



TURNOUT PROCUREMENT SPECIFICATION

Preparation of turnout designs as part of the scope of the delivery of turnouts

Description

During the turnout ordering process, some customers like the OEBB (Austrian Federal Railways) request additional technical turnout procurement documentation in advance to serve as a technical reference during the procurement process, or when placing a turnout order. These documents, called 'TOP' (Turnout Order Plan) are special drawings of the turnouts which contain details regarding specifications of the turnout type and design, alignment geometry, track type, signaling components, sleepers, insulated rail joints and additional track panels before and after the turnout or connecting areas.

This documents also serve as documentation for the turnout design standards for the whole lifecycle of the turnouts and for their replacement.

These documents are not part of the standard scope of delivery of our turnout orders and must be requested separately as an additional service.

Benefits to the customer

- » Design is carried out by track and turnout experts
- » The drawings can be ordered prior to, and independently from, a later turnout order as a standalone service
- » Turnout designs serve as a technical reference during the customers' procurement process
- » When placing a turnout order or tender, all technical clarifications have already been finalized and are documented in the turnout designs
- » Contents of the turnout designs can be defined individually with the customers, depending on their requirements



SERVICE DESCRIPTION

Data preparation

All historical and relevant technical information for the selected turnout and its adjacent rail components need to be gathered.

This compilation should contain previous drawings and turnout designs, actual alignment data, turnout geometry, data on signaling components, insulated rail joints, rail types, switch etc. Technical standards and regulations which have to be applied according to the customer's decision and legal regulations need to be assigned and prepared for the design process.

- » Review of the alignment geometry and driving dynamics according to the standards and regulations to be applied
- » Optional adaptation of the new design to special customer requests

Creation of the turnout design

During the turnout design process, several work steps have to be carried out:

- » Import of existing alignment data as a basis for the new design
- » Design of the turnout and its components in AutoCAD
- » Integration of additional information

Provision of the turnout designs

The final results of the turnout design can be delivered to the customers in several variations:

- » Turnout design drawings, including detailed drawings
- » Hardcopy (plots)
- » PDF and DWG formats