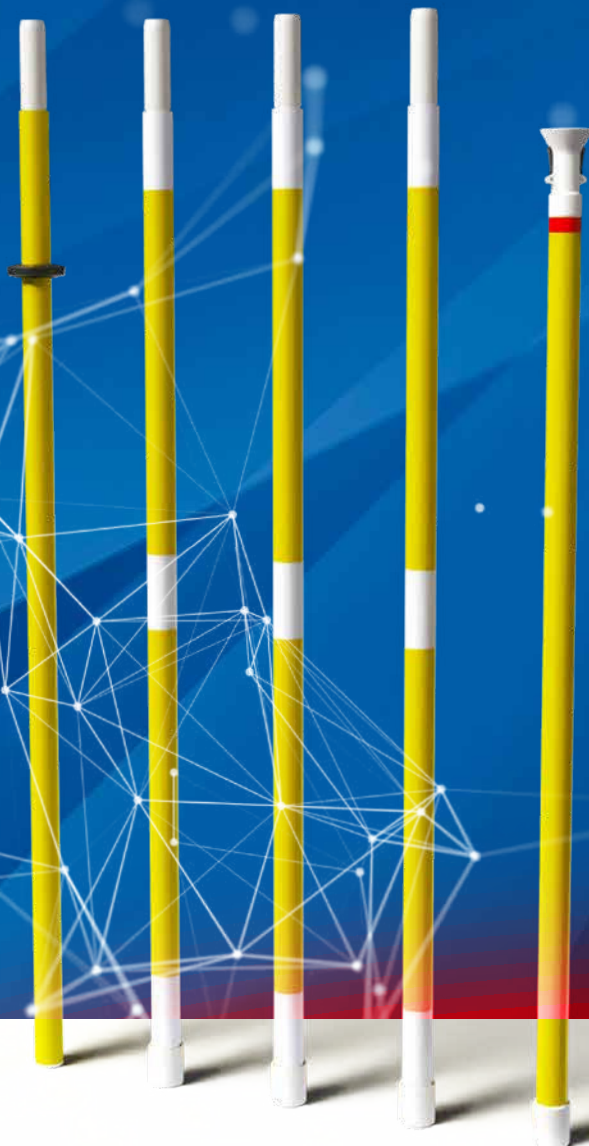


# ENERGY

WE ENERGIZE  
THE WORLD

## SAFETY PRODUCTS AND TOOLS

FOR THE RAILWAY ELECTRIFICATION



# IN FAVOUR OF MOSDORFER RAIL'S

SAFETY TOOLS AND PRODUCTS

02

**Our portfolio for safety equipment consists of voltage detectors, earthing poles, suspension hooks, telescoping earthing poles.**

## Voltage detectors



Safety equipment is one of the most sensitive aspects of railway electrification. Reliable products, ease of use and operational safety are therefore essential. Mosdorfer Rail offers a complete range of voltage detectors, earthing and operating poles, which can be exactly match to any requirements thanks to our modular system design.

Mosdorfer Rail offers voltage detectors for all common railway voltage systems worldwide. Our voltage detectors are universal – depending on the model they can be used on contact wires and power lines or on switchgear – and they are impressively easy to use. For maximum safety and certainty, Mosdorfer uses a double signal system.

An audible and a visual signal give a clear warning if voltage is present. Each time they are turned on, our voltage detectors perform a self test before giving a ready signal – an important safety feature.

### Benefits

- Clear and unambiguous signalling
- Self test every time it is switched on
- Intelligent modular system for all applications
- Use the same device indoors and outdoors
- Design meets international standards

# VOLTAGE DETECTORS

QUALITY, SAFETY AND RELIABILITY

**Voltage detectors with a contact electrode extension have universal application, as they allow reliable indications even in difficult electrical field conditions.**



One of the most important operations when working on electrical switchgear is to check that voltage is absent, and this requires voltage detectors that meet the highest quality and reliability requirements.

The optimal arrangement of the light-emitting diodes, the integration of the acoustic element as well as an innovative self-test are basic elements of all device designs. With our many years of experience, we have the opportunity to develop and deliver voltage detectors for reliable use even in critical field situations.

Mosdorfer Rail can supply voltage detectors for all common voltage systems:

- 15 kV at 16.7 Hz
- 25 kV at 50 Hz
- 1,500V DC
- 3,000V DC
- Voltage supply for trolley lines
- Voltage supply for urban rail systems with third rail

03

# SAFETY

# HIGHEST STANDARDS

QUALITY, SAFETY AND RELIABILITY

# CATENARY GEOMETRY LASER MEASURING DEVICE

EASE OF OPERATION  
WITH MAXIMUM PRECISION

# QUALITY

04

## Short-circuiting devices

Our safety equipment represents the highest international standards of quality, safety and reliability.

