



Smart solutions.
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Railway Signalling Division



POINT MACHINE



Smart solutions.
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murugappa



Electric Point Machine (RDL-1) is a non-trainable point machine it is designed to fulfil the strict requirements of safety and reliability for operation of points. It is operated electrically and incorporates an internal point lock and detection mechanism. The machine can be provided with motor to operate on DC or AC, single phase / three phase power supply. In the event of a power failure or emergency the point can be moved to the full normal or reverse position by means of a crank handle.

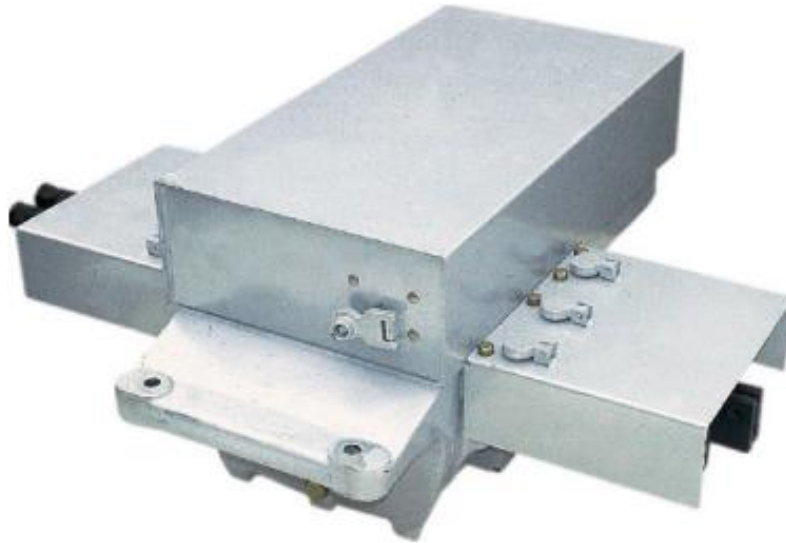
The Point machine meets the following application requirements:

1. Throwing of Points.
2. Retaining the tongues in the end positions.
3. Locking of tongues in the end positions.
4. Detection of end positions of the tongues.

The point machine permits the mid stroke stopping and reversal. Completely self-contained, it is easy to install and its unique design ensures minimum maintenance under operating conditions. All machines are designed for both left & right hand operation.

TECHNICAL DATA:-

Machine Stroke	143mm \pm 2.0 mm
Motor	110VDC/380VAC,0.44KW,IP67
Maximum Thrust	450 Kg
Maximum Operating Time	4.0 Sec
Maximum Operating Current	4.5 Amps
Number of Contacts	4 (Changeover)
Stalling Load (Min.)	1000 Kg
Weight of machine	185 Kg



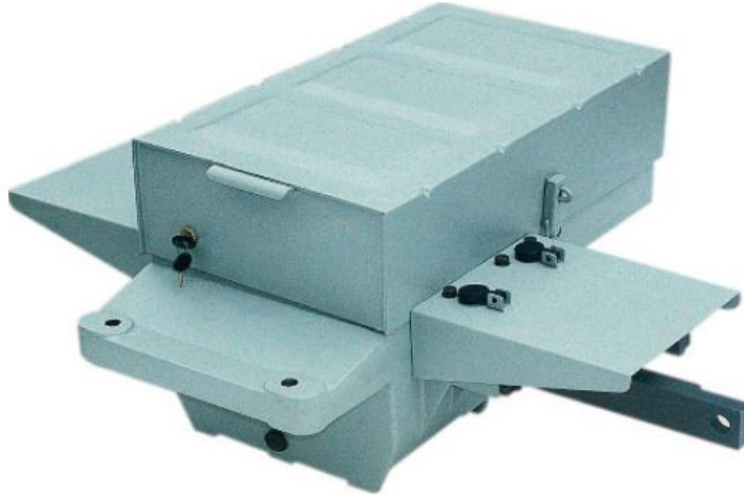
Electric Point Machine (RDL-2) is a non-trailable Point machine. It is designed to operate rail points of high speed turn outs with Thick Web Switch (TWS) Blades with external clamp point lock. It is operated electrically and also incorporates an internal point lock and detection mechanism.

