



## MEC-2 2 Person Splitting Electric Cart

*The MEC-2 Electric Cart provides a low cost, simple solution for the transportation of up to two staff and their equipment within the Rail Environment. The vehicle is robust enough to stand everyday use but designed to be lightweight and easily operated.*

*With the addition of a range of flexible and universal trailer systems, the MEC-2 can solve the majority of day to day logistics and maintenance problems*



### Features at a Glance

- Vehicle Split
- Lockable Rear Mounted Tool Box
- Tow Multiple trailers
- 1 Tonne Capacity
- 1or 2 Person Capacity
- Battery Powered
- Work Lights and Floodlight
- 16 kph Forward Speed
- Easy to operate

For more information, please contact the Railway Sales Department at Donfabs & Consillia

Email: [sales@consillia.com](mailto:sales@consillia.com)

#### Battery Electric

The MEC-2 offers a minimum of 4 hours autonomy (using 4 batteries). All batteries are charged using the supplied battery charger and can be monitored using the BTU battery test unit (optional)

#### Splitting a Cart

For difficult access areas, the MEC-2 can be split enabling easy portability. All electrics are connected through a single quick release plug and the unit fits together mechanically using an interleaved finger system.

#### Easy Control System

The MEC-2 is driven from the control panel between the two seats. This includes emergency stop, propulsion joystick, lighting controls and horn. The control console is fitted to the seat plank which tips forward and is lockable to prevent unauthorised use.

#### Lighting

4 worklights and 1 floodlight are supplied as standard. Front and rear directional and marker lighting is incorporated into the MEC-2 frame and attached trailers

#### Toolbox

The area behind the two seats can be used to carry either the lockable toolbox that is supplied or can be used as a flat bed carry area.

#### Towing Capacity

The MEC-2 has tow balls at both ends and can tow multiple MTRL1 trailers up to a capacity of 1,000 kg on flat and level ground

#### Braking

The MEC-2 employs magnetic braking with an extra failsafe mechanical brake.

#### Seating Capacity

Standard configuration provides seating for up to 2 people.

# Technical Specification

## Construction

Aluminium folded "U" section wheel supports with aluminium folded and welded chassis

## Seats

2 Padded seats with integrated seat belts mounted to seat frame. Frame inverts and locks for protection when stowed

## Controls

Ignition Switch  
Illuminated Emergency Stop Switch  
Illuminated Horn Switch  
Forward / Reverse Switch  
Speed Control Joystick with Dead man  
Display showing current Cart status  
Lighting Switches

## Lighting

2 Forward and 2 Rear facing 70W Floodlamps (detachable)  
2 Red / White LED Marker Lights at each end with directional auto-changeover  
1 Hand Held 70W Spotlamp (detachable)  
All lights controlled from driving position

## Drive System

Chain and Drive Shaft System, 2 Wheel Drive

## Motor Controller

Controls all acceleration, deceleration and provides magnetic parking brake

## Brakes

Electro-dynamic braking through motor controller

## Emergency Brake

2 spring applied brakes activated by illuminated stop switch plus 2 magnetic parking brakes

## Autonomy

Minimum of 4 hours at maximum operating speed over equal rising and falling gradients

## Speed

16kph (limited to 8kph on request)

## Dead Man

Spring applied and zero return joystick

## External Noise

<85dBA at drivers ear & <90dBA at all times sub surface

## Horn

Audible warning activated by illuminated switch

## Toolbox

Lockable, Removable. L=1400mm H=300mm W=250mm

## Running Wheels

Cast and machined. 200mm diameter with P8 profile

## Wheel to Wheel

Back to back dimension = 1359+/- 2mm

## Axles

12mm dia steel, insulated from track with nylon cups

## Environmental

Dimensions: L=1450mm W=1650mm H=900mm  
Weight = 156Kg (Front = 116Kg, Back = 40Kg) +100kg of batteries  
Track clearance: 115mm in the centre of the vehicle  
Temperature: -15°C to +45°C RH, Non condensing

## Towing

Will tow MTRL1 Trailers  
MTRL Capacity = 1000kg  
On level track with 1 operator = 1,000kg