



# Swing Nose Crossing

The manganese monobloc cradle

**vossloh**  
*enabling green mobility*

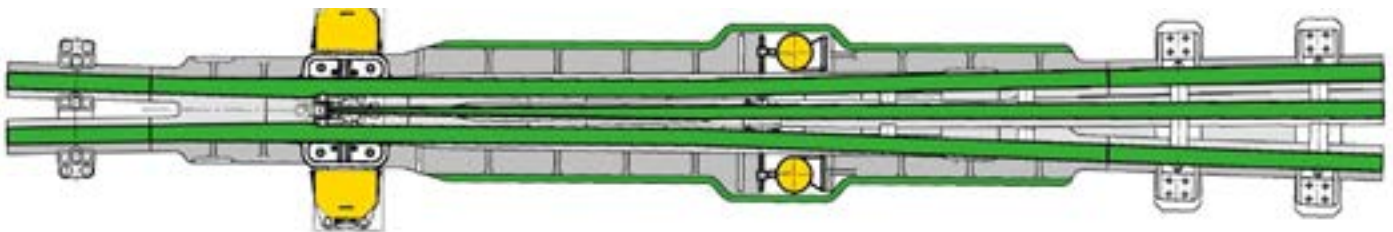
# The manganese monobloc cradle

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 is also 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 avoids 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
- › Various wheel types can be used



Reduced maintenance  
Extended service life

More than  
**5,000**  
cradle in worldwide networks