



Swing Nose Crossing

The manganese monobloc cradle

vossloh
enabling green mobility

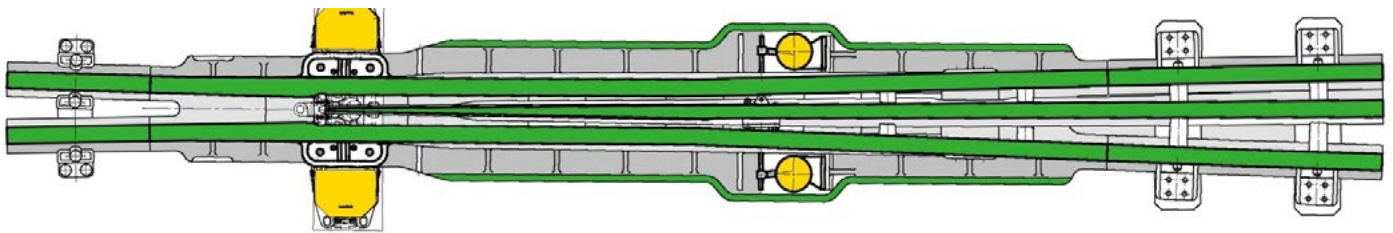
The manganese monobloc cradle

Vossloh offers state-of-the-art technology for higher-performance turnouts

➤ **A monobloc cradle made exclusively of cast manganese steel**

This technology, which has been developed by Vossloh, allows trains to run on direct track at 350 km/h and up to 230 km/h in diverging track, with perfect running table continuity in complete safety.

The technology also is suitable for heavy haul (> 32 tons/axle).



The swing nose crossing uses a single monobloc cradle made from cast manganese steel onto which the front and construction wing rails are welded.

This system is the only one which offers the advantage of having a **monobloc part inside the crossing** and load transfer zone.

ADVANTAGES

- Cast manganese steel running table naturally hardened up to 550 HB after rolling stock passage
- Monobloc technology avoid any bolted assemblies
- Easy integration of locking and detection systems in dedicated areas
- Tight tolerances obtained by monobloc technology: machining in a single phase
- "No lubrication" system by adding self-lubricating sliding plates
- Optimized running surfaces permitted thanks to the use of a cast design
- Passenger safety and comfort are improved by optimised wheel transfer
- Several wheel types can be used



Reduced maintenance
Prolonged service life

More than
5 000

cradles in worldwide networks