The Point machine meets the following application requirements of high speed turnouts

1. Throwing of points (TWS) providing 160mm min. opening at toe to give sufficient (60mm) flange way clearance at JOH and another 60mm throw required for clamp lock for direct locking of switch with-its respective stock rail.
2. Independent switch locking in point machine and clamp lock.
3. Retaining of tongue rails in end positions.
4. Detection of end positions of tongues.
5. Solid construction, fast working, interchangeable.
6. Large rated effort and travel.
7. Possible protection against trailing.
8. May be used on all type of traction: all track gauges, rail types, points and crossings

TECHNICAL DATA:-

Machine Stroke	220mm +4/-1 mm
Motor	110VDC/380VAC,0.44KW,IP67
Maximum Thrust	450 Kg
Maximum Operating Time	5.0 Sec
Maximum Operating Current	5.5 Amps
Number of Contacts	4 (Changeover)
Stalling Load (Min.)	1000 Kg
Weight of machine	210 Kg



Electric Point Machine (CG-01) is a trailable point machine.

It operates the point with external locking. It is operated electrically and incorporates a detection mechanism. The machine can be provided with motor to operate on DC or AC single phase / three phase power supply. In the event of a power failure or emergency the point can be moved to the full normal or reverse position by means of a crank handle.

The point machine meets the following application requirements of high speed turnouts:

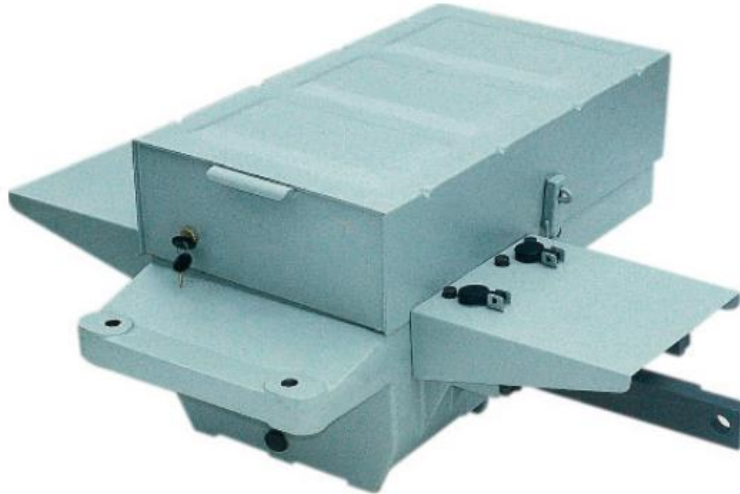
1. Operate the points with 160mm opening at the toe.
2. Retaining the tongue rails in end positions.
3. Detection of end positions of tongues electrically.
4. External locking by clamp point lock.
5. Emergency operation by crank handle.

TECHNICAL DATA:-

Machine Stroke	220mm \pm 2 mm
Motor	110VDC/380VAC,0.44KW,IP67
Maximum Thrust	450 Kg
Maximum Operating Time	5.0 Sec
Maximum Operating Current	5.5 Amps
Number of Contacts	4 (Changeover)
Stalling Load (Min.)	1000 Kg
Weight of machine	210 Kg

ELECTRIC POINT MACHINE

CG02



Electric Point Machine (CG-02) is a trailable point machine.

It operates the point with external locking. It is operated electrically and incorporates a detection mechanism. The machine can be provided with motor to operate on DC or AC single phase / three phase power supply. In the event of a power failure or emergency the point can be moved to the full normal or reverse position by means of a crank handle.

The point machine meets the following application requirements of high speed turnouts:

1. Operate the points with 160mm opening at the toe.
2. Retaining the tongue rails in end positions.
3. Detection of end positions of tongues electrically.
4. External locking by clamp point lock.
5. Emergency operation by crank handle.

TECHNICAL DATA:-

Machine Stroke	175mm \pm 2 mm
Motor	110VDC/380VAC,0.44KW,IP67
Maximum Thrust	450 Kg
Maximum Operating Time	5.0 Sec
Maximum Operating Current	5.5 Amps
Number of Contacts	4 (Changeover)
Stalling Load (Min.)	1000 Kg
Weight of machine	210 Kg



Back Drive system is a mechanical rodding for force transmission, which operates up to two locking positions and ensures min opening and housing at JOH. The compact system is installed at track side and associated lever mechanism is fully covered. This mechanism can be used efficiently for turnout geometries with up to 2 locking levels.

This system can be combined with a wide variety of point machines and locking system, resulting in a perfectly aligned setting system.

TECHNICAL DATA:-

Stroke	110 to 220mm (depending of locking level)
Transmitted reverse Force	10 KN
Ambient temperature	-40C to 80C
Retaining force of the point machine	Max 10KN
Locking level	2
Gauge	1435/1673mm
Weight of machine	210 Kg

We put all our energy into saving yours!

FACTORY LOCATION

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