

About VOLT-SPB

VOLT-SPB is a specialized manufacturer of grounding systems for high-resistance soils. Our equipment is successfully used at the facilities of the largest Russian enterprises: PJSC Gazprom, PJSC Gazprom neft, PJSC Rosneft Oil Company, PJSC Novatek, JSC Russian Railways, PJSC Rosseti, PJSC RusHydro, PJSC MMC Norilsk Nickel, PJSC PhosAgro, PJSC Enel Russia, Highland Gold Mining Limited, PJSC Fortum and etc.

INNOVATOR

we are constantly developing new models of ground electrode and improving existing ones

122 ELECTRODE MODELS

a wide range of products allows you to organize grounding at objects of any complexity

*Source: company data.

EXPERT

over 12 years of work, we have created a strong professional team capable of solving any grounding tasks

48 STANDARD SOLUTIONS

are actively used in design and applied at facilities

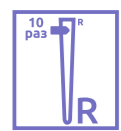
No. 1

by the number of produced chemical ground electrodes for the period 2020-2021*

1,000 SQUARE METERS

own full-cycle production and storage facilities

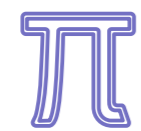
Benefits of chemical ground electrodes



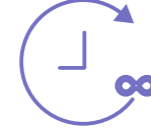
High efficiency



Minimal space



Constant resistance



Durability



Budget savings



Proved experience



Individual solutions



Technical support



Professionalism



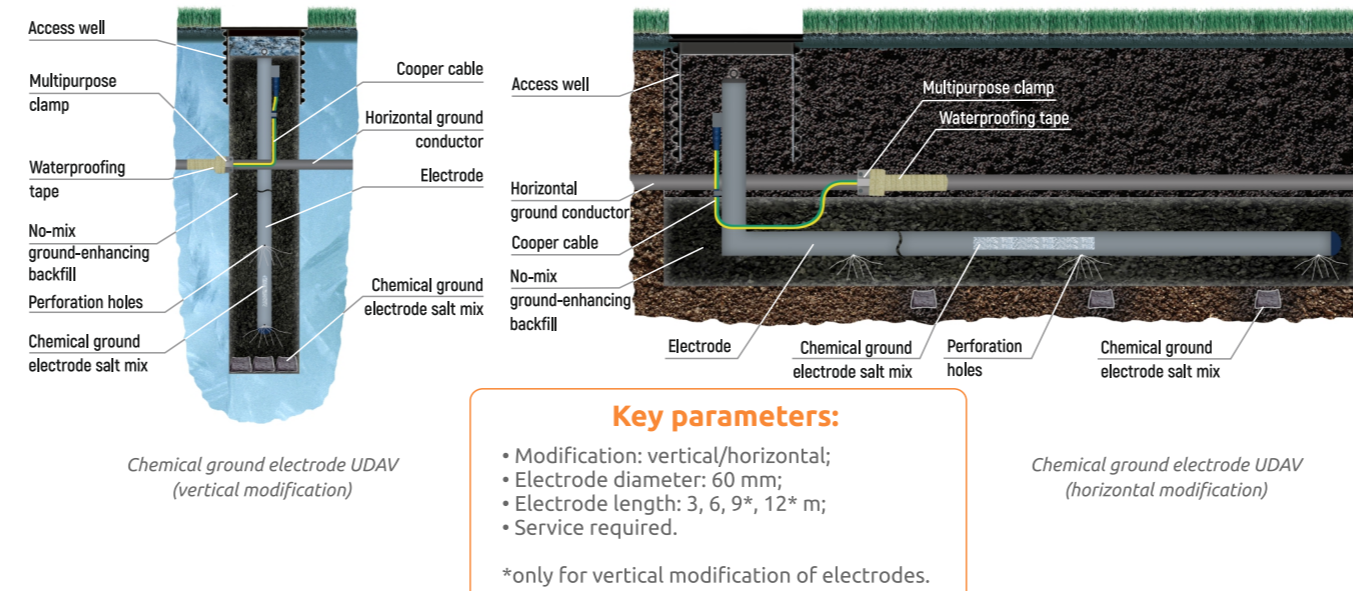
Easy installation

We always continue to grow

- ⊕ for 12 years we have been developing new models of electrodes and improving existing ones so that the best solutions in the field of grounding are applied at our customers' facilities;
- ⊕ the current QMS, tests and positive feedback from customers, as well as an expert rating of AA reporting confirm the high level of reliability of the company.

