Dear Customers

In this short introduction we would like to present you with our entire range of models for the model railway from the production of IM Minitrains.

We specialize in manufacturing of model railway accessories, with the main field being the model gauge 9 mm - “N” (with the scale 1:160). But of course, we can provide you with any customized option (including gauge – standard or narrow, scale – HO, TT, N or features). Presently, the main focus is on producing various sizes of model railway turntables with a fully covered deck.

The catalogue contains seven main parts. Within the first five parts various sizes of turntable with a wooden deck are presented. The 6th part presents the turntable accessories – turntable drive and its simplified version - a turntable drive kit. Both products are offered to modelers who want to build they own model of a turntable and are seeking the drive only. The last part shows our current development of a turntable for the narrow gauge Nm. The original of this turntable comes from the Rhätische Bahn (Switzerland) and one version of this model features a metal deck.

Main Features

The turntables are manufactured with fine details which are a combination of used materials (reflecting the original, such as wood, metal) and precise machinery. The main features of the turntable are given by the used drive and the installed software (Turntable drive IMM 2.10-THS with Hardware TOC1). This comprises of the following functions:
- Continuous revolving in both directions with automatic coasting to the pre-set angle
- Smooth acceleration and deceleration during start up and stopping
- Adjustable speed of revolving
- Step movement in multiple of a pre-set angle
- Adjustable step in multiple of 7.5 degree, ranging from 7.5 degree to 120 degree.
- Automatic or manual calibration at start up (adjustable)
- Manual calibration anytime
- Adjustable properties of the calibration (for fine tuning): direction of calibration and reaction on rising/descending edge of the sensor
- Auxiliary push-buttons (calibration and movement in one direction) for testing
- Automatic change of the polarity of the rails every 180 degrees (mechanically), on request this function can be disabled

Product overview

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For more information please refer to our company web site: [http://railmodels.eu/](http://railmodels.eu/)
Wagon Turntable 5.6 m (model size 35 mm)

The basic model in this size represents a standard design of a wagon turntable as used in Germany and around Europe before the WWII. The design is based on model with a fully covered wooden deck. The real diameter of the turntable would be, in case of this model, 5.6 m. In this finish the rail is placed on top of the wooden base.

This size of turntable used to be used where the space was limited. This happened mainly in the goods yards to shuffle wagons to the good shed or in locomotive yards to distribute the coal supply to the coal basins.
**Wagon Turntable 8 m (model size 50 mm)**

The basic model in this size represents a standard design of a wagon turntable as used in Germany and around Europe before the WWII. The design is based on model with a fully covered wooden deck. The real diameter of the turntable would be, in case of this model, 8 m. In this finish the rail is placed on top of the wooden base.

As the railway developed, the size of all the equipment got bigger, including the wagons. In order to couple with the new sizes the diameter of turntables had to be increased, too. This is a bigger version of the 8 m turntable. And again this size of turntable used to be used mainly in the goods yards to shuffle wagons to the good shed or in locomotive yards to distribute the coal supply to the coal basins.

![Wagon Turntable 8 m (model size 50 mm)](image)

**IMM 2.10 - NWTH**

- **Top Diameter**: 50 mm
- **Traction Drive**: Standard turntable stepper motor drive IMM 2.10-THS
- **Main Step**: Adjustable 7.5 - 120 Degrees; in 7.5 steps
- **Finishing**: Wooden Top, H-Shape, Rails on top

**IMM 2.10 - NWTI**

- **Top Diameter**: 50 mm
- **Traction Drive**: Standard turntable stepper motor drive IMM-2.10-THS
- **Main Step**: Adjustable 7.5 - 120 Degrees; in 7.5 steps
- **Finishing**: Wooden Top, I-Shape, Rails on top
Turntable 12 m (model size 75 mm)

The basic model in this size represents a standard design of a small locomotive turntable as used in Germany and around Europe before the WWII. The design is based on model with a fully covered wooden deck. The real diameter of the turntable would be, in case of this model, 12 m. In this finish the rail is placed on top of the wooden base.

