

Centralised control  
Automatic braking  
Intuitive steering

**SAFETY MADE SIMPLE**



# TRINITYEBC

Electronic braking castors  
for the healthcare industry



# TRINITYEBC

## Electronic braking castors for the healthcare industry

*“It would be nice if the bed automatically knew where it was going and for the brakes to turn on and off at the flick of a switch.”*

### Safety made simple

The *Trinity EBC* is the newest addition to our *Trinity* castor range for hospital beds, renowned in the healthcare industry for its fixed brake pedal position. The *Trinity EBC* builds on this innovation with the addition of automatic brakes, intuitive steering and 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. Where beds are used for moving patients frequently, forgetting to apply the brakes presents a higher risk of patient falls, especially if the patient tries to alight when the brakes are off.

*Trinity EBC* helps prevent patient falls by automatically applying the brakes when the bed 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 the bed 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 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.

### 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 handset

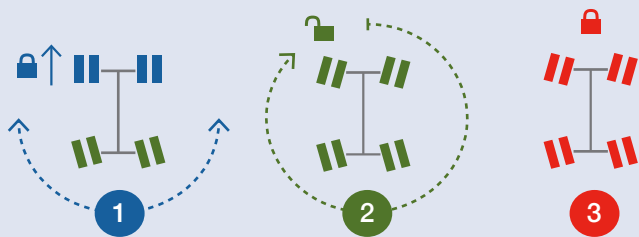
### Design features

- Unique safety pedal override allows you to use the bed in the unlikely event of an electrical failure or flat battery
- Automatic brakes and intuitive steering
- Three brake positions—directional lock (steer), total brake & swivel (free)—can be applied using the pedals or the handset
- Bed can be easily manoeuvred from both the head and the foot ends with flexible directional lock (steer)
- Integrated controls with handset or bed control panel with visual indicator light to show status of brake
- Low mount height
- Maximum design flexibility with cables replacing the need for traditional, rigid transfer bar mechanisms
- Low current draw ensures long battery life



*“After owning a car with electric windows, why would I buy a car with wind-up ones?”*

### How automatic braking and intuitive steering works



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

Once you have operated a bed fitted with *Trinity EBC* you'll never want to go back to using a bed with conventional castors.

### Innovative Patented Design

All *Trinity* castors are Australian designed and made under the following patents.

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



*Trinity EBC* 100 and 150 mm castors in eggshell colourway.

Wheel size	100 mm	125 mm	150 mm
Mount height*	133 mm	161 mm	185 mm
Swept radius	78 mm	104 mm	129 mm
Cable length	500 mm	500 mm	500 mm

<b>Standard fittings</b>	<ul style="list-style-type: none"> <li>• 32 mm pintle</li> <li>• 28 mm ISO pintle</li> <li>• washer</li> </ul>
<b>Standard features</b>	<ul style="list-style-type: none"> <li>• IPX5 water resistance rating</li> <li>• Cool grey or eggshell colourway</li> </ul>
<b>Optional features</b>	<ul style="list-style-type: none"> <li>• Auto brake motion sensor</li> <li>• Intuitive steer motion sensor</li> <li>• Conductive anti-static (resistance &lt; 10<sup>5</sup> ohms)</li> </ul>

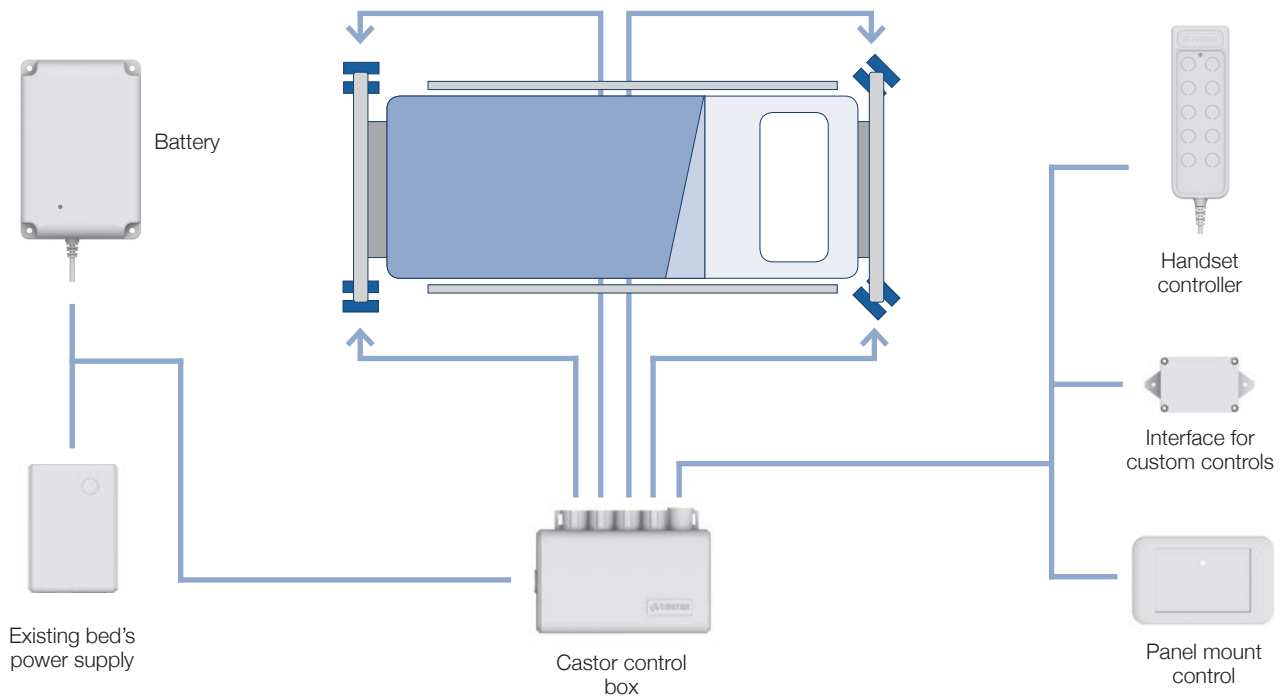
Customised colours and cable lengths are available. Please ask our sales team for more information.

\*Add 5 mm for washer mount.

For more information visit [www.trinityebc.com.au](http://www.trinityebc.com.au)



# TRINITYEBC



## Works with existing hospital bed control systems

The *Trinity EBC* can be operated via the *Fallshaw* stand-alone control system or supplied with cables to fully integrate with *TiMotion* bed controls or with complete control solutions available from leading bed system manufacturers including *Linak* and *Dewert*. We can also work with OEM's to integrate *Trinity EBC* with custom control systems if required.

## Technical standards

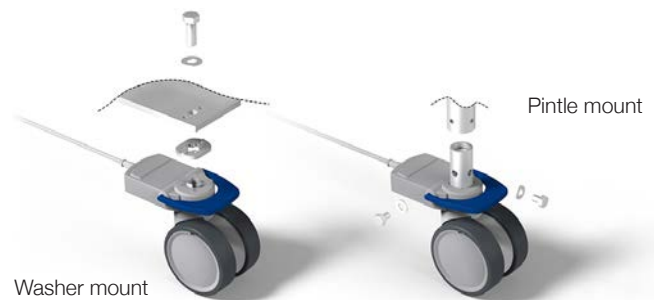
All *Trinity* castors are designed to comply with *IEC60601 3rd edition* including *IEC 60601-2-52 Particular Requirements for the Basic Safety and Essential Performance of Medical Beds*.

They are designed and tested to rigorous technical engineering standards including:

- *IEC Threshold test* and 10° ramp test compliance
- *Brake life* testing of 60,000 on/off cycles
- *Long life* run test at 2.4 km/h over 30,000 obstacles (9.5 mm tall for the 100–150 mm wheel sizes)

We work with your technical staff to ensure you have extensive test data and reports to validate the robust product reliability that enables our 3 year warranty.

## Mounting and colourway options



### Cool grey colourway

Body Pantone 423 C		22	Tyres Pantone 7546 C		73	Pedal Pantone 288 C		100
		14			45			80
		18			24			6
		45			66			32

### Eggshell colourway

Body Pantone 7527 C		3	Tyres Pantone 7546 C		73	Pedal Pantone 7545 C		58
		4			45			32
		14			24			18
		8			66			54

**Please note:** while every effort is made to represent these colourways accurately, every monitor and printer is different and slight variations from the actual product can be expected.

For more information visit [www.trinityebc.com.au](http://www.trinityebc.com.au)

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