



COMMON MONOBLOCK CROSSING „EHZ CENTRO MN13“

Description

The complete central part of the crossing is cast in one block from high-manganese steel. This part corresponds to a monoblock crossing, with the only exception of the length of the fishing table. Closure rails are flash-butt welded to the four ends of the central block using a special flash-butt welding technique (intermediate piece welding).

The bearing surfaces (seat of the plates) as well as the complete area of the running and head surfaces are milled and/or planed. The thus achieved manufacturing accuracy facilitates optimal wheel over-run and interchangeability of crossings on existing sets of plates.



System advantages

- » Can be thermite welded into the track
- » Requires low maintenance (no bolting)
- » Excellent wear resistance through work-hardening process of the high-manganese steel during operation
- » Optimized wheel overrun
- » Guaranteed interchangeability
- » Can be used for curved turnouts
- » Repair and built-up welding possible without pre-heating
- » Suitable for all types of rail fastenings
- » Reduced maintenance expenditure, particular in case of high axle loads because of the possibility of pre-hardening the running surfaces

Materials and Quality inspection

- » Rail in line with rails steel within turnout
- » Crossing: High-manganese steel (13% Mn) according to EN 15689
- » Visual and geometric check
- » Penetration test: Flash-butt weld
- » Radiography test: Prototypes
- » Mn13 casting according to EN 15689