



MEP

Motorised Platform

Totally configurable.....Responding to incidents on public transport, freight and industrial railways is a hazardous task, due to the nature of the environment. With many rail networks now secured by design, emergency responders are faced with significant challenges. Reaching the site of an incident in a tunnel, on a bridge, or in a remote area, challenge the safety limitations of the emergency services, restricted by the duration of breathing apparatus, ergonomic factors due to PPE / Gas Tight Suits

Alternatively, the MEP can be configured with seating frames and be used for railway maintenance tasks. Tool boxes and lighting fixtures can be added and the unit is fitted with standard tow hitches for adding trailer systems to suit the application.



(MEP, showing Emergency Response Mode)

Modular design means deployment can be in less than 5 minutes for two people. Each part is portable and the whole unit light enough and small enough for a small van or estate car to be used. Lighting, storage and safety options available

Construction

Lightweight Aluminium welded chassis with cross sectional supports. Cast Aluminium 8" Wheels

Performance

Carry up to 660Kg, tow up to 500Kg on ascending and descending gradients (See Table). Autonomy of approx 5-7 hours depending on use.

Configuration

Flatbed with umbilical control, various seating configurations, railing options, toolboxes and lighting gantries. Convert the chassis into a maintenance vehicle, rescue response vehicle or people mover. Configurations take minutes to implement.

Lighting / Braking

LED Directional marker lights on each corner of the MEP, configurable worklights and fixing positions. Speed control and braking system fully integrated and redundant failsafe braking.

Control

Dynamic control using the hand controller which contains lighting, emergency stop, FWD/RWD and forward /reverse controls



FEATURES

- Modular Chassis
- Multi-Function, maintenance, emergency response, visual Inspection.
- Standalone or Towing Trailer(s)
- Failsafe Braking
- Lighting, marker & work
- Configurations:
 - Flatbed
 - Seat Frames (1 or 2)
 - Seat Frame (1) with Railings
 - Railings Only
- Toolbox options
- Roof Option

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MEP

Motorised Platform Technical Specification

Configurations:

Chassis - Only with umbilical control
 Seat Frame (s) 1 or 2 direction configurable
 Railings (bespoke) - configurable, locking
 Hybrid - Seat Frame + Railings

Options:

Removable, foldable Roof system
 Optional bespoke Toolbox (Various sizes)
 Lighting options, wander, fixed, gantry

Expandable:

MEP powered + Unpowered MEP-TRL

Physical Characteristics:

Length:	2000mm
Width:	1800mm
Height: (Chassis only)	400mm
With Seats	700mm
With Railings	1700mm
Centre of rail clearance	115mm
Weight: (Total inc Batt)	<202Kg
Pods (Approx, max)	<60Kg each
Centre Bar (Approx)	<10Kg
Deck plate (Approx)	10Kg each
Batteries	13Kg each
Operating Temp	-20DegC to 60DegC
Humidity	20 to 80 RH

Railway Specifications:

Gauge	1435mm Nominal
(Other Gauges available at time of Order)	
Cant	max 200mm
Twist	35mm in 2m
Min Curvature	<30m
Rail Type	Any

MEP Dynamic Specification:

Speed: (Umbilical)	4Kph (Walk Pace)
(Ride On configured)	16kph
Deployment Time	<5mins, 2 people
Off Track Time	<5mins, 2 people

Storage & Deployment Options:

Mobile Trolley
 Racking Systems
 Deployment cabinet with swing out crane

Construction:

2 x Transverse rail aluminium pods containing drive train gear, powder coat yellow RAL1004. Aluminium side connecting bars hinged from pod and supplied with heavy duty catches Central aluminium box section towing strengthening beam.

Wheels

4 x 8" Aluminium cast with bearings (LT3 Profile or others on request to accommodate customer rail type and clearances. All wheels uniquely identified for traceability.

Deck Plates:

2 x 3mm aluminium 3 bar tread plate. With strengthening bars.

Batteries:

4 x Lithium-Ion, 100Ahr fully BMS compliant

Size:	(Width)	185mm
	(Length)	275mm
	(Height)	255mm

Colour Yellow RAL1004

Labels: xxxA + xxxB

Housing: Aluminium secondary housing with webbing lifting straps

User Controls:

Hand held unit controller for use with chassis only, seating configurations or railing use with the following controls:-
 Proportional Joystick Controller
 Forward / Reverse Switch
 Emergency Stop Button
 Lighting On / Off Switch, Horn
 Battery Voltage Indicator

Lighting:

4 x LED Directional Marker lights positioned at each corner of MEP and auto change-over with direction of travel (Red=Rear, White=Front)

Braking:

2 x Failsafe Magnetic brake assemblies fully integrated with motor controller



MEP

Motorised Platform Configuration Options

Seating Configurations

The chassis can now be loaded with seat frames, one or two which ever suits. Fit them either way round, the same way, back to back or facing each other. The Umbilical controller now clips to the seating frame and can easily be used by the nominated driver. Now the MEP is a maintenance vehicle or can be used for visual inspection.



Railings - Emergency Response



With the addition of bespoke and standard railings the MEP can be turned into an "Emergency Response Vehicle" The umbilical controller now clips to the railings where ever the nominated driver is standing. The unit can be used by emergency responders in full protection suits and BA equipment to get them to site of emergency quickly. The deck comes with evac chair and stretcher securing systems as an option.

Chassis Only

Use the Chassis on its own. With the umbilical lead plugged into the chassis at either end use the dynamic speed controls to move the MEP along the track to the workplace. Optional Tool boxes, unit tops and bespoke racks available on request.



Hybrid, the best of both worlds

Now, the best of both worlds, add one seating frame, half a set of railings, drive standing people to site by a nominated seated driver. Alternatively add one seat frame and talk to us about manufacturing special systems for the rear half



MEP

Motorised Platform Extras & Accessories

Roof / Canopy



Various roof options are available whether it's a canopy to keep the sun out, roll down pvc windows for hostile weather or full enclosed cabin for DCL can manufacture a bespoke system. All units are removable and foldable for easy storage and transportation

Toolboxes and Accessories



Add a tool box, storage box or document holder, specify a desk we can provide it. A fire extinguisher to your specification and a first aid kit is always required.



Lighting options



Wonder, Lamp, fixed work light or LED lighting gantry options. Lighting can be supplied to meet the requirement. Special brackets and electrical control can be provided to give exactly the light that is required at the right time. There's no end to the options available, please ask!

Unpowered MEP unit - MEP-TRL



Another important accessory is a trailer. You can use a standard DCL MTRL unit but also consider the MEP-TRL, a copy of the MEP but without the power, tow up to two of these but benefit from the modularity and the configurability. Add seats, a tool box and carry box on the trailer, the configurations are endless and if you think of more please contact us to discuss.