°C a more exotic grease is required. For sustained high temperature use, we offer a range of cast iron wheeled castors used with high temperature grease. Please note that cast iron is heavy, noisy and may damage concrete floors and other floor surfaces.

See page 54 for our range of high and low temperature castors.

Note: Grease nipples can be added to the wheel and fork using order codes SPGNIPPLEW (to add to the wheel) or SPGNIPPLEF (to add to the fork). High or low temperature grease can be added to stainless steel castors using spare part order codes: SPLOWTEMPGREASE or SPHTEMPGREASE.

High & low temperature castors



Features

- Available with high temperature resistant phenolic, or cast iron wheels, and freeze resistant glass reinforced nylon.
- Swivel, fixed plate or bolt hole zinc plated Core Coat[™] forks.
- Core Coat™ lacquer provides best quality corrosion protection, with no white or red rust after 150 hours of salt spray testing.
- Specialised castor and fork grease depending on application.
- Made in Australia.

Detailed information about high and low temperature castors, including typical applications are available on page 53.

M Series wheels



MHH
Glass reinforced
nylon, lighter hub,
plain bearing



MKT
High temperature phenolic, plain bearing



Cast iron, plain bearing

Wheel	Max load at temperature	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
MHH75*	70 kg at 150°C	75 x 32	41 x 8	12
MHH100*	80 kg at 150°C 70 kg at 180°C 60 kg at 210°C 50 kg at 230°C*	100 x 32	41 x 8	12
MKT100	125 kg at 100°C 100 kg at 250°C 40 kg at 300°C	100 x 35	41 x 8	12
DCI75	100 kg at 400°C	75 x 28	41 x 8	12

M Series forks







Fixed plate²
T High temp—MZFHT
Low temp—MZF



Bolt hole swivel
High temp—MZHHT
Low temp—MZHLT

Fork	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
MZPHT/MZPLT MZFHT/MZF ³ MZHHT/MZHLT	75	106	71
	100	135	91

^{*} MHH wheel should be exposed to this temperature for short periods only.

J Series wheels



Glass reinforced nylon, heavy hub, plain bearing



Cast iron, plain bearing

Wheel	Max load at temperature	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
JHH100	100 kg at 150°C 90 kg at 180°C 80 kg at 210°C 60 kg at 230°C*	100 x 32	45 x 10	20
JCI100	230 kg at 400°C	100 x 38	45 x 10	20

J Series forks



Plate with swivel
High temp—JZPHT
Low temp—JZPLT



Fixed plate
High temp—JZFHT
Low temp—JZF



Bolt hole swivel High temp—JZHHT Low temp—JZHLT

Fork	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
JZPHT/JZPLT JMZFHT/JZF ¹ JZHHT/JZHLT	100	129	90

- * JHH wheel should be exposed to this temperature for short periods only.
- ¹ Fixed plate has no turning radius.

Please note

- High temperature castors cannot be supplied with brakes.
- LT = Low temperature (below 5°C).
- HT = High temperature (above 60°C).

¹ Also available with North American plate with swivel— MZPNHT. MZPNLT.

² Also available with North American fixed plate – MZFNHT, MZFN.

³ Fixed plate has no turning radius.

O Series wheels



ОНН Glass reinforced nylon, heavy hub, plain bearing



WCI Cast iron, plain bearing

Wheel	Max load at temperature	Diameter x tread (mm)	Hub x bore (mm)	Bore-no bush (mm)
OHH150	200 kg at 210°C	150 × 40	60 x 12.7	20
WCI150	250 kg at 400°C	150 x 50	60 x 12.7	20

O Series forks



Plate with swivel* High temp-OZPHT Low temp-OZPLT



Fixed plate1 High temp—HZFHT Low temp-HZF

Fork	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
OZPHT/OZPLT HZFHT/HZF ²	150	189	121

^{*} Also available with North American plate with swivel— OZPNHT, OZPNLT.

1 Also available with North American fixed plate—HZFNHT, HZFN.

2 Fixed plate has no turning radius

M Series wheels	Fork code	Castor code
DCI75	M75ZPHT	DCI75/MZPHT
High temp	M75ZPNHT	DCI75/MZPNHT
	M75ZFHT	DCI75/MZFHT
	M75ZFNHT	DCI75/MZFNHT
	M75ZHHT	DCI75/MZHHT
MHH 75	M75ZPHT	MHH75/MZPHT
High temp	M75ZPNHT	MHH75/MZPNHT
	M75ZFHT	MHH75/MZFHT
	M75ZFNHT	MHH75/MZFNHT
	M75ZHHT	MHH75/MZHHT
MHH 100	M100ZPHT	MHH100/MZPHT
High temp	M100ZPNHT	MHH100/MZPNHT
	M100ZFHT	MHH100/MZFHT
	M100ZFNHT	MHH100/MZFNHT
	M100ZHHT	MHH100/MZHHT
MHH 100	M100ZPLT	MHH100/MZPLT
Low temp	M100ZPNLT	MHH100/MZPNLT
	M100ZF	MHH100/MZF
	M100ZFN	MHH100/MZFN
	M100ZHLT	MHH100/MZHLT
MKT 100	M100ZPHT	MKT100/MZPHT
High temp	M100ZPNHT	MKT100/MZPNHT
	M100ZFHT	MKT100/MZFHT
	M100ZFNHT	MKT100/MZFNHT
	M100ZHHT	MKT100/MZHHT
J Series wheels	Fork code	Castor code
JCI 100	J100ZPHT	JCI100/JZPHT
High temp	J100ZFHT	JCI100/JZFHT
	J100ZHHT	JCI100/JZHHT
JCI 100	J100ZPLT	JCI100/JZPLT
Low temp	J100ZF	JCI100/JZF
	J100ZHLT	JCI100/JZHLT

J Series wheels	Fork code	Castor code
JHH 100	J100ZPHT	JHH100/JZPHT
High temp	J100ZFHT	JHH100/JZFHT
	J100ZHHT	JHH100/JZHHT
JHH 100	J100ZPLT	JHH100/JZPLT
Low temp	J100ZF	JHH100/JZF
	J100ZHLT	JHH100/JZHLT
O Series wheels	Fork code	Castor code
OHH 150	O150ZPHT	OHH150/OZPHT
High temp	O150ZPNHT	OHH150/OZPNHT
	H150ZFHT	OHH150/HZFHT
	H150ZFNHT	OHH150/HZFNHT
OHH 150	O150ZPLT	OHH150/OZPLT
Low temp	O150ZPNLT	OHH150/OZPNLT
	H150ZF	OHH150/HZF
	H150ZFN	OHH150/HZFN
WCI150	O150ZPHT	WCI150/OZPHT
High temp	O150ZPNHT	WCI150/OZPNHT
	H150ZFHT	WCI150/HZFHT
	H150ZFNHT	WCI150/HZFNHT
WCI 150	O150ZPLT	WCI150/OZPLT
Low temp	O150ZPNLT	WCI150/OZPNLT
	H150ZF	WCI150/HZF
	H150ZFN	WCI150/HZFN

Self-aligning castors

Available with a selection of wheels from the M, Big M and O Series, with stainless steel (SS) or zinc* forks, self-aligning castors are available with swivel plate or total brake configurations.

For carts that require narrower castors, self-aligning castors can also be made in a special ultra-slim M Series with a 61.5 mm barrel width. Contact a sales representative for more details.

Self-aligning castors are not a stocked item due to highly variable demand. Manufactured to order.

Features

- Suitable for Automated Guided Vehicle (AGV) carts.
- Stainless steel or zinc plated Core Coat[™] forks.
- Wide selection of wheels from M, Big M and O Series.
- Available with or without total brake.
- Made in Australia.



Forks

Forks				
M/Big M Serie	s	Wheel diameter (mm)	Height (mm)	Turning radius (mm)
1	MSPSA (SS)9	125	161	103
5	MZPSA (Zinc) Plate with swivel	150	187	130
The	MSPTBSA (SS with	125	161	128
3	total brake) ⁹ MZPTBSA (Zinc with total brake)	150	187	153
T	MSF (SS)	125	161	-
	MZF (Zinc)	150	187	-
	Fixed plate			
Ta	MZHSA** (Zinc)	125	161	128
	Bolt hole swivel	150	187	153
-	MZHTBSA** (Zinc	125	161	128
0	with total brake)		187	153
O Series ⁵		Wheel diameter (mm)	Height (mm)	Turning radius (mm)
TE	OSPSA (SS)	125	162	109
	OZPSA (Zinc*)	150	189	121
	Plate with swivel	200	239	152
The	OSPTBSA (SS with	125	162	140
1.00	total brake)	150	189	140
OZPTBSA (Zinc with total brake*)		200	239	162

150

200

189

239

HSF (SS) HZF (Zinc*)

Fixed plate

Wheel compatibility

M Series ¹	Max load (kg)	O Series	Max load (kg)
MJQ 125G	85	HBS 150 ³	230
CBQ 125G	100	HBS200 ³	250
STQ 125G	100	HSR 200 ³	250
MBQ 125G	150	HUR 150 ³	450
MNN 125	150	HUR 200	500
MSQ 125G	150	OBQ 125 ⁴	350
DNQ 125G	200	OBQ 150 ⁴	400
QUQ 125G	200	OBQ 200 ⁴	400
Big M Series ²		ONR 125	400
QTQ 150G	200	ONR 150	450
		ONR 200	500

- * Minimum order quantity of 200 pieces for O Series zinc Core Coat[™] castors.
- ** Any pintle bolt used to install a bolt hole self-aligning castor must have a bolt head thickness of less than or equal to 4.6 mm (ea. SPM12X65THINHEAD).
- ¹ See page 14 for more information on compatible 125 mm M Series wheels.
- ² See page 17 for more information on Big M Series wheels.
- ³ For optional thread guards, add **G** to the end of wheel code.
- ⁴ Also available with SS precision bearing—OBC125, OBC150, OBC200.
- ⁵ See page 22 for more information on O Series wheels.
- ⁶ See page 157 for M and Big M Series ISO and NA fork mount plate diagrams.
- ⁷ Also available in SS—MSPSA, MSPTBSA, MSF.
- See page 157 for O Series ISO and NA fork mount plate diagrams. Also available in zinc Core Coat™ – OZPSA, HZF, OZPTBSA.
 MSPSA, MSPTBSA are not available in 150 mm stainless
- MSPSA, MSPTBSA are not available in 150 mm stainless steel forks.

M Series wheels	Fork code	Castor code
CBQ 125G	M125SPSA ⁷	CBQ125G/MSPSA ⁷
	M125SPTBSA7	CBQ125G/MSPTBSA7
	M125SF7	CBQ125G/MSF ⁷
	M125ZHSA	CBQ125G/MZHSA
	M125ZHTBSA	CBQ125G/MZHTBSA
DNQ 125	M125SPSA ⁷	DNQ125/MSPSA7
	M125SPTBSA ⁷	DNQ125/MSPTBSA7
	M125SF7	DNQ125/MSF ⁷
	M125ZHSA	DNQ125/MZHSA
	M125ZHTBSA	DNQ125/MZHTBSA
MBQ 125G	M125SPSA7	MBQ125G/MSPSA ⁷
	M125SPTBSA7	MBQ125G/MSPTBSA7
	M125SF7	MBQ125G/MSF ⁷
	M125ZHSA	MBQ125G/MZHSA
	M125ZHTBSA	MBQ125G/MZHTBSA
MJQ 125G	M125SPSA ⁷	MJQ125G/MSPSA7
	M125SPTBSA7	MJQ125G/MSPTBSA7
	M125SF7	MJQ125G/MSF ⁷
	M125ZHSA	MJQ125G/MZHSA
	M125ZHTBSA	MJQ125G/MZHTBSA
MNN 125	M125SPSA ⁷	MNN125/MSPSA ⁷
	M125SPTBSA ⁷	MNN125/MSPTBSA7
	M125SF7	MNN125/MSF ⁷
	M125ZHSA	MNN125G/MZHSA
	M125ZHTBSA	MNN125G/MZHTBSA
MSQ 125G	M125SPSA ⁷	MSQ125G/MSPSA7
	M125SPTBSA ⁷	MSQ125G/MSPTBSA7
	M125SF7	MSQ125G/MSF ⁷
	M125ZHSA	MSQ125G/MZHSA
	M125ZHTBSA	MSQ125G/MZHTBSA

M Series wheels	Fork code	Castor code
QUQ 125G	M125SPSA ⁷	QUQ125G/MSPSA ⁷
	M125SPTBSA ⁷	QUQ125G/MSPTBSA ⁷
	M125SF ⁷	QUQ125G/MSF ⁷
	M125ZHSA	QUQ125G/MZHSA
	M125ZHTBSA	QUQ125G/MZHTBSA
STQ 125G	M125SPSA ⁷	STQ125G/MSPSA ⁷
	M125SPTBSA ⁷	STQ125G/MSPTBSA ⁷
	M125SF ⁷	STQ125G/MSF ⁷
	M125ZHSA	STQ125G/MZHSA
	M125ZHTBSA	STQ125G/MZHTBSA
Big M Series wheel	Fork code	Castor code
QTQ 150G	M150ZPSA	QTQ150G/MZPSA ⁶
	M150ZPTBSA	QTQ150G/MZPTBSA ⁶
	M150ZF	QTQ150G/MZF ⁶
	M150ZHSA	QTQ150G/MZHSA
	M150ZHTBSA	QTQ150G/MZHTBSA
O Series wheels	Fork code	Castor code
O Series wheels HBS150	Fork code O150SPSA ⁸	Castor code HBS150/OSPSA ⁸
	O150SPSA ⁸	HBS150/OSPSA ⁸
	O150SPSA ⁸ O150SPTBSA ⁸	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸
HBS 150	O150SPSA ⁸ O150SPTBSA ⁸ H150SF ⁸	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸
HBS 150	O150SPSA ⁸ O150SPTBSA ⁸ H150SF ⁸ O200SPSA ⁸	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸ HBS200/OSPSA ⁸
HBS 150	O150SPSA ⁸ O150SPTBSA ⁸ H150SF ⁸ O200SPSA ⁸ O200SPTBSA ⁸	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸ HBS200/OSPSA ⁸ HBS200/OSPTBSA ⁸
HBS150	O150SPSA ⁸ O150SPTBSA ⁸ H150SF ⁸ O200SPSA ⁸ O200SPTBSA ⁸ H200SF ⁸	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸ HBS200/OSPSA ⁸ HBS200/OSPTBSA ⁸ HBS200/HSF ⁸
HBS150	O150SPSA ⁸ O150SPTBSA ⁸ H150SF ⁸ O200SPSA ⁸ O200SPTBSA ⁸ H200SF ⁸ O200SPSA ⁸	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸ HBS200/OSPSA ⁸ HBS200/OSPTBSA ⁸ HBS200/HSF ⁸ HSR200/OSPSA ⁸
HBS150	O150SPSA8 O150SPTBSA8 H150SF8 O200SPSA8 O200SPTBSA8 H200SF8 O200SPSA8 O200SPSA8	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸ HBS200/OSPSA ⁸ HBS200/OSPTBSA ⁸ HBS200/HSF ⁸ HSR200/OSPSA ⁸ HSR200/OSPSA ⁸
HBS200	O150SPSA8 O150SPTBSA8 H150SF8 O200SPSA8 O200SPTBSA8 H200SF8 O200SPSA8 O200SPTBSA8 H200SF8	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸ HBS200/OSPSA ⁸ HBS200/OSPTBSA ⁸ HBS200/HSF ⁸ HSR200/OSPSA ⁸ HSR200/OSPSA ⁸ HSR200/OSPSA ⁸ HSR200/OSPTBSA ⁸
HBS200	O150SPSA8 O150SPTBSA8 H150SF8 O200SPSA8 O200SPTBSA8 H200SF8 O200SPSA8 O200SPTBSA8 H200SF8 O150SPSA8	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸ HBS200/OSPSA ⁸ HBS200/OSPTBSA ⁸ HBS200/HSF ⁸ HSR200/OSPSA ⁸ HSR200/OSPTBSA ⁸ HSR200/OSPTBSA ⁸ HSR200/OSPTBSA ⁸ HSR200/HSF ⁸ HUR150/OSPSA ⁸
HBS200	O150SPSA8 O150SPTBSA8 H150SF8 O200SPSA8 O200SPTBSA8 H200SF8 O200SPSA8 O200SPTBSA8 H200SF8 O150SPSA8 O150SPSA8	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸ HBS200/OSPSA ⁸ HBS200/OSPTBSA ⁸ HBS200/OSPTBSA ⁸ HSR200/OSPSA ⁸ HSR200/OSPTBSA ⁸ HSR200/OSPTBSA ⁸ HSR200/OSPTBSA ⁸ HUR150/OSPSA ⁸ HUR150/OSPSA ⁸
HBS150 HBS200 HSR200 HUR150	O150SPSA8 O150SPTBSA8 H150SF8 O200SPSA8 O200SPTBSA8 H200SF8 O200SPTBSA8 O200SPTBSA8 O200SPTBSA8 H200SF8 O150SPSA8 O150SPTBSA8 H150SF8	HBS150/OSPSA ⁸ HBS150/OSPTBSA ⁸ HBS150/HSF ⁸ HBS200/OSPSA ⁸ HBS200/OSPTBSA ⁸ HBS200/OSPTBSA ⁸ HSR200/OSPSA ⁸ HSR200/OSPSA ⁸ HSR200/OSPTBSA ⁸ HSR200/HSF ⁸ HUR150/OSPSA ⁸ HUR150/OSPSA ⁸ HUR150/OSPTBSA ⁸ HUR150/OSPTBSA ⁸

O Series wheels	Fork code	Castor code
OBQ 125 ⁴	O125SPSA	OBQ125/OSPSA ⁸
	O125SPTBSA	OBQ125/OSPTBSA8
	H125SF	OBQ125/HSF ⁸
OBQ 150 ⁴	O150SPSA	OBQ150/OSPSA8
	O150SPTBSA	OBQ150/OSPTBSA8
	H150SF	OBQ150/HSF8
OBQ 200 ⁴	O200SPSA	OBQ200/OSPSA8
	O200SPTBSA	OBQ200/OSPTBSA8
	H200SF	OBQ200/HSF8
ONR 125	O125SPSA	ONR125/OSPSA ⁸
	O125SPTBSA	ONR125/OSPTBSA8
	H125SF	ONR125/HSF8
ONR 150	O150SPSA	ONR150/OSPSA8
	O150SPTBSA	ONR150/OSPTBSA8
	H150SF	ONR150/HSF8
ONR 200	O200SPSA	ONR200/OSPSA8
	O200SPTBSA	ONR200/OSPTBSA8
	H200SF	ONR200/HSF8

Supermarket NEW trolley and travelator castors



Features

- Supplied in kits or individual components.
- UV stabilized to prevent fading and embrittlement outdoors.
- Non-standard colours available under minimal order quantity.
- Supermarket trolley components are made-to-order (non-stock items).
- Made in Australia.

Travelator trolleys must brake securely when traversing up and down steep travelators.

If only one brake leg is installed on travelator castors then trolleys may not brake securely, resulting in a runaway trolley that

can cause injury or death. In busy commercial environments such as supermarkets and department stores, the risk of injury or death is even greater.

For this reason, Fallshaw mandate the use of two walkway brake legs per travelator castor to achieve reliable, secure braking and safety.



Wheels



SPQ125GRBL²

Black and red high-strength PU on nylon, precision bearing, buffer cap



STQ125G

Grey rubber, round profile, precision bearing, thread guard



MSQ125G

Grey rubber, flat profile, precision bearing, thread guard

Forks



MZP Swivel plate



MZHBolt hole swivel



MZF Fixed plate



SZQBolt hole swivel, precision bearing in head race



SZC Bolt hole swivel

Accessories



SMBLRED²
Walk-way brake leg



SMBUFRED²
Castor buffer cap

Specifications

Wheel	Max load (kg)	Diameter x tread (mm)	Hub x bore (mm)
SPQ125GRBL	60	125 x 32	40 x 8
STQ125G	100	125 x 32	40 x 8
MSQ125G	150	125 x 34	40 x 8

Fork	Wheel size (mm)	Mount height (mm)	Turning radius (mm)
MZP	125	161	103
MZH	125	161	103
MZF	125	161	N/A
SZQ	125	161	103
SZC	125	161	103

Wheel code	Fork code	Castor code
MSQ125G	M125ZP	MSQ125G/MZP
	M125ZH	MSQ125G/MZH
	M125ZF	MSQ125G/MZF
SPQ125GRBL	S125ZQ	SPQ125GRBL/SZQ*
	S125ZC	SPQ125GRBL/SZC*
STQ125G	M125ZP	STQ125G/MZP
	M125ZH	STQ125G/MZH
	M125ZF	STQ125G/MZF

- ¹ Wheel also available with plain bearing—MSA.
- * For travelator castors, add SMBLRED x2 per castor for the walk-way brake leg.
- ² Also available in non-standard colours with a minimum order quantity of 500 pcs, including: Wheels—grey (SPQ125GGRY) or blue & white (SPQ125GBWH); Walk-way brake legs—grey (SMBLGRY) or blue (SMBLBLU); Castor buffer caps—grey (SMBUFGRY); or blue (SMBUFBLU).





Wheels

Soft wheels

• Grey rubber, blue rubber, black rubber and conductive.

Polyurethane wheels

Hard wheels

• Nylon and pallet truck wheels/rollers.

Pneumatics and puncture-proof

Puncture-proof, steel centred and plastic centred wheels.

Soft wheels

Grey r	ubber	Diameter x tread (mm)
	KSA	65 x 23
	Grey rubber, flat profile, plain bearing	75 x 23
		100 x 23
	PSA/PSB	200 x 32
0	Grey rubber, non-marking, white polypropylene (PP) offset wheel, plain bearing (PSA) or deep groove ball bearing (PSB). Developed for floor polishers and scrubbers. PSA also available to suit 5/8" bore (58).	
	STQ	75 x 32
	Grey rubber, round profile, precision	100 x 32
	bearing, thread guard	125 x 32
	QTQ	150 x 34
	Grey rubber, round profile, precision bearing, thread guard	175 x 34
0	HSR Grey rubber, roller bearing, thread guard available (HSR200G)	200 x 50

Blue rubber		Diameter x tread (mm)
	CBQ	75 x 33
	Blue high-resilient elastomer, precision	100 x 33
	bearing, thread guard	125 x 33
	MBQ	100 x 32
0	Blue high-resilient rubber, non-marking, long life, precision ball bearing, thread guard	125 x 32
	JBR	100 x 32
	Blue high-resilient rubber, non-marking, long life, roller bearing	125 x 32
6	HBR	150 x 28
	Blue high-resilient rubber, non-marking, long life, roller bearing	200 x 28

Blue ru	ubber	Diameter x tread (mm)
	OBQ	100 x 50
(0)	Blue high-resilient rubber, non-marking,	125 x 50
	long life, precision ball bearing	150 x 50
	_	200 x 50
Black	rubber	Diameter x tread (mm)
	PRB*	125 x 36
(0)	General purpose rubber utility wheel for	150 x 36
	lawn equipment and carts, deep groove ball bearing and offset centre	200 x 36
	PRP250	250 x 50
(3)	General purpose rubber utility wheel, used on light lawn equipment and carts, plain bearing	
	U200/60C	200 x 60
	Medium duty hand truck wheels, deep groove ball bearing, high-impact polypropylene centre, 20 mm bore (-POYB20) or 3/4" bore (-POYB34)	
	R250/50C ¹	250 x 50
	Puncture proof for wheelbarrows and utility equipment, precision ball bearing. Available in 20 mm bore (-PRYQ20), 3/4" bore (-PRYQ34) or (-PRYQ58)	
	R300/50C ¹	300 x 50
	Puncture proof for wheelbarrows and utility equipment, precision ball bearing. Available in 20 mm bore (-PRYQ20) or 3/4" bore (-PRYQ34)	
	R400/70C ¹	400 × 70
	Puncture proof for wheelbarrows and utility equipment, precision ball bearing. Available in 20 mm bore (-PRYQ20), 3/4" bore (-PRYQ34), or 1" bore (PRYQ25)	
	R250/75C ²	250 x 75
	Puncture proof for wheelbarrows and utility equipment, precision ball bearing. Available in 20 mm bore (-PRWQ20), 25 mm bore (-PRWQ25), 3/4" bore (-PRWQ34), or 5/8" bore (-PRWQ58)	

Black ı	rubber	Diameter x tread (mm)
	HRR200 ²	200 x 50
	Black rubber wheel with roller bearing, for trolleys, carts and lawn mowers. Thread guard available (HRR200G)	
	RB200L	200 x 45
	Solid black rubber wheel, with roller bearing, for wheelbarrows, utility equipment and waste bins	
	RPL200(DTR)	200 x 50
	Offset recycled rubber wheel—the industry standard for wheelie bins commonly used in the waste industry.	
	Includes a spring-loaded detent pin to easily install and secure the wheels.	
	R280/70R	280 x 70
	Puncture proof solid cushioned wheel, with deep groove ball bearings in sizes 1" (-SRBB10), 20 mm (-SRBB20), 3/4" (-SRBB34) or 5/8" (-SRBB58). With precision ball bearings in sizes 20 mm (-SRQ20), 3/4" (-SRQ34) or 5/8" (-SRQ58)	
	R400X8-SQ10	400 x 95
	Heavy duty wheel, designed for towing, precision ball bearing. Max tow speed—15 km/h	

Conductive wheels (See page 44)

	Max load (kg)	Hub x bore (mm)	Bore-no bush (mm)
Grey rubber			
KSA65, KSA75, KSA100	50	30 X 12	8
PSA200	80	38 x 12.7	12.7
PSA200(58)	80	38 x 16	16
PSB200	80	38 x 12.7	12.7
STQ75G, STQ100G, STQ125G	100	40 x 8	8
QTQ150G, QTQ175G, QTQ200G	200	40 × 8	8
HSR200, HSR200G	250	60 x 12.7	20

	Max load (kg)	Hub x bore (mm)	Bore-no bush (mm)
Blue rubber			
CBQ75G	85	40 x 8	8
CBQ100G, CBQ125G	100	40 x 8	8
MBQ100G	140	40 x 8	8
MBQ125G	150	40 x 8	8
JBR100	150	45 x 10	20
JBR125	180	45 x 10	20
HBR150	230	60 x 12.7	20
HBR200	250	60 x 12.7	20
OBQ100	300	60 x 12.7	20
OBQ125	350	60 x 12.7	20
OBQ150, OBQ200	400	60 x 12.7	20
Black rubber			
PRB125	50	38 x 12.7	12.7
PRB150	75	38 x 12.7	12.7
PRB200	100	38 x 12.7	12.7
PRP250	100	45 x 16	16
U200/60C-POYB20	135	60 x 20	20
U200/60C-POYB34	135	60 x 19	19
R250/50C-PRYQ20	150	60 x 20	20
R300/50C-PRYQ20	150	60 x 20	20
R400/70C-PRYQ20	150	80 x 20	20
R250/75C-PRWQ20	180	75 x 20	20
HRR200, HRR200G	180	60 x 12.7	20
RB200L	200	53 x 25.4	25.4
RPL200(DTR)	100	100 x 20	20
R280/70R-SRBB10	200	60 x 25.4	25.4
R400X8-SQ10	600	80 x 25.4	25.4

Polyurethane

		Diameter x tread (mm)
	KUQ*	75 x 23
0	PU, precision bearing, optional thread guard	100 x 23
0	QUQ ¹	75 x 32
	PU tyre on nylon, precision bearing,	100 x 32
	thread guard	125 x 32
	JUR*	100 x 32
0	PU, roller bearing, optional thread guard	125 x 38
	HUR	100 x 40
	PU on nylon, roller bearing	125 x 40
		150 x 40
		200 x 48
	HUS*	100 x 32
0	PU on nylon, stainless steel roller	125 x 40
	bearing, no thread guard	150 x 40
		200 x 48
	WUQ	150 x 40
0	PU, precision bearing, no thread guard	200 x 40
	XUQ	102 x 50
	PU on cast iron, precision bearing, no	127 × 50
	thread guard	152 x 50
		203 x 50
0	VUQ	203 x 75
	PU on cast iron, precision bearing, no thread guard	254 x 75
	AUQ	200 x 102
	PU on cast iron, precision bearing, no thread guard	250 x 102

	Max load (kg)	Hub x bore (mm)	Bore-no bush (mm)
KUQ75, KUQ75G	100	30 x 8	8
KUQ100, KUQ100G	100	30 x 8	8
QUQ75G	200	40 x 8	8
QUQ100G	200	40 x 8	8
QUQ125G	200	40 x 8	8
JUR100, JUR100G	300	45 x 10	20
JUR125, JUR125G	300	45 x 10	20
HUR100	400	60 x 12.7	20
HUR125	400	60 x 12.7	20
HUR150	450	60 x 12.7	20
HUR200	500	60 x 12.7	20
HUS100	400	60 x 12.7	20
HUS125	400	60 x 12.7	20
HUS150	450	60 x 12.7	20
HUS200	500	60 x 12.7	20
WUQ150	600	60 x 12.7	20
WUQ200	600	60 x 12.7	20
XUQ100	600	62 x 12.7	20
XUQ125	800	62 x 12.7	20
XUQ150	1000	62 x 12.7	20
XUQ200	1000	62 x 12.7	20
VUQ200	2000	89 x 20	30
VUQ250	2000	89 x 20	30
AUQ200	3000	109 x 30	30
AUQ250	3500	109 x 30	30

^{*} Also available with plain bearing—PRA

1 5/8" and 3/4" precision ball bearing or plain bush available.

