



 **V-Met**

A full range of turnouts for metros

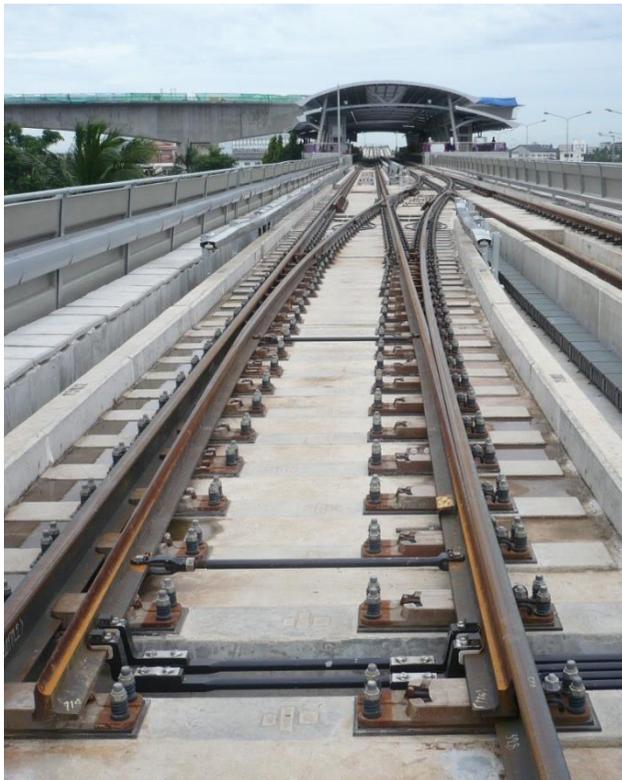
The turnout specialists for all your metro projects

The metro is a mass mode of transport, which was constantly developing throughout the last century. Vossloh Cogifer, a pioneer in the railway field, has long been demonstrating the effectiveness of its products in Europe and throughout the world.

Vossloh Cogifer has a full range of turnouts dedicated to metros of all types: heavy, light and automatic.



Vossloh Cogifer develops modern, high technology turnouts for tomorrow's urban transport.



By relying on its wide range of internal skills and broad experience, Vossloh Cogifer has made a major contribution to the various urban transport systems in terms of:

- ▶ special characteristics linked to the various types of transport vehicle
- ▶ line installation alignment
- ▶ rail profile types
- ▶ laying types: on concrete bearers, slabs and timber sleepers
- ▶ installation on above ground or underground
- ▶ maintenance constraints
- ▶ harmonious integration in city centres and accessibility to nearby urban communities
- ▶ sustainable development

Our turnouts adapt perfectly to specific geometrical constraints, permitting metro traffic movements in optimum conditions of safety and comfort for passengers. They also take into account environmental constraints in order to limit noise and vibration levels as far as possible to protect the well-being of residents.

We manufacture turnouts of all types in line with the usual tangents and radii: single connection turnouts, scissors turnouts and crossovers, etc. Our switches are designed to handle the heavy stresses due to traffic and speed in an optimum way.

A full range of turnouts to meet all your needs

Depending on the application, geographical installation site and customer choice, Vossloh Cogifer has developed two turnout families for metros: V-Met Classic and V-Met Light.

V-Met Classic



- ▶ Turnouts for heavy metros on railways using conventional railway technology based on conventional rails

V-Met Light



- ▶ Turnouts for light metros on tyres
- ▶ VAL (Vehicle Automatic Light) turnouts for fully automated guided transport

We also offer switch equipment according to the criteria selected for signalling and safety:

- ▶ Use of tried and tested, safe systems: Clamp Lock (VCC), Paulvé detector and MCEM 91 drive, which are all homologated and standardised signalling elements
- ▶ Installation of a manual, motorised or hydraulic drive system



The range of turnouts for metros from Vossloh Cogifer very significantly improves comfort and passenger safety. It also reduces the costs related to installation, maintenance and operation.



Almost 200 turnouts are in service on classic metros
Brussels, Caracas, Dubai, Hong Kong, Cairo, Lisbon, Paris, Oslo, Monterrey, New Delhi, Santa Clara, Santiago, Singapore, Vancouver, etc.

Almost 200 turnouts are in service on light metros
Chicago, Jacksonville, Lausanne, Lille, London, Lyon, Marseille, Mexico, Montreal, Orly, Paris, Rennes, Roissy, Santiago in Chile, Taipei, Toulouse, Turin, Uijeongbu, etc.

