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 overrun and interchangeability of crossings on existing sets of plates.

Advantages
» Can be thermit welded into the track
» Requires low maintenance (no bolting)
» Excellent wear resistance through work-hardening process of the high-manganese steel during operation
» Optimised 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