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## **Safely earthing pipelines - with screwable earth rods from DEHN**

**Pipelines are the lifeline of our industrialised society. Their reliable functioning is essential for many supply and production systems. Increased bundling of transportation and energy routes increases inductive and ohmic interference on pipelines. As a result, voltage can occur on and damage pipelines. This may present a hazard to people, material assets and the environment, often resulting in high repair costs. Interference voltages can be caused, for example, by nearby high-voltage transmission lines and railway lines, but also by earth faults and lightning currents. The screwable earth rod from DEHN is the solution for safe earthing. The very low earth electrode resistances achieved with it reduce the corresponding voltages on the pipelines to a minimum. Interference voltages are safely discharged, thus protecting pipelines and people.**

By penetrating deeper earth layers with constant earthing resistances, the screwable earth rod ensures a high-quality and safe earth-termination system that is made to last. With the screwable earth rods, DEHN offers a simple, variable and safe solution for drilled earth-termination systems up to a depth of 99 m. This means that the very low earthing resistances (1 - 2 Ohm) required for pipelines, for example, can be achieved.

The screwable earth rod is the ideal solution and can be used when normal earth rods or steel earth rods are not suitable. Variable earth electrode lengths enable optimum installation with a drill crane. The screw technology allows quick connection and thus quick insertion into the ground.

Tested and fully galvanized connections protect the screwable earth rod from corrosion. Time-consuming protection of these connection points with heat-shrinkable sleeves is no longer necessary. All cross-sections of the conductor and earthing materials meet the specifications of DIN EN IEC 62561-2, DVGW GW 22 and VDE 0101-2. Of course, DEHN also offers a complete range of products from earth electrodes to connection and sealing technology as well as other necessary accessories.

In order to maintain the functionality of pipelines and thus to ensure optimal operation, anti-corrosion measures and other protection measures are necessary in addition to the all-important earthing. From simple isolating spark gaps for hazardous areas for the protection of insulating joints, to robust, powerful decouplers for pipelines subjected to high-voltage interference, right through to intelligent decoupling devices such as VCSD (Voltage-controlled smart decoupling device) that can be integrated into monitoring and SCADA systems: DEHN is a one-stop shop for complete solutions and extensive services.

[You can find more information on the new screwable earth rods on our website.](#)

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Photo: Safely earthing pipelines - with screwable earth rods

### About DEHN SE

DEHN is a leading, international family-owned electrical engineering company based in Neumarkt, Germany. With its comprehensive portfolio, DEHN addresses the megatrends of our time - from e-mobility and renewables to the protection of critical infrastructure. The company offers solutions and services for lightning and surge protection as well as safety equipment – fields in which, with more than 1,100 patents, DEHN is a leading innovator. The company's products protect people and buildings, systems and telecommunications technology, process industry, as well as photovoltaic systems and wind turbines.

With more than 2,400 employees worldwide, DEHN achieved revenue of around 460 million euros in the fiscal year 2022/2023. Alongside more than 110 years of experience, this constant growth is based on the highest quality standards and a consistent orientation towards customers and markets worldwide.