Current collector devices are used by Metro to collect the energy from the third rail to energize the Electrical Multiple Unit installed in the trailers.

Since 40 years, Mersen offer the largest range of Current Collector Devices of the market with almost 200 applications running every day all over the world.

The comprehensive range of CCD for Metro is designed for all kind of configurations, Regular steel wheel Metro, Pneumatic wheel Metro, Monorail and, Driverless metro applications.

They can operate under 750VDC and 1.500VDC retracted manually or using a pneumatic system.

In this catalog, all technologies can be customized to To fit in the space envelop available on your bogie.

In case 3rd rail ramps are too short to design a CCD on the bogie frame, Mersen can propose a solution based on an additional beam fixed on the bogie axel which will hold the Current collector devices at the right place.

The adaptation of the position of the CCD can be done in heigth and depth vs the position of the 3rd rail.

This will limit the vertical movement of the CCD relative to the third rail.

Primary suspension of bogie will be excluded in the calculation of the CCD shoe stroke.

Some references for CCD installed on a beam:
Argentina metro (AR), Barcelona metro (ES), Bruxelles metro (BE)....
Fixed on beam

TECHNICAL DATA OVERVIEW

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed/Characteristic</td>
<td>90 km/h</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-40°C / +25°C</td>
</tr>
<tr>
<td>Pressure of the Shoe</td>
<td>120N ±20%</td>
</tr>
</tbody>
</table>

DIMENSIONS

Beam illustration - Front
dwg 1039840

Beam illustration - 3D
dwg 1041496