

Surge Protection Devices



Lightning Protection / Earthing



Advanced Engineering Services



Safety Equipment



Company Profile

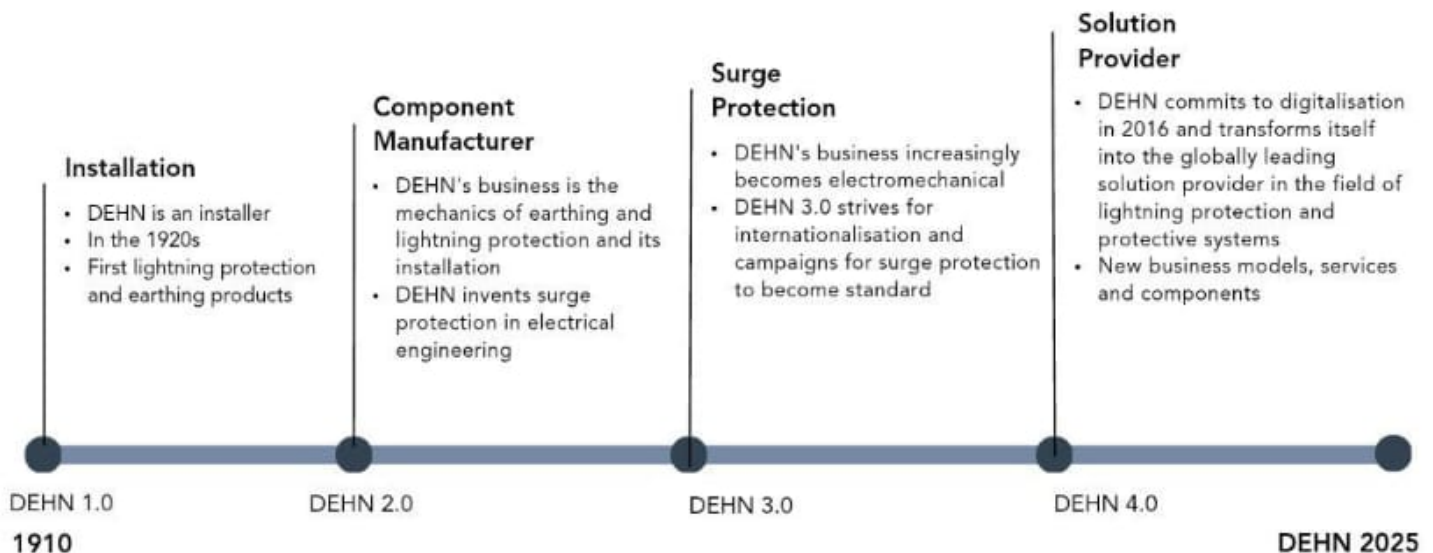
- Founded in Germany in 1910.
- Most reliable & trustworthy partner for Lightning Protection, Surge Protection and Earthing worldwide.
- Presence in more than 70 countries.
- Invented first SPD of the world.
- More than 4000 devices and components.
- Unique lightning test laboratory for 400 KA 10/350 microseconds - Accredited by German Accreditation Body DAKKS.
- Protected Multiple Oil & Gas Refineries, LPG Bottling Plants, and Marketing Terminals (IOCL, BPCL etc) in India.
- Protected More than 3,00,000 Telecom sites in India.
- Protected several renewable energy plants.
- Prestigious Projects - Indian Parliament, AIIMS, Indian Railways, Central Secretariat, PM Office, MAHSR, AAI, Kolkata Metro, IOCL, BPCL, GAIL HPCL, etc.
- Solutions as per IS/IEC 62305, NBC -2016, OISD-180, IS/IEC 61643, IS 3043, IEEE 80 standards in INDIA.



VDE



DEHN Stages of Development



Lightning Protection

IS/IEC 62305 - Protection against lightning

Part 01
General Principles

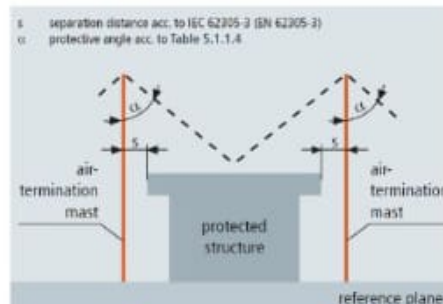
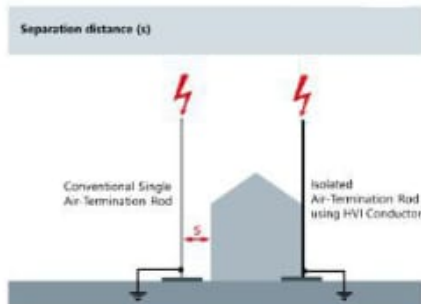
Part 02
Risk Management

