



V-Tram

**SWITCH SYSTEM WITH
INTERCHANGEABLE PARTS**

vossloh
enabling green mobility



Vossloh is the world specialist in the design and manufacture of turnouts for all urban transport systems. Thanks to its wide range of skills and experience, Vossloh is constantly adapting to the needs of the tramway market. Turnouts are subject to regular stresses generated by passing vehicles. This leads to wear on its active surfaces. **To avoid having to replace a complete turnout, Vossloh has developed and patented the interchangeable stock rail and cradle base.**

Optimising resources for a better-preserved environment

- / Significant reductions in the material and human resources required (staff, energy, heavy vehicles)
- / Reduction in on-site work ➔ conservation of infrastructure (encapsulation, asphalt, etc.)
- / Reduced downtime on urban routes ➔ Increased availability of the tram network
- / Reducing noise, pollution and waste during works



Faster, more flexible and easier maintenance

- / Wear parts can be accessed from the top, so only basic tools are required, no specific skills needed
- / Replacement of the needle and the counter-needle in a single operation, keeping operating time under control
- / Better, more consistent quality thanks to the fitting of a new assembly machined and adjusted in the workshop (guaranteed application by milling the contact surfaces between needle and stock needle)
- / Greater flexibility in planning work



Eco-friendly technical innovations

- / Removable needles, stock rails and cradle bottoms
- / Choice and optimisation of materials for removable parts according to stresses
- / High-precision machining of wear parts
- / Better heat diffusion ➔ Saves energy with less power when in use



Discount
50%
intervention
time

Vossloh brings you a new solution **that allows simple maintenance, reduced intervention time, with the minimum of resources** to restore the switch as close as possible to its original state.