



## FIRST MAINTENANCE SERVICE

**The initial installation quality of turnouts has a huge impact on their life span.**

### **Description**

The first maintenance service must be carried out after installation to ensure correct installation and functionality of the turnout. The service is carried out in 4 main steps that are described in detail later in this document.

The first turnout maintenance service should be performed upon reaching 3 million gross tons for single turnouts and 2 million gross tons for curved turnouts.

### **Benefits to the customer**

- » Ensures a correct installation of the turnouts in track and avoids upcoming unexpected failures
- » Extends warranty period for the turnout installed
- » Results in a higher quality turnout
- » Prevents increased dynamic load
- » Prevents disruptions, repair welding, component replacements





## SERVICE DESCRIPTION

### **Checking of the turnout condition**

To start, the following parameters will be checked:

- » Correct position of the switch to the stock rail
- » Geometrical parameters of the whole turnout
- » Installation quality
- » Anti-creeping devices
- » Position of sleepers
- » Any other damage

### Grinding of turnout components

After the first month in operation MN CENTRO crosses will be hardened and initial material flows must be removed in the area of the crossings. Additionally material flow on switches and rails will be removed as well.

### **Geometrical adjustment in the turnout, locking devices and end position detectors**

Checks and adjustments are carried out on:

- » Roller systems
- » Position of the switch
- » Insulated joints
- » Fastening material
- » Gauge, guard check gauge
- » Switch flangeway
- » Drive locking detection (clamp lock, or SPHEROLOCK, point machine)
- » End position detection system

### Final inspection and documentation

After the above mentioned work activities and adjustments have been completed, all results are documented.

- » Results of the checking activities and adjustments are documented and then forwarded to the client
- » Finally there is a final check carried out and approval by the infrastructure company is given.