



MCEM91

Point machine

Point machine in its simplest form, robust and well-proven
all over the world

vossloh
enabling green mobility

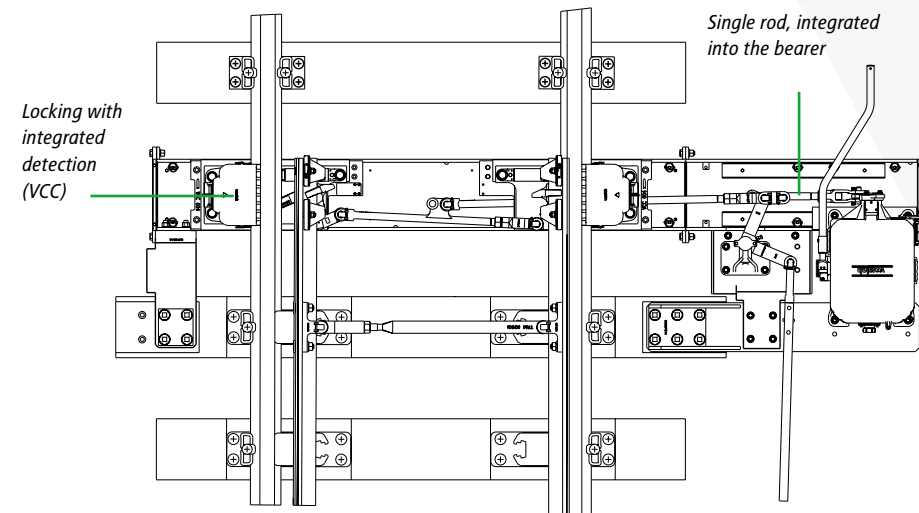
Light, robust and reliable, the MCEM91 point machine is suitable to drive switches of any rail guided transport

The electromechanical point machine provides the electrical drive of the switch, its locking, and detection in end positions.

These configurations have well-proven record in more than 30 countries: on High Speed, conventional, subway/metro lines with heavy traffic and heavy load lines.



This MCEM91 point machine with a single rod provides the drive function. This rod can be integrated into a bearer and thus allowing mechanised tamping.



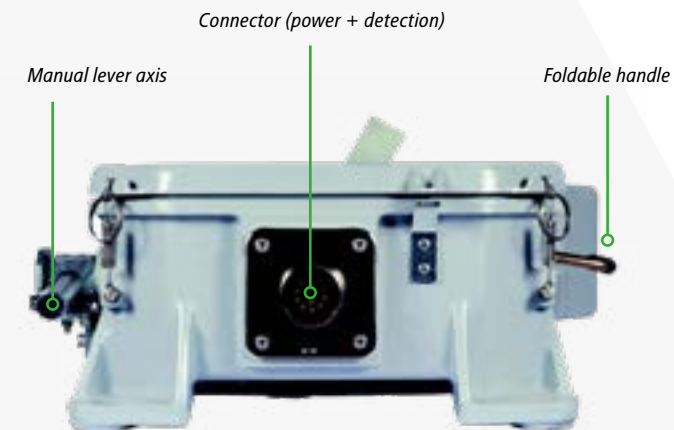
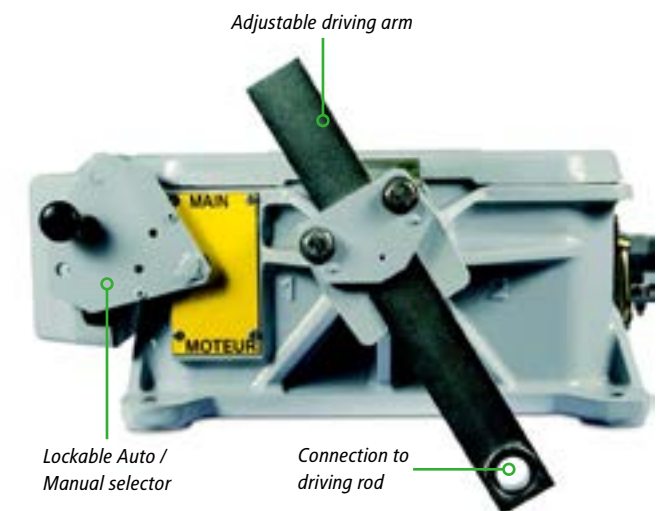
Our references include:

France: SNCF Réseau (conventional and high speed lines), Monteviers, RATP – Paris Metro, Eurotunnel, Lyon Metro, RTM Marseille Metro, Transpole – Lille Metro
Belgium: Infrabel
Great Britain: Network Rail (high speed line)
Turkey: TCDD (Turkish State Railways), Ankara – Konya (high speed lines), Mersin – Toprakkale Line
Tunisia: SNCFT
Algeria: ANESRIF/SNTF
Morocco: ONCF
Canada: STM - Montreal Metro
Brazil: Metro of Rio de Janeiro
South Korea: KR (National Railways)
Singapore: SMRT, Metro of SBST
Hong Kong: Metro of MTR, KCRC (conventional line)
India: Various metros in India
Dubai: Dubai Metro
Australia: ARTC
China: Chinese high speed line
Guinea: Boké
Taiwan: Metro of Taichung (Metro)

Description

MCEM91 point machine is made up of various components:

- › An electric motor (voltage as required - AC or DC)
- › An internal torque limiter device
- › A gear box
- › A locking mechanism in end positions
- › A driving arm connected to the driving arm head
- › A switch equipped with control and power contacts
- › A manual emergency command with lever or crank
- › An electrical watertight connector (optional)
- › A locked cover



Installation and application

In terms of application, the MCEM91 point machine offers unequalled flexibility:

- › Adaptable to any type of railway and to metro tracks with steel or rubber tyres
- › Compatible with all bearers including timber and concrete bearers, metallic bearers, concrete slab track, etc.
- › Accepts all types of fixations: coachscrews, bolting, etc.
- › Designed for mixed traffic, high speed and heavy loads
- › Stroke can be adjusted simply by moving the driving arm
- › Reduced maintenance

Operation

MCEM91 point machine belongs to the family of locked electro-mechanical switch mechanisms. Due to its pendular movement, the throw is given by the driving arm length. While throwing, the point machine driving arm moves on a 60° angle with locking in end positions.

In addition to the internal locking and to ensure safety, the point machine is equipped with an internal „anti-veering“ device designed to counter vibration effect caused by passing rolling stock. Simple and robust, the point machine can be easily adapted to any network or interlocking.

Technical characteristics

- › Protection index: IP55 or IP67 (option)
- › Weight: < 100 kg
- › Adjustable stroke: 100 to 260 mm
- › Maximum load during drive: 400 to 1 040 daN
- › Switch time: 3.5 to 4.8 s
- › Anti-vandalism protection: included
- › MTBF: over 30 years
- › MTTR: 0,61 hours

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