



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

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