Because earth cables can lash about in a short circuit situation and endanger personnel in the immediate vicinity, they should not be unnecessarily long and the optimal cable should be selected for the specific application. Mosdorfer Rail therefore manufactures all earthing and short circuiting devices exactly and individually to meet respective customer requirements.

## Earthing poles

Earthing Poles for railway systems are used for connecting railway earthing devices. To do this, the earthing terminals are brought up to the contact wire. These earthing poles are marked with reflective strips on a yellow background. This allows optimum identification of the work site even during the night work.

### Portfolio

- Earthing clamps for all applications
- Conductor screw clamps for all applications
- Cylindrical, ball and T-bolts are earthing bases
- Earthing poles
- Earthing and short-circuiting devices
- Rail earthing clamps
- Contact wire earthing terminals



05

## The catenary geometry laser measuring device combines ease of operation with maximum precision in a compact design.

Modern high-speed trains travel at up to 350 km/h (217 mph). To ensure a constant power supply at such speeds, catenary systems need to be installed with precision and tight tolerances. Mosdorfer Rail provides state-of-the-art tools and equipment that meet and exceed all requirements of international railway operators.

## Application

- Height and stagger measuring
- This measuring device uses a laser range finder to measure the height and stagger of the contact wire
- Some versions can also be used for inclination measurement and for measuring the distance to the mast.





# CATENARY GEOMETRY LASER MEASURING DEVICE

PRECISE AND COMPACT

06

## Precise and compact: The Mosdorfer Rail catenary geometry laser measuring device.

### Device numbers



#### Benefits

- Contactless laser measurement
- Precise measurement of height and lateral position
- Robust mechanical construction
- Simple to adjust, adjustment by manufacturer is not required
- Weatherproof and corrosion resistant
- Easy to transport
- Measures track superelevation and pole distance (depending on model)

- Working height: approx. 1.2 m above rail top edge
- Suitable for all types of catenary systems
- Contact wire stagger +/- 75 cm
- Track gauge: 1,435 mm, 1,524 mm, 1,000 mm (other track gauges on request)
- Measurement accuracy; lateral position +/- 5 mm, contact wire height +/- 0.5 mm
- Weight: 11 kg

# OTHER TOOLS AND ACCESSORIES

EASE OF OPERATION  
WITH MAXIMUM PRECISION

07

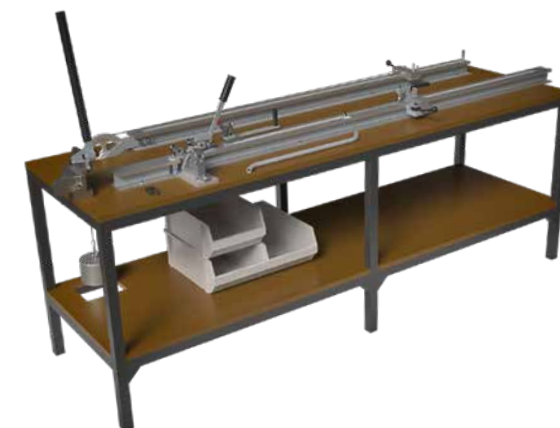
## Come-along clamps

For copper cables and steel II cables with a tensile strength of up to 650 N/mm<sup>2</sup> according DIN 48201.



## Dropper mounting bench

The dropper table is used to prefabricate complete Mosdorfer Rail droppers in various lengths and with different components and cables. New hydraulic version available.



Mosdorfer Upresa Rail S.A.U.  
C/Empordà 7, Polígono Industrial Congost  
08403 Granollers, Spain  
Phone +34 938 40 03 65  
[mosdorfer.upresa@mosdorfer.com](mailto:mosdorfer.upresa@mosdorfer.com)

Mosdorfer Rail Ltd.  
2-4 Orgreave Place, Orgreave, Sheffield S13 9LU, UK  
Phone +44 114 38 78 370  
[ordersrailuk@mosdorfer.com](mailto:ordersrailuk@mosdorfer.com)

Mosdorfer Rail S.r.l.  
Via Achille Grandi 46, 20017 Rho (MI), Italy  
Phone +39 02 64 08 81 42  
[inforail.it@mosdorfer.com](mailto:inforail.it@mosdorfer.com)