2 20 mm, 5/8", 3/4" deep groove ball bearing, or 5/8", 3/4" plain bush available.

^{*} Also available with plain bearing—KUA, JUA, HUA

1 Also available with plain bearing (QUA) and stainless steel bearing (QUC).

² 5/8" and 3/4" precision ball bearing or plain bush available.

Hard wheels

Nylon		Diameter x tread (mm)
0	LNN Hard nylon, plain bearing, no thread guard	50 x 20
	KNN	65 x 23
	Hard nylon, plain bearing,	75 x 23
	no thread guard	100 x 23
0	DNQ Hard nylon, precision bearing, no thread guard	125 x 32
•	DNQW White hard nylon, precision bearing, no thread guard	125 x 32
	MNN	75 x 32
	Hard nylon, plain bearing, no thread guard	100 x 32
		125 x 32
	MNNW	75 x 32
	White hard nylon, plain bearing, no	100 x 32
	thread guard	125 x 32
	JNR	100 x 35
	Hard nylon, roller bearing, optional thread guard	125 x 35
	ONA	100 x 40
(\bullet)	Hard nylon, plain bearing, no thread guard	125 x 40
		150 x 40
		200 x 40
	ONR	100 x 40
	Hard nylon, roller bearing, no thread guard	125 x 40
	_	150 x 40
	_	200 x 40
	WNQ	150 x 40
	Hard nylon, precision bearing, no thread guard	200 x 40

Pallet	truck wheels	Diameter x tread (mm)
0	PLN Nylon, available in 20 mm (Q20), 25 mm (Q25) and 3/4" (Q34) precision bearings, or no bearing (NB)	200 x 48
0	PLU Polyurethane, available in 20 mm (Q20), 25 mm (Q25) and 3/4" (Q34) precision bearings, or no bearing (NB)	200 x 48
Pallet	truck rollers	Diameter x tread (mm)
	PLN	82 x 83

82 x 100

Nylon, available in 20 mm (Q20), 25 mm (Q25) and 3/4" (Q34) precision bearings, or no bearing (NB)

Nylon	Max load (kg)	Hub x bore (mm)	Bore-no bush (mm)
LNN50	30	25 x 6	6
KNN65	50	30 x 8	12
KNN75	65	30 × 8	12
KNN100	70	30 x 8	12
MNN75, MNN75W	150	40 x 8	12
MNN100, MNN100W	150	40 x 8	12
MNN125, MNN125W	150	40 x 8	12
DNQ125, DNQ125W	200	40 x 8	8
JNR100, JNR125	300	45 x 10	20
ONA100	400	60 x 12.7	20
ONA125	400	60 x 12.7	20
ONA150	450	60 x 12.7	20
ONA200	500	60 x 12.7	20
ONR100	400	60 x 12.7	20
ONR125	400	60 x 12.7	20
ONR150	450	60 x 12.7	20
ONR200	500	60 x 12.7	20

Nylon	Max load (kg)	Hub x bore (mm)	Bore-no bush (mm)
WNQ150, WNQ200	600	60 x 12.7	20
Pallet truck wheels			
PLN200X48Q20	700	48 x 20	20
PLN200X48Q25	700	48 x 25	25
PLN200X48Q34	700	48 x 19	19
PLN200X48NB	700	48 x n/a	-
PLU200X48Q20	700	48 x 20	20
PLU200X48Q25	700	48 x 25	25
PLU200X48Q34	700	48 x 19	19
PLU200X48NB	700	48 x n/a	-
Pallet truck rollers			
PLN82X83Q20	800	83 x 20	20
PLN82X83Q25	800	83 x 25	25
PLN82X83Q34	800	83 x 19	19
PLN82X83NB	800	83 x n/a	-
PLN82X100Q20	800	100 x 20	20
PLN82X100Q25	800	100 x 25	25
PLN82X100Q34	800	100 x 19	19
PLN82X100NB	800	100 x n/a	-



Pneumatics and puncture-proof



Wheels

Puncture-proof wheels

Our premium Australian made polyurethane foam-filled tyres provide the greatest performance and reliability. The foam filling provides a light-weight bouncy performance, similar to air-filling, but without the risk of flat tyres.

These wheels boast 4 ply long life tyres, fitted to two piece wobble-free steel centres that are manufactured from thick 1.8 mm steel, unlike cheaper imports with 2 ply tyres and rims made from thin 0.6 mm steel.

Steel centred wheels

Designed for strength and performance, our wobble-free steel centred wheels boast 4 ply tyres, rims manufactured from 1.8 mm steel—with the 650 x 8 manufactured from 2 mm steel, and supplied with premium butyl rubber seamless (butt-joined) tubes.

Plastic centred wheels

Our plastic centred wheels are designed with thicker UV protected polypropylene sections in a multi-web design, making them stronger than most imported steel centres.

Combined with our standard 4 ply tyres and premium butt-joined tubes, these wheels offer excellent performance in wet and corrosive environments.

Maximum load capacities

Each wheel can carry the recommended load capacity at walking pace—8 km/h. If you are intending to tow your load, it is recommended that you do not use wheels with plastic centred rims, or exceed 15 km/h while carrying half the recommended load capacity.

Maximum inflation

Do NOT inflate over recommended tyre inflation pressure (30 psi)

Do NOT allow tyre pressure to drop below 20 psi or wheel may deflate and become very difficult to re-inflate. If you allow the tyre to go flat and you are unable to re-inflate it then you may need to buy an inner tube to be retro fitted to the wheel (see page 71 for spare parts).

Use of pneumatic wheels other than as recommended can be dangerous.

Nominal wheel size

Our code structure for pneumatics follows an internationally recognised convention that describes:

Tyre width (in inches) x rim diameter (in inches, measured from where the bead wire within the tyre sits on the rim).

So, for example a nominal wheel size of:

- 250x4 has a tyre width of approx 2.5 inches, on a 4 inch rim.
- 350x4 has a tyre width of approx 3.5 inches, on a 4 inch rim.
- 400x8 has a tyre width of approx 4.0 inches, on an 8 inch rim.

These sizes are nominal only. For more precise dimensions, refer to the diameter \boldsymbol{x} tread width listed alongside other specifications.

Tread options



RIB Straight lines, grey non-marking rubber. Common for wheelchairs and light duty trolleys that need a softer ride.



General purpose, outside use. Strongly marked cross lines on a fairly flat tread surface. Good for running in a straight line.



LGG Use LGG code for grey non-marking rubber where available.



IND The normal industrial type tread, a round profile with an even pattern.



DMD Chunky diamond or star shaped pads



on a flatter surface. Often used in rougher construction sites. Good for softer grass surfaces but may become clogged with mud.



KNO This knobbly pattern is often preferred for outdoor use, good for gravel or uneven terrain.



HWY Designed to have a higher load rating for industrial work sites.



GRA A wide tread, designed specifically with ride-on mowers and associated equipment in

mind. Will traverse virtually any surface they come across.

See page 71 for spare parts.

4.00 Section (4")

3.00 Section (3")

2.50 Section (2½")

The bigger the section, the easier the ride.



Puncture-proof wheels

Features

- Puncture-proof 4 ply long life tyres.
- Available in thick 1.8 mm thick steel rims.
- Fitted with heavy duty deep groove shielded bearings (SB) or precision bearings (SQ).

Puncture-proof tyres

Polyurethane foam-filled tyres are the premium 'pneumatic' (or puncture-proof) wheel option. The wheels are puncture-proof and provide the greatest performance and reliability. Puncture-proof tyres are fitted to two piece wobble-free steel centres. Manufactured from 1.8 mm steel*.

Bearings

'Deep Groove' shielded bearings¹ fitted to a toughened heavy duty housing enables true running and extra strength.

Tyres

4 ply for longer, rougher life (many imports use 2 ply).

For wheels pulled or pushed at low speeds (not driven) the tread pattern is not critical. The following are standard, other patterns can be offered by negotiation.

Tread	Type	Diameter x tread (mm)	Hub x bore (mm)		acity at speed EXCEED Max load (kg) at 15 km/h	Order code	Rim and I	pearing code
RIB (non-marking	200 x 50	200 x 50	60 x 12.7	50	Not suitable	P200X50RIB	- SQ 05	1/2"
			60 x 20				-SB20	20 mm
	250 x 4	220 x 54	60 x 19	- 75	40	P250X4LUG	-SB34	3/4"
	230 X 4	220 X 34	60 x 16	_	40		-SB58	5/8"
LUG			60 x 15				-SQ15	15 mm
			60 x 25.4				-SB10	1"
	250 x 6	275 x 65	60 x 20	90	50	P250X6IND	-SB20	20 mm
	250 X 0	213 x 05	60 x 19	90	50	PZSOAOIND	-SB34	3/4"
IND			60 x 16				-SB58	5/8"
The above			60 x 20				-SB20	20 mm
	350 x 4	265 x 70	60 x 19	100	70	P350X4STR	-SB34	3/4"
	330 X 4	203 X 70	60 x 16	100	70	P330A431N	-SB58	5/8"
STR			60 x 15				-SQ15	15 mm
			80 x 25.4				-SB10	1"
法	400 v 0	400 × 100	84 x 20	100	90	P400X8KNO	-SB20	20 mm
MacM	400 x 8	400 x 100	84 x 19	120	90	P4UUABNNU	-SB34	3/4"
KNO			84 x 16				-SB58	5/8"

^{*} Some of the cheaper centres on the market are manufactured from steel as thin as 0.6 mm.

Deep groove bearings can last up to three times longer than normal pressed bearings.



Pneumatics



Steel centred wheels

Features

- Strong 1.8 mm steel rims (2 mm rims for 650 x 8).
- 4 ply long life tyres (6 ply for HWY tread).
- Fitted with heavy duty deep groove shielded bearings (SB).

Steel centred pneumatics

Welded one piece strong wobble-free wheels. Centres up to and including the 500×6 are manufactured from 1.8 mm steel^2 , and the 650×8 is of 2 mm thick steel².

Bearings

'Deep Groove' shielded bearings³ fitted to a toughened heavy duty housing gives true running and extra strength.

Tyres

4 ply (6 ply on HWY tread) for longer, rougher life (many imports use 2 ply).

For wheels pulled or pushed at low speeds (not driven) the tread pattern is not critical. The following are standard.

Tubes

Tubes are high quality butyl rubber seamless (butt-joined) for premium ride quality, high load capacity and long life.

Maximum Inflation

For information on maximum tyre inflation, please see page 63.

Tread	Type	Diameter x tread (mm)	Hub x bore (mm)	DO NOT	ecity at speed	Order code	Rim and b	earing code
				at 8 km/h	Max load (kg) at 15 km/h			
			60 x 20				-SB20	20 mm
	250 x 4	220 x 54	60 x 19	120	100	250X4LUG*	-SB34	3/4"
LUG			60 x 16				-SB58	5/8"
4555			60 x 20				-SB20	20 mm
	300 x 4	250 x 70	60 x 19	140	110	300X4DMD*	-SB34	3/4"
DMD			60 x 16				-SB58	5/8"
252565		_	60 x 20	_			-SB20	20 mm
	350 x 4	265 x 70	60 x 19	180	160	350X4STR*	-SB34	3/4"
STR			60 x 16				-SB58	5/8"
			60 x 25.4				-SB10	1"
	250 x 6	07E v 0E	60 x 20	140	110	OFOVCIND1	-SB20	20 mm
IND	250 X 6	275 x 65	60 x 19	140	110	250X6IND	-SB34	3/4"
			60 x 16				-SB58	5/8"
			60 x 25.4				-SB10	1"
经建筑	350 x 6	50 x 6 320 x 80	60 x 20	200	180	250V6KNO1	-SB20	20 mm
KNO	330 X 0	320 X 80	60 x 19	_	160	250X6IND ¹ 350X6KNO ¹ 400X8HWY ¹	-SB34	3/4"
KNO			60 x 16				-SB58	5/8"
在李 本本		_	84 x 25.4	_			-SB10	1"
《美養養	400 x 8	400 × 100	84 x 20	360	340	400V0LIM/V1	-SB20	20 mm
HWY	400 X 0	400 X 100	84 x 19	_	340	40000000	-SB34	3/4"
			84 x 16				-SB58	5/8"
			84 x 25.4				-SB10	1"
	400 x 8	400 x 100	84 x 20	220	200	400X8KNO ¹	-SB20	20 mm
KNO	400 X 6	400 X 100	84 x 19	_	200	40000000	-SB34	3/4"
KNO			84 x 16				-SB58	5/8"
		_	84 x 25.4				-SB10	1"
	500 x 6	330 x 125	84 x 20	220	200	500X6GRA ¹	-SB20	20 mm
GRA	300 X 0	330 X 123	84 x 19	_	200	JUUNUGHA	-SB34	3/4"
- GITA			84 x 16				-SB58	5/8"
		_	150 x 25.4				-SB10	1"
	650 x 8	420 x 165	150 x 20	230	200	GEOVOC DA1	-SB20	20 mm
GRA	000 X 8	420 X 100	150 x 19		∠00	650X8GRA ¹	-SB34	3/4"
GNA			150 x 16				-SB58	5/8"
4								

¹ Also available with precision bearings: 20 mm (**-SQ20**), 25 mm (**-SQ25**), 3/4" (**-SQ34**), 5/8" (**-SQ58**) and 1" (**-SQ10**).

Many cheaper centres on the market are manufactured from steel as thin as 0.6 mm.
 Deep groove bearings can last up to 3 times longer than normal pressed bearings.

^{*} Also available with 15 mm precision bearings. Add **-SQ15** to the end of code.



Plastic centred wheels

Features

- UV protected and corrosion resistant polypropylene rims.
- Available with heavy duty deep groove shielded bearings (B), or plain bearings (A). RIB tread available with roller bearings (PR) or precision bearings (PQ).
- Made in Australia.

Plastic centred pneumatics with butyl rubber seamless tubes

- Thick sections, large radii, multi-web design for strength (stronger than most imported steel centres).
- Corrosion resistant polypropylene with UV fade protection.
- High engineering standards for wobble-free wheels.
- High quality butyl rubber seamless (butt-joined) tubes.

Bearings

'Deep Groove' shielded bearings² fitted to a toughened heavy duty housing gives true running and extra strength.

4 ply (6 ply on HWY tread) for longer, rougher life (many imports use 2 ply).

For wheels pulled or pushed at low speeds (not driven) the tread pattern is not critical. The following are standard, other patterns can be offered by negotiation.

Tubes

Tubes are high quality butyl rubber seamless (butt-joined) for premium ride quality, high load capacity and long life.

Order codes

Tread	Style	Diameter x tread (mm)	Hub x bore (mm)		city at speed EXCEED	Order code	Rim and be	earing code
				Max load (kg) at 8 km/h	Max load (kg) at 15 km/h			
			60 x 20				-PR20	20 mm
RIB (non-marking)	200 x 50	200 x 50	60 x 12	75	Not suitable	200X50RIB	-PQ12	12 mm
			60 x 20				-PWB20	20 mm
	250 x 4	220 x 54	60 x 19	100	Not suitable	250X4LUG*	-PWB34	3/4"
LUG		-	60 x 16	_			-PWB58	5/8"
			60 x 20				-PWB20	20 mm
	250 x 4	220 x 54	60 x 19	_ _ 100	Not suitable	250X4LGG*	-PWB34	3/4"
LGG (non-marking)		220 X 34	60 x 16		NOT SUITABLE	250X4LGG	-PWB58	5/8"
		_	60 x 20				-PWB20	20 mm
	250 x 6	275 x 60	60 x 19	110	Not suitable	250X6IND*	-PWB34	3/4"
IND			60 x 16				-PWB58	5/8"
45834		_	60 x 20				-PWB20	20 mm
	300 x 4	250 x 70	60 x 19	120	Not suitable	300X4DMD*	-PWB34	3/4"
DMD			60 x 16				-PWB58	5/8"
25052			60 x 20				-PWB20	20 mm
	350 x 4	265 x 70	60 x 19	140	Not suitable	350X4STR*	-PWB34	3/4"
STR			60 x 16				-PWB58	5/8"
在			60 x 20				-PWB20	20 mm
	350 x 6	320 x 80	60 x 19	140	Not suitable	350X6KNO*	-PWB34	3/4"
KNO			60 x 16				-PWB58	5/8"
		_	105 x 25.4				-PWB10	1"
建筑	400 x 8	400 x 100	105 x 20	200	Not suitable	400X8KNO ¹	-PWB20	20 mm
KNO	400 X O	400 X 100	105 x 19		INOL SUILADIE	HUNOKINU	-PWB34	3/4"
			105 x 16				-PWB58	5/8"

Maximum Inflation

For information on maximum tyre inflation. please see page 63.

Pneumatics

^{*} Also available with plain bearings, indicated with an A, eg. 250X4LUG-PWA20.

¹ Also available with 1" plain bearing.

² Deep groove bearings can last up to three times longer than normal pressed bearings.



Fittings and spares

Fittings

• For 10 mm and 12 mm bolt hole castors.

Installing expanding adaptors

Spares

• For pneumatic and general wheels.

General spares

Fittings For 10 mm and 12 mm bolt hole castors

Grip-neck pintle adaptors

	Shape	Material	Adaptor size (mm)	Suits tube (ID) internal diameter (mm)	Suits tube (OD) outside diameter (mm)	Suits wall thickness (mm)	Order code
	Round	Nylon	11	10.9	12.7	0.9	S11
100	Round	Nylon	14	13.6	16.0	1.2	S14
	Round	Nylon	17	16.6	19.0	1.2	S17
11111	Square	Nylon	17	16.6	19.0 SQ	1.2	S17SQ
	Round	Nylon	19	19.0	22.2	1.6	S19
	Round	Nylon	23	23.0	25.4	1.2	S23
	Square	Nylon	23	23.0	25.4 SQ	1.6	S23SQ

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Long thread	ded tube ends (fo	or use with ca	stors)				
	Suits external tube size (mm)	Suits internal tube size (mm)	Internal thread diameter (mm)	Internal thread length (mm)	Knock-in length (mm)	Max load (kg)	Order code
Square tube en	ds with internal zinc p	lated mild steel th	read (suits SPM10	X60SETZ set scre	w-ordered sepa	arately)	
	19	15–16	M10	24	22.5	50	AFLTS19/M10
STATE OF	40	36–37	M10	24	39	500	AFLTS40/M10
8	40	36–37	M12	24	39	500	AFLTS40/M12
	51	47–48	M16	31	39	750	AFLTS51/M16
Square tube en	ds with internal nylon	thread (suits SPM	10X60SETZ set sci	ew-ordered sepa	rately)		
	25	22–23	M10	24	39	250	AFLTPS25/M10
	25	22–23	M12	24	39	250	AFLTPS25/M12
	32	28–29	M10	24	39	350	AFLTPS32/M10
1	32	28–29	M12	24	39	350	AFLTPS32/M12
	38	35–36	M10	24	41	500	AFLTPS38/M10
	38	35–36	M12	24	41	500	AFLTPS38/M12
	38	35–36	M16	31	42	500	AFLTPS38/M16
	51	47–48	M10	24	39	750	AFLTPS51/M10
	51	47–48	M12	24	39	750	AFLTPS51/M12
Round tube end	ds with mild steel thre	ad (suits SPM10X6	0SETZ set screw-	ordered separatel	y)		
	25	22–23	M10	24	39	100	AFLTR25/M10
	25	22–23	M12	24	39	100	AFLTR25/M12
214	32	28–29	M10	24	39	250	AFLTR32/M10
	32	28–29	M12	24	39	250	AFLTR32/M12
	38	35–36	M10	24	41	300	AFLTR38/M10
	38	35–36	M12	24	41	300	AFLTR38/M12

M12

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450

AFLTR51/M12

M10 Pintle bolts and M10 threaded tube ends

	Thread x length	Order code
	M10 x 30 mm	SPM10X30ZP
18	M10 x 40 mm	SPM10X40ZP
	M10 x 50 mm	SPM10X50ZP
	3/8" x 19 mm	SP3/8X19ZP
	3/8" x 30 mm	SP3/8X30ZP
	3/8" x 40 mm	SP3/8X40ZP
	3/8" x 50 mm	SP3/8X50ZP
Set screw	M10 x 60 mm	SPM10X60SETZ
	Description	Order code
3	M10 Nyloc nut.	SPM10NYLOCNUT

Grip-neck pintles (fits L, K & M series)

	Description	Order code
1	For L series, M10 grip-neck pintles are supplied loose to be retro-fitted. Pintle size: 8 mm OD x 39 mm long.	SP-GN
	For K & M series, M12 grip-neck pintles are supplied loose to be retro-fitted. Pintle size: 8 mm OD x 39 mm long.	SP-GNKM
	For K & M series, friction stem pintles are supplied loose to be retro-fitted to Rubbermaid carts. Pintle size: 11 mm OD x 36.5 mm long. Suits 12.7 mm bolt hole castors.	SP- GNKMRM
	Adaptor to suit Rubbermaid pintle SP-GNKMRM. Size: 15 mm OD x 42 mm.	SP- ADAPGN KMRM

3/8" fittings

0,0 110	go	
	Description	Order code
	Drill a 12.7 mm hole through the base and fit this down from the top, and screw the castor up into it through a washer. Internal thread 3/8".	38WTEE
3	The base must be 3 mm thick, or washers of at least 25.4 mm OD used on both side to spread the load.	38WNUT
	Fits horizontal 1" x 1.6 square tube. Holds a 3/8" Whit nut in position 32 mm along a horizontal tube.	ENDPLUG25

For 12 mm bolt hole castors

Solid nylon pintles

	Description	Stem OD	Tube size (OD x wall)	Cross drill (distance from end		Order code
63	GENERAL CASTORS	22 mm round	25 x 1.6 mm	Diameter	19 x 6 mm	-AR22N
00.00	Includes 2 x inset nuts,	28 mm round	32 x 1.6 mm		19 x 8 mm	-AR28N
50000	2 x washers, 2 x coach bolts,			Distance	19 x 6 mm	-AFR22N
	1 x M12 x 60 bolt, 1 x M12 Nyloc nut			5	19 x 8 mm	-AFR28N

Solid steel pintles

	Stem OD	Length (mm)	Tube size (OD x wall)	Cross drill hole (distance from end x diameter)		Order code
(190)	19 mm round	48	22 x 1.2 mm	Diameter	19 x 8 mm	-AR19Z
	22 mm round	48	25 x 1.6 mm	Distance	19 x 8 mm	-AR22Z
1	-AR19 with adaptor 22 mm square	48	25 x 1.6 mm SQ		19 x 8 mm	-AS22Z
	28 mm round	48	32 x 1.6 mm	5	19 x 8 mm	-AR28Z

Square threaded tube ends (suits tubing >28 mm)

	Order code (includes M12 x 75 mm set screw, zinc plated)	Order code (includes M12 x 75 mm set screw, stainless steel)	Order code (spare part excluding set screw)	Suits tube size (mm)
	-TTESQ25Z	-TTESQ25S	SP-TTESQ25	25 x 25 square (1.6–2.5 wall)
110	-TTESQ32Z	-TTESQ32S	SP-TTESQ32	32 x 32 square (1.6-2.5 wall)
	-TTESQ38Z	-TTESQ38S	SP-TTESQ38	38 x 38 square (1.6-2.5 wall)
	-TTESQ50Z	-TTESQ50S	SP-TTESQ50	50 x 50 square (1.6-2.5 wall)

Order codes for set screws: SPM12X75SETZ (zinc plated), SPM12X75SETS (stainless steel).

Reducing bushes

Description	Order code
Convert 12 mm bolt hole to 10 mm	SPRB1/2-10
Convert 12 mm bolt hole to 8 mm	SPRB1/2-8



Pintle set screws

	Thread x length				
	M12 x 81 mm—standard	-ESETZ			
	M12 x 65 mm-stainless steel	-ESETSS			
	M12 x 35 mm	-E12x35SETZ			
	M12 x 40 mm	-E12x40SETZ			
	M12 x 45 mm	-E12x45SETZ			
	M12 x 50 mm	-E12x50SETZ			
	M12 x 55 mm	-E12x55SETZ			
	M12 x 65 mm	-E12x65SETZ			
	1/2" UNF x 1 ¹ /8"	-E1/2x30SETZ			
	1/2" UNF x 1 ⁹ / ₁₆ "	-E1/2x40SETZ			
	1/2" UNF x 2"	-E1/2x50SETZ			
Set screw— stainless steel	M12 x 40 mm	SPM12X40STSS			
-	M16 x 40 mm	-PTLM16x40(12)			
M16	(Adapts J, K and M series castors from 12 mm to 16 mm)	Order code includes pintle and nut			
	Description	Order code			
3	M12 Nyloc nut	SPM12NYLOCNUT			
	M12 Nyloc nut-stainless steel	SPM12NYLOCSS			
-					

Expanding adaptors (suits tubing <28 mm)

Shape	Material	Size (mm)	Tube size ID range	Mild steel bolt	Stainless steel bolt
Round	Nylon	19	18.5–21.0	-ER19	-ER19SS
Round	Nylon	22	21.5–24.0	-ER22	-ER22SS
Round	Nylon	28	25.0-28.0	-ER28	-ER28SS
Square	Nylon	19	18.5–21.0	-ES19	-ES19SS
Square	Nylon	22	21.5–24.0	-ES22	-ES22SS
Square	Nylon	28	25.0–28.0	-ES28	-ES28SS

Note: To order the pintle, and two-piece expanding adaptor (cone and expanding tube) as an unassembled spare part, use the code structure following the pattern in this example: SP-ER19.

If you just want the two piece expanding adaptor, without the pintle, as a spare part then add 'ADAP' to the code structure, for example: SP-ADAPER19.

If you want the pintle and expanding adaptor fitted to the castor, then drop the 'SP', for example: -ER19.

Installing expanding adaptors

Expanding adaptors are rated to a dynamic load rating of 300 kg per castor in applications up to 1.1 m/s (4 km/h) as per Standard AS1961.7-2004. ISO 22883:2004, subject to:

- Wheel diameter being no more than 150 mm.
- Tube thickness (of bed leg) being greater than or equal to 1.4 mm.
- Expanding adaptors being used with Fallshaw's pintle bolts— M12x80 (mild steel) or M12x65SS (stainless steel)—which have very specific geometry mechanical properties.
- Being installed as per the fitting instructions below: Torque of 25-30N/m resulting in bellowing (expansion) of between 1.0 – 1.5 mm.



Rubber expander

Round or square.

Available in 19, 22

and 28 mm.

Nylon expander

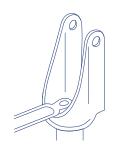
- Round or square.
- Available in 19, 22 and 28 mm.
- Available in white, grey or black.

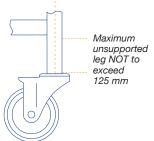
Instructions

- 1. Remove the wheel.
- Insert the bolt up through the castor bolt hole. A bolt with 13 mm across flats (A/F) hex is provided with castors.
- Insert the cone into the tapered end of the sleeve, making sure fins on the cone lock into the downward opening slots.
- Place the cone/sleeve on the bolt and screw down until the base of the sleeve just touches the centre bolt hole rivet on the castor.
- 5. You can replace the wheel now, or after the castor is attached to the trolley.

Note: Due to the greater offset, expanding adaptors are not recommended for use on 175 or 200 mm castors. If you do use expanding adaptors on these larger sizes be sure to fit a bolt 18 mm A/F hex (and branded M8.8).

- 6. If a weld bead is present inside the tube, align one of the slots in the adaptor sleeve with the bead. Try the fit of the cone/sleeve with the bead, it should be a neat sliding fit. If not screw the cone/sleeve down a little and try again. Repeat this process until it is a neat fit. (Note: Sleeve pictured.)
- Insert the adaptor fully onto the tube, and then line up the notches of the expanding fitting with the slots on the castor rivet.





8. Put slight sideways pressure on the castor to help the fittings grip, then tighten the pintle up firmly to 'three finger tightness' ie the amount of torque you can get onto a standard spanner using your three middle fingers (25-30N/m). On round tubing some bellowing between 0.5 to 1.0 mm will occur, while on square tubing the bellowing is 1.0 to 1.5 mm, and can be used as an indication as to whether you have achieved the correct amount of torque.

Warning: Over tightening could split the tube (dangerous), and distort the fittings making them difficult to reuse. However, if you under tighten the fittings they will not grip the tube sufficiently and the castor may drop out (also dangerous).

Use the right amount of torque, 'three finger' tightness, and use the sign of bellowing as a guide.

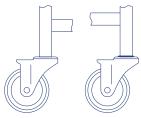
If you haven't already done so, you can now assemble the wheel to the castor.

Maintenance

- You should retighten the adaptors after three months of use, then every 12 months after that. Remember the 'three finger' rule, ie. the amount of torque you can get onto a standard spanner using your three middle fingers (25-30N/m).
- To remove the castor, loosen the bolt, and then tap the head. This will drive the cone up out of the sleeve, and then the castor can be easily removed from the tube.
- A small amount of crushing of the cone is normal and proper (it prevents the bolt unscrewing unintentionally). The cone can be reused if not damaged. If damaged by excessive tightening the cone should be replaced. If the sleeve has been damaged, it also must be replaced.

Warped trolleys

You can compensate for a warped trolley by adding up to 8 mm in washers, or by using a similar piece of tubing to that of the trolley.



Order codes: Expanding adaptors

Shape	Adaptor colour	Size (mm)	Tube size ID range (mm)	Nylon adaptor code	Rubber adaptor code
Round	White	19	18.5–21.0	SP-ADAPER19	
Square	White	19	18.5–21.0	SP-ADAPES19	
Round	Grey	22	21.5–24.0	SP-ADAPER22	-ER22R
Square	Grey	22	21.5–24.0	SP-ADAPES22	-ES22R
Round	Black	28	25.0-30.0	SP-ADAPER28	
Square	Black	28	25.0-30.0	SP-ADAPES28	

Spares

For pneumatics and general wheels

Tubes—butyl rubber seamless



Description	Order code
Tube pneumatic 200 x 50	SPTUBE200X50
Tube pneumatic 250 x 4	SPTUBE250X4
Tube pneumatic 300 x 4 or 350 x 4	SPTUBE300/350X4
Tube pneumatic 250 x 6	SPTUBE250X6
Tube pneumatic 350 x 6	SPTUBE350X6
Tube pneumatic 500 x 6	SPTUBE500X6
Tube pneumatic 400 x 8	SPTUBE400X8
Tube pneumatic 650 x 8	SPTUBE650X8

Pneumatic tyres



Description	Order code
200 x 50 RIB tread	SPTYRE200X50RIB
250 x 4 LUG tread	SPTYRE250X4LUG
250 x 4 LGG tread	SPTYRE250X4LGG
250 x 6 IND tread	SPTYRE250X6IND
300 x 4 DMD tread	SPTYRE300X4DMD
350 x 4 STR tread	SPTYRE350X4STR
350 x 6 KNO tread	SPTYRE350X6KNO
400 x 8 KNO tread	SPTYRE400X8KNO
400 x 8 HWY tread	SPTYRE400X8HWY
500 x 6 GRA tread	SPTYRE500X6GRA
650 x 8 GRA tread	SPTYRE650X8GRA

Bearings



Description	Order code
B—Deep gooove ball bearings:	
12.7 mm ID	SPBRGC05
25.4 mm ID	SPBRGC10
20 mm ID	SPBRGC20
19 mm ID	SPBRGC34
15.9 mm ID	SPBRGC58
Q-Precision ball bearings:	

W-Frecision ball bearings.	
#608 15.9 mm ID	SPBRGQ6004X58
#6205 2RS suits CFQ wheelchair, 8 mm ID	SPBRGQ6082RS
12 mm bore (suitable for pneumatics)	SPBRGQ6205X01
#6004 20 mm	SPBRGQ6004X20
#6004 19 mm ID	SPBRGQ6004X34
#6005 25 mm ID	SPBRGQ6005X25
With seals #6202 2RS, 15 mm ID	SPBRGQ6202X15
#6204 2RS, 20 mm ID	SPBRGQ6204X20
25.4 mm ID for 400 x 8 pneumatic	SPBRGQPNEU10

Plastic rims



Description	Order code
200 x 50: suits 200 x 50 with roller bearing	SPRIM200X50PRNE
200 x 50: suits 200 x 50 with precision bearing	SPRIM200X50PQNE
4 x 175: suits 250/300/350 x 4, no bearing	SPRIM4X175PW(NB
6 x 200: suits 250/350 x 6, no bearing	SPRIM6X200PW(NB
8 x 250: suits 400 x 8, no bearing	SPRIM8X250PW(NB

Housing and reducing bushes



Description	Order code

Housing:	
Housing (nylon) for a #6004 Q ball bearing	SPHOUSING6004
Housing (nylon) flanged to suit a #6004 Q ball bearing	SPHOUSING6004FLG
Housing (nylon) flanged to suit a #6204 Q ball bearing	SPHOUSING6204

Reducing bushes:	
Flanged (grey nylon) 25.4 to 20 mm ID, 20 mm L—Grey	SPBSH10-20
Flanged (black nylon) 25.4 to 19 mm ID Flange, 20 mm L	SPBSH10-34
Flanged (black nylon) 25.4 to 15.9 mm ID Flange, 20 mm L	SPBSH10-58
Flanged (nylon) to suit 15.9 mm deep groove ball bearing (SPBRGC58), 15.9 to 12.7 mm	SPRB58-1/2
Plastic: 1 to suit 400x8 pneumatic wheels (8 x 250 rims)	SPBSH400X8PWP10
Plastic: 20mm to suit 400 x 8 pneumatic wheels (8 x 250 rims)	SPBSH400X8PWP20
Plastic: 3/4 inch to suit 400 x 8 pneumatic wheels (8 x 250 rims) x	SPBSH400X8PWP34
Plastic: 5/8 inch to suit 400 x 8 pneumatic wheels (8 x 250 rims)	SPBSH400X8PWP58

General spares



Description	Order code
Axle to suit VHD X Series (bolt & nut)	SPAXLEX
Axle to suit VHD V Series (bolt & nut)	SPAXLEV
Axle to suit CFQ wheelchair castors zinc plated bolt & nut	SPAXLECFQ
Axle to suit M Series, stainless steel (bolt & nut)	SPAXLEMSSBOLT
Axle to suit H Series (bolt & nut)	SPAXLEH
Axle to suit Y Series pneumatics (bolt & nut)	SPAXLEHPNEU
Axle to suit H Series, stainless steel (bolt & nut)	SPAXLEHSS
Axle to suit J Series (bolt & nut)	SPAXLEJ
Axle to suit K Series (bolt & nut)	SPAXLEK
Axle to suit M Series (bolt & nut)	SPAXLEM
Axle to suit M Series, mild steel (Chicago screw)	SPAXLEMCHICAGO
Axle to suit M Stainless Steel (Chicago screw)	SPAXLEMSSCHICAGO
Axle to suit O Series forks (bolt & nut)	SPAXLEO
M8X12 cup head bolt	SPBOLTM8CUPHEAD
M8X1.25 pitch conelock nut	SPNUTM8CONE
Axle to suit K Series (Chicago screw)	SPAXLEKCHICAGO



Spacers



Allen key set

Description	Order code
5 mm Allen key set to suit Chicago screw axles used in K and M Series	SPALLENKEY5

Bearings and bushes



Description	Order code
R—Roller bearing for H Series, 20 mm ID, stainless steel	SPBRGH20SS
B—Deep groove 12.7 mm for PRB (also suits GPBO)	SPBRGPRB05
Q-Precision bearing for M Series 608	SPBRGMQ608ZZ
Q—Precision bearing for M Series 608, stainless steel	SPBRGMQ608ZZSS
Q—Precision bearing for K series 608, twin seal	SPBRGKQ608NG
R-Roller bearing for J series, 20 mm ID	SPBRGJC20
R-Roller bearing for H Series, 20 mm ID	SPBRGR20
R-Roller bearing for J Series, 20 mm ID, stainless steel	SPBRGR20JSS
Sleeve for H Series roller bearing	SPBRGR20SLEEVE
R-Roller bearing, 19 mm bore for H, R and N Series	SPBRGR34

Grease nipples



Description	Order code
Grease nipples (to add to a wheel)	SPGNIPPLEW
Grease nipples (to add to a fork)	SPGNIPPLEF

Thread guards (set of 2)



Thread guard set—KSP75	SPTGDKSP75Z
Thread guard set—KJA75	TGDKJ75GRY
Thread guard set-KUQ100	SPTGDKUQ100SET
Thread guard set—MSQ	SPTGDMSQSET
Thread guard set—MNN75	SPTGDMNN75SET
Thread guard set—MNN100	SPTGDMNN100SET
Thread guard set—JUR100	SPTGDJUR100
Thread guard set—JUR125	SPTGDJU125SET
Thread guard set—JBA100/125	SPTGDJB100
Thread guard set—HB & HS 200	SPTGDHB200SET
Thread guard set—HU 200	SPTGDHU200SET
Thread guard set—PR Wheels	SPTGDGHUBCAP

Buffers – D section (hollow)

Normally placed around the edges of the

damage to door jambs. These are fitted

by pushing a (off-cut) metal strip along

the centre of the section and screwing

through into the side of the trolley. The

head of the screw will pop through the

outer rubber leaving a small hole. If the

strip is to be fitted on a rounded corner,

this should be of at least 50 mm radius to



Order code

D25SPOOL

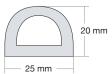
trolley (between corner buffers) to prevent Length per spool: 80 m

D25BAG

Length per bag: 8 m

D25CUT

Length: 1 m



prevent buckling of the strip.

Description

D25SPOOL, D25BAG and D25CUT

Plates

Description



Description	Order code
H & O ISO top plate raw	SPPLATEHISORAW
H & O NA top plate raw	SPPLATEHNARAW
Flat spacer plate 96 mm x 78 mm	SPPLATEMISO
Flat spacer plate 96 mm x 78 mm—	SPPLATEMISOSS

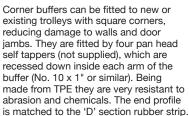
Buffers—corner

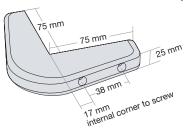


Order code

CB8025

Description





Buffers-leg



Description

ROUND TPE

These are used to prevent damage to corridor walls. The buffers are placed onto tubular legs just before the castors. When a trolley approaches a wall the buffers make contact first and freely revolves on the tubing, thus rolling the trolley along the wall so it causes no damage.

In the case of 25.4 mm square tubing the urethane buffers are supplied with a 32 mm hole, together with a 'dress-cap' with a 25.4 mm square inner and a 32 mm round outer.

Order code

BJ100X25

Suit 25.4 mm round tubing OD

BJ100X32

Suit 32 mm round tubing OD

BJ100X25SQ

Suit 25.4 mm square tubing

BJ125X25

Suit 25.4 mm round tubing OD

BJ125X32

Suit 32 mm round tubing OD

BJ125X25SQ

Suit 25.4 mm square tubing

BJDC25

Black dress cap to suit 25.4 mm square tubing OD

Buffers—caps



Description

Buffer caps are suitable for bolt hole castors used in wet areas.

They are designed to lock out water and prevent corrosion by protecting the castor's twin ball race and its stainless steel balls.

Available in five sizes.

Order code

-BUF22: Suit -ER19 or -AR19

-BUF25: Suit -ER22 or -AR22

-BUF28: Suit -ER28 or -AR28

-BUF32: Suit 33 mm OD of hollow stem

-BUF33.5: Suit 34 mm OD of hollow stem







Electrodrive Powered mobility equipment

Designing and manufacturing powered materials handling equipment since 1987, our range of pedestrian operated powered tugs and movers have been proven to be the safest way to work with heavy trolleys, carts and equipment within and around your facility. We all know that pushing or pulling a heavy load increases the risk of back and shoulder injuries. Using a tug or mover reduces the risk by doing all the heavy work for you. And unlike driving a forklift, the risk of collision with other people or objects is eliminated because the operator has a clear view of what's ahead.

Unlike the competition, our range of tugs and movers are ergonomically designed, allowing your body to move forward with the load in a natural walking position. With intelligently designed tiller handles and controller grips on our tugs and movers, paired with powerful motors that can tow up to 10 tonnes, you're always in control, and you can use them all day long without risk of strain on your back or shoulders.

So whether you're working with planes, trains, automobiles or hospital beds, we will have a powered solution for you.

Choosing the right tug or mover

Determine the weight and incline of the load being moved

The nominal towing capacity of our tugs relates to the weight that can be pulled on a flat surface (with a friction coefficient of 0.5 such as dry concrete or bitumen).

The practical rule of thumb to determine which tug is right for your application is to get the pull force (in kilograms) required to start your load moving (on the worst case surface of your application) and divide it by 0.04. This will give you the pulling power required.

$$\frac{Pull force (kg)}{0.04} = Pulling power (kg)$$

So, for example, if it takes 30 kg of pull force to get your trolley moving on your intended surface, divide this by 0.04 to identify the pulling power required of 750 kg, meaning that you will need a tug that can pull more than the Tug Compact (500 kg), and would need the power of a Tug Axis 1T, which will exceed your pull force comfortably.

Another way of thinking about this is that for every 1T of load to be pulled, the force to pull it will increase by 40 kg.

Measuring the pull force required to start the load moving can be done with a weight scale—of the type used to weigh produce at the green grocers, or the more modern digital luggage scales such as those shown in the photos above.

It is important to measure the pull force required on the worst case of your application. Perhaps a linen cart will need to follow a route that includes the flat internal hospital passageways on carpet, as well as an outside bitumen area with a 6 degree slope. Make sure you measure the worst case scenario—in this example, the outside inclined area when wet (to simulate the added slipperiness that occurs when raining).

A final 'top tip'

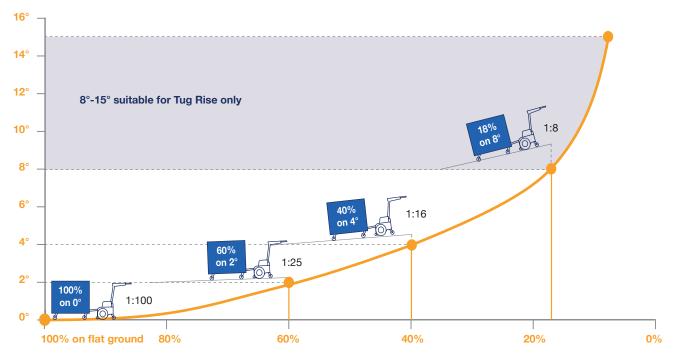
Measuring the incline can be done with a smart phone app. Go to your app store and search for 'measure incline' or 'measure slope' or 'spirit level' and you'll have many options to choose from for both Apple and Android smart phones.

Angle of slope Typical applications

0–2°	Flat surface.
2–8°	Mild slope (eg. typical driveway).
8–11°	Moderate slope (eg. basement ramp or loading dock ramp).
11–14°	Severe slope (eg. car park ramps under high rise buildings).



Angle of slope (degrees)



Pulling power (% of load rating)

2 Determine whether it will be used in confined or open spaces

Please use the following guide to help determine the suitability for your application.

Please note: A 'confined space' refers to a small space with a single doorway (standard width of 820 mm).

	Suit	able for confined spaces
n j	Tug Compact	Nimble and tiny. Smallest footprint and turning circle. Passes through a single doorway with ease. Excellent for moving stock trolleys inside and outside.
	Tug Axis 1T and 2T	Tug Axis 1T and 2T models can fit through small office doorways with ease if the item being towed can follow it. Always lock the turret when not towing loads.
	Tug Axis 4T and 5T	Tug Axis 4T will fit through a single doorway on slow speed and with its turret locked to allow it to be parked at the end of the day, but the Tug Axis 5T is slightly wider.
E.	Gzunda bed movers	Excellent for indoor applications, lifts and most confined spaces. The machine does not drive laterally so it needs about 2x2m to pivot in a circle when not attached to a hospital bed.
1	Gzunda Linen Mover	Excellent for indoor applications and most confined spaces. Its tiller arm can be folded to reduce length by a further 500 mm so it can be manoeuvred around corridors and parked easily.
-	Transpak powered trolley	Ideal for moving meal delivery systems or multiple boxes through corridors. Fits through single doorways in slow speed for easy charging or storage.
Suitable for open spaces		
	Tug Rise 1T	Large, high-traction forklift wheels make the Tug Rise a bit wider than the others (as it is designed for steep carpark ramps) so it won't fit through standard doorways.
	Tug Tough 10T	Perfect for moving loads weighing between 4-10 tonnes in open spaces. Can go through a single doorway for storage or charging.

Determine if the load will have existing hitch points

Tug hitches to suit the most popular trolleys





Pin hitch Auto-latching hitch

Hitches that adapt to different trolley designs







Flex hitch Groove hitch

Hitches for bed movers



Flex hitch Gripper hitch
Available in a range of sizes.

Hitches for bins



Double wheelie bin hitch

660 and 1100 litre bin hitches

Hitches for trailers, caravans and boats





Tow ball A-frame hitch Hydraulic arm lift hitch

Determine the load's wheel configuration

Castor configuration will affect towing

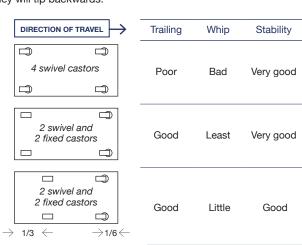
Four swivel castors will not trail properly behind the towing unit—they will cut corners rather than follow the unit. They will also tend to whip—over correct any sideways displacement and sway from side-to-side as they travel.

These problems become more acute if more trolleys are linked in a train. We offer fixed wheel skate hitch (pictured) accessories to correct this problem for situations where it's not feasible to replace two of the four swivel castors on an existing trolley fleet.

the four swivel castors on an existing trolley fleet.

If two fixed castors are used at the rear of the trolley it eliminates the whip, and improves trailing and towing.

An ideal configuration is to mount two swivel castors 1/6 of the length of the trolley from the front of the trolley and two fixed castors 1/3 of the length of the trolley from the rear. This gives little whip, and good trailing. Note though, that such trolleys should not have a heavy load concentrated at the rear end or they will tip backwards.



Take a closer look. Scan the QR code.



Tugs

Features across the range

- Powerful battery operated motor.
- Tiller control handle for 'front of load' operation.
- Foldable tiller handle.
- Three speed control with forward and reverse.
- Emergency stop and back-off safety buttons.
- Customisable with a wide variety of hitches available.
- Smart battery charger (supplied standard with AU/NZ plugs

 add 'EU', 'US' or 'UK' to the end of tug order codes for
 European, US or United Kingdom plugs).
- Lead free.
- Low maintenance.
- Made in Australia.

Take a closer look. Scan the QR code.

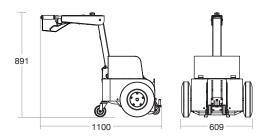






Tug Compact

- Tow up to 500 kg on flat ground with reduced towing capacity up to 8 degrees.
- Compact and easy to manoeuvre in tight corridors.
- Non-marking tyres suitable for indoor use.



Order code

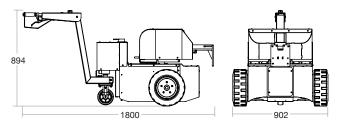
Tug Compact 500 kg (no hitch)	TUGCOM500NH
Pin hitch (16 mm)	EDHT1810-002
Pin hitch (19 mm)	EDHT1810-043
Clamp hitch (general duty)	EDHTCLAMP001*

^{*} The Tug Compact has a permanently fixed turret, so when using our EDHTCLAMP001 Clamp hitch you will also need to add EDHT1810-006 (Self-centering hitch) to allow the trolley to follow behind it. Optional: EDHT1810-035 (Skate hitch).



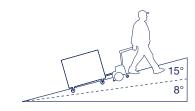
Tug Rise 1T

- Designed to tow on slopes/ramps.
- Towing capacity of up to 1 tonne on a 15 degree slope.
- Turret with turret lock for easy reversing.
- Suitable for towing bins from basement carparks.
- Heavy duty high-traction wheels.



Order code

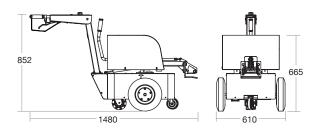
Tug Rise 1 tonne (no hitch)	TUGRISE1TNH
Pin hitch (19 mm)	EDHT1316
Pin hitch (29 mm)—standard for 660/1100L bins	EDHT1810-052
Auto-latching hitch	EDHT1810-024





Tug Axis 1T/2T

- Available in 1 and 2 tonne models for towing on flat ground, with reduced towing capacity up to 8 degrees.
- Turret with turret lock for easy reversing.
- Suitable for retail and light industrial towing.



Order code

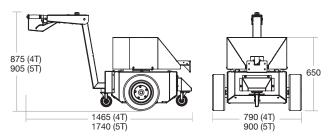
Tug Axis 1 tonne (no hitch)	TUGAXIS1TNH
Tug Axis 2 tonne (no hitch)	TUGAXIS2TNH
Auto-latching hitch	EDHT1810-024
Pin hitch (16 mm)	EDHT1313
Pin hitch (19 mm)	EDHT1316
Clamp hitch (heavy duty)	EDHTCLAMP002*
Groove hitch	EDHTGROOVE001
Tow ball A-frame hitch	EDHT1810-023

^{*} EDHTCLAMP002 - 1000 kg maximum capacity.



Tug Axis 4T/5T

- Available in 4 and 5 tonne models for towing on flat ground, with reduced towing capacity up to 8 degrees.
- Turret with turret lock for easy reversing.
- Suitable for large retail and heavy industrial towing.



Order code

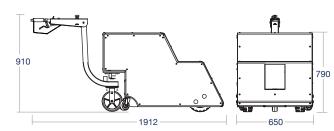
Tug Axis 4 tonne (no hitch)	TUGAXIS4TNH
Tug Axis 5 tonne (no hitch)	TUGAXIS5TNH
Auto-latching hitch	EDHT1810-024
Pin hitch (19 mm)	EDHT1316
Pin hitch (29 mm)—standard for 660/1100L bins	EDHT1810-052
Tow ball A-frame hitch	EDHT1810-023
Hydraulic arm lift kit	EDHYDARMLIFTKIT

^{*} Adds 480 mm of length to the tug when using hydraulic arm lift kit (EDHYDARMLIFTKIT).



Tug Tough 10T Heavy duty

- Tow up to 10 tonnes on flat ground, with reduced towing capacity up to 8 degrees.
- Heavy duty construction, perfect for pulling very heavy equipment, vehicles and aircraft.
- Fully contained unit—wheels and drive system housed within box covers
- Hazard yellow for high-visibility and industrial work areas.
- Flashing amber warning light (optional).



Order code

Tug Tough 10 tonne (no hitch)	TUGTOUGH10TNH
Pin hitch (32 mm)	EDHT10TPIN
Pin hitch (50 mm)	EDHT10TPIN50
Hook hitch	EDHT10THOOK
Tow ball hitch	EDHT1352

Linen movers

Features across the range

- Designed for towing linen trolleys up to 500 kg.
- Powerful battery operated motor.
- Tiller control handle for 'front of load' operation.
- Three speed control with forward and reverse.
- Emergency stop and back-off safety buttons.
- Smart battery charger (supplied standard with AU/NZ plugs

 add 'EU', 'US' or 'UK' to the end of tug order codes for
 European, US or United Kingdom plugs).
- Low maintenance.
- Made in Australia.

Take a closer look. Scan the QR code.

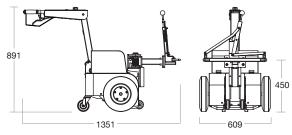






Tug Compact Linen Mover

- Tow up to 500 kg.
- Compact and easy to manoeuvre in tight corridors.
- Supplied with clamp hitch.
- Ideal for towing linen trolleys fitted with two swivel and two fixed castors.



Order code

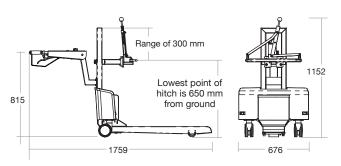
Tug Compact linen mover 500 kg (with clamp hitch, range 520–720 mm)

TUGLINENMOVER



GZ30 Linen Mover

- Tow up to 500 kg.
- Compact and easy to manoeuvre in tight corridors.
- Middle tine design—ideal for towing linen trolleys fitted with four swivel castors.
- Supplied with clamp hitch (see page 90 for hitch options).



Order code

Gzunda Linen Mover 500 kg (with clamp hitch, range 520–720 mm)	GZLINENMOVER
Gzunda Linen Mover (no hitch)	GZLINENMOVER(NH)

Meal delivery

Features across the range

- Designed for carrying or towing meal delivery systems up to 500 kg.
- Powerful battery operated motor.
- Tiller control handle for 'front of load' operation.
- Three speed control with forward and reverse.
- Emergency stop and back-off safety buttons.
- Smart battery charger (supplied standard with AU/NZ plugs

 add 'EU', 'US' or 'UK' to the end of tug order codes for
 European, US or United Kingdom plugs).
- Low maintenance.
- Made in Australia.

Take a closer look. Scan the QR code.



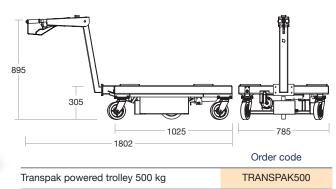


Why not consider installing a powered drive wheel to your equipment? See P5W (non-retractable) on page 84.



Transpak powered trolley

- Carries up to 500 kg.
- Suitable for carrying meal delivery systems including those from Burlodge, Socamel and Versigen.
- Frame size can be built to suit your requirements.





Tug Compact

- Tow up to 500 kg.
- Customised hitch to suit all pod and mobile meal delivery systems*.
- Compact and easy to manoeuvre in tight corridors.

Order code

Tug Compact 500 kg (no hitch)

TUGCOM500NH

* Clamp hitch shown is for illustration purposes only. See range of hitches on page 90.

Tug hitching options





Pin hitch

EDHT1810-002 or EDHT1313 (16 mm diameter) EDHT1810-043 or EDHT1316 (19 mm diameter) EDHT1810-052 (29 mm diameter) standard for 660/1100L bins EDHT10TPIN (32 mm diameter) EDHT10TPIN50 (50 mm diameter)

Typically used on trolleys with tow bars such as meal trolleys and stock trolleys, the pin hitch can also be mounted upside-down to suit spring-loaded drawbars that push upwards. These are becoming more common in workplaces, as no bending is required.

Suitability

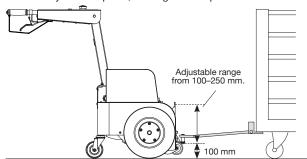
For use on Compact Tug (16mm and 19mm); Tug Rise 1T (19mm only); Tug Axis 1T and 2T (16mm and 19mm); Tug Axis 4T and 5T (19mm only) and Tug Tough 10T (32mm and 50mm).

When fitted to the Tug Compact and Tug Tough, the pin hitch enables vertical and horizontal movement.

Note: When fitted to the Tug Axis, the turret must be locked to disable pivoting, otherwise uncontrolled movement will occur.

Applications

Meal trolleys for hospitals, roll cages for supermarkets.







Auto-latching hitch

EDHT1810-024

To use the auto-latching hitch, a trolley with a 25 mm diameter tow bar is needed. Electrodrive can provide a tug hitch bar (EDHT1010) which can be welded or bolted to your trolley if required (pictured).

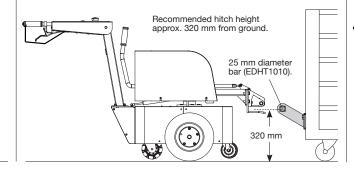
The auto-latching hitch enables limited vertical movement. Horizontal movement is provided by the Tug Axis's rotating turret. The hitch is set at 320 mm from the ground.

Suitability

For use on Tug Rise 1T and Tug Axis range (1T, 2T, 4T and 5T models).

Applications

Industrial, heavier-duty trolleys with loads of 1-2 tonne.







Tow ball A-frame hitch

ALL NEW DESIGN

EDHT1810-023

The tow ball hitch is most commonly used for the movement of trailers, caravans or boats.

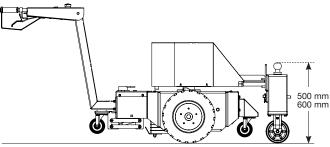
The tow ball position can be adjusted manually to suit a height of 500 or 600 mm from ground.

Suitability

For use on Tug Axis range (1T, 2T, 4T and 5T models).

Applications

Single-axle trailers or caravans fitted with a standard 50 mm tow ball coupling and a jockey wheel to safely lower the load over the tow ball.







Hydraulic arm lift kit

ALL NEW DESIGN

EDHYDARMLIFTKIT

This hitch is used for moving trailers, caravans or boats which have a 50 mm tow ball coupling.

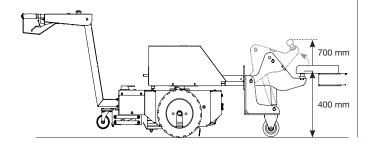
The hitch arm is operated by hydraulic system running at high pressure, via a self-centering toggle switch situated near the handle. The pinch points surrounding the arm movement and must be avoided at all times during the operation of the hydraulic system.

Suitability

For use on Tug Axis 4T and 5T models.

Applications

Single-axle trailers or caravans fitted with a standard 50 mm tow ball coupling and a jockey wheel to safely lower the load over the tow ball.







Clamp hitch

EDHTCLAMP001 (general duty) EDHTCLAMP002 (heavy duty)

Clamp hitches grab the trolley frame from the outside, by clamping the load between two hooks. These hitches are commonly seen on linen trolleys belonging to linen companies, hospitals and hotels. The clamp hitch has a range of 520–720 mm so it suits trolleys with a width between these two numbers.

EDHTCLAMP001 hitch must be supplied with EDHT1810-006 (self-centering hitch) for the Tug Compact or EDHT1810-035 (optional skate hitch). EDHTCLAMP002 does not require self-centering.

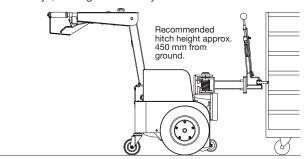
Suitability

The General Duty Clamp Hitch (EDHTCLAMP001) is suitable for use on Tug Compact. The Heavy Duty Clamp Hitch (EDHTCLAMP002) is suitable for use on the Tug Axis 1/2T.

Clamp hitches are ideal for trolleys that do not have an existing hitch point to connect to.

Applications

Linen trolleys, roll cages and trolleys with wire mesh sides.







Groove hitch

ALL NEW DESIGN

EDHTGROOVE0484

Groove hitches are designed for plastic tub trolleys with slotted handles or metal linen trolleys.

EDHTGROOVE0484 hitch is our new swivel mechanism which locks the tubs from inside the handle grooves.

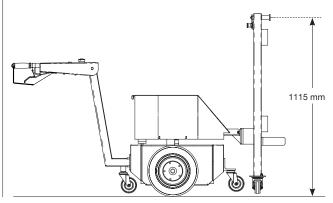
These hitches are normally used on plastic linen trolleys which don't have an exposed or open frame to grab onto from the outside.

Suitability

For use on Tug Axis 1T and 2T models.

Applications

Rotomould linen trolleys with slotted handles.



Tug hitching options





Double wheelie bin hitch

ALL NEW DESIGN

EDTWINBINHITCH

Move up to two wheelie bins at the same time using this hitch.

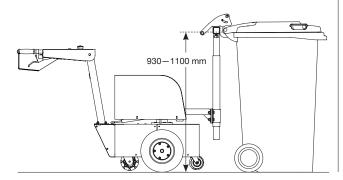
To hitch or unhitch the bins, simply lift the handle. The height of the hitching point can be manually adjusted with two wing knobs located on the side of the vertical frame.

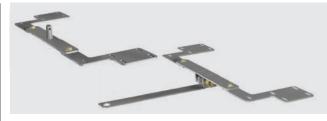
Suitability

For use on Tug Compact and the Tug Axis range.

Applications

Moving moulded wheelie bins ranging from 80 to 240 litres with adjustable height and width.





660 & 1100 litre bin hitches

EDUNIBH6611F (Front hitching bracket) EDUNIBH6611R (Rear hitching bracket)

Our universal hitching brackets fit underneath 660 litre or 1100 litre bins (between the castor plates and bin) to maximise strength and enable towing of multiple bins at once.

The hitching brackets are suitable for ramps up to 14 degrees. The tow pins are secured by R-pins.

Note: Must be used with 29 mm pin hitch (EDHT1810-052).

Suitability

For use on Tug Rise and the Tug Axis range.

Applications

For towing one or more 660 and 1100 litre bins.

Accessories

Directional lock tabs for steering (order code LMDLSULO) for trolleys with 4 swivel castors—retrofitted on 2 x rear-mounted swivel castors to stop bins swaying side-to-side.

Warning: Never tow with four swivel castors. Towing bins with four swivel castors will cause problems with trailing and 'fishtailing'—cutting corners, rather than following the unit.

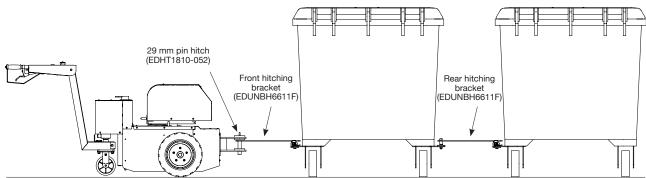
For safety purposes, directional lock tabs are fitted to your bin's existing rear swivel castors to enable controlled steering and towing in a straight line.

Take a closer look Scan the QR code.



ALL NEW

DESIGN





Tub trolley mover

Designed for the food and retail industries, Electrodrive's ergonomic tub trolley improves manual handling of food and goods by reducing the risk of musculoskeletal injury caused by awkward bending and pushing of heavy tubs at floor level.

Customer trials have proven to increase the overall productivity by 30%. This was achieved by eliminating manual handling associated with lifting, shifting and tipping heavy tubs, and reducing the labour hours involved in the daily process of emptying food waste.

Features

- Available in powder-coat for general use, or stainless steel (grade 304) for raw food handling.
- Fitted with quality Australian-made Fallshaw food-grade castors—100 mm non-marking grey rubber: Two swivel (MSC100G/MSP) and two fixed (MSC100G/MSF).
- 560 kg standard load rating (with supplied Fallshaw castors).
- Foot pedal for lifting and securely locking tubs into the trolley frame, or for releasing them.
- Can be used with an Electrodrive tipper (contact us for info).

Benefits

- Can be designed to suit your current tubs.
- Proven to increase efficiency by up to 30%.
- Ergonomic design to reduce the risk of injury.
- Easy to use—simply position the trolley on either side of the tub, and then push down on the foot pedal to lift the tub and securely lock it into place—for effortless transportation of tubs.
- Depending on your application, it is available in powder-coated for general use or stainless steel for raw food handling.
- Highly manoeuvrable and easy to use.
- Made in Australia.

Typical applications

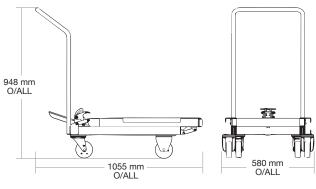
Suitable for the food and retail industries for improved handling of food and goods.



ALL NEW DESIGN

Take a closer look. Scan the QR code.





Order code

Tub trolley	SIE3038
Tub and trolley tipper	SIE3029

Powered fifth wheel

The Powered Fifth Wheel (P5W) is a retrofittable solution for converting your manually pushed trolleys or hospital beds into powered ones.

Controlled with an ergonomically designed control grip for a natural walking posture, the Powered Fifth Wheel works with your trolley or bed's other four wheels to help you move heavy loads safely and efficiently.

Features across the range

- Tow up to 400 kg on flat ground.
- Three-speed control with forward and reverse.
- Emergency stop and back-off safety buttons.
- Customisable with a wide variety of hitches available.
- Smart battery charger.
- Made in Australia.

Take a closer look. Scan the QR code.



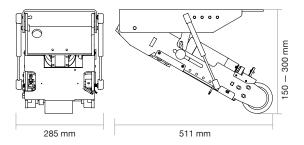


P5W (non-retractable)

Simple control

Retrofittable kit

- Tow up to 400 kg on flat ground.
- Simple control unit (mounted vertically or horizontally adaptable to suit 20-52 mm tube).
- Non-retractable fifth wheel in carriage.
- Batteries: 2 x 33Ah gel, assembled within slide-out carriage.
- Charger.





Retrofittable kit

Non-retractable Powered Fifth Wheel with simple control:

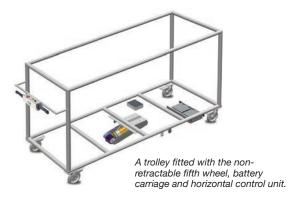
Vertically mounted	P5W400VBAU
Horizontally mounted	P5W400HBAU
Items available separately	
Control unit (vertical)	EDP5WCONTROLV
Control unit (horizontal)	EDP5WCONTROLH
Non-retractable fifth wheel in carriage	EDP5WWHEEL
Slide out battery carriage	EDP5WBATCARRIAGE
Batteries: 2 x 33Ah gel batteries	EDBAT12V33AHGEL
Charger: 7Ah, AU plug	EDCHARGER7AhAU ¹

¹ International chargers are also available. Replace 'AU' at the end of the order code with 'US', 'EU' or 'UK'. For example EDCHARGER7AhUS.





Non-retractable fifth wheel



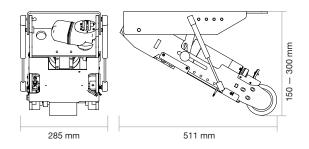
P5W (retractable)

Two-hand control

Retrofittable kit

- Tow up to 400 kg on flat ground.
- 'Gzunda' style two-hand control unit.
- Retractable fifth wheel in carriage.
- Batteries: 2 x 33Ah gel.
- Charger.
- Ideal for hospital beds.

Retrofittable kit







Slide out battery carriage Retractable fifth wheel



Order code

Retractable powered fifth wheel with 'Gzunda' style two-hand control	GZP5W400HBAU
Items available separately	
Control unit	EDGZP5WCONTROL
Retractable fifth wheel in carriage	EDGZP5WWHEEL
Batteries: 2 x 33Ah gel batteries	EDBAT12V33AHGEL
Slide out battery carriage	EDP5WBATCARRIAGE
Charger: 7Ah, AU plug	EDCHARGER7AhAU ¹
1 International abarrage are also available D	landage 'All' at the and of the

International chargers are also available. Replace 'AU' at the end of the order code with 'US', 'EU' or 'UK'. For example EDCHARGER7Ah**US**.



Please note

Traction and load rating of the fifth wheel is to suit a maximum load of 400 kg on flat ground. Towing capability will reduce substantially as the angle of the slope increases. If less downwards force is required to suit lighter trolleys (less than 60 kg) we can customize the unit.

Sold with Australian (AU) charging plug and charger. Also sold with plugs to suit USA (US), Europe (EU) and the United Kingdom (UK). Change last two digits of product code accordingly.

Both models require a minimum of 150 mm ground clearance. Fitting to the bed or trolley is quoted separately. We have a wide range of brackets and fittings.

Water resistance IP rating of IP55.

Patient movers

Battery powered patient movers for enabling a single user to move hospital beds or stretchers.

Features across the range

- Powerful battery operated motors move up to 800 kg.
- Highly manoeuvrable in tight spaces.
- Three speed operation with forward, reverse and emergency stop.
- Intuitive controls with twist grip throttle and horn.
- Customisable with a wide variety of hitches available.
- Smart battery charger (supplied standard with AU/NZ plugs add 'EU', 'US' or 'UK' to the end of Gzunda order codes for European, US or United Kingdom plugs).
- Made in Australia.

Take a closer look. Scan the QR code.







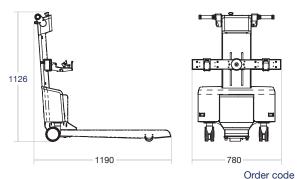
Gzunda GZ10SL

- Move up to 500 kg.
- Middle tine* for easy manoeuvrability in tight spaces.
- Three speed operation with forward, reverse and emergency stop.
- Variety of hitches available (see page 90 for hitch options).



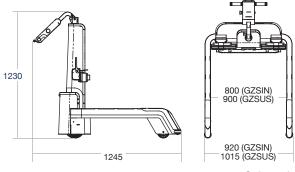
Gzunda GZS

- Move up to 600 kg.
- Split tine design with no under-bed clearance required.
- Three speed operation with forward, reverse and emergency stop.
- Variety of hitches available (see page 90 for hitch options).



Gzunda GZ10SL 500 kg (no hitch)

GZ10SL(NH)1



Order code

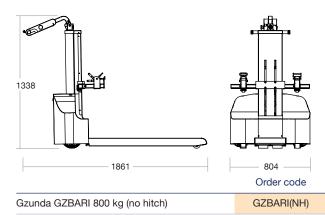
Gzunda GZS 600 kg split tine (International) (no hitch)	GZSIN(NH)
Gzunda GZS 600 kg split tine (US) (no hitch)	GZSUS(NH)

^{*} Requires 90 mm of clearance under the bed.

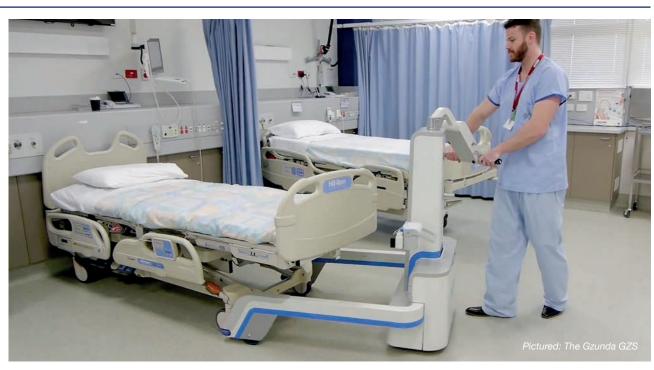


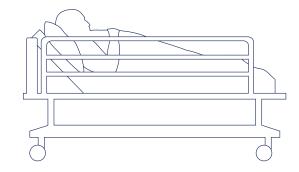
Gzunda GZBARI

- Move up to 800 kg.
- Automatic park brake to anchor beds and trolleys when staff let go.
- Power steering with dual-drive hub motors.
- Long lasting deep-cycle gel cell batteries.
- Middle tine* for easy manoeuvrability in tight spaces.
- Variety of hitches available (see page 90 for hitch options).



^{*} Requires 100mm of clearance under the bed (can be modified to 90mm if required).







The GZBARI is specially designed for moving bariatric patients with ease.

Please note:

NH: Bed movers are sold without a hitch. Hitches are sold separately to suit the range of bed models in your fleet.

Please visit Electrodrive.com.au and navigate to the Patient Movers page where you can download our Bed Compatibility Chart or contact us to check which model is most suitable for your beds, trolleys, chairs and stretchers.

Gzunda hitching options

Common hitches to suit Gzunda bed movers and linen movers.















					. 3		-
Hitch	Flex hitch kit with hitch bar.	Ratchet hitch kit with hitch bar.	Manual gripper hitch kit with hitch bar.	Manual gripper hitch kit with hitch bar.	Automatic gripper hitch kit with hitch bar.	Groove hitch kit.	Clamp hitch kit.
Suitability	Gzunda patient movers (excluding bariatric).	Gzunda patient movers (excluding bariatric).	Gzunda bariatric patient mover.	Gzunda patient movers (excluding bariatric).	Gzunda patient movers (suits 20-40 mm bed frame) (excluding bariatric).	Gzunda linen mover and Tug linen mover.	Tug Compact linen mover.
Applications	Hospital beds, stretchers, treatment chairs and low-lying trolleys/gurneys.	Hospital beds, stretchers, treatment chairs and low-lying trolleys/gurneys.	Hospital beds, stretchers, treatment chairs and low-lying trolleys/gurneys.	Hospital beds, stretchers, treatment chairs and low-lying trolleys/gurneys.	Hospital beds, stretchers, treatment chairs and low-lying trolleys/gurneys.	Moulded plastic laundry trolleys with a width of 700-720 mm.	Metal framed trolleys, caged linen trolleys, surgical instrument
					It has manual adjustment to suit any bed frame.	It has manual height adjustment to suit any handle height/handle slots.	Rapini trolleys and tall stock trolleys.
Size	780 mm length	650 mm (overall length of bar) Hitch range: 295–650 mm	520-720 mm length				
						(horizontal) and 95 mm (vertical).	
Order code	EDHTFLEX001	EDHTRATCH001	EDHTMANGRIP001	EDHTMANGRIP002	EDHTAUTOGRIP001	EDHTGROOVE001*	EDHTCLAMP001

Retrofittable hitch kits to suit the common hitch bars above

(to enable multiple hitch styles on your bed mover or linen mover)





Ratchet





Manual gripper



Automatic gripper





Hitch unit kit

Order code

EDHTFLEX001-001

EDHTRATCH001-001

Manual gripper

EDHTMANGRIPPER-001

EDHTMANGRIP-002

EDHTGRIPP001-001

60 mm hitch extension suits GZ10SL and GZS

EDHTHITCHEXT60

Hitch extensions

120 mm hitch extension suits GZ10SL and GZS

EDHTHITCHEXT120

* EDHTGROOVE001: The whole hitch bar can be manually raised up and down to suit different handle slots. The 95 mm vertical hitch range relates to the range of movement inside the hitch point to allow it to securely hold on to the trolley.





Bariatric wheelchair mover



The Bariatric Wheelchair Mover is an excellent addition to any aged care, hospital or rehabilitation centre looking to remove the risk of injury and fatigue from manually pushing, pulling and steering heavy chairs.

With the added benefit of enhancing patient comfort by replacing those sudden jerky vibrations and movements with a smooth and assisted drive.

Typical applications

Ideal for moving heavy wheelchairs, commodes and treatment chairs around hospitals (patient transportation) as well as airports (passenger transportation).

Take a closer look. Scan the QR code.



Features and benefits

- Moves up to 350 kg on a 6 degree gradient.
- Maximum speed of up to 5 km per hour.
- Compact and easy to manoeuvre in tight spaces.
- Easy to steer with an excellent turning circle.
- Quiet operation and smooth ride for patient comfort.
- Automatic park brake.
- Battery operated and rechargeable.
- Non-marking tyre.
- Key on/off switch.
- Ergonomic design.
- Park brake release—to enable manual operation in the event of a flat battery.
- Two 12V 33Ah batteries with a 24V smart charger.
- Made in Australia.

Hitching

Simple push-button hitching/unhitching.

Safety features

- Emergency stop button and 'back-off' bar.
- Horn for attracting attention.
- Automatically decelerates and stops when not driving forward.
- Fits a variety of wheelchairs, commodes and treatment chairs.

How much effort does it take to push a 100 kg patient?

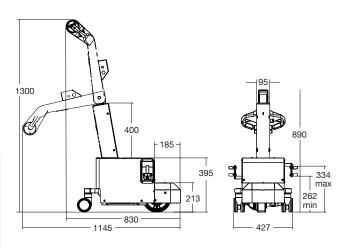
The required sustained force:

- Manually pushing a patient in a wheelchair = 8 kg
- Using the wheelchair mover = < 1 kg

Force required on a slope for manual-pushing is higher.

For more info on acceptable frequencies of sustained pushing of wheeled equipment over stated distances, refer to the Snook & Ciriello table, page 141.





Order code

Bariatric wheelchair mover

WHLCHAIRMOVEBARI

Trolley collection

Front-of-house trolley collection system

Stock trolleys are notoriously bulky and cumbersome. They block supermarket aisles and cause disruptions for shoppers and staff.

Due to their size and fixed castor configuration they can become very heavy to steer manually, which not only slows down the overall job of stocking shelves, but present a risk of injury to staff and shoppers.

Electrodrive Trolley Collection System (ETCS)

The ETCS is an Electrodrive powered tug with a 'remote' switch to enable the operator to steer the tug using a remote control.

With enhanced safety features the remote control tug assists when transporting trolleys in high traffic and pedestrian areas.

Benefits

- Reduce time stocking shelves.
- Improve safety for staff and shoppers.
- Move multiple trolleys at a time.
- Maximise forward visibility while steering from the front of the trolley queue.
- Always have two points of contact with trolleys (with the operator at the front, and the tug at the back).
- Unhitch trolleys from the rear of the trolley queue, making it easier to park in trolley bays.
- Safely manoeuvre through busy areas with increased visibility from the amber strobe light on pole.

Take a closer look. Scan the QR code.









Wheelset mover

Moving train bogie wheelsets

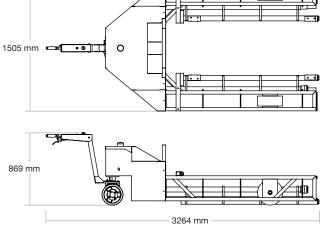
- Suitable for moving rail wheesets, train bogies, cylinders, pipes, spools, industrial drums.
- Powerful battery operated motors move up to 1400 kg.
- Highly manoeuvrable.
- Three speed operation with forward, reverse and emergency stop.
- Intuitive controls with tiller control handle, horn and warning light.
- Smart battery charger (supplied standard with AU/NZ plugs add 'EU', 'US' or 'UK' to the end of Gzunda order codes for European, US or United Kingdom plugs).
- Made in Australia.

Take a closer look. Scan the QR code.









Load capacity	Move up to 1400 kg on flat surface.
Max. speed	Up to 4.1 km per hour (fully programmable).
Speed mode	Three speed control with forward, reverse and emergency stop.
Battery	Two 12V 73Ah MK-cyclic gel / suspended electrolyte batteries (deep cycle, long-lasting, maintenance-free) with 24V smart charger.
Dimensions (L/W/H)	3264/1505/869 mm 2704/1505/869 mm (will tiller arm raised)
Order code	WHEELSETMOVER







Liftmaster Waste handling solutions

There will always be waste, and while we're getting better at separating our general waste, recycling and green waste into different types of bins, a growing population simply means more waste, which leads to more bins. More bins mean an increase in manual waste handling processes, like emptying them into industrial bins or skips.

While some workplaces previously allowed manual lifting of wheelie bins into skips, the rising costs of workplace injuries has led at least one state government department to direct that:

'Wheelie bins are not to be manually lifted into industrial bins ... If wheelie bins are to be emptied into an industrial bin then an appropriate lifting device is to be provided.'

If your workplace still has a manual waste handling problem, it's time to find a solution from Liftmaster's range of Australian made full swing or lift-and-tilt bin lifters, which allow a single operator to lift and empty wheelie bins safely, whilst eliminating the risk of back and side strains caused by lifting heavy bins above shoulder height.







How to choose the right bin lifter

Determine the size and weight of your full wheelie bin and how often you'll be tipping

Our range of Australian made bin lifters have models that can lift 80, 120, 140 and 240 litre wheelie bins weighing anywhere from 30–250 kg safely, with assisted lift units that you can safely use up to twice a day, all the way to powered hydraulic units that can lift and tip all day long.

2 Determine how many times a day you'll be tipping

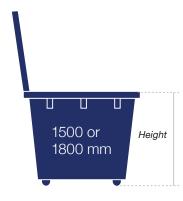
Assisted-lift bin lifters can safely lift their specified weights, but still require manual effort when tipping. So we recommend only using them between two and 10 times a day, per person, depending on the model you choose. If you need to tip more frequently, our powered bin lifters can lift heavier weights more often without the risk of muscle strains.

3 Determine the height of the dumper bin you'll be tipping into

The Niftylift full swing bin lifter and the Ecolift lift-and-tilt bin lifter is suitable for 1500 mm high skip bins. The rest of the range can be configured for use with either 1500 or 1800 mm high skip bins.









Take a closer look. Scan the QR code.

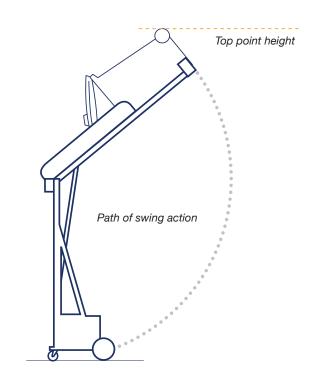


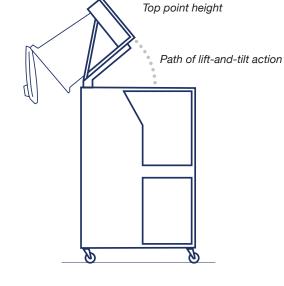
Determine the work area and space requirements of the bin lifter

Because of the path of the swing action, full swing bin lifters are only recommended for use in a controlled environment where pedestrian access is restricted. For areas such as schools, retail centres, or anywhere where pedestrian access cannot be restricted, we recommend using a lift-and-tilt model, which encloses the lifting motion within the bin lifter's footprint.

Full swing bin lifters also need more height clearance than liftand-tilt models so they may not be suitable for low ceiling areas like basements or underground car-parks (see following tables).

For industrial work areas that deal with flammable materials, we recommend using the spark-free full swing Rugged—Manual bin lifter.





Full swing bin lifters

Bin lifter	Order code	Top point height (mm)
Niftylift	NIFTYLIFT30	2850
Rugged-Manual	BLHP1500/BLHP1500LL	3278
	BLHP1800	3752
Rugged—Powered	BLEH1500/BLEH1500LL	3278
	BLEH1800	3752
Rugged (All terrain)	BLHPAT1500/BLEHAT1500	3370

Lift-and-tilt bin lifters

Bin lifter	Order code	Top point height (mm)
Ecolift	ECOLIFT50	2800
Simplicity Plus	SIMPLUS150HY1500	2550
Simplicity Plus	SIMPLUS150HY1800	2800
Universal	UBL250HYD1500	2550
Universal	UBL250HYD1800	2800

Full swing bin lifters



Niftylift

- Lifts up to 30 kg safely.
- Suits 1500 mm skip bins.
- Compatible with 120 and 240 litre wheelie bins.
- Manual assisted lift operation with slow release gas struts.
- Recommended for up to two lifts per day, per person.
- Fits through internal doorways.
- Made in Australia.

Niftylift bin lifter for 1500 mm skip bins NIFTYLIFT30





The 'All Terrain' BLHPAT1500 with pneumatic wheels is ideal for outdoor use.

Rugged-Manual

- Lifts up to 100 kg safely.
- Models to suit 1500 or 1800 mm skip bins.
- Compatible with 120, 140* and 240 litre wheelie bins.
- Spark-free hydraulic hand-pump operation.
- Recommended for up to 10 lifts per day, per person.
- Fits through internal doorways.
- All-terrain model available for 1500 mm skip bins.
- Made in Australia.

Order code

	Order code
Rugged-Manual bin lifter for 1500 mm skip bins	BLHP1500
Lid lifter compatible, for 1500 mm skip bins	BLHP1500LL
All terrain model for 1500 mm skip bins	BLHPAT1500
Rugged-Manual bin lifter for 1800 mm skip bins	BLHP1800

^{*} The position of the bin catch must be changed when using 140 litre wheelie bins









The 'All Terrain' BLEHAT1500 with pneumatic wheels is ideal for outdoor use.

Order code

Rugged—Powered

- Lifts up to 150 kg safely, up to 50 times per day.
- Models to suit 1500 or 1800 mm skip bins.
- Compatible with 120, 140* and 240 litre wheelie bins.
- Battery operated push button hydraulic system.
- Fits through internal doorways.
- All-terrain model available for 1500 mm skip bins.
- Made in Australia.

	Order code
Rugged—Powered bin lifter for 1500 mm skips	BLEH1500
Lid lifter compatible, for 1500 mm skip bins	BLEH1500LL
All terrain model for 1500 mm skip bins	BLEHAT1500
Rugged—Powered bin lifter for 1800 mm skips	BLEH1800

* The position of the bin catch must be changed when using 140 litre wheelie bins.

Lift-and-tilt bin lifters



Ecolift

- Lifts up to 50 kg safely.
- Suits 1500 mm skip bins.
- Compatible with 80, 120, 140 and 240 litre wheelie bins.
- Crank handle winding operation for controlled lifting.
- Recommended for up to six lifts per day, per person.
- Safety cage panels eliminate hand crush points for operators and bystanders.
- Made in Australia.

Order code

Ecolift bin lifter for 1500 mm skip bins ECOLIFT50



Simplicity Plus

- Lifts up to 150 kg safely.
- Configured to suit 1500 or 1800 mm skip bins.
- Compatible with 80, 120, 140 and 240 litre wheelie bins.
- Battery operated push-button hydraulic system.
- Will lift up to 100 times per day on one charge.
- Safety cage eliminates hand and foot crush points for operators and bystanders.
- Made in Australia.

Order code

Simplicity Plus for 1500 mm skip bins

SIMPLUS150HY1500

Simplicity Plus for 1800 mm skip bins

SIMPLUS150HY1800

Take a closer look. Scan the QR code.





Universal

- Lifts up to 250 kg safely.
- Configured to suit 1500 or 1800 mm skip bins.
- Compatible with 80, 120, 140 and 240 litre wheelie bins.
- Battery operated push-button hydraulic system.
- Will lift over 100 times per day on one charge.
- Safety cage and door eliminates all hand and foot crush points for operators and bystanders.
- Made in Australia.

Order code

Universal bin lifter for 1500 mm skip bins	UBL250HYD1500
Universal bin lifter for 1800 mm skip bins	UBL250HYD1800

Whe

Wheelie Bin Lid Opener and bins

NEW

A hands-free wheelie bin lid lifter

For use in food, medical and industrial operations the Wheelie Bin Lid Opener bin is the hygienic way to dispose of waste without getting your hands dirty touching the bin.

Simply use the foot pedal to open and close a lidded wheelie bin. Designed and fitted right here in Australia from stainless steel the Wheelie Bin Lid Opener is perfectly suited for fast paced environments where waste needs to be handled quickly and efficiently.

We also offer the Wheelie Bin Lid Opener unassembled so you can purchase in bulk and save in shipping and handling charges.

- The bin can be partially opened (and held in place with your foot) for quick use.
- Fully opened for times when large waste needs to be emptied and closed again with a quick press of the pedal.

Features and benefits

- Australian designed.
- Full stainless steel.
- Can be purchased fully assembled or unassembled.
- Hygienic hands-free operation.
- Can be operated from the front or side.
- Prevents cross contamination from bin to food transfer.
- Costs saving can be achieved by a reduction on handwashing, glove use and hand sanitiser.
- A Wheelie Bin Lid Opener bin can be emptied by a Liftmaster bin lifter into a bulk bin.
- Can be picked up and emptied by a waste bin truck in the usual weekly/daily collection.
- Compatible with 80, 120 and 240 litre wheel bins.
- Designed to be used only on Sulo and Schaefer bins.

Typical applications

- Commercial kitchens and food preparation areas.
- Washrooms and bathrooms.
- Medical and healthcare facilities.
- Industrial and construction.
- Any commercial or residential site where emptying waste safely is required.

Wheelie Bin Lid Opener kit

The kit consists of:

- A foot pedal frame and vertical bars.
- Hinges.
- Nuts and bolts.

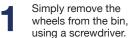


Order codes

Wheelie Bin Lid Opener kit options	Bin size	Order code	
Kit sold separately.	80 litres	SPLIFTALID80	
For fitting to your	120 litres	SPLIFTALID120	
existing wheelie bin.	240 litres	SPLIFTALID240	
Unassembled kit	80 litres	SPLIFTALID80UN	
with wheelie bin.	120 litres	SPLIFTALID120UN	
Ideal for buying in bulk.	240 litres	SPLIFTALID240UN	
	80 litres	SPLIFTALID80AS	
Pre-assembled kit fitted to a wheelie bin.	120 litres	SPLIFTALID120AS	
	240 litres	SPLIFTALID240AS	
Wheelie bin options	Bin size	Order code	
80 litre wheelie bin. Dimensions (H x D x W): 825 x 496 x 440 mm	80 litre	80LTBIN	
120 litre wheelie bin. Dimensions (H x D x W): 925 x 555 x 480 mm	120 litre	120LTBIN	
240 litre wheelie bin. Dimensions (H x D x W): 1060 x 730 x 550 mm	240 litre	240LTBIN	
360 litre wheelie bin*. Dimensions (H x D x W): 1116 x 904 x 669 mm	360 litre	360LTBIN	
Spare parts		Order code	
Wheelie bin wheels (For more info, see page 60).		RPL200(DTR)	
* The 360LTRIN is a special order. We do not stock this item			

^{*} The 360LTBIN is a special order. We do not stock this item.







Insert the wheel's axle into the foot pedal frame (ensuring the frame is the right way up.)



Easy installation steps

If you purchase the kit unassembled, please follow our easy installation steps for fitting to your existing wheelie bin.

Tools required for assembly:

- Flat blade screwdriver.
- 5 mm Allen key.
- Shifter.



Remove the hinge pins from the lid.



Align the Wheelie
Bin Lid Opener
hinges, then reinsert
the lid hinge pins.



Attach the foot pedal bars to the lid hinges using the bolts.



Tighten using your shifter.



Then at the base of the bin, attach the foot pedal frame to the vertical bars using the nuts and bolts provided.



Tighten using your Allen key and shifter.

Your bin is now ready to use.



Bin movers

Manually moving heavy wheelie bins can increase the risk of strains and injuries.

Our bin mover range offers a smart solution for moving multiple bins to a central waste location.

Take a closer look Scan the QR code.









Powered Bin Trolley by Electrodrive

- Move up to three 240 litre wheelie bins, weighing up to 400 kg over a flat surface.
- Powered drive wheel can carry loads over ramps up to 5°.
- Smart design with easy turning action.
- Tiller control keeps you in front of load.
- Made in Australia.

Modular Bin Trailer

- Available in three and six bin models.
- Load capacity of up to 240 kg per bin bay.
- Compatible with 80, 120, 140, 240 and 360 litre wheelie bins.
- Gas strut actuated bin ramp.

- Fits within one standard car parking space.
- Comes with a pin-hitch coupling as standard.
- Also available with tow ball or bar hitch couplings.
- Made in Australia.

Please note: These units are supplied flat-packed ready for assembly.

Order code

Order code

Order code

Powered Bin Trolley POWBINTROLLEY

Three bay trailer for 80–360 litre wheelie bins

MODULAR3

Six bay trailer for 80-360 litre wheelie bins

MODULAR6

NEW

Strong Arm hoist

The Strong Arm is a cantilever crane designed to be statically bolted to a concrete floor (such as a loading bay).

An integral piece of plant equipment used for lifting loads between floors, while effectively eliminating the need for manually carrying heavy, bulky equipment on stairs, or the use of a forklift.

A hand winch is low-geared to ensure loads of up to 500 kg can be easily raised, while precise positioning of the load is achieved through geared hand-slewing of the mast.

Extra lift height can be achieved by raising the boom (prior to lifting the load).

The mast is fitted to the base plate with two pins. Remove the first pin and the mast can be folded down for easy travel. Remove the second (pivot) pin and the Strong Arm can be stowed away.

It is suitable for plant equipment, workshops, manufacturing, factories.

Features

- Lifts up to 500 kg safely.
- Hand winch operation.
- Can be folded for storage.

Dimensions (L/W/H)	1171/508/1557 mm
Load capacity	500 kg

Please note:

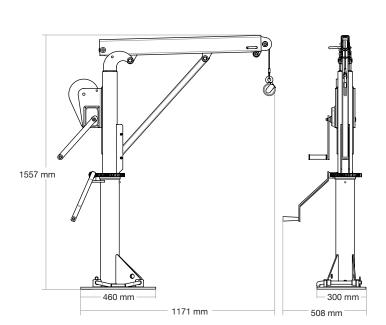
Supply only. Fitting is as per specific site requirements.

Onsite installation and mounting must be done by a qualified engineer.

Take a closer look. Scan the QR code.







Order code

Strong Arm hoist 500 kg

SIS4HW







Castors & Industrial Materials handling equipment

Castors & Industrial have been at the forefront of castors and materials handling equipment distribution in Queensland since 1997.

In 2015, Castors & Industrial joined the Fallshaw Group, with team members bringing more than 40 years of combined experience and product knowledge, along with their extensive catalogue of materials handling equipment.

Specialising in standard and custom manufactured gravity conveyor systems and rollers, standard and custom manufactured lift tables, pallet positioners, battery powered and manually operated mobile scissor lifts, pallet trucks, hand trucks, adjustable feet and tube ends—as well as the entire Fallshaw Group catalogue at their disposal—the team at Castors & Industrial will ensure you have the right equipment for the job at hand.

Gravity conveyors

A gravity conveyor is ideally suited for handling operations which cannot justify the expense of powered equipment.

They provide an efficient and economical way to move manufactured goods from one process to the next, increasing your productivity and reducing labour costs.

Gravity conveyors are also very easy to set up, dismantle or relocate. They work on one of the following principles:

- One stand is lower than the other, and gravity moves the load.
- The frame is level, and the load is pushed along.

Gravity conveyor frames, rollers and supports are available in a variety of standard sizes and configurations.

Take a closer look. Scan the QR code.

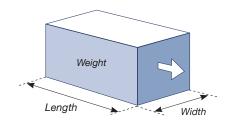




How to choose

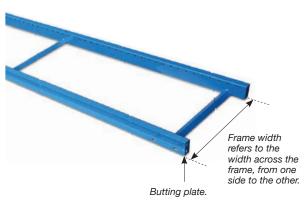
1. Item size

Measure the dimensions (length x width) and weight of the largest and smallest items to be carried on the conveyor, to ensure there are three rollers under the item at all times for stability.



2. Frame width and length

Choose the frame width closest to the width of the items being conveyed. The rollers sit 10 mm above the roller frame. Overhang should be minimal.



3. Rollers

The product being conveyed determines which rollers are best for your application.

Medium heavy duty steel rollers are generally used for the conveying of heavy boxes and lengths of steel, whereas polypropylene rollers are more suitable for lightweight boxes and items you don't want marked, such as aluminium.



4. Supports

The conveyor supports are RHS steel construction, height adjustable from 600 to 900 mm (1000 mm to top of roller when fully extended) and have a Hammertone Regal Blue painted finish.

Supports can be bolted to the floor and to the conveyor system for added stability. Support can also be ordered with capped ends with a single hole to allow castors to be fitted.



FRAMES

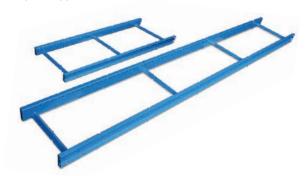
Australian manufactured conveyor frames

Frames are all laser cut (matched) C-channels with fully-welded cross braces. Butting plates on ends are integral and folded as part of the laser process.

Three standard frame widths:

- 305, 460 and 610 mm (measurement is over the frame).
 Two standard frame lengths:
- 1500 and 3000 mm.

Medium heavy duty frames can only be supplied with MHDGAL or POLY rollers with 3/8" round shafts. Heavy duty frames can only be supplied with HD rollers with 12 mm round shafts.



Features

- Frames have fully welded cross braces (frames are not bolted together).
- Frames have laser cut holes at 79 mm and 115 mm pitch as standard, with laser cut holes in the bottom of the channels to allow supports to be mounted in three positions (each end and at mid-span on the 3 m frames) and two positions (each end on a 1.5 m frame).
- Each end of the folded butting plates are pre-drilled to allow splicing together.
- The tops of the frames have holes pre-drilled to allow for the mounting of guide rails if required.
- Painted Hammertone Regal Blue painted finish.

Medium heavy duty (MHD)

1500 mm long x 2.5 mm thick gravity conveyor frame.

Overall frame width (mm)	Inside frame width (mm)	Order code		
305	242	CF15X305MHD		
460	394	CF15X460MHD		
610	546	CF15X610MHD		

Medium heavy duty (MHD)

3000 mm long x 2.5 mm thick gravity conveyor frame.

Overall frame width (mm)	Inside frame width (mm)	Order code
305	242	CF3X305MHD
460	394	CF3X460MHD
610	546	CF3X610MHD

Heavy duty (HD)

1500 mm long x 2.5 mm thick gravity conveyor frame.

Overall frame width (mm)	Inside frame width (mm)	Order code		
305	242	CF15X305HD		
460	394	CF15X460HD		
610	546	CF15X610HD		

Heavy duty (HD)

3000 mm long x 2.5 mm thick conveyor frame.

Overall frame width (mm)	Inside frame width (mm)	Order code
305	242	CF3X305HD
460	394	CF3X460HD
610	546	CF3X610HD

SUPPORTS

RHS supports are bolted to the frame through a crescent plate which allows for angular alignment. They have a strong, rigid construction, making them suitable for more permanent conveyors.

Straight frames require only one support per join (ie, three supports for two frames). However, if the frames are to be moved, it is usually more convenient to have a support at each end (ie, four supports for two frames).

Features

- RHS construction.
- Height is adjustable from 600 to 900 mm (1000 mm to top of roller when fully extended).
- Hammertone Regal Blue painted finish.
- Supports can be bolted to the floor and to the conveyor system for added stability.
- Supports can be ordered with capped ends and a single hole to allow castors to be fitted.

Standard sizes



Suits conveyor frame width (mm)	Order code
305	CS305
460	CS460
610	CS610

ROLLERS

Rollers can be supplied in:

- 1.6 mm wall medium heavy duty galvanized steel tube.
- 2.8 mm wall polypropylene tube.
- 2 mm wall heavy duty galvanized steel tube.



Medium heavy duty (MHDGAL)

- 50 mm diameter x 1.6 mm wall galvanized steel tube.
- 3/8" diameter spring loaded mild steel, round shaft with 'D' one end.
- Unground steel bearings.
- 15 mm shaft protrusion each end of bearing.

Overall frame width (mm)	Inside frame width (mm)	Over bearing length (mm)	Order code
305	242	240	CR240MHDGAL
460	394	392	CR392MHDGAL
610	546	544	CR544MHDGAL

Heavy duty (HDGAL)

- 50 mm diameter x 2 mm wall galvanized steel tube.
- 12 mm diameter spring loaded mild steel, round shaft.
- Precision bearings.
- 15 mm shaft protrusion each end of bearing.

	Overall frame Inside frame Over bearing width (mm) width (mm) length (mm		Order code
305	242	240	CR240HDGAL
460	394	392	CR392HDGAL
610	546	544	CR544HDGAL

Polypropylene (POLY)

- 50 mm diameter x 2.8 mm wall polypropylene tube.
- 3/8" diameter spring loaded mild steel, round shaft with 'D' one end.
- Plastic caged bearings.
- 15 mm shaft protrusion each end of bearing.

Overall frame width (mm)	Inside frame width (mm)		
305	242	240	CR240POLY
460	394	392	CR392POLY
610	546	544	CR544POLY

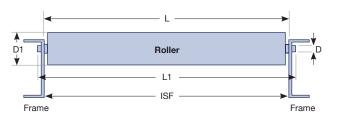


CUSTOM

Custom manufactured conveyor frames, rollers and supports

We can supply gravity conveyor frames manufactured at 1500 mm long in standard widths of 305, 460 or 610 mm. We can also manufacture conveyor frames, rollers and supports to suit your criteria.

Conveyor rollers can be manufactured in various diameters and lengths with a variety of shaft configurations. Speak to our technical team to obtain pricing on your requirements.



Measurements required for custom orders	(mm)
Inside frame (ISF)	
Over bearing (L)	
Overall axle (L1)	
Shaft diameter (D)	

Roller diameter (D1)



Gravity conveyor packages

Medium heavy duty gravity conveyor packages

Frames

Frames are all laser cut (matched) C-channels with fully-welded cross braces. Butting plates on ends are integral and folded as part of the laser process. Frames have laser cut holes in the bottom of the channels to allow for supports to be mounted in three positions (each end and at mid-span on the 3 m frames) and two positions (each end) on a 1.5 m frame. Hammertone Regal Blue painted finish.

Rollers

Galvanized steel tube rollers, round shaft with a 15 mm shaft protrusion each end of roller, 'D' one end, unground steel bearings.

Dimensions:

- 50 mm diameter x 1.6 mm wall.
- 3/8" diameter spring loaded mild steel.

Supports

- RHS construction, with height adjustable from 600–900 mm (1000 mm to top of roller when full extended).
- Can be bolted to floor and conveyor system for added stability.

Heavy duty gravity conveyor packages

Frames

Frames are all laser cut (matched) C-channels with fully-welded cross braces. Butting plates on ends are integral and folded as part of the laser process. Frames have laser cut holes in the bottom of the channels to allow for supports to be mounted in three positions (each end and at mid-span on the 3 m frames) and two positions (each end) on a 1.5 m frame. Hammertone Regal Blue painted finish.

Rollers

Galvanized steel tube rollers, round shaft with a 15 mm shaft protrusion each end of roller and precision bearings.

Dimensions:

- 50 mm diameter x 2 mm wall.
- 12 mm diameter spring-loaded mild steel.

Supports

- RHS construction, with height adjustable from 600–900 mm (1000 mm to top of roller when full extended).
- Can be bolted to floor and conveyor system for added stability.

Load capacity (kg)	Overall frame width (mm)	Inside frame width (mm)	Frame length (mm)	Frame	Rollers	Roller pitch	Supports	Order code
150	305	242	3000	1	38	79	2	CP3X305-79
150	460	394	3000	1	38	79	2	CP3X460-79
150	610	546	3000	1	38	79	2	CP3X610-79
200	305	242	3000	1	38	79	3	CP3X305-79/3
200	460	394	3000	1	38	79	3	CP3X460-79/3
200	610	546	3000	1	38	79	3	CP3X610-79/3
150	305	242	3000	1	26	115	2	CP3X305-115
150	460	394	3000	1	26	115	2	CP3X460-115
150	610	546	3000	1	26	115	2	CP3X610-115
200	305	242	3000	1	26	115	3	CP3X305-115/3
200	460	394	3000	1	26	115	3	CP3X460-115/3
200	610	546	3000	1	26	115	3	CP3X610-115/3

Load capacity (kg)	Overall frame width (mm)	Inside frame width (mm)	Frame length (mm)	Frame	Rollers	Roller pitch	Supports	Order code
250	305	242	3000	1	38	79	2	CP3X305HD-79
250	460	394	3000	1	38	79	2	CP3X460HD-79
250	610	546	3000	1	38	79	2	CP3X610HD-79
300	305	242	3000	1	38	79	3	CP3X305HD-79/3
300	460	394	3000	1	38	79	3	CP3X460HD-79/3
300	610	546	3000	1	38	79	3	CP3X610HD-79/3
250	305	242	3000	1	26	115	2	CP3X305HD-115
250	460	394	3000	1	26	115	2	CP3X460HD-115
250	610	546	3000	1	26	115	2	CP3X610HD-115
300	305	242	3000	1	26	115	3	CP3X305HD-115/3
300	460	394	3000	1	26	115	3	CP3X460HD-115/3
300	610	546	3000	1	26	115	3	CP3X610HD-115/3

Lift tables

Features and options

- Our lift table range can be used in above-floor or in-floor pit applications.
- The upper platforms are fitted with an aluminium safety bar which prevents descent on contact with obstructions.
- Button-operated and easy-to-use.
- Low-tension (24V) control box with up-down buttons.
- Power source: 240V single phase or 415V 3 phase.
- Internal power pack equipped with relief valve against overloading and compensated flow valve for controlled lowering speed.
- Heavy duty cylinders with drainage system and check valve to stop the table lowering in case of a hose bursting.
- Removable eyelets for lifting.
- Please expect a 6–8 week lead time from the date of placing your order.

Take a closer look. Scan the QR code.





Single scissor lift tables

Lifts up to 3000 kg.

Order code	LT500IM	LT1000IM	LT2000IM	LT3000IM
Lowered height (mm)	190	190	190	220
Raised height (mm)	1010	1010	1010	1020
Platform size L x W (mm)		1300	x 800	
Lifting time (seconds)	15	25	24-28	26
Lifting speed with load (sec)	55	40	24-28	30
Lowering speed with load (sec)	40	35	11-15	40
Motor (kw)	0.75	0.75	0.75	1.5
Net weight (kg)	160	220	280	320
Load capacity (kg)	500	1000	2000	3000



Double scissor lift tables

Lifts up to 4000 kg.

Order code	LTDS1000IM	LTDS2000IM	LTDS4000IM
Lowered height (mm)	305	360	400
Raised height (mm)	1780	1780	2050
Platform size L x W (mm)	1300 x 820	1300 x 850	1700 x 1200
Base frame size (mm)	1240 x 640	1220 x 785	1600 x 900
Lifting time (seconds)	35-45	35-45	55-65
Net weight (kg)	210	295	520
Load capacity (kg)	1000	2000	4000



Extra wide single scissor lift tables

Lifts up to 4000 kg.

Order code	LTW2000IM	LTW4000IM	
Lowered height (mm)	205	230	
Raised height (mm)	1000	1000	
Platform size L x W (mm)	2500 x 820	2500 x 850	
Net weight (kg)	265	360	
Load capacity (kg)	2000	4000	

For more information, please see page 110.

Hospital bed maintenance lift

The LT600HBML hospital bed maintenance lift is designed to fit all hospital beds including bariatric beds weighing up to 600 kg.

Powered by an electric hydraulic lift, its remote control enables easy access for hospital maintenance or engineering staff to carry out servicing or maintenance repairs safely.

Features and options

- Anti-slip/non-skid chequer plate platform.
- Safety lip (20 mm) on three sides of platform (excluding ramp end) to prevent hospital beds from falling.
- Expandable table configuration.
- Side table extensions.
- Add-on front deck to accommodate custom length beds.
- Electric hydraulic lift remote control.
- Hydraulic direct-drive cylinders, designed and made on ANSI standard, utilising oil seal in cylinder.
- Self-lubricating UHMW polyethylene sliders and bronze bush.
- Width Extension Kit for an additional 600 mm.
- Made to order, with a lead time between 8-10 weeks.

Order code	LT600HBML
Lift time	23 seconds
Lowered height	155 mm
Raised height	1090 mm
Overall length	2755 mm
Deck type	Chequer plate
Motor	1.5 HP
Power	240V mains power operated
Lift capacity	Up to 600 kg





An example of Hospital Bed Maintenance Lift with the Width Extension Kit, adding 300 mm to each side.



Custom manufactured lift tables

Our hydraulic lift tables are designed for safety and are offered with an extensive range of capacities, features and options to provide your factory or warehouse with safe and efficient lifting and work positioning.

Smartlift controls are supplied as standard across the range, providing automatic down-indexing, electronic diagnostics and enhanced safety features.

Features and options

- Smartlift controls.
- Available with manual turntables to rotate the load.
- Available with high cycle capacity.
- Available with safety bars or skirts to protect operators.
- Can be adapted for use as personnel lifts, fabrication bench, or assembly bench.

These lift tables are custom manufactured to suit your criteria (with a 6-10 week lead time).

 Can be customised with multiple hand or foot controls, automation, on-board power outlets, or interlocks with associated equipment.

Do you require foot switch controls or a hand pendant control?

- Designed to exceed industry safety standards.
- Made in Australia.



Do you require the lift table to move up and down in small increments?

In order for these units to be quoted to you correctly, we need to gather a comprehensive list of information from you to ensure you have the right unit for the right application, including:		
Capacity of lift table	Is a safety concertina skirt required?	
Platform size	Do you have access to both 240 Volt and 3 phase power?	
Vertical travel	Will you be loading the lift table with a forklift or pallet truck?	
Extended height	Will personnel be riding on the platform?	
Minimum height (if critical)	How many starts per hour will the unit require?	
Type of environment unit will be working in (for example: Outside, factory, cold room).	How many full cycles per hour? (every up cycle is a motor start, full up and down cycle).	
Will the load be evenly distributed?	Will the lift table be working in conjunction with your machinery?	

Pallet positioners

NEW

Resembling a scissor lift table in appearance, pallet positioners have a top deck and a base connected by a pair of scissor legs. The levelling mechanism is a set of springs set to the weight and height of the product.

Pallet positioners work by compressing or decompressing the spring which in turn lowers or raises the load as the weight changes.

Features across the range

- Load setting is a simple process.
- Available in powder-coated safety yellow or galvanized finish.
- Dramatically reduces the effort required to pack palletised goods.
- Built in turntable allows simple load rotation and access to all sides.
- Durable and tough, these pallet positioners can be used in a wide range of applications.
- Automatically keeps pallet or stillage loads at an optimum working height when loading or unloading goods.
- Supplied with three springs as standard.

Take a closer look. Scan the QR code.









- Powder-coated safety yellow finish.
- Lifts up to 2000 kg.

Order code	PL2000P
Platform diameter	1110 mm
Height range	240-705 mm
Base size	920 x 930 mm
Net weight	105 kg
Load capacity	2000 kg



- Galvanised finish.
- Lifts up to 2000 kg.

Order code	PL2000G
Platform diameter	1110 mm
Height range	240-705 mm
Base size	920 x 930 mm
Net weight	105 kg
Load capacity	2000 kg



Battery powered mobile scissor lifts

Powerlift mobile scissor lifts provide lifting at the push of a button. They eliminate the need for manual pumping to provide users with a safe, clean powered lift that is quiet and suited to areas where hydraulics cannot be used.

Powered mobile scissor lifts use a linear actuator (rated IP54) as the lifting mechanism, and a specially developed battery box that powers up to 150 lifts per charge. This eliminates hydraulic fluids or oils and provides a quiet, steady lift force. A high duty cycle, rechargeable battery supplies the power and a push button controller makes operating the Powerlift trolleys effortless to use.

Customisation is also available.

Features across the range

- Highly manouverable and easy to steer.
- Push button control.
- Powder-coated for a quality finish.
- Up to 150 lifts per charge.
- Large diametre, low friction, non-marking grey polyurethane castors for easy manouverability.
- High duty cycle, 240V rechargeable 12 volt battery.
- No power lead drag.
- No manual pumping.
- Made in Australia.

Applications

- Ideal for offices, factories, vets, medical clinics.
- Suitable for applications where hydraulic contaminants can't be tolerated.

Additional options

- IP56 rated actuators are suitable for washdown.
- Static base frame can be supplied for use as a stable lifting platform.
- 240V rechargeable 12V battery.



SLB100

- Lifts up to 100 kg.
- Double scissor lift.

Order code	SLB100
Platform size	895 x 480 mm
Height range	505–1505 mm
Elevation time	20 sec
Unit weight	50 kg
Load capacity	100 kg



SLB250

- Lifts up to 250 kg.
- Single scissor lift.

Order code	SLB250
Platform size	895 x 480 mm
Height range	365-855 mm
Elevation time	20 sec
Unit weight	43 kg
Load capacity	250 kg

Mobile scissor lifts

Our mobile scissor lifts are ergonomically designed with a manual foot pump to elevate the table height, reducing strain and fatigue from bending over and a hand operated release allows the platform to lower in a controlled manner.

Features across the range

- Rear braking system.
- Overload by-pass valve.
- Manual push, precision hydraulic foot pump and quick release system.
- Lockable swivel polyurethane castors with toe guard.
- Hand release lever to lower the table to preferred height.
- Easy to use foot pump allows user to lift to desired height.
- Powder-coated safety yellow for high visibility and extra protection from wear and tear.
- Mobile scissor lifts feature safety restraint bars that lock the platform into the fully raised position.

Applications

Ideal for picking in a warehouse or process work.





Single scissor lift.

Order code	SLM150
Platform size	700 x 450 mm
Height range	220-750 mm
Handle height	950 mm
Castor wheel diameter	100 mm
Foot pumps to maximum height	16
Unit weight	49 kg
Load capacity	150 kg



SLM200

Large base with solid rubber wheels

Order code	SLM200
Platform size	1000 x 500 mm
Height range	390—1000 mm
Handle height	1100 mm
Castor wheel diameter	200 mm
Foot pumps to maximum height	26
Unit weight	60 kg
Load capacity	200 kg



SLM350

Double scissor lift

Order code	SLM350
Platform size	910 x 500 mm
Height range	355-1300 mm
Handle height	975 mm
Castor wheel diameter	125 mm
Foot pumps to maximum height	53
Unit weight	105 kg
Load capacity	350 kg



SLMV500

- Single scissor lift
- Suitable for veterinaries.

Order code	SLMV500
Platform size	1600 x 810 mm
Height range	286—915 mm
Handle height	990 mm
Castor wheel diameter	127 mm
Foot pumps to maximum height	45
Unit weight	155 kg
Load capacity	500 kg



SLM1000

Single scissor lift

Order code	SLM1000
Platform size	1000 x 510 mm
Height range	390—1000 mm
Handle height	1020 mm
Castor wheel diameter	150 mm
Foot pumps to maximum height	72
Unit weight	110 kg
Load capacity	1000 kg



SLM1000H

Double scissor lift

SLM1000H 1200 x 610 mm 500—1500 mm 1020 mm
500—1500 mm
1020 mm
150 mm
150
160 kg
1000 kg

Safety steps



Safety step

- Mobile safety step with spring-loaded castors.
- Durable one piece plastic construction with anti-slip surface.

Order code	SS
Height	395 mm
Platform diameter	315 mm
Unit weight	4.2 kg
Load capacity	180 kg



Square safety step

- Large safety step with rubber feet for safety.
- Durable one piece plastic construction with anti-slip surface.

Order code	SQSSMON
Height	375 mm
Platform size	370 x 370 mm
Unit weight	3.5 kg
Load capacity	180 kg

Pallet trucks

Features across the range

- Totally sealed hydraulic pump with a slow lowering hand control valve.
- Fully adjustable push rod under forks.
- Grease fittings at key point.
- Powder-coated safety yellow for high visibility and extra protection from wear and tear.
- Entry and exit rollers prevent physical exertion of the operator and protect load roller and pallet.
- The entry rollers are located on the front edge of each fork to assist in clean pallet entrance and exit.
- These units make it easy for one person to move extra large and bulky loads.
- Three-position control handle, lower, neutral and lift.
- Steel construction.







Standard pallet truck

- Lifts up to 2500 kg.
- Three sizes: 450 mm, 520 mm and 685 mm wide.

Order codes	PT450 / PT520 / PT685
Fork height range	85–200 mm (PT450)
(minimum to maximum)	75-190 mm (PT520)
	75-190 mm (PT685)
Fork (length x width)	1150 x 160 mm
Overall fork width	450 mm (PT450)
	520 mm (PT520)
	685 mm (PT685)
Unit weight	70 kg
Load capacity	2500 kg

Low profile pallet truck

- Lifts up to 1000 kg.
- 540 mm wide.

Order code	PTLP300
Fork height range (minimum to maximum)	35–90 mm
Fork (length x width)	1120 x 160 mm
Overall fork width	540 mm
Unit weight	75 kg
Load capacity	1000 kg





Wide pallet truck

- Lifts up to 2500 kg.
- 900 mm wide.

Order code	PTW900
Fork height range (minimum to maximum)	75–190 mm
Fork (length x width)	1150 x 160 mm
Overall fork width	900 mm
Unit weight	90 kg
Load capacity	2500 kg

Long pallet truck

- Lifts up to 2000 kg.
- 2400 mm long.

Order code	PTL685
Fork height range (minimum to maximum)	85–200 mm
Fork (length x width)	2400 x 160 mm
Overall fork width	685 mm
Unit weight	120 kg
Load capacity	2000 kg

Short pallet truck

- Lifts up to 2500 kg.
- 800 mm long.

Order code	PTS450
Fork height range (minimum to maximum)	80–190 mm
Fork (length x width)	800 x 160 mm
Overall fork width	450 mm
Unit weight	60 kg
Load capacity	2500 kg

Industrial trolleys

Features across the range

- 150-520 kg load capacity.
- Heavy duty construction.







General duty platform trolley

- Fold-down handle.
- Low maintenance non-slip vinyl deck with rubber bumper.
- Powder-coat finish.
- Carries up to 150 kg.
- Supplied flat packed.

IT150
740 x 480 mm
1000 mm
100 mm diameter grey rubber. Two swivel, two fixed.
11 kg
150 kg

Heavy duty platform trolley

- Bolted on handle.
- Low maintenance non-slip vinyl deck with rubber bumper.
- Powder-coat finish.
- Carries up to 500 kg.
- Supplied flat packed.

Order code	IT500
Platform size	1170 x 765 mm
Handle height	865 mm
Castors	200 mm diameter black rubber/spoked rim. Two swivel, two fixed.
Unit weight	35 kg
Load capacity	500 kg







Powder-coat platform trolley Caged trolley

- Welded fixed handle.
- Powder-coat finish.
- Carries up to 520 kg.
- Six castors.

Order code	IT520
Platform size	1200 x 700 mm
Handle height	1020 mm
Castors	150 mm polyurethane on nylon, four swivel, two fixed.
Load capacity	520 kg

- Heavy duty trolley with full mesh sides and fold down gate.
- Grey powder-coat finish.
- Fully welded.

Order code	ITC340				
Platform size	900 x 600 mm				
Platform height	155 mm				
Handle height	930 mm				
Castors	100 mm diametre grey non-marking rubber, two swivel, two fixed.				
Load capacity	340 kg				

Two tier trolley with top basket

- Grey powder-coat finish.
- Fully welded.

Order code	IT2TC340				
Platform size	900 x 600 mm				
Base platform height	155 mm				
Handle height	930 mm				
Height between levels	400 mm				
Depth of basket	240 mm				
Height to top of basket	840 mm				
Load capacity	340 kg				







Two tier platform trolley

- Two tier trolley with non-slip vinyl decks.
- Rubber bumper on both decks.
- Supplied flat-packed.
- Low maintenance.

Order code	1T220 785 x 485 mm 860 mm			
Length x width				
Height				
Castor diameter	100 mm (two swivel and two fixed)			
Load capacity	220 kg			

Three tier platform trolley

- Three-tier trolley.
- Non-slip vinyl decks with rubber bumper on all decks.
- Supplied flat-packed.
- Low maintenance.

Order code	IT170
Length x width	785 x 485 mm
Height	1000 mm
Castor diameter	100 mm (two swivel and two fixed)
Load capacity	170 kg

Galvanised stock room trolley

- Galvanised flat-bed trolley for increased corrosion resistance.
- Suitable for harsh environments.
- Ideal for coolroom and refrigerated use, greengrocers and supermarkets.

Order code	IT450
ength x width	990 x 460 mm
Height	950 mm
Castor diameter	125 mm (four swivel)
Centre wheels	200 mm (non-marking)
oad capacity	450 kg

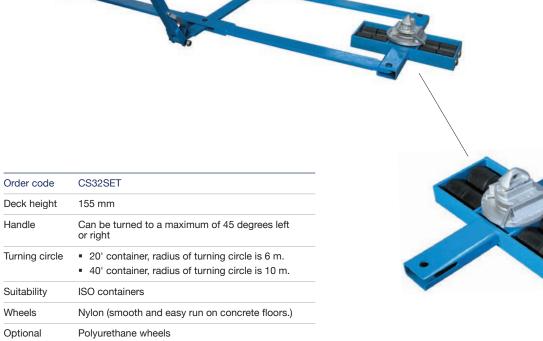
NEW

Container skates

- Container skates are easy and convenient to use, they can manoeuvre a container into a position where a forklift can't go.
- Container skates are ideal for ISO container transport.
- The double roller design results in easy steering due to reduced friction forces.
- Interlocking and force fit between the roller skates and the container.
- Twist locks are used on the front and back to lock and secure the container onto the skate system.









Hand trucks

Features across the range

- Powder-coated.
- RHS and structural steel frames.
- Heavy duty construction.
- Pneumatic wheels.





Box n' bag

- Ideal for heavy loads of boxed and bagged products.
- The axle is specifically designed for load-bearing and easy-tilting, doing the heavy work for you.
- Multi-grip loop handle.

Order code	HTBNB 1290 x 370 mm				
Frame size (L x W)					
Base plate size (L x W)	430 x 240 mm				
Load support	Full height, flat surface RHS frame for secure support of double box stacks. (eg. Safely move 13 cartons of beer instead of 7 cartons with most other trolleys).				
Wheels	265 mm diametre x 70 mm wide black pneumatic on steel rim				
Trolley weight	22 kg				
Load capacity	300 kg				



All rounder

- Multipurpose trolley, excellent for moving heavy drums, barrels, tubs, gas cylinders, garden ornaments, truck parts, paint cans, appliances and large boxed goods.
- Specifically designed load-bearing and easy-tilting axle.
- Ergonomic hand grips.

Order code	HTAR			
Frame size (L x W)	1400 x 370 mm 430 x 240 mm Curved support with 60 mm set back. Adjustable drum holding hook or optional tub holding hook. If no hook is required, simply rotate the mounting collar sideways out of the way.			
Base plate size (L x W)				
Load support				
Wheels	265 mm diametre x 70 mm wide black pneumatic on steel rim			
Trolley weight	20 kg			
Load capacity	300 kg			

NEW



Super mover

- Tall and strong trolley for safely moving big refrigerators, freezers, ATM machines, game machines, tyres, large hot water cylinders, heavy gas cylinders, furniture, etc.
- Specifically designed load-bearing and easy-tilting axle.
- Two hand grip levels.

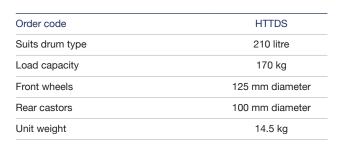
Order code	HTSP			
Frame size (L x W)	1560 x 430 mm			
Base plate size (L x W)	430 x 240 mm			
Load support	Flat			
Wheels	320 mm diametre x 80 mm wide black pneumatic on steel rim			
Trolley weight	28 kg			
Load capacity	300 kg			

Drum handling



Tilting drum stand

- Supplied flat packed.
- Perfect for manoeuvring drums and decanting.
- Handles can be extended and retracted.
- Steel construction.
- Plastic hand grips on handles.







Drum dolly

- Drum dolly allows for convenient portability.
- Easy bolt together assembly.
- All welded steel frame with polyurethane castors.
- Powder-coated safety yellow for high visibility and extra protection from wear and tear.
- Wheels are set on the outer rim for a more even balance of the drum when moving and a less chance of the drum tipping.

Order code	DD610ID				
Inner diameter	610 mm				
Height	155 mm				
Castors	75 mm				
Unit weight	7 kg				
Suits	208 litre drum				
Capacity	400 kg				

Follow-Me Trolley

The Follow-Me Trolley is a highly manoeuvrable flatbed trolley with an articulation system inspired by B-Double trailers and road trains.

Designed with a quick hitching mechanism, each trolley can be easily hitched into a train where it mimics the movement of the object directly in front, giving the whole train a very tight turn circle and allowing it to negotiate tight corners and S-bends.

Combined with an Electrodrive powered tug, up to 10 fully loaded Follow-Me Trolleys can be towed safely by one person through tight shopping aisles.

Take a closer look. Scan the QR code.

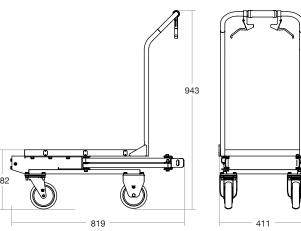


Designed for the smallest tug in our range, the Tug Compact (with its width of only 609 mm) allows it to comfortably fit through doorways and corridors.

Features

- High manoeuvrability of trolley trains through tight corners and S-bends.
- Quick release levers for easy hitching and unhitching.
- Stay in 'front of load', preventing push-pull injuries and the risk of collisions with pedestrians or objects.
- Suitable for retail or industrial environments, including supermarkets where shoppers are pushing trolleys around aisles and passages.
- Can be ordered separately or with the Tug Compact.
- Articulation system can be retrofitted to your existing fleet of trolleys.
- Made to order.





	Order code
Follow-Me Trolley (single trolley)	FOLLOWMETRLY
Tug Compact (no hitch)	TUGCOM500NH
Tug hitch	EDHTFLWMETRLY



The Follow-Me Trolley can also be customised to suit any application. The articulation system can even be retrofitted to your existing fleet of trolleys.

For a hitch that is designed to suit your equipment please refer to page 82.

Please note: We make specialised trolleys to order. This is just one of many designs we have.

Call us today to ask us about our extended range or tell us what you need any we'll quote for you.



Towing a train of trolleys through a store

Problem

A large department store wanted a solution for restocking shelves more efficiently. Their current process was time consuming as it involved a staff member taking a roll cage from the storeroom to a designated aisle in the store, opening and unpacking boxes of stock, filling the shelves, and then returning the roll cage full of empty boxes back to the storeroom. This process was repeated many times across many aisles until all the shelves were stocked.

Apart from being an eyesore, the roll cages also presented a potential injury risk to shoppers if restocking wasn't completed before the store opened. To avoid this situation, staff continually moved roll cages around the store as quickly as possible, increasing the risk of push/pull injuries to themselves.

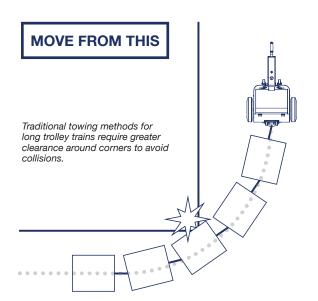
Needing a more efficient and safer way to deliver stock to the aisles, management decided that they wanted trolleys that could be connected into a train. The train had to be able to easily negotiate the tight corners and passageways throughout store, as well as being easy to hitch and unhitch.

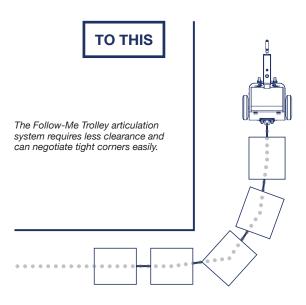
Solution

To address their need, we developed the Follow-Me Trolley, a highly manoeuvrable flat bed trolley with an articulation system inspired by B-Double trailers and road trains.

Designed with a quick hitching mechanism, each trolley can be easily hitched into a train where it mimics the movement of the object directly in front, giving the whole train a very tight turn circle and allowing it to negotiate tight corners and S-bends.

Combined with an Electrodrive powered tug, up to 10 fully loaded Follow-Me Trolleys could be towed safely by one person through the tight confines of the store and delivered at the end of a series of aisles where waiting staff can fill the shelves.







Follow-Me Trolleys in a train easily negotiating an S-bend.

Adjustable feet



Features across the range

- Available in mild and stainless steel.
- Choice of ball joint, bolt-down ball joint, or fixed feet.

Specifications

- Base: Glass reinforced nylon black.
- Ball: Glass reinforced nylon black.
- Pad: Synthetic rubber shore 73.
- Stud: Mild steel plated or stainless steel.
- Nut: Mild steel plated or stainless steel.
- Maximum adjustable angle (ball joint feet): 20 degrees.

