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Trinity



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, with only two pedal positions: horizontal for swivel and down for total brake.

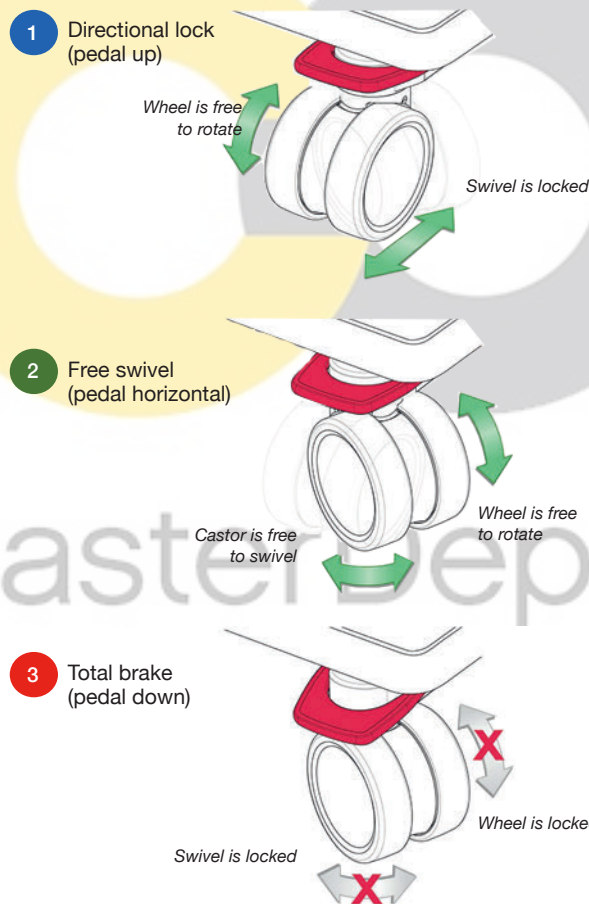
Innovative patented design

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

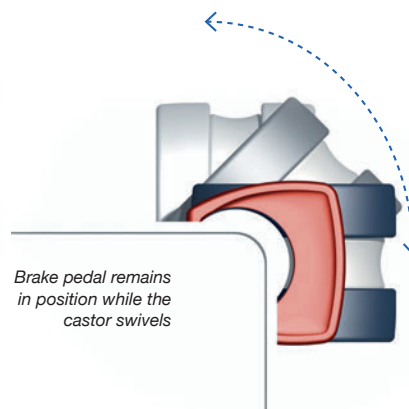
Three-in-one brake

The advanced braking system provides three brake functions—directional lock (up), free swivel (horizontal) and total brake (down)—controlled by soft touch actuation pedals.



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.



Low mount heights and tight turning radii

	Wheel Diameter	Height (mm)	Turning radius (mm)
Swivel Swivel only	100	133	85
	125	161	110
	150	185	135
In-line pedal Pedal in-line with directional lock	100	133	85
	125	161	110
	150	185	135
90 degree pedal Pedal at 90 degree angle to directional lock	100	133	85
	125	161	110
	150	185	135

Trinity Electronic Braking Castors

TRINITYEBC



Built on the innovation of Trinity 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.

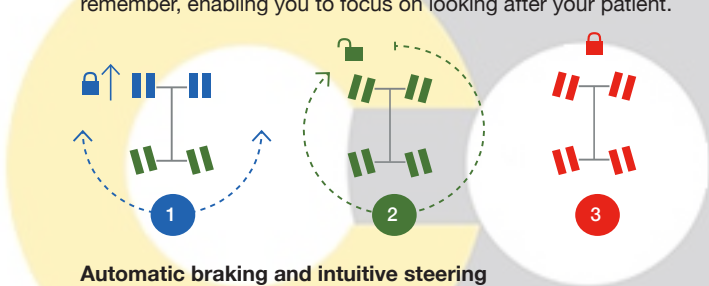
Never forget the brakes again

In a high pressure environment like a hospital ward, it is very easy to forget to engage the brakes on a hospital bed or on specialised medical equipment. 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 iPhone™

Just like your iPhone™ 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. This automates another task you have to remember, enabling you to focus on looking after your patient.



