

# RAILbrush

The innovative solution to:

- ✓ clean rail tracks
- ✓ improve track adhesion
- ✓ improve rail traffic punctuality
- ✓ improve track circuits effectiveness
- ✓ reduce operational & maintenance costs

*Simply applied within track time tables!*



**AFT** pneumotion

# What the rail brush is

The rail brush is a rail head conditioning system to clean the running surface of rails.

It comprises a special steel brush head, attached to a single acting pneumatic cylinder. The unit is easily mounted on a bogie. Due to the pneumatic cylinder, the set pressure/force between brush head and rail is maintained.

The brush head and cylinder are available in different shapes, sizes and materials, tuned at the specific application.

# What the rail brush does

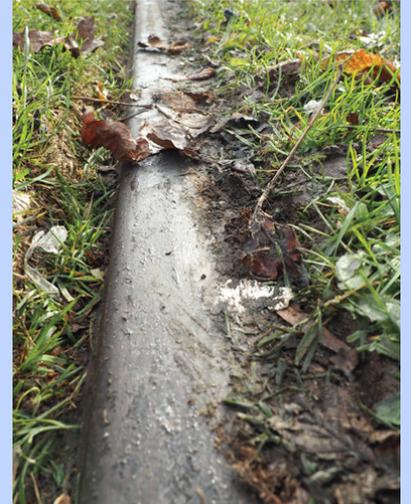
The rail brush scrapes over the surface and removes debris, such as compressed leaves, ice, sleet, snow, sand, grease, rust, water, ore etc.

# Rail brush improves

- ✓ track adhesion
- ✓ traffic punctuality
- ✓ braking efficiency
- ✓ acceleration efficiency
- ✓ track circuits effectiveness

The effect of the rail brush is a cleaner running surface, with improved adhesion characteristics. Traction and braking characteristics are improved. Additionally there is less wear of the rail track and the rolling stock.

**The rail brush improves driving characteristics, punctuality and safety, combined with reduced operational and maintenance costs.**

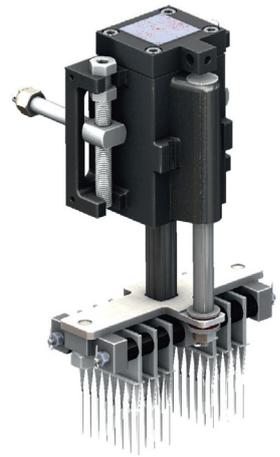


# How the rail brush operates

There and where cleaning of the rail is required the pneumatic cylinder is filled with compressed air, based on an activating signal. Because of this, the brush head is pushed against the running surface of the rail, with a regulated pressure/force. By turning off the activating signal, or air pressure, the cylinder will be relieved of compressed air and retracted by the built in spring. The brush head is then removed from the rail.

The activating signal can be provided in many different ways. Some examples are:

- ✓ manually, by the driver or by maintenance personnel
- ✓ connected to the non-skidding system of the vehicle
- ✓ GPS configured zones/routes



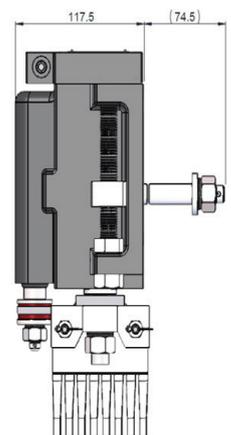
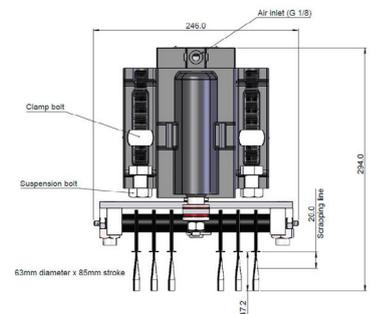
# Peripheral equipment

Dependent on the actual situation the following peripheral equipment is (partially) required:

- ✓ Air compressor
- ✓ Air receiver tank
- ✓ Brackets for assembly on the bogie
- ✓ Pneumatic valve for control of the pneumatic cylinder
- ✓ Piping/tubing, fittings for assembly of the pneumatic system
- ✓ Pressure regulator for regulating the pressure/force of the brush head

AFT Pneumotion designs, manufactures, supplies and assembles all necessary peripheral equipment.

**A well balanced combination of standard and custom made solutions by AFT Pneumotion, aimed at the actual situation, makes the rail brush applicable in probably any given situation.**

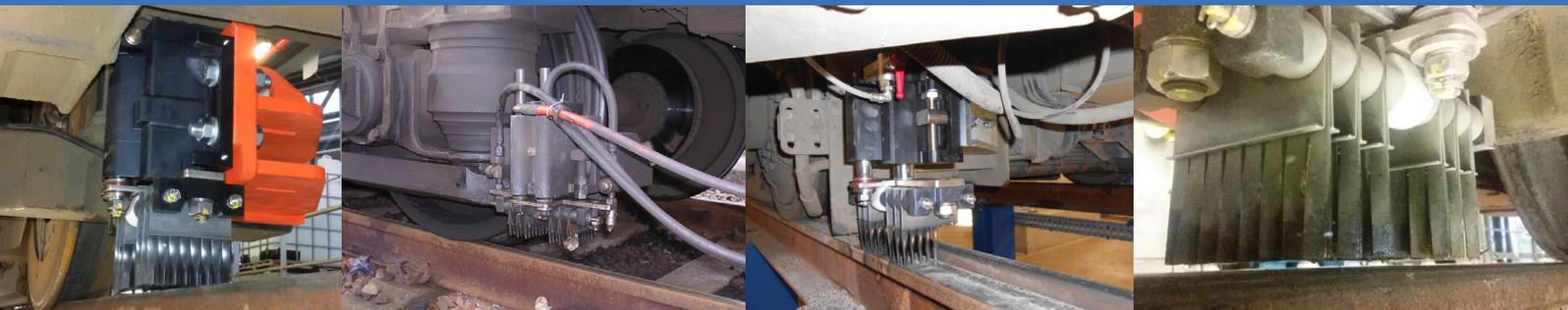


# Applications

The rail brush can be fitted to vehicles such as trams, metro trains, mainline trains and track cleaning Vehicles.

The rail brush is used for example on:

- ✓ All London Underground trains that work above ground, supplied since 1990
- ✓ London Overground, West Anglia Main Line
- ✓ Network Rail Treatment, Train Fleet
- ✓ SNCF – Maintenance Train Fleet



Do you want to know more about the solution that:

- ✓ cleans rail tracks
- ✓ improves rail traffic punctuality
- ✓ improves track circuits effectiveness
- ✓ reduces operational & maintenance costs
- ✓ can decrease damage to infrastructure and equipment
- ✓ simply is applicable within track time tables

The innovative solution used with the current fleet, within track time tables!

Contact us via [info@aftpneumotion.nl](mailto:info@aftpneumotion.nl)  
Visit [www.rail-brush.com](http://www.rail-brush.com)

## Contact

AFT Pneumotion  
Ohmweg 27  
2952 BD Alblasterdam, Nederland

Tel (+31) (0)78 691 91 15  
[info@aftpneumotion.nl](mailto:info@aftpneumotion.nl)  
[www.aftpneumotion.nl](http://www.aftpneumotion.nl)