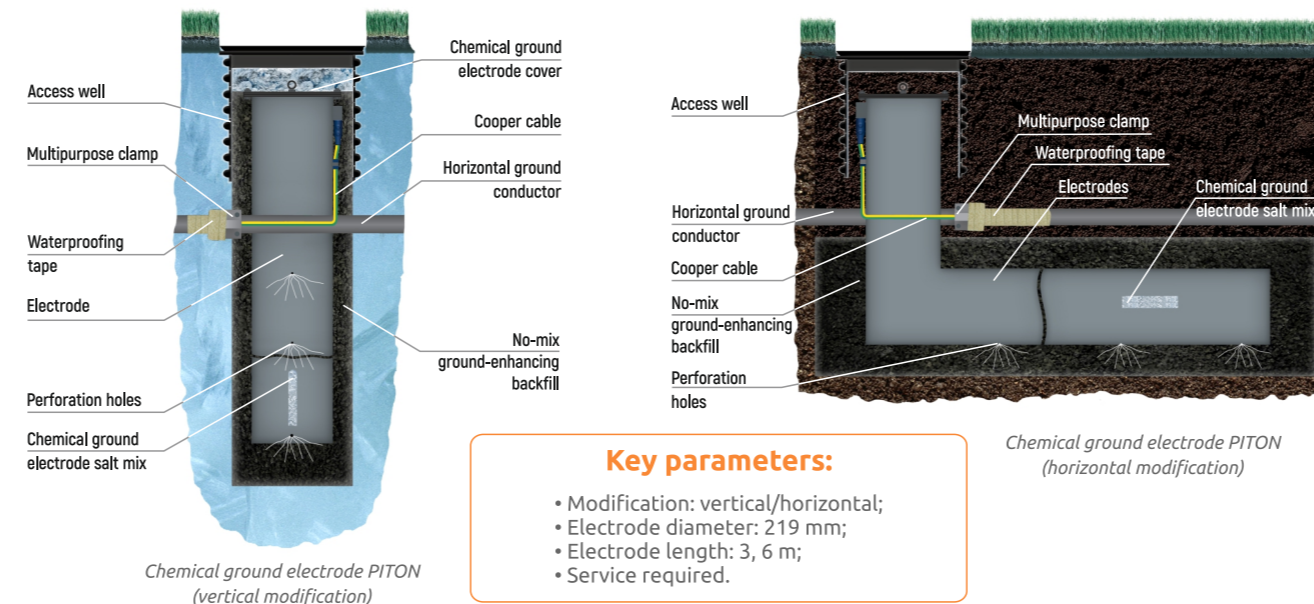
Chemical ground electrodes UDAV

The first chemical ground electrode developed by VOLT-SPB in 2012. It is actively used in the construction and reconstruction of facilities located in high-resistivity soils or cramped conditions.



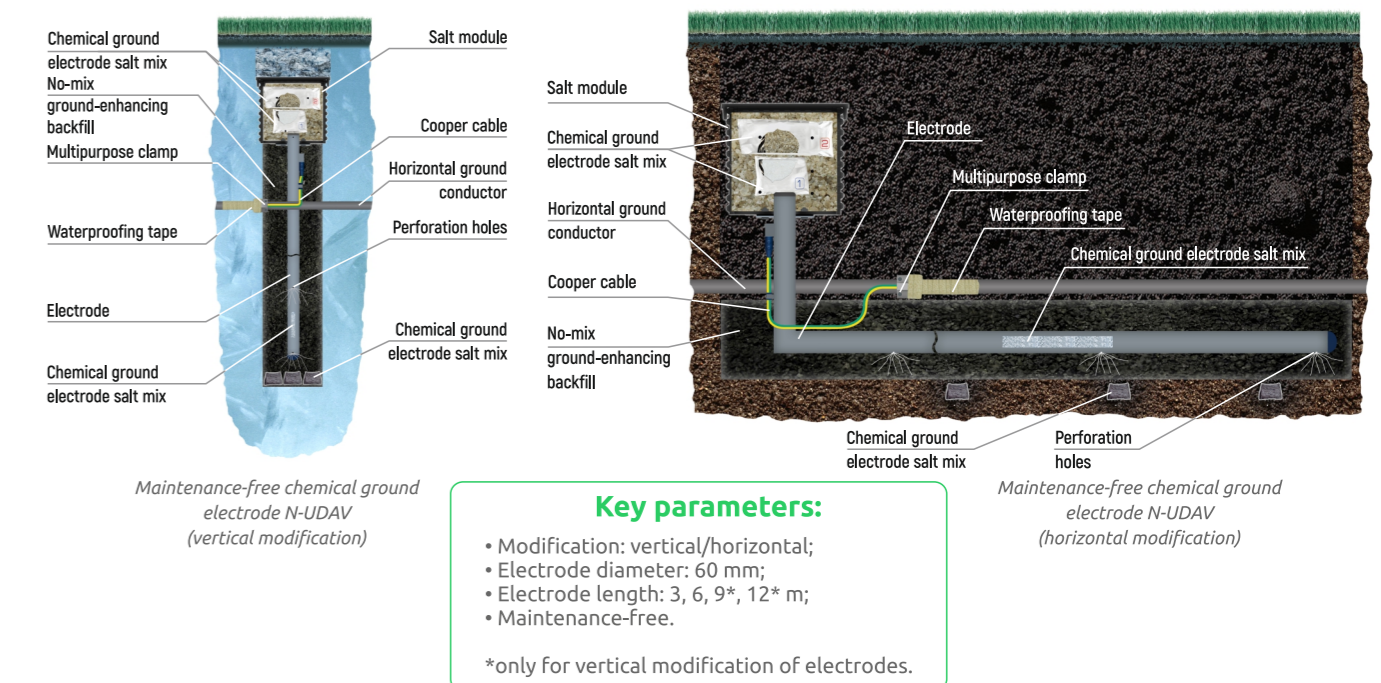
Chemical ground electrodes PITON

The electrode PITON has a diameter of 219 mm, a larger volume of salt filler and an extended time interval between maintenance. Between 2015 and 2019 was actively used at facilities located in remote and hard-to-reach areas (mainly on the Yamal Peninsula). Since 2018, VOLT-SPB has been recