Tongue Rolling System BWG-S

IBaV-System Brandenburg with Integrated Tongue Rolling Device System Schwihag
Tongue Rolling System BWG-S

IBaV-System Brandenburg and Tongue Rolling Device System Schwihag – is the unification of two systems that have individually withstood the test of time for a multitude of requirements and long-term strain.

The Tongue Rolling System BWG-S delivers on our customers’ preference for modular turnout systems.

The Tongue Rolling System BWG-S equally embraces the demand for improved environmental protection and reduced maintenance effort. Our modern turnout technology optimizes the service life of turnouts.

Design and Function of the Tongue Rolling System BWG-S

The Schwihag tongue rolling device, integrated into the base plate, is a component of the Inner Stock Rail Fastening – System Brandenburg. The separate slide chair comprises the tongue rolling device.

In a rigid ribbed base plate bearing, the tongue rolling device is bolted to the roller socket integrated into the base plate. In elastic bearings, the roller socket is vulcanized into the base plate in upright position on the sleeper surface and is hence decoupled from the motion of the ribbed base plates.

Horizontally, the tongue rolling system can be fastened in different positions. It is then continuously adjustable against the tongue rail. Vertically, each tongue roller is continuously adjustable from –0.5 mm to +6.5 mm.

1 Switch rail
2 IBaV System Brandenburg
3 Roller plates System Schwihag
4 Fitting strip
5 Fastening bolts
Application of the Tongue Rolling System BWG-S

If the Tongue Rolling System BWG-S is applied, the slide chairs do not need to be lubricated.

The Tongue Rolling System BWG-S is suitable for any turnout, and is available for virtually any rail profile.

The Tongue Rolling System BWG-S is optimized for the different spring stiffness levels of the ribbed base plate supports (rigid and elastic).

The Tongue Rolling System BWG-S combined with coated and therefore less rust-prone slide chair plates, allows the installation of a low-maintenance turnout with a long service life.
Highlights

- Integrated into the slide chair plate
- Low maintenance and inspection-friendly
- Environmentally friendly and cost-effective
- Easy replacement of the tongue rolling device
- Reduced switch operation forces
- High availability
- Fast payback

Conclusion

The modern engineering of voestalpine BWG, combined with highest manufacturing quality, proven through many years of application with DB AG and standard in high speed traffic, light rail systems and industry, guarantees optimum service. It also ensures a sustainable reduction of the cost incurred in superstructure maintenance. Furthermore, the turnout availability can be increased considerably.