



A MERSEN'S RELIABLE SOLUTION

Mersen is a global expert in 3rd and 4th rail current collector shoes, offering **high-performance solutions** for rail power transmission. With deep technical knowledge and decades of experience, Mersen designs **durable**, **efficient**, and **sustainable** products tailored to the needs of rail operators. Its EcoDesign  CCD shoe reflects a **commitment to innovation** and environmental responsibility.

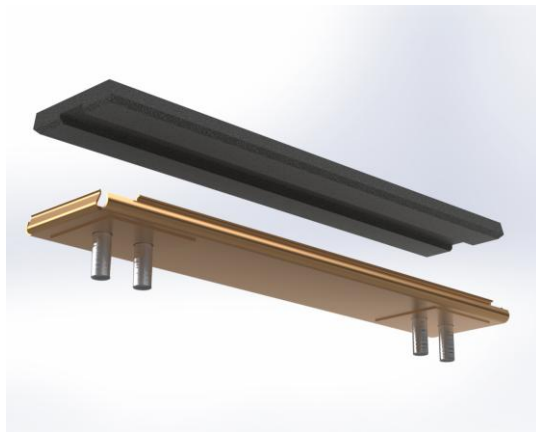
A REUSABLE TECHNOLOGY

Mersen has **developed and patented** the EcoDesign  3rd rail current collector shoe, an innovative and **environmentally responsible solution** for rail transport. Unlike traditional shoes where the entire unit is discarded after wear, EcoDesign  CCD shoes allow for the **reuse of all metal components** (carrier and screws), replacing only the worn carbon strip.

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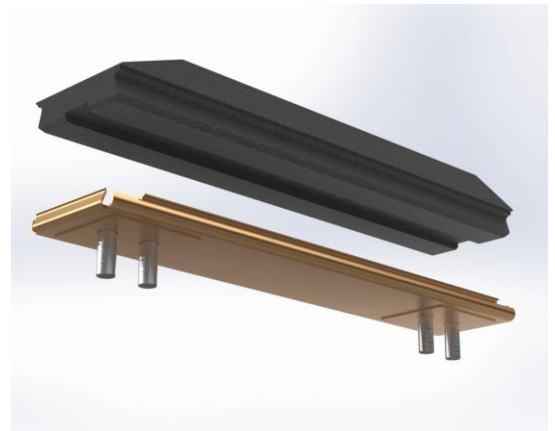
EcoDesign CCD shoe advantages:

- ▶ **Environmental**
 - No lead soldering makes it safer for people and environment
 - Only the carbon strip is replaced, which greatly reduces waste
 - No more waste management
 - The design avoids chemicals, eliminating the risk of corrosion
- ▶ **Economical & Operational**
 - Lower maintenance costs
 - Reduced material consumption
 - Longer lifespan
- ▶ **Design & Technology**
 - Easy clip system, no need of welding
 - Compatible with most of metro networks



Worn CCD shoe

Replacement



New carbon part

How does it work?

Once the carbon part is worn, the shoe must be sent to one of our expertise center. It will be **separated, inspected, reconditioned and reloaded** with a new carbon part. Then, it will be sent back to the end-user to be installed again on a train.





PERFORMANT

ENVIRONMENTALLY FRIENDLY

PATENTED SOLUTION



Winner of the
innovation trophy

ptt-eco design-ccd-shoe-mersen-EN-2508

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