Automatic braking and intuitive steering

- 1 Purposeful movement in either direction engages the directional lock to the forward wheels, allowing the rear wheels to do the steering.
- 2 No movement for one second disengages the directional lock and allows free swivel movement to all four castors.
- 3 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.

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.

Control System

Trinity EBC is fully customisable. 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.

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.

FEATURES	100 mm wheel	125 mm wheel	150 mm wheel
Mount height*	133 mm	161 mm	185 mm
Turning radius	85 mm	110 mm	135 mm
Standard fittings	<ul style="list-style-type: none"> • 32 mm pintle or 28 mm ISO pintle • Washer 		
Standard features	<ul style="list-style-type: none"> • IPX5 water resistance rating • Cool grey or eggshell colourway 		
Optional features	<ul style="list-style-type: none"> • Auto brake motion sensor • Intuitive steer motion sensor • Conductive anti-static (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.

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Trinity and Trinity EBC fittings and order codes

FITTING OPTIONS

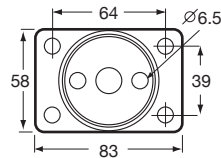


PLATE MOUNT

SPFPLATEKIT

Includes:

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



Only compatible with 100 mm castors at full load rating.

TUBE MOUNT

Add solid pintle adapter:

- AFR28Z(100) Fits 100 mm castors, 28 mm round stem²
- AFR28Z(125/150) Fits 125 mm & 150 mm castors, 28 mm round stem²
- AFR32Z(100) Fits 100 mm castors, 32 mm round stem³
- AFR32Z(125/150) Fits 125 mm & 150 mm castors, 32 mm round stem³

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).



TRINITY ORDER CODES (COMPLETE THE BLANKS)

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

TRINITY EBC SINGLE REPLACEMENT ORDER CODES (COMPLETE THE BLANKS)

Castor Series	Tyre material*	Bearing	Size (mm)	Fork	Pedal	Colourway	Brake configuration	Fork design*	Steering type ¹	Cable compatibility	Motion-sensing ¹	Water resistance
F	U Polyurethane	Q	100		0 In-line	C Cool grey	CB Complete brake	S Standard	I Intuitive	L Linak	M Yes	5 IPX5
	A Anti-static		125	P	9 90°	E Eggshell	TB Total brake	A Anti-static	U User specified	D Dewert	N No	6 IPX6
			150				SW Swivel			T TiMotion		
							BL Blank					









* Tyre material and fork design—polyurethane tyre (U) can only be matched with standard fork (S). Anti-static tyre (A) can only be matched with anti-static 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.

TRINITY EBC CONTROL SYSTEM OPTIONS

	EBCCONTROLU (User-specified) EBCCONTROLI (Intuitive)
EBC Controller	
	EBCCABLESET1.5 (Set of four 1.5 m cables)
Extension cable set	
	EBCCABLEY
Y cable	
	EBCBATTERY1
Battery	
	EBCPOWERAU (Australasian) EBCPOWEREU (European) EBCPOWERUK (UK) EBCPOWERUS (US)
Power supply	
	EBCHANDSETU1 (User-specified, 1 button) EBCHANDSETU5 (User-specified, 5 button) EBCHANDSETI1 (Intuitive, 1 button) EBCHANDSETI6 (Intuitive, 6 button)
Handset	
	EBCPANELI1 (Intuitive, 1 button)
Nurse Panel	
	EBCINTERFACE (If using existing control panel)
Interface Box	

TRINITY EBC SET ORDER CODES (COMPLETE THE BLANKS)

Castor Series	Size	Pedal configuration	Colourway	Brake configuration	Steering type	Cable compatibility	Water resistance
EBCSET	100 100 mm	0 In-line	C Cool grey	CB Complete brake	I Intuitive	L Linak	5 IPX5
	125 125 mm						
	150 150 mm						
9 90°	E Eggshell	TB Total brake	U User specified	D Dewert	6 IPX6		
T TiMotion							
EBCSET	—	—	—	—	—	—	—

EBC Sets include one anti-static, motion-sensing castor and three standard castors.



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Trinity EBC Colour coded feature identification

- Blue—Intuitive steering
- Black—Motion sensing
- White—IPX6 water resistance
- Yellow—Conductive (anti-static)