Ball joint feet

Pad diameter (mm)	Pad height (mm)	Thread diameter	Thread length (mm)	Base height (mm)	Max load (kg)	Mild steel code	Stainless steel code
40	20	M8	60	33	350	AF20/40/M8/60	-
	20	M10	60	33	500	AF20/40/M10/60	AF21/40/M10/60
60	20	M12	65	51	800	AF20/60/M12/65	AF21/60/M12/65
	25	M16	65	51	1000	AF20/60/M16/65	AF21/60/M16/65
	25	M16	150	51	1000	AF20/60/M16/150	-
	25	M16	165	51	1000	-	AF21/60/M16/165
	25	M20	100	51	1000	AF20/60/M20/100	AF21/60/M20/100
90	25	M12	65	51	1000	AF20/90/M12/65	AF21/90/M12/65
	25	M16	65	51	1000	AF20/90/M16/65	AF21/90/M16/65
	25	M16	150	51	1000	AF20/90/M16/150	-
	25	M16	165	51	1000	-	AF21/90/M16/165
	25	M20	100	51	1000	AF20/90/M20/100	AF21/90/M20/100

Bolt down ball joint feet

Pad diameter (mm)	Pad height (mm)	Thread diameter	Thread length (mm)	Base height (mm)	Max load (kg)	Mild steel code	Stainless steel code
40	20	M8	60	33	350	AF30/40/M8/60	-
	20	M10	60	33	500	AF30/40/M10/60	AF31/40/M10/60
60	20	M12	65	51	800	AF30/60/M12/65	AF31/60/M12/65
	25	M16	65	51	1000	AF30/60/M16/65	AF31/60/M16/65
	25	M16	150	51	1000	AF30/60/M16/150	-
	25	M16	165	51	1000	-	AF31/60/M16/165
	25	M20	100	51	1000	A30/60/M20/100	AF31/60/M20/100
90	25	M12	65	51	1000	AF30/90/M12/65	AF31/90/M12/65
	25	M16	65	51	1000	AF30/90/M16/65	AF31/90/M16/65
	25	M16	150	51	1000	AF30/90/M16/150	-
_	25	M16	165	51	1000	-	AF31/90/M16/165
-	25	M20	100	51	1000	AF30/90/M20/100	AF31/90/M20/100

Fixed feet

Pad diameter (mm)	Pad height (mm)	Thread diameter	Thread length (mm)	Max load (kg)	Mild steel code	Stainless steel code
40	20	M8	35	350	AF40/40/M8/35	AF41/40/M8/35
	20	M10	35	500	AF40/40/M10/35	AF41/40/M10/35
60	20	M12	60	800	AF40/60/M12/60	AF41/60/M12/60

Knock-in tube ends

For adjustable feet

These tube ends are designed to be used with adjustable feet, they are not designed to be used with castors.

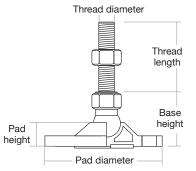
For adaptors or knock-in tube ends to suit castors, please refer to pages 68 and 69.

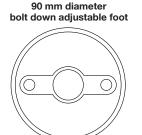
Round knock-in tube end Square knock-in tube end

Square knock-in tube ends

External tube size (mm)	Internal tube size (mm)	Thread diameter (mm)	Knock-in length (mm)	Max load (kg)	Mild steel code	Stainless steel code	Nylon thread code
19	15-16	M10	22.5	50	AFLTS19/M10		
25	22-23	M10	39	250		AF11/25/M10	AFLTPS25/M10
25	22-23	M12	39	250		AF11/25/M12	AFLTPS25/M12
25	22-23	M16	39	250	AF10/25/M16	AF11/25/M16	
30	26-27	M8	39	350	AF10/30/M8	AF11/30/M8	
30	26-27	M10	39	350	AF10/30/M10	AF11/30/M10	
30	26-27	M12	39	350	AF10/30/M12	AF11/30/M12	
30	26-27	M16	39	350	AF10/30/M16	AF11/30/M16	
32	28-29	M8	39	350	AF10/32/M8	AF11/32/M8	
32	28-29	M10	39	350		AF11/32/M10	AFLTPS32/M10
32	28-29	M12	39	350		AF11/32/M12	AFLTPS32/M12
32	28-29	M16	39	350	AF10/32/M16	AF11/32/M16	
35	31-32	M8	39	350	AF10/35/M8	AF11/35/M8	
35	31-32	M10	39	400	AF10/35/M10	AF11/35/M10	
35	31-32	M12	39	400	AF10/35/M12	AF11/35/M12	
35	31-32	M16	39	400	AF10/35/M16	AF11/35/M16	
38	35-36	M8	41	500	AF10/38/M8	AF11/38/M8	
38	35-36	M10	41	500		AF11/38/M10	AFLTPS38/M10
38	35-36	M12	41	500		AF11/38/M12	AFLTPS38/M12
38	35-36	M16	41	500		AF11/38/M16	AFLTPS38/M16
40	36-37	M10	39	500	AFLTS40/M10	AF11/40/M10	
40	36-37	M12	39	500	AFLTS40/M12	AF11/40/M12	
40	36-37	M16	39	350	AF10/40/M16	AF11/40/M16	
51	47-48	M10	39	750		AF11/51/M10	AFLTPS51/M10
51	47-48	M12	39	750		AF11/51/M12	AFLTPS51/M12
51	47-48	M16	39	750	AFLTS51/M16	AF11/51/M16	
51	47-48	M20	39	750	-	AF11/51/M20	

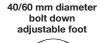
Bolt down adjustable foot





40 mm diameter single hole bolt down flange adjustable foot







Round knock-in tube ends

External tube size (mm)	Internal tube size (mm)	Thread diameter (mm)	Knock-in length (mm)	Max load (kg)	Mild steel thread code	Stainless steel thread code
25	22	M8	38	100		AF81/25/M8
25	22	M10	38	100	AFLTR25/M10	AF81/25/M10
25	22	M12	38	100	AFLTR25/M12	AF81/25/M12
32	28-29	M8	39	200		AF81/32/M8
32	28-29	M10	39	250	AFLTR32/M10	AF81/32/M10
32	28-29	M12	39	250	AFLTR32/M12	AF81/32/M12
32	28-29	M16	32	250		AF81/32/M16
38	35-36	M10	38	300	AFLTR38/M10	AF81/38/M10
38	35-36	M12	38	300	AFLTR38/M12	AF81/38/M12
38	35-36	M16	38	300		AF81/38/M16
51	47-48	M12	38	450		AF81/51/M12
40	36-37	M10	39	500		AF81/40/M10
40	36-37	M12	39	500		AF81/40/M12
40	36-37	M16	39	500		AF81/40/M16
51	47-48	M12	38	450	AFLTR51/M12	AF81/51/M12
51	47-48	M16	38	450		AF81/51/M16
62	60-61	M16	38	450		AF81/62/M16







Serviced Equipment Repairs, maintenance and fitting

Serviced Equipment is a leading provider of preventative maintenance and breakdown repair services for a wide range of industries.

Our qualified staff can help you with:

- Preventative and breakdown maintenance of a wide range of electro-mechanical machines like Electrodrive powered movers and Liftmaster bin lifters.
- Electrical testing and tagging.
- Castor fitting and replacement.

Our experienced technicians hold relevant industry qualifications and are certified to perform service work in the healthcare and industrial sectors.

What we do

Industrial and commercial service

We specialise in servicing materials handling equipment (otherwise known as plant items) across a wide range of industrial businesses. Our highly skilled and experienced technicians have the ability to inspect, diagnose and repair almost any fault with materials handling equipment that is typically used as part of a critical business process. This might involve reprogramming a controller on a Tug, installing a drive wheel to a trolley, upgrading or adding new features, replacing worn components, making modifications backed by our Engineering team, rewiring steering controllers, fabricating and customising brand new parts, replacing oil in hydraulic actuators and much more.

Mobility equipment

Tugs

Back of house

- Bakery equipment
- Deli equipment
- Roll cages
- Stock trolleys
- Flat bed trolleys

Waste handling equipment

- Product display
- Supermarket trolleys
- Bin lifters

Healthcare service

Experience tells us that all healthcare facilities handle the maintenance and repair of equipment differently. Larger hospitals normally centralise their maintenance work through one department that may look after multiple assets for the whole facility. These departments normally outsource their maintenance work to specialist service companies such as ours, who supplement with routine service work and the supply of replacement parts over the long term. On the other hand, smaller healthcare clients, such as aged care homes and day surgeries, may only have a few assets to maintain. This is where reactive "call outs" are better suited and where fast response times and work efficiency are paramount. In both cases, our dedicated service manager will organise the job on your behalf, taking all the work out of solving the problem.

Castors for beds and stretchers

- Clinical beds
- Nursing home beds
- Stretchers
- Gurneys
- Hospital beds

Patient transport and handling equipment

- Mobile floor hoists
- Bed movers
- Wheelchairs
- Power chairs
- Wheelchair movers
- Mobility scooters
- Strollers

Preventative maintenance

Preventative maintenance is a fundamental part of our service delivery. Preventative maintenance is directed towards two basic outcomes:

- Ensure your mobile equipment is always performing at its peak.
- 2. Reduce the total cost of ownership of your equipment.

Our preventative maintenance scheduling allows us to be reactive to urgent call outs for breakdown repairs. This makes us lean and efficient and able to cope with jobs both large and small. From completely rebuilding, rewiring or recondition equipment to replacing the wheels and castors on your trolleys, our routine service work keeps equipment working at its peak and reduces downtime for staff who use it. This has a massive impact on productivity and in turn reduces downtime caused by traditional "break/fix" type servicing.

Maintenance methodology

In addition to a number of standard preventative maintenance checks, adjustments and procedures which need to be performed on every visit, the following steps are applied by Serviced Equipment to define a process for targeting specific remedial call-out reduction.

- Produce an accurate and detailed database of remedial maintenance activities.
- Apply regression analysis techniques to identify the distribution of maintenance issues and develop an optimum preventative maintenance strategy.
- Prepare a detailed preventative maintenance schedule and checklist to implement this strategy.
- Produce statistical data to facilitate analysis of the process.
- Review Preventative Maintenance activities quarterly and adjust accordingly.

This is the basis for a successful preventative maintenance implementation. Commercially, these activities ultimately must result in reduced overall maintenance costs and this will be the measuring stick for success.

Preventative maintenance service plans

BRONZE SERVICE

Bronze service

All materials handling equipment sold in this catalogue come with our standard Bronze service package. The service intervals are specified by us and our Field Service Technician will provide the due dates for the next service using a sticker on the instrument panel.

- Six monthly call cycle.
- Online booking service.

This is a 'pay as you go' package and does not include the security of a fixed price service package. Upgrading your Bronze service will reduce service costs over the longer term and avoid downtime from a preventable breakdown.

SILVER SERVICE

Silver service

This is the minimum recommended level of service cover if you have one or more units in the field. It includes the Bronze level service plus:

- Two scheduled services.
- Basic spare parts included—handgrips, levers, cables, springs.

GOLD SERVICE

Gold service

This is the recommended level of service cover if you have one or more units in the field. It includes the Silver level service plus:

Major spare parts included—gearbox, motor, chain (if applicable), switches, electronics, wheels, castors.

GOLD+ SERVICE

Gold Plus service

This includes all the benefits of the Gold level service plus an extended warranty period of three years.

This level is highly recommended for organisations that have multiple units in the field or for those that have one or more units continually used over three to six month periods.

A fast, reliable and friendly service. Don't risk using someone else!

Serviced Equipment technicians are specially trained to diagnose and repair mobile materials handling equipment using original components without voiding your warranty.

We maintain a complete service history on your behalf. The service history will support the resale value of your asset. Our fixed price service packages are designed to give you the cover you need and give you peace of mind, not surprises.









Fallshaw Group Mobility solutions to help you push, pull & lift with ease

Our brands include:

Fallshaw

Wheels and castors

(?) Electrodrive

Powered mobility equipment

LIFT MASTER

Waste handling solutions



Materials handling equipment



Repairs, maintenance & fitting

We are a single-source solution provider in mobility solutions. As experts in mindful moving, we help our customers improve safety, productivity and profit in any process that involves pushing, pulling or lifting.

- We work with healthcare, commercial and industrial original equipment manufacturers (OEM) to offer components or complementary products that either reduce the lowest total cost of ownership or provide enhanced product features that increase the saleability or value of their OEM equipment.
- We work with healthcare facilities to improve outcomes in their push-pull processes and patient safety.
- We work with industrial end users to improve their move-safe processes.







How it all began

The Fallshaw Group of companies have engineering roots and proud histories of making products to world standards.

Starting as a wheelchair company in 1920, Percy Fallshaw manufactured wheels and invalid's chairs from a factory in Melbourne.

It was then managed for 45 years by Robert Fallshaw, under whose leadership the company started making castors, developing its manufacturing expertise and building an enviable sales network to make it one of the world's leading castor companies. In 1995, Robert expanded the Fallshaw product range by acquiring Liftmaster Materials Handling and its line of bin lifters.

After Robert's regretful passing in 2005, his daughter Jo took over as the Managing Director and owner, and continues the tradition of developing innovative products, and manufacturing well-designed, cost effective, quality castors, delivered in-full and on-time with great service and technical support.

In 2006, Fallshaw acquired Electrodrive (established in 1987)—with its own proud history in design and manufacture of powered materials handling products. As sales grew and the service division of Electrodrive expanded, we established a new company called Serviced Equipment, utilising the team's expertise in providing repairs, maintenance and fitting, not just for Electrodrive products but for a wider range of powered materials handling equipment as well.















A history of innovation

The group's range expanded further when it was joined by Queensland based materials handling retailers and Fallshaw distributors, Castors and Industrial Products in 2015—bringing with them their expertise in conveying and lifting equipment, and The Wheel & Trolley Shop in 2016 (later renamed to Custom Engineered Solutions) a provider of purpose built mobility solutions.

Today the Fallshaw Group boasts an extensive range of powered and mobile materials handling solutions that are designed to increase productivity while keeping your workplace safe from all types of manual handling injuries. And while not all workplaces and situations are the same, we will create a solution for your particular situation where one does not yet exist.

As experts in mindful moving, we can help our customers improve safety, productivity and profit in any process that involves pushing, pulling or lifting.

We strive for intelligently simple and smart product design, where our mobility products are deceptively simple and elegant, with an interface that is intuitive and easy to use.

Our products are not constrained by traditional approaches and we enjoy doing things differently. We think anew about material selection and manufacturing technology and we radically reinterpret mobility product design. Take a closer look Scan the QR code.



Avoiding collisions



Staying in front of load

Towing heavy loads

It is widely accepted that the best way to move a heavy load is by putting it in on wheels. What isn't commonly known is that the safest way of moving a heavy wheeled load, is by towing it with a battery powered tug.

While there are a wide variety of powered tugs on the market to choose from, only Electrodrive tugs are ergonomically designed to keep the operator in front of the load.

Maximise forward visibility

Being in front of the load provides maximum forward vision, reducing the risk of collisions with other people, equipment and structures. An Electrodrive tug features a unique tiller design that helps the operator maintain correct walking posture and reduces the risk of strains to shoulders, arms and wrists from repetitive use.

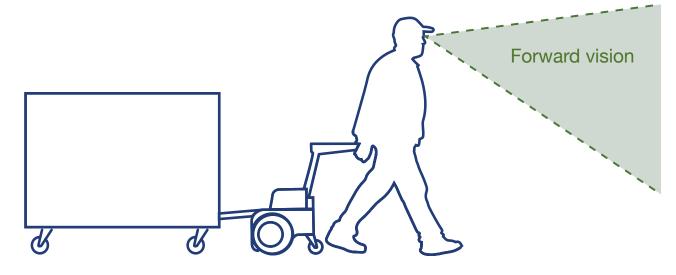
Not all electric tugs are created equal

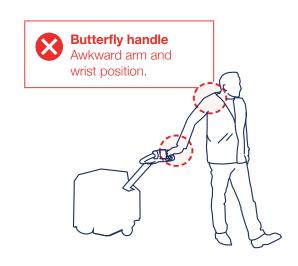
While it is possible to stay in front of the load with other powered tugs, their butterfly shaped controllers are primarily designed for the operator to grip the handle with both hands and push the load.

If used for towing, the butterfly handle design puts the operator's shoulders, arm and wrist at a very awkward angle. Travelling over any distance in this position is not ergonomic for the operator and could increase the risk of shoulder, arm or wrist strains.

An ergonomic natural walking position

By contrast, the tiller handle drive system on Electrodrive tugs seamlessly interact with how the human body moves while walking, keeping the operator in a comfortable position.











Your move-safe solution in healthcare

Whether you're moving beds, linen, food or waste, Electrodrive can help your staff to stay safe, and demonstrate compliance with the Australian Government's Hazardous Manual Tasks, Work Health and Safety Code of Practice.

We are the experts in mindful moving

We work with healthcare facilities to improve safety outcomes in their push-pull processes and patient safety.

We are a single-source solution provider in mobile applications with intelligently simple, smart product design.

We have solutions to prevent push-pull injuries effecting the shoulder, back, neck, arm, forearm/wrist, knee, and hand and fingers.

The cost of doing nothing is huge

The Healthcare & Social Assistance industry suffers more than 17,000 musculoskeletal injuries a year, according to Safe Work Australia (Australian Workers' Compensation Statistics, 2012–13). The median cost of a push-pull injury is \$9,700 with 6 weeks lost. With an annual incidence rate of 12.5 per 1000 employees suffering serious injuries related to injury and musculoskeletal disorders, the cost to a Healthcare facility can be enormous. And of course the personal cost to an injured worker can be devastating.

Known injury risk factors

High forces when manoeuvring wheeled equipment increase the risk of musculoskeletal disorders. Table 1 on the next page offers the best state of knowledge on pushing and pulling, which is based on the work of Snook and Ciriello*. Snook investigated a large number of tasks in which workers had been injured in order to establish the relationship between perceived risk and actual injury occurrence.

Snook's maximum acceptable forces are set out in Table 1, which describes how frequently a worker can push wheeled equipment based on the distance travelled and weight pushed. So, for example, a heavy trolley with 11 kg of sustained push effort can be pushed short distances (7.6 m) every 1 minute, but if you have moderate distances to travel (30.5 m) it is only safe to do this once every 8 hours, and very long distances (61 m+) are not acceptable.

These benchmarks for safe push-pull forces have been adopted as benchmarks within Australia's regulatory environment. But many Australian work places ask staff to push hospital beds or catering and linen trolleys with push effort well above 11 kg for distances and frequencies well above these published government guidelines.

Site assessment and expert advice





Table: Acceptable frequencies for sustained straight line pushing of wheeled equipment over various distances, handle height 890 mm (Snook and Ciriello 1991).

Distance	2.1 m	7.6 m	15.2 m	30.5 m	45.7 m	61 m		
Sustained force	Frequency—75% of female workforce may push wheeled equipment over stated distance once every:							
6 kg or less	6 sec	15 sec	25 sec	1 min	1 min	2 min		
7 kg	6 sec	15 sec	25 sec	1 min	1 min	30 min		
8 kg	6 sec	15 sec	35 sec	1 min	2 min	8 hr		
9 kg	12 sec	15 sec	1 min	2 min	30 min	8 hr		
10 kg	12 sec	22 sec	2 min	30 min	8 hr	Not acceptable		
11 kg	12 sec	1 min	5 min	8 hr	8 hr	Not acceptable		
12 kg	1 min	5 min	8 hr	8 hr	8 hr	Not acceptable		

^{*} Source: A guide to designing workplaces for safer handling of people for health, aged care, rehabilitation and disability facilities—3rd edition, September 2007—Public Sector and Community Services.

Reducing push-pull injuries is easy ...

... if you work with the experts to redesign your work processes.

The Hazardous Manual Tasks, Work Health & Safety Code of Practice, and the related state government industry guideline publications can be so broad that they tell you what the problem is, but offer only vague solutions.

For example, WorkSafe Victoria in their publication *Injury Hotspots Health & Aged Care Services* directs "when pushing and pulling trolleys and wheelchairs, provide equipment that is fit for the purpose and maintained in accordance with manufacturer's specifications".

We can help you go from knowing what the problem is, to actually doing something to fix it. We offer actionable solutions with industry best-practice equipment.

The bottom line

Published government guidelines, developed from evidencebased analysis of injuries in the healthcare sector due to pushing and pulling mobile equipment, mandate that pushing a bed, linen cart or meal delivery system is a two-person job unless a motorised solution is utilised.

Complying with the *Hazardous Manual Tasks*, *Work Health and Safety Code of Practice* makes good business sense as well as being the right thing to do.

Customised castors

Your castor, your way.

Sometimes you just need castors that look different. Whether it's to match a piece of furniture you've designed, to complement your flooring, or just to give your proudly created masterpiece that upmarket touch, we can help you design and build the perfect castor for you.

Because we make our own castors, we can help product designers and manufacturers create their perfect castor with customised colours, wheel materials, fork finish.

We recently helped a leading furniture manufacturer with a total brake castor for their exclusive new lounge collection. With our team's help, we supplied the perfect castor, with colours and elements combined from the Arc, Midnight Black and M Deluxe ranges.

Castors that look the part

A leading manufacturer of high-end wooden furniture needed castors to complement their exclusive range. We supplied a castor that mixed and matched the bright chrome components from the M Deluxe range, the charcoal wheel from the Midnight Black range, and colour-matched a custom colour for the thread guard and pedal.

If you are looking for a particular colourway to match your equipment or furniture, where volume permits, we have a large library of masterbatch colours to choose from. Alternatively we can match any colour from a swatch or a Pantone reference number, ensuring that you'll get the look you want.



Build your own









Products designed by you. Castors made by us.



A leading healthcare equipment company wanted a castor to perfectly match the powder-coat colour of their patient lifters and the blue of their company logo. They also required an ultra-low castor for the front of the patient lifter. We matched the colours, and were able to team a wheel with a custom made low-height fork. In addition, we recommended the use of Chicago screw axles (so there are no ankle-biting sharp edges around patients' fragile skin).



A leading design and manufacturing company wanted a castor for a recliner chair that could be activated using purpose-built engagement into a customised pedal (utilising the fixed pedal technology of the Trinity castor). We added engagement holes into the pedal they designed and moulded in their customised colours, materials and finishes, specified for chemical resistance.



A leading hospital bed manufacturer approached us to develop a castor using their corporate colours with a special pintle to suit their specific dimensions. We adapted our O Series castor and developed a special top cap buffer to prevent fluid ingress.

Custom solution specialists

CASE STUDY

Inoperable cars in auto mechanics

Moving heavy inoperable vehicles in automotive workshops is fraught with issues. Most modern SUVs weigh as much as 1.8 tonne and are high from the ground, making visibility difficult for people on the ground.

It always takes more than one person to move a dead vehicle, with:

- One person in the driver's seat.
- The other at the rear of the vehicle pushing with all their might.

In some cases, there are ramps and uneven surfaces at play, so even if you have two people to do the job, it is near impossible for only one person to push it uphill.

Safety risks

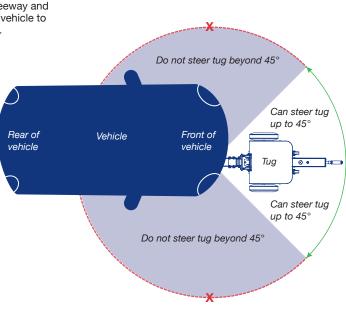
This poses serious safety risks for businesses as it leaves open the chance for staff getting injured or even have a fatal accident from a vehicle rolling backwards.

When you add the risk of damaging property or other vehicles from a runaway car it pays to do the research and find a device that is purpose-built to do that task at hand.

Heavy duty tug

We visited a local mechanic in Melbourne and tested our freestanding, heavy-duty five tonne tug in-and-around the workshop using their existing vehicle's tow-hook attachment. This is normally used by tow-truck operators on the side of freeway and is designed as a hitch point at the front of the vehicle to





Custom solution specialists

CASE STUDY

A tall order with a tight deadline

Problem

A brand new hospital installed a state of the art automatic guided vehicle (AGV) system to transport linen carts back and forth from the wards to the loading dock, where waiting trucks would take the carts to a commercial laundry, and return with the freshly cleaned linen. However the brand new linen carts (which were customised to fit an AGV passing underneath) were too wide to fit three carts across the width of a truck. The hospital needed to find a way to reduce the widths of the carts before opening day, or face having to pay a third more for trucks and drivers, increasing the hospital's running costs upwards of six figures.

Solution: Ultra slim self-aligning castor

With the hospital opening only eight weeks away, and the new linen carts and AGVs already paid for and delivered, the only components that could be modified were the linen cart castors.

Desperate, the hospital approached us with this tall order. It was a massive challenge but our design expertise and tooling capability allowed us to produce a thinner prototype in just one week. Working with Fallshaw Wheels & Castors, we delivered enough ultra slim self-aligning castors to fit the hospital's entire fleet of carts within seven weeks. At just 61.5 mm, it ensured that the hospital could comfortably fit three linen carts across a delivery truck's width, saving the hospital from an increase in running costs.



The Continuous Improvement and Tool Room team who produced the prototype within a week of the hospital's request.

Ultra slim self-aligning castor features

- Only 61.5 mm wide.
- Retrofittable to existing carts and trolleys.





Pictured: The modified narrower castor top plate (left) had to be 61.5 mm in width, compared to the original 70 mm version (right).

Custom solution specialists

CASE STUDY

Preventing cleaning carts from rolling onto railway tracks

Problem

A cleaning company maintaining train stations needed a solution to stop their unattended cleaning carts from potentially rolling onto railway tracks and into the path of an oncoming train.

Solution: Deadman brakes

The inspiration for the solution came from the same safety technology already found in the trains that travel through. We designed a deadman brake which could be retrofitted to their existing fleet of cleaning carts.

To operate the cart, a person would need to squeeze two levers underneath the handle bars to disengage the brake. When the cart was stationary and levers were released, the brake would activate, stopping the carts from rolling on their own. This eliminated the risk of accidents.

Deadman brake system features

- Retrofittable to your existing carts and trolleys.
- Customisable braking options to suit your trolley design and requirements.



Custom solution specialists

CASE STUDY

Moving and lifting animals

Problem

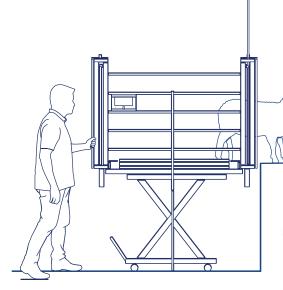
A veterinarian was looking for a safer way to move their pigs and sheep from their pens to a set of scales for weighing. The current process took five hours to complete and involved up to four people moving all of the animals in and out of pens and onto the weigh scales. The work was physically demanding, carried out in a hot and noisy environment with animals that can be stressed. This presented numerous injury risks to both the staff and animals as they negotiated between the pen and the scales.

Solution: Mobile weigh station

Our team went out to assess the area and produced a mobile weigh station built using equipment and expertise from Castors & Industrial, Fallshaw and Electrodrive.

The mobile weigh station was designed with special safety rails and doors which allowed it to be taken directly to the pen where the animal can walk straight onto the scales, and then back to the pen again. The scales can also be elevated to suit the different platform heights around the area.

With the mobile weigh station, what once took four people, five hours to do, can now be accomplished with two people in just two hours.



Mobile weigh station features

- Battery powered scissor lift.
- Safety rails and doors.
- Heavy duty castors with brakes.



