Mobile Maintenance Train (MMT) Overview

NetworkRail **I**ROBEL 99 70 9481 001-4 When in train formation couple main brake pipe DR 97501

ROBEL 69.70

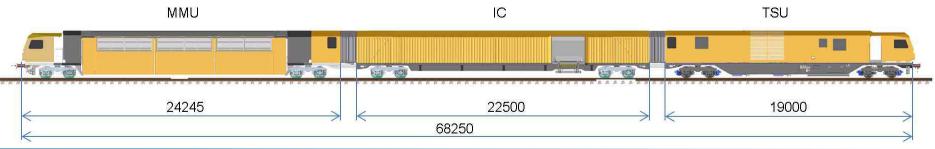
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MMT Overview

- Basic concept is to move staff, materials and equipment safely, swiftly, and directly to the worksite, where work can begin in minutes
- Comprises of Mobile Maintenance Unit (MMU 69.50), Intermediate Car (IC 69.45) and Traction & Supply Unit (TSU 69.40)
- MMU provides a 16m x 3m working area, has a longitudinal beam for the hoists and extendable side walls
- IC provides a large storage area for tools, materials etc
- TSU provides welfare facilities
- System can travel up to 60mph



MMU

- Provides an enclosed static or rolling worksite separated from trains and providing protection from the elements
- Side walls extendable from 2m width to 3.2m
- Provides excellent site lighting for night time working
- Initial work activities to include:
 - Defect removal & repair
 - IBJ replacements & repair
 - Replacement of pads and insulators
 - Replacement of base plates
 - Jointed track hot weather preparation
- Hydraulic, Electric and pneumatic power supply provided throughout the MMU
- Two 2,5 T hoists

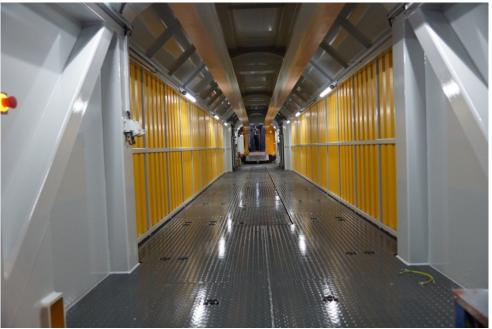


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IC

- Provides the storage and loading area
- With hydraulic lift gates on each side allowing access onto ballast level for loading and unloading of plant and materials
- Hoists extends into this area for moving large plant and materials into the MMU
- Also area for storage of scrap materials avoiding the need for a second shift
- Rail stored under the floor, 6 x 45 ft



TSU

- Provides staff messing facilities including washing and toilet facilities
- Area for completing and storing of paperwork and lockers
- Workshop area
- Traction power supplied via two 500kw Deutz engines.
- These drive all four axles hydrostatically
- Working mode power is supplied by a 140kw generator supplying electrical, pneumatic and hydraulic power.

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Benefits

Safety:

- Workers travel to and from site in a protected environment
- Protected during work from adjacent line and OLE
- Reduced manual handling, slips and trips
- Electric, pneumatic and hydraulic powered tools reduced noise and vibration
- Protection from the weather

Cost savings

- Optimal use of possession, adjacent line open working, etc.
- Material and equipment transported to site and powered from vehicle
- Prep, clear up shifts reduced
- Reduced setup time, more productive working time

Quality

- Better working environment produces a better quality job
- All tools and equipment to hand for the job at all times

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Benefits continued

Environmental protection

- Reduced vehicle usage material, equipment and staff all transported to site on the night in one efficient vehicle
- Reduced fuel usage for portable tools
- All scrap carried away from site with the vehicle clean site Network Availability :
 - Fewer possessions required
 - Safe adjacent open line working
- Job done in one shift fewer temporary speed restrictions
 Improved public perception
 - Reduced noise and light pollution during work
 - Disruption caused by work reduced



Thank you for your time...