This is a middle size turntable that was used from the beginning of steam traction to turn around the locomotives. It could be found in middle size locomotives yards. This size of a turntable could also be found in small terminal stations on local branches.
Turntable 15.5 m (model size 96 mm)

The basic model in this size represents a standard design of a small locomotive turntable as used in Germany and around Europe before the WWII. The design is based on model with a fully covered wooden deck. The real diameter of the turntable would be, in case of this model, 15.5 m. In this finish the rail is placed on top of the wooden base.

This is a middle size turntable that was used from the beginning of steam traction to turn around the locomotives including the earlier design of locomotives with a tender. It could be found in middle size locomotives yards. This size of a turntable could also be found in terminal stations.

**IMM 4.10- NWTH**
- Top Diameter: 96 mm
- Traction Drive: Stepper motor drive
- Main Step: Adjustable 7.5 - 120 Degrees; in 7.5 steps
- Finishing: Wooden Top, H-Shape, Rails on top
Turntable 19.2 m (model size 120 mm)

The basic model in this size represents a standard design of a small locomotive turntable as used in Germany and around Europe before the WWII. The design is based on model with a fully covered wooden deck. The real diameter of the turntable would be, in case of this model, 19.2 m. In this finish the rail is placed on top of the wooden base.

This turntable would be one of the biggest of this type built. As the size and power of the steam locomotives increased there was a need for bigger turntable. With the even newer locomotives the technology had advanced and the next standard became a turntable with a bridge construction.
**Turntable Drive – Kit** (under development)

For the modelers who want to build their own turntable and are struggling with the drive and control parts we do offer a solution. We have a range of turntable drives that can either be mounted to standard turntable models that are available on the market (from well known manufactures such as PECO, Fleischmann, Heljan, etc.) or can be used on self-built turntables.

This is the simplest kit we offer. It contains only the main parts that are needed for a turntable drive. These are: stepper motor, a sensor of zero position, gear, and the control electronic with the pre-installed software.

**IMM 2.10-THS -K (kit only)**

- Voltage: max. 12V DC or 9V AC
- Current: 1 A
- Main Step: Adjustable 7.5 - 120 Degrees; in 7.5 steps
- Gear ratio: 8:120
- Features: - speed adjustment

**IMM 2.10-THS**

- Voltage: max. 12V DC or 9V AC
- Current: 1 A
- Main Step: Adjustable 7.5 - 120 Degrees; in 7.5 steps
- Gear ratio: 8:120
- Features: - speed adjustment
  - M2 - 10 mm thread
  - 2 wires - rail potential

This is a complete turntable drive that can be mounted on any customer made turntable with M2 thread.
**Turntable from Rhätische Bahn - Nm (under development)**

On a special request from the Swiss manufacture of model railway accessories – the GLEIS-Tech Gröbli, we are currently finalizing a design of the narrow gauge turntable. This shall be an exact replica of the turntable that is used at the Rhätische Bahn (Switzerland) in the station of Filisur.

The turntables come with the Nm gauge – 6.5 mm between the rails and shall be available in two versions. The first, a version with a wooden deck, the second version comes with deck covered with metal sheets. The main diameter of the turntable is 15 m or 9.4 mm in the 1:160 scale. The drive is our standard product with all its standard functions.

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**IMM 3.10 - NmMT**

- Top Diameter: 94 mm
- Traction Drive: Standard turntable stepper motor drive IMM 2.10-THS
- Main Step: Adjustable 7.5 - 120 Degrees; in 7.5 steps
- Finishing: Metal Top, Rails on top

**IMM 3.10 - NmWTI**

- Top Diameter: 94 mm
- Traction Drive: Standard turntable stepper motor drive IMM-2.10-THS
- Main Step: Adjustable 7.5 - 120 Degrees; in 7.5 steps
- Finishing: Wooden Top, I-Shape, Rails on top
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