Information and guides

- Trading policies.
- Conditions of use for castors.
- Delivery policy.
- Test summaries for wheels and castors.
- Test summaries for materials handling equipment.
- Maintenance and fitting.
- Warranty.
- Fork mount dimensions.



Trading policies

Customer satisfaction policy

We improve our services by listening to any customer complaints. Occasionally customers take the trouble to tell us if our service was less than perfect, but most dissatisfied customers simply cease to deal with us—to our loss. We treasure those who complain—it is only through the trouble they take that we can improve.

We undertake to respond to any complaints within two business days.

We believe you will be happy, but if you are not ...

Firstly try to sort it out with our distributor or branch. If you are still unhappy, feel free to contact our Managing Director— Jo Fallshaw directly on +61 3 9300 8542 or email her at jo@fallshaw.com.au. We are determined to maintain a high standard and continuously strive for perfect quality and service.

Reduction of Hazardous Substances (RoHS) statement of compliance

This is a directive of the European Union (Directive 2002/95/EC) that restricts the use of hazardous materials in the manufacture of various types of electronic and electrical equipment. Hexavalent Chromium is one of these chemicals and has been traditionally used in the zinc plating industry. We hereby certify that our products (sold under the Fallshaw brands*) comply with RoHS regulations and do not contain the following banned substances:

- Lead
- Polybrominated Biphenyls
- Pentabromodiphenyl ether (PentaBDE)
- Mercury
- Cadmium
- Polybrominated Diphenyl Ether
- Octabromodiphenyl ether (OctaBDE)
- Hexavalent Chromium.
- * For special-ordered products or products sold under other brands, please inquire about RoHS compliance prior to ordering if this is important to you, and we will research the RoHS compliance or otherwise of the particular item concerned and provide a separate written statement.





Conditions of use for castors

Although manufactured in Australia, Fallshaw Wheels & Castors have adopted the general safety standards and conditions of use defined in the European Union General Product Safety Directive (GPSD) 2001/95/EG (harmonized with the German Law of Liability for Products Prod-HaftG) as this directive has more extensive product requirements additional to the general requirements of the Australian Competition and Consumer Act 2010. Please be advised that our manufacturer's warranty is subject to observing the following information. Deviation from this information will release Fallshaw Wheels & Castors from the manufacturer's liability.

1.0 Product information and determined use

Wheels and castors are defined as constructional parts that are generally interchangeable.

They are fitted to apparatus, furniture, transport systems or similar products to make them mobile.

This product information refers to castors and wheels, particularly to swivel castors (not steer castors) which are used on non-powered equipment at a speed not exceeding walking pace and not being under continuous motion.

Castors and wheels according to this product information. can be divided into the following categories of application:

- Domestic use—such as seating and furniture.
- General services—such as shopping trolleys and office equipment.
- Health care services—such as hospital beds and patient trollevs.
- Industrial purposes—such as transport equipment with medium and heavy duty load bearing capacities.

Our products will give a long and trouble-free life if the following criteria are adhered to:

- 1. Correct and secure fitting at the designed position.
- 2. The fitting must have adequate strength and material for a secure fitting.
- 3. The function of the castor must not be changed nor affected by the fitting.

- 4. The swivel action axis must be vertical at all times.
- 5. Fixed castors must have their wheel axles perpendicular to the direction of travel.
- 6. If only swivel castors are used, they must be common to each other. If fixed castors are used in conjunction with swivel castors then all castors must be compatible and recommended by the manufacturer.

If castors are used in corrosive environments such as outdoors, coastal areas, corrosive and/or aggressive areas (like chicken farms), and where castors have cleaning regimes requiring water resistance of greater than IPX4, and where castors are exposed to caustic substances, special products have to be specified. See the chemical resistance chart on page 47 for a clear indication of suitability.

For use in temperatures below 5°C and above 30°C, the performance of the castor can be impaired, particularly the normal load capacity as published can be affected when used in temperatures below/above those stated herein. Special products can be specified (see pages 53 to 55).

2.0 Misuse

The word 'misuse' is defined as:

















Overloading Uneven floors

Excessive (high or low) temperatures

Failure to release brakes

Exposure to caustic substances

Excessive shock load

Ingression of foreign objects into the wheel tread

Excessive speed

Influence of lateral forces

Modifications not previously agreed to with the original manufacturer

Should the user not find a product clearly described in the manufacturer's catalogue, leaflets or descriptive literature, then any new castor designed for the particular application has to be fully agreed with the manufacturer. Any new designs effected will be subject to the relevant standards (ISO, IEC, etc).

4.0 Maintenance and cleaning

3.0 Product capability

Regular maintenance of castors is required in order to maintain the warranty (as defined in the 'Maintenance and Fitting' section of this catalogue).

Should any cleaning agents be used, then these same agents should not contain corrosive, nor grinding elements. Our products are rated to IPX4 unless otherwise stated on the product page, therefore cleaning with high pressure water (especially if the water is mixed with caustic chemicals and forced into the castor thereby displacing grease or forcing water past seals) will void the warranty. Cleaning should be conducted by following the correct dilution ratio for the cleaning detergent and wiping with a damp cloth.

Delivery policy

Fallshaw's factory and main stock holding is in Sunshine, Victoria (Melbourne, Australia). We also carry stock holdings in Silverwater New South Wales, and Stapylton Queensland.

We have a national freight policy, whereby we subsidise freight prices from Melbourne to other Australian destinations so that there is no price disadvantage to receiving stock direct from Melbourne rather than from a local branch. This helps us to prevent double-handling and thereby reduce costs. This keeps our prices competitive for all our customers.

This Despatch Policy is the lead time to despatch an order that our sales people can commit to without making separate inquiries to the Production & Assembly Factory. We ensure we have sufficient stock and manufacturing capacity to reliably deliver against these lead times. We can often do better on request, but you'll need to check first. We can also provide customised replenishment and stocking solutions for our account customers, when particular high-volume products are required on an ongoing basis (so goods are packed and ready to be called up against a firm order).

If an order is placed *before* 10am (Melbourne time), goods are available for collection or despatch from 3pm until 4pm the *same day*, and anytime the day after.

If an order is placed *after* 10am (Melbourne time), goods are available for collection or despatch from 12pm until 4pm the *next day*, and anytime the day after that.

Express freight options available on request. All days are business days. WA freight departs on Tuesdays and Fridays.

Despatch lead times for order quantities

Product group	1–50	51–100	101–300	301–500	>500
Fallshaw General castors (Light to medium duty, general duty and heavy duty)	Same day	2 days	3 days	8 days	Determined upon request
Fallshaw Wheels	Same day	2 days	3 days	8 days	Determined upon request
Fallshaw Pneumatics	Same day	2 days	8 days Determined upon request		
Fallshaw Fitting & spares	Same day	2 days	3 days	8 days	Determined upon request
Product group	1–12	13–20	21–50	51–150	>150
Fallshaw Decorative castors	2 days	2 days	8 days Determined upon request		upon request
Fallshaw Medical castors & wheels	2 days	2 days	8 days Determined upon request		upon request
Fallshaw Specialised castors*	2 days	2 days	8 days Determined upon request		upon request
Fallshaw General castors (Very heavy duty: W and X series)	2 days	2 days	Determined upon request		
Fallshaw General castors (Very heavy duty: V and A series)	2 days	Determined upon request			
Product group	1–2	3–5	6–10	11–20	>20
Electrodrive Powered mobility equipment	5 days	10 days	Determined upon request		
Liftmaster Waste handling equipment	5 days	10 days	Determined upon request		
Castors & Industrial					
Materials handling equipment:					
	Same day	Same day	Same day	Same day	Same day
Materials handling equipment:	Same day Same day	Same day 3–4 days	Same day 3–4 days	Same day 3–4 days	Same day 3–4 days
Materials handling equipment: Adjustable feet and knock-in tube ends	,	,	3–4 days	,	3-4 days
Materials handling equipment: Adjustable feet and knock-in tube ends Hand trucks, safety steps & drum handling	Same day	3–4 days	3–4 days	3–4 days	3–4 days
Materials handling equipment: Adjustable feet and knock-in tube ends Hand trucks, safety steps & drum handling Industrial trolleys, mobile scissor lifts and pallet trucks Conveyors (except standard galvanised and	Same day Same day	3–4 days 3–4 days	3–4 days	3–4 days	3–4 days
Materials handling equipment: Adjustable feet and knock-in tube ends Hand trucks, safety steps & drum handling Industrial trolleys, mobile scissor lifts and pallet trucks Conveyors (except standard galvanised and polypropylene rollers: same day)	Same day Same day 8–10 days	3–4 days 3–4 days 8–10 days	3–4 days Dete	3–4 days ermined upon rec 8–10 days	3–4 days quest 8–10 days
Materials handling equipment: Adjustable feet and knock-in tube ends Hand trucks, safety steps & drum handling Industrial trolleys, mobile scissor lifts and pallet trucks Conveyors (except standard galvanised and polypropylene rollers: same day) Pallet positioners	Same day Same day 8–10 days Same day	3–4 days 3–4 days 8–10 days 3–4 days	3–4 days Dete 8–10 days 3–4 days	3–4 days ermined upon rec 8–10 days 6–8 weeks	3–4 days quest 8–10 days 6–8 weeks 6–8 weeks

^{*} Excludes Self-Aligning Castors. These castors are not a stocked item due to highly variable demand. Manufactured to order with lead time determined upon request.

Test summaries for wheels and castors







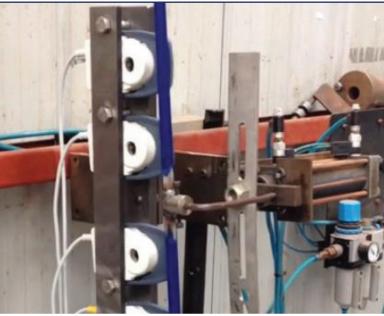




				THE PERSON NAMED IN COLUMN 1	
Applicable standards and test methods	Dynamic test	Brake life	Static load test	Impact test	Brake effectiveness
Hospital bed castors IEC60601-2-52 • Central locking • Trinity & Trinity EBC	1x load capacity with 2.88 km/h speed. Obstacle height 20 mm, 80 mm wide, 90° to travel, 1.5 mm radius on edge. Dynamic run of 10x forward and reverse bumps over obstacle.	Apply brakes 10,000 times without brakes failing.	Apply 3x load capacity for 1 hour. No deformation after 24 hours elapsed time.	N/A	1x load capacity at 10° incline with brakes on. Slippage must be < 10 mm.
Castors for furniture AS1961.3-2004 (ISO 22879:2004) Castors with a diameter of 50 mm or less	Apply 125% of load capacity, 2 mm bump, space 500 cycles, 6.5 cycles/min.	N/A	Apply 2x load capacity for 24 hours. No deformation after 24 hours elapsed time.	30 kg load capacity: 5 kg from 200 mm free fall drop. 40 kg load capacity: 5 kg from 300 mm free fall drop. Proper function (minor deformation allowed).	Load castor to 1x load capacity, then apply horizontal force of 20% of load capacity without brakes allowing wheel to swivel.
Castors for manually propelled equipment for institutional applications—AS1961.5-2004 (ISO 22881:2004) • Light to medium duty ranges (excluding Economy and castors with diameter < 50 mm)	1x load capacity at 3 km/h speed. Obstacle height 3% of wheel diameter and with a radius 1/3 of height. Number of obstacles to be 10 times x wheel diameter in mm distance apart 1–3m. Initial swivel play less than 4 mm (measured at 200 mm); final swivel play < 8 mm.	Apply brakes 5,000 times without brakes failing.	Apply 1.5x load capacity for 1 hour. No deformation after 24 hours elapsed time.	N/A	Load castor to 1x load capacity, then apply horizontal force of 20% of load capacity without brakes allowing wheel to swivel.
Applications up to 1.1 m/s (4 km/h)— AS1961.7-2004, ISO 22883:2004 • General to heavy duty castors	1x load capacity at 4 km/h speed. Obstacle height: 2.5% of wheel diameter > 90 shore A; 5% of wheel diameter < 90 shore A. Number of obstacles to be 500 and to be 1 m apart, then remainder of 15,000 revolutions of the wheel without obstacles. Initial swivel play < 4 mm (measured at 200 mm). Final swivel play < 8 mm.	Apply brakes 5,000 times without brakes failing.	ABOUT THE BRAKE EFFECTIVENESS TEST The ISO brake effectiveness tests are extremely harsh. They exist to ensure that brakes are ramp-capable by measuring brake traction force. However this greatly reduces the load capacity of the castor that is otherwise appropriate in safely complying with the ISO Static, Dynamic and Impact tests. At Fallshaw, our approach is to rate the castor for normal use on flat surfaces. However if your application involves brake application on ramps or inclines then you MUST reduce the catalogue load rating by 0–40% in order to comply with the ISO brake effectiveness test (except in hospital bed castors which are fully compliant at published ratings).		Load castor to 1x load capacity, then apply horizontal force of X% of load (3 times x 10 seconds) without brake allowing wheel to swivel. X=10% for tyre hardness > 90 shore A X=15% for tyre hardness < 90 shore A.
Applications over 1.1 m/s (4 km/h) and up to 4.4 m/s (16 km/h)¹—AS1961.8-2004 (ISO 22884:2004) • Very heavy duty castors (excluding Economy range)	1x load capacity at 6 km/h speed (bumps 1 m apart) and 10 km/h speed (bumps 1.5 m apart). Obstacle height: 2.5% of wheel diameter for tyre hardness > 90 shore A; 5% of wheel diameter < 90 shore A. Number of obstacles at 5 times the wheel diameter. Initial swivel play < 3 mm (measured at 200 mm). Final swivel play < 6 mm.	Apply brakes 5,000 times without brakes failing.			Load castor to 1x load capacity, then apply horizontal force of X% of load (3 times x 10 seconds) without brake allowing wheel to swivel. X=10% for tyre hardness > 90 shore A X=15% for tyre hardness < 90 shore A.

^{*} The ISO standard for dynamic testing specifies 3 min ON/1 min OFF or 2 min OFF or 3 min OFF. However, we test 3 min ON 3 min OFF in applications where excessive heat build up would not be experienced in the field and is not a failure mode. Change direction each cycle. Obstacles at 45° alternating left/right.

¹ Note that we only provide castors for towing up to 10 km/h.



Other standards relevant to Fallshaw products

- Shopping trolleys—For general use—AS/NZS 3847.1:1999
- Shower/toilet chairs (mobile and static)—AS/NZS 3973:2005
- Neutral salt spray (NSS) test—AS2331.3.1-2001
- Powder-coating adhesion—AS1580 Method 408.4

And that is only the beginning

We often develop tests in conjunction with our customers to replicate the harsh conditions or long life cycle expectations that will be experienced by products in real world conditions. We can then supply evidence of testing in video format as well as formal test reports.

Here's one of our favourite examples. One of the 25 tests that Trinity EBC has to pass to meet our standards, is a Long Life Brake Cycle Test. The Trinity EBC has a brake designed for 60,000 brake ON/OFF cycles and we conduct this test over 100 hours, ensuring that Trinity EBC will continue to be dependable out in the field.



Individual Test Report No. - \$6468, \$6482, \$6490

Test Requirement

- No of Cycles: Mechanical Brake on/off 20,000 cycles (headrace only)
- No of Cycles: Electrical Brake on/off 40,000 cycles (full castor, feedback system monitored)
- Test Load: 150kg on test trolley (4 castors)
- . Rate: 10 Cycles / Minute
- Duration: 100hrs
- Pass Criteria: Fully operational braking system to ISO 22882 at the completion of test, including all EBC functions and no greater than 0.5% failures detected by feedback system.

- 1. IEC 60601-2-52 Testing
- 1.1 Threshold Test
- 1.1.1 EBC
- 1.1.2 Trinity 100 (4")
- 1.1.2 Trinity 125 (5")
- 1.1.3 Trinity 150 (6")
- 1.2 Instability in Transport Ramp Test
- 1.2.1 Trinity 100 (4")
- 1.2.3 Trinity 125 (5")
- 1.2.4 Trinity 150 (6")
- 1.3 Cable Pullout Test EBC Only
- 1.4 Cable Torque Test
- 2. ISO 22882 (AS 1961.6 2004, EN 12531:1998) Hospital Castor Testing
- 2.1 Braking Fatigue Test (10,000 on/off)
- 2.1.3 Trinity 100mm and 150mm
- 2.1.4 Trinity EBC
- 2.2 Wheel Braking Test
- 2.3 Swivel Braking Test
- 2.3.1 Tested in Total Brake
- 2.3.2 Tested in Direction Lock
- 2.4 Static Load Test
- 2.5 Dynamic Run Test
- 3. Fallshaw Inhouse Testing
- 3.1 Long Life Run Test (30,000 Obstacles)
- 3.1.1 Trinity 100 Pintle and washer mount
- 3.1.2 Trinity T125 Pintle and washer mount
- 3.1.2 Trinity 150 EBC
- 3.1.3 Trinity 150 washer mount
- 3.1.4 Trinity 150 Pintle Mount
- 3.2 Long Life Brake Cycle Test (60,000 on/off) EBC Only
- 3.3 Dynamic Brake Test EBC Only
- 3.4 Side Impact
- 3.4.1 Tested in Direction Lock
- 3.4.2 Tested in Total Brake
- 3.5 Pedal Impact
- 3.6 Castor Impact
- 3.7 Linear Swivel Test
- 3.8 Dynamic Run Test
- 3.9 Individual Swivel Resistance Test
- 3.10 Mounted Rolling/Swivel Resistance
- 3.11 Brake Usage Life Cycle Test EBC Only
- 3.12 Intuitive Steer Test
- 3.13 Direction Lock Side Drag Test
- 3.14 Direction Lock Bump Test



Test summaries for materials handling equipment

Relevant legislation and regulations for all powered materials handling equipment (bin lifters, tugs and bed movers)

- · Occupational Health and Safety Act 2004 [OH&S Act s40(2)].
- Occupational Health and Safety Regulations 2007 [OH&S Regulations Part 3.5, 6.2.1-6.2.8, Part 1, Schedule 2].
- Equipment (Public Safety) Regulations 2007 [EPS Regulations 801-806, Schedule].
- · AS 3000: Wiring Rules.
- AS 1319: Safety signs for the occupational environment.
- AS 1431: Low Voltage Switchgear and Control gear—Control circuit Devices and Switching Elements.
- · AS 1775: Low Voltage Switchgear and Control Gear.
- · AS 1939: Classification of degrees of protection provided by enclosures for electrical equipment (IP code).
- · AS 2005: Fuses with enclosed fuse links.
- · AS 2467: Maintenance of electrical switchgear.
- AS 2700: Colour standards for general purposes.
- · AS/NZS 3000: SAA Wiring Rules.
- AS/NZS 3008.1.1: Electrical Installations—selection of cables.
- AS 3147: PVC insulated electric cables and flexible cables for working voltages of up to and including 0.6/1 kV.
- · AS 3193: Transformer type battery charges.
- AS/NZS 4836: Safe working on low-voltage electrical installations.
- ASC 320: Classification of insulating materials for electrical machinery and apparatus on the basis of thermal stability in service.

Tugs

- AS2359—Powered industrial trucks (AUST)
- AS4024—Safety of machinery (AUST)
- ANSI/ITSDFB56.9-2007, Safety Standard Operator Controlled Industrial Tow Tractors
- (US) Directive 2006/42/EC (EURO)
- AS 1554.1:2011—Structural Steel Welding

• IEC60601-1

- · IEC60601-2-52
- Medical Device Directive (93/42/EEC) (EURO)
- AS 1554.1:2011—Structural Steel Welding

Bin lifters

- AS4024—Safety of machinery (AUST)
- AS 1554.1:2011 Structural Steel Welding







Production Testing	Tugs	Bed movers	Bin lifters
Pre-assembly	Bench testing of critical electro-mechanical components including motors and actuators.	Bench testing of critical electro-mechanical components including motors and actuators.	Bench testing of critical electro-mechanical components including motors and actuators.
In process	Current draw test during assembly on electro- mechanical components.	Current draw test during assembly on electromechanical components.	Load testing. Cycle testing of hydraulic system. Inspection of fluids.
Pre-delivery	Output performance check Record speed & check speed chart. Record load test & check load chart. Check appropriate labels are fitted.	Output performance check Record speed & check speed chart. Record load test & check load chart. Check appropriate labels are fitted.	Check for fluid leaks. Test limit switch function. Check appropriate labels are fitted.
In service	Diagnostics check. Functional assessment check.	Diagnostics check. Functional assessment check.	Functional assessment check. Review for worn parts.

Maintenance and fitting

Under average conditions of intermittent use, Fallshaw castors will run for five years without maintenance. If the castors are in constant use, this reduces to one year.

Correct fitting

Castors will not swivel properly unless they are mounted vertically. Otherwise they will track to one side.

Heavy trolleys need plate mountings, but the base of the trolley must be strong enough to withstand the load. Never mount a plate castor by three bolts only. Never skimp on the mounting base.

You can get up to 8 mm of adjustment with washers, or an off cut of tube tightly jammed between leg and castor—but do not let it float. Tighten tubular fittings firmly, but do not over-tighten.

You should retighten castors after three months of use, and annually after that. We recommend 'three finger' tightness—the amount of torque you can get onto a standard spanner using your three middle fingers.

Tube fittings

Medium duty castors are often mounted into tubular legs. But again, it is important that these legs stay vertical.

We recommend that the leg never extend more than 125 mm below the nearest support, and (apart from the lightest uses), the tube should be 1.4 mm thick or more. Thinner gauges often split. If you wish to use lighted gauge in the rest of the trolley, insert a sleeve for at least 150 mm where the castor is mounted.

Never put a round expanding fitting into a square tube as when the trolley hits a bump, the tube is likely to elongate, and the castor may fall out. We do have square fittings, and ask that you use them. If for some reason you need to put round into square, then weld an insert sleeve of round tube (remember—our smallest fitting needs 3/4" ID). When using Directional Lock (DL) type castors it is best to use the solid swivel stem and weld or bolt it in—screwed types can become misaligned. To achieve the best performance from the larger 175 mm and 200 mm castors use solid stems.

When fitting expanding stem castors, make sure that the fitting is fully inserted into the tube, with the tube firmly down onto the castor head rivet, before tightening it up (you may have to remove some of the burr on the inside of the tube before you try

to push the fitting in). After making sure the weld on the inside of the tube is not excessive, align it with one of the slots down the outside of the adaptor fitting. Put the fitting into the tube all the way, then put some sideways pressure on to it to help the fittings grip, then tighten the stem bolt firmly. Do *not* over-tighten, or you will make it hard to remove later. It is advisable that any tube fitting on expanding stem castors be checked after the first three months, and then yearly to make sure the tube fitting is fully and firmly into the tube and the tightening nut is firmly but not over tightened.

Greasing

Grease in both the swivel head race and the wheel serve three purposes:

- Prevents rusting of the balls and raceways.
- Prevents galling.
- Reduces noise.

It does not need a lot of grease to do this. Too much is unsightly and only attracts dust. A liberal smear is all that is needed. If you only have a few castors to grease, use your finger to apply the grease, then wipe off the excess with a rag or use a needle tip grease gun.

If you have many of them we suggest the following:

- Turn the trolley upside down and remove the wheels.
- Re-grease the head, either through the grease nipple if fitted, or by a needle tip fitting on a grease gun. You will need to lift the seal on the heavier range of castors with a sharp pointed screwdriver. Two full squirts are usually adequate, but make sure enough grease gets through to the centre so it can descend to the bottom race.
- Check the wear of the axle bushing. Reuse if not heavily worn, otherwise replace. Smear about a teaspoon of grease along the inside of the wheel bearing with your finger, taking care to force the grease up into the rollers and reassemble.
- Be careful of the lip seal on the wheel as you reinsert the axle bushing into the roller bearing wheels. Make sure the axle bushing is clean as you reinsert it.
- Reassemble the wheel into the castor. Replace washer where fitted. A drop of Locktite High Assembly Strength solution on the axle thread is a good precaution.
- Use a No. 2 bearing grease (not sodium based).



Wheel bearings

Any slackness present in plain bearings or roller bearings can often be improved by replacing the axle bushing. If necessary, the plain or roller bearings can be replaced as well. Often simply re-greasing B type bearings is enough, though they can also be replaced if necessary. Sealed precision Q type bearings seldom wear sufficiently enough to need attention.

Warranty

Our products are warranted against defects in materials or workmanship for the following periods:

- Fallshaw general castors
 - 3 years
- Fallshaw decorative castors
 - 3 years

Fallshaw medical castors and wheels

- Trinity series (including Trinity Electronic Braking Castors)—3 years
- Central locking castors—3 years
- Conductive wheels—3 years
- Wheelchair castors—3 years

Fallshaw specialised castors

- M Stainless steel 3 years
- O Stainless steel 3 years
- M Powder-coat 12 months
- High/Low temperature—12 months
- Self-aligning—3 years
- Supermarket trolley and travelator castors—12 months

Fallshaw wheels

- Soft—3 years
- Polyurethane—3 years
- Hard-3 years
- Pneumatics and puncture-proof—12 months

Fittings and spares

- Fittings—3 years
- Spares for pneumatics and general wheels—12 months
- General spares—3 years

Electrodrive powered mobility equipment

- Unit-12 months
- Battery 6 months

Liftmaster waste handling solutions

- Unit-12 months
- Battery-6 months

Castors & Industrial materials handling equipment

- Unit-12 months
- Battery—6 months

Serviced Equipment repairs, maintenance & fitting

- Parts excluding batteries 12 months
- Battery-6 months
- Repairs—6 months

Any product that fails within the warranty period will be replaced with an equivalent product, delivered to the customer's store free of charge and freight cost. The warranty does not extend to the fitting of the product. The website, catalogue and operating manuals specify the conditions of use, installation and maintenance for our products. Customers should choose, use and maintain our product according to our recommendations, or they may become unsafe or product life could be compromised, and our liability may be voided.

This warranty excludes the effects of fair wear and tear, abuse, misuse, improper installation and inadequate maintenance. In unusual or severe applications not clearly similar to those on the website or in the catalogue, the customer is invited to submit a written description of the application against which we will make a recommendation, and which will form a part of the acceptable use conditions of the recommended product. If our catalogue is unclear, or if your application is not clearly covered by the examples given in the catalogue, we ask you to contact our staff for advice. We want to help, and we have the technical information to share if we know your needs.

Fork mount dimensions

