



V-TRAS – Innovative solution to differential settlements

// The V-TRAS universal transition module is a simple, integrated and sustainable solution that avoids differential settlements between different track constructions and provides a smooth transition.

Operating principle

The V-TRAS transition module is a drag plate, which is fixed to a bearing point at the slab track end or bridge structure. The ramp-shaped steel beams of the V-TRAS module enhance load distribution across the transition zone and allows the module to follow the settlement behaviour of the ballast roadbed. The module is completely embedded in the ballast below the track grid and provides a smooth transition.

Main benefits

- Reduced costs due to low requirements for inspection and maintenance
- Reduced risk of derailment due to high track availability and safe transition
- Versatile applicability – works with all track systems
- No special sleepers/ties or other additional measures needed
- V-TRAS and the ballast track can be lifted (adjusted)
- and stabilized (tamped) by conventional processes

V-TRAS

// Versatile Transition System

V-TRAS Features

- Single unit of standard 8 meters with possibility for individual adaptation
- Two ramp-shaped longitudinal steel beams, which run centrally under the rails
- Supporting plates for sleepers, equipped with elastic pads for enhanced damping effect

Installation & Maintenance

- Modular arrangement of multiple units is possible
- Low number of different elements and therefore, few sources of defects
- Use of conventional track construction methods
- Use of durable and prefabricated elements (steel and elastomers)



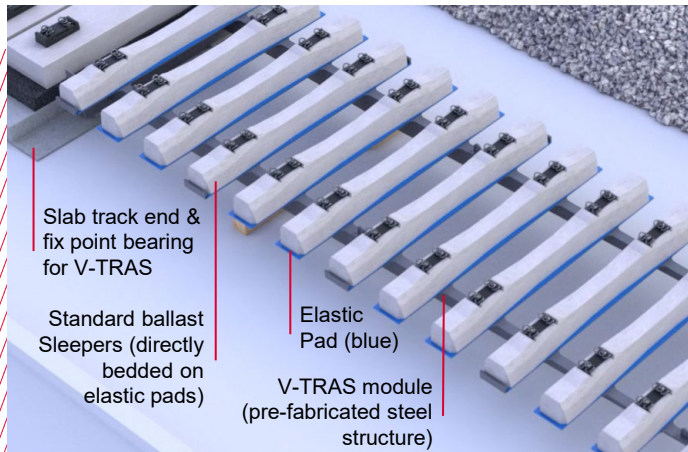
HIGH TRACK AVAILABILITY



INCREASE TRACK PERFORMANCE



REDUCE MAINTENANCE AND LIFECYCLE COSTS



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09.07.2021