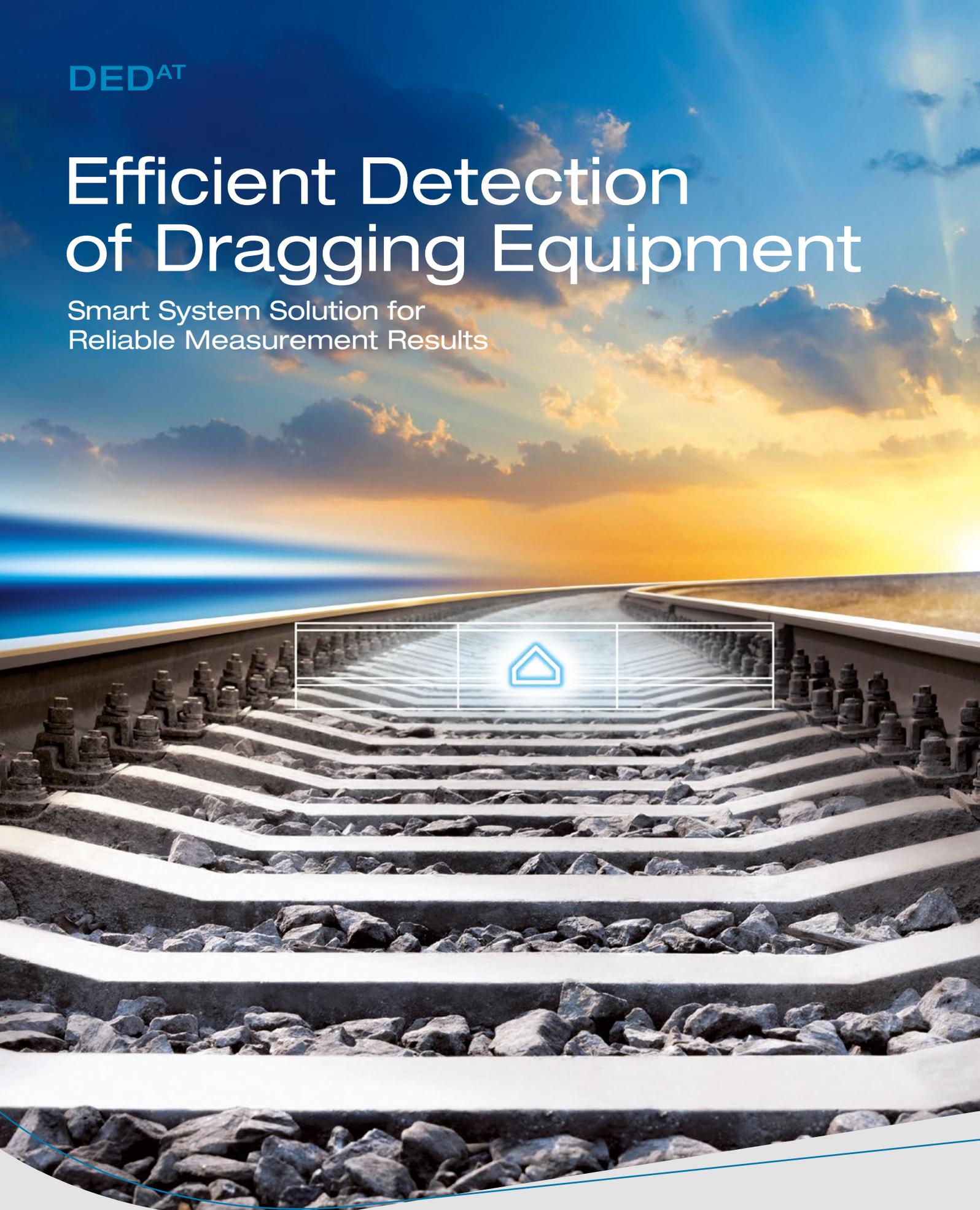


DED^{AT}

Efficient Detection of Dragging Equipment

Smart System Solution for
Reliable Measurement Results



Robust System Concept – Focused on Efficiency

The diagnostic system **DED^{AT}** is mounted and fixed in the rail track to monitor the undercarriage of passing trains for dragged parts using acceleration sensors and evaluation electronics.

The complete system basically consists of three principal components: a sensor on the C-Profile, the C-Profile itself – that can be mounted on any track – and a shock absorbing cover. The cover for both inner detection and outer detection is of identical construction.

The possibility to separate the covers reduces the risk of collateral damage, makes its installation easier and reduces maintenance costs.

Flexible Sensor System meets all Demands

Through drooping parts of a train clashing with the plates the C-Profile reacts by vibrating. The strength of the oscillation is measured and processed.

All sensors are identically constructed and only differ from each other in the measuring units used. The acceleration sensors detect strikes up to 500 g. Within these parameters the alarm threshold is a matter of choice. Programming the threshold is factory set to meet the customer's specification.

DED^{AT} makes it possible to detect where an object is located

- left or right outer (outer detection)
- central between the rails (inner detection)

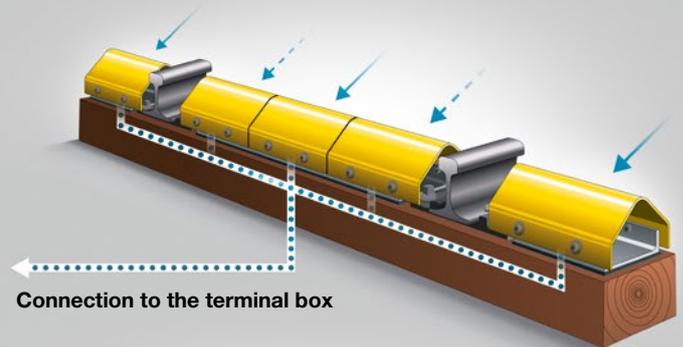
System Benefits

Technical Characteristics

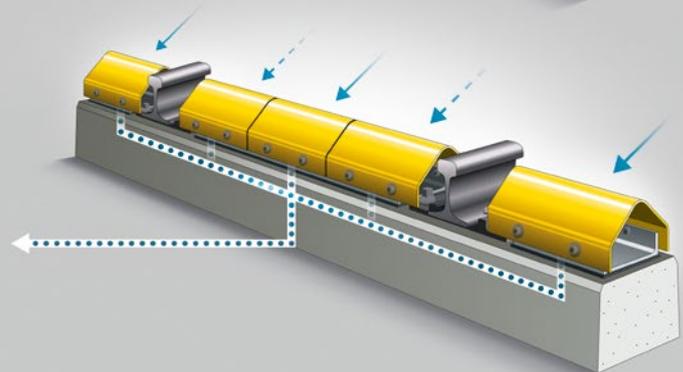
- The acceleration sensors have no moving parts, therefore minimal maintenance is needed (e.g. no lubrication)
- The clearance gauge is always respected
- Strikes up to 500 g detected
- Possible to set alarm limits when being outside of the track
- Solid construction using 6 mm thick plates
- Adaptable to any gauge width



**DED^{AT} with inner and outer detection
(inner single or double sensors)**



Connection to the terminal box



**The system can be installed on all
sleeper whether wood, concrete or steel**

Operation Conditions

- Temperature range: -20 °C to +70 °C
- Functions in all weather conditions (including heavy rain)
- Suited to electrified tracks
- Sleeper mounted (wood, steel or concrete) – machine tamping is therefore possible
- Fits all rail profiles

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