



P80

Point machine

Alstom's P80 Point Machine is designed to operate with no need of periodic maintenance while providing the highest level of safety. P80 is suitable for mainlines, metro and freight line applications.

The first production site for the manufacture of P80 point machines in the CIS countries is "JV "KazElektroPrivod" LLP – a joint venture of Alstom (50%) and SOP Trade (50%).

CUSTOMER BENEFITS:

Reliability and traffic safety

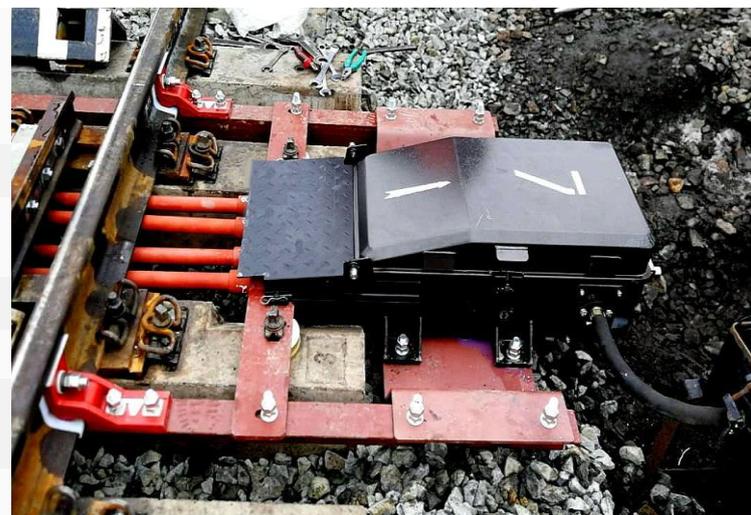
- Double locking mechanism: adjoining to the tongue frame rail and the open tongue
- 4 individual rods: 2 to switch the position of the point, 2 to control the position and reliability of locking
- Automatic de-energizing of the PM in case of a significant obstacle during switching
- Mechanical and electrical control of the condition of the point rail gage
- Internal locking mechanism certified for speeds up to 180 km / h

Optimization of operating costs

- Internal electrical equipment does not require maintenance for the entire lifetime
- The regulating device with a spring, no frictional mechanism
- Requires minimal internal maintenance
- Due to technical solutions, avoids the need to debug the internal mechanism of the point machine

Flexibility and adaptability

Mechanism type	trailability and untrailability
Installation type	left-, right-side
Optimal temperature range	-40°C; + 70°C
Lifetime	20 years
Point machine type	AC & DC
Compatibility	with relay logic and computer-based interlocking systems



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TECHNICAL PARAMETERS

Locking type	Internal
Point machine type	DC & AC
Distance of switch of the 2nd rail tongue from the frame rail	149-153 mm
Locking force pressing to the frame rail	200-300 kg
Locking force of the internal mechanism	not less than 50 κN
Switch force (maximum load with obstacles)	> 550 kg
Weight	240 kg
Size (mm)	913 (L) x 565 (W) x 334 (H)
Train speed allowed	until 180 km/h

P 80 Worldwide

more than 18.000 PMs delivered



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