Part 03
Physical Damage
to Structures
& Life hazard

Part 04
Electrical and
Electronics system
within structures

External lightning protection system

- Air Termination - Angle of Protection, Rolling Sphere or Mesh Methods.
- Down Conductor with proper separation distance
- Foundation Earthing, Type A or Type B earthing



ELP methods: Rolling sphere radius, protection angle, mesh size and typical preferred distances between down conductors

Class of LPS	Protection method			Typical down conductor spacing [m]
	Rolling sphere radius r [m]	Protective angle α	Mesh size w [m]	
I	20		5 x 5	10
II	30		10 x 10	10
III	45		15 x 15	15
IV	60		20 x 20	20

Type 1 Powerline Surge Arresters



Key Features of Type 1 Combined Lightning and Surge Arresters

- Low let-through energy
- Spark-gap-based combined lightning current and surge arrester
- Maximum system availability due to RADAX Flow Technology offering follow current limitation
- Discharge capacity up to 100kA (10/350 μ s)
- Operating state/fault indication by indicator flag in the inspection window
- Low Voltage Protection Level
- Vibration and shock-tested according to EN 60068-2
- Short Circuit handling up to 200 KA peak
- No need of backup fuse even for high rating transformer

Type 2 / Type 3 Powerline Surge Arresters



Key Features of Type 2 and Type 3 Surge Arrester

- Prewired complete unit tested for 8/20 μ s surges
- Energy coordination with other arresters of the Red/Line product family
- High discharge capacity due to heavy-duty zinc oxide varistors / spark gaps
- High reliability due to "Thermo Dynamic Control" SPD monitoring device
- Vibration and shock-tested according to EN 60068-2

BLITZDUCTORconnect



Key Features of BLITZDUCTORconnect

- Slim 6mm width, modular design, easy maintenance.
- Local indication & remote health monitoring.
- No signal disruption during faults.
- Tool-free polarity protection & maintenance.
- Lightning current carrying capability of 1.5 kA provides optimal system protection
- secR module locking and fail-safe function ensure high system availability.

Communication / Data Line Surge Arresters



Pluggable DIN Rail Mounted Arresters (BLITZDUCTORconnect Modular)



Compact DIN Rail Mounted Arresters (SD2, RK series)



Arresters for LSA Technology and Coaxial Connection



BLITZDUCTOR XT - Protection of Signal Lines & Terminal Equipments



Arresters for Field Devices



Arresters for Terminal Connection



Arresters for Data Networks & Ethernet Applications



Arresters for Protecting Intrinsically Safe Measuring Circuits

Advanced Engineering Services



Lightning Protection Adequacy Study and Design

Earthing System Health Assessment and Audit



Enhanced Power Quality study & Analysis



Electrical Arc Flash Study



Prospective Fault Current Measurement



Cathodic Protection & AC/ DC Interference



DEHNrecord SD EPMS

Earth Protection and Management System



DEHNrecord SD EPMS is next generation Earthing Protection and Management System, which helps users to monitor the resistance of the Earthing system, neutral to earth voltage, earth integrity and leakage current on real time basis and records the trends of values with time-series data over a cloud.



Features

- One touch IOT platform
- Realtime monitoring with alarms & events
- Intelligent diagnosis & data driven actions
- Predictive Maintenance
- Enhanced safety & improved reliability
- True RMS measurement of all critical parameters

DEHNterra & DEHNterra⁺

Green Backfill Earthing Compound



Features of DEHNterra

- Tested for lightning currents for short and long duration
- Green earthing material
- Non-corrosive and neutral in nature (pH ~7.0)
- Fulgurites free earthing material
- Non-leachable solution for flood prone areas
- Suitable for adverse climate conditions little bit of body text

DEHNterra is a fulgurites free, and green backfill earthing solution. The solution is critically synthesized to be compactable with a very good flow percentage value to ease out the installation of the earth pit. DEHNterra has been designed to increase the contact area between earth rod and inner wall of the earth pit.



Features of DEHNterra⁺

- Earthing for critical applications
- Load bearing material-Strength: upto 50 MPa
- Low water requirement- Just 20% of the total solid
- Less permeable to chlorides and Sulphur present in the environment.
- Maintenance-free Earthing
- Portable Earthing material
- ROHS and REACH tested



ISG / Surge Diverter



DC - Decoupler



HVI Conductor

Tested Components - Reliable for Years



Range of Safety Devices & Protection Gears



Earthing and Short-Circuiting
Devices



Arc Fault Protective
Hood and Suit



Voltage Detector



Hedge Engineering-The Authorized dealers for Dehn India in the Kerala Market

Phone: 9633355645/9539509787

Our Services



Lightning
Protection



Surge
Protection



Earthing



Safety

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**DEHN protects.
Two Words, One Promise.**

