



MEC-4 4 Man Splitting Electric Cart

The MEC-4 Electric Cart provides a low cost, simple solution for the transportation of up to four 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-4 can solve the majority of day to day logistics and maintenance problems



Features at a Glance

- Symmetrical Vehicle Split
- Lockable Tool Box
- Drive from either end
- Tow Multiple trailers
- 2 Tonne Towing Capacity
- 1-4 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-4 offers up to 8 hours autonomy (using 8 batteries). All batteries are charged using the supplied battery charger

Seating Capacity

Standard configuration provides seating for up to 4 people. Derivatives can be supplied with various fittings for different functions

Splitting a Cart

For difficult access areas, the MEC-4 can be split down the middle making transportation easier. All electrics are connected through a single quick release plug

Towing Capacity

The MEC-4 has tow balls at both ends so is able to push or pull multiple MTRL1 trailers. All lighting and braking is transferred from the cart to all trailers for safety. The MEC-4 can tow up to 2 tonnes on flat and level ground

Lighting

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

Toolbox

A large full width lockable toolbox is supplied for the storage of tools and equipment

Easy Control System

The MEC-4 uses a master-slave control panel allowing the cart to be driven from either end. Controls include emergency stop, propulsion joystick, lighting controls and horn. The control consoles are fitted to the seat plank which tips forward and is lockable to prevent unauthorised use.

Braking

The MEC-4 employs magnetic braking with an extra mechanical failsafe, all interlocked with any attached trailer

Technical Specification

Construction

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

Seats

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

Controls

Master (Forward Direction)

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

Slave (Reverse Direction)

Ignition Switch
Illuminated Emergency Stop Switch
Illuminated Horn Switch
Forward / Reverse Switch
Speed Control Joystick with Deadman

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, 4 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 5 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=2000mm W=1650mm H=900mm
Weight = 216kg (Front = 116kg, Back = 100kg) +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 (1 tonne)
On level track with 1 operator = 2000kg (2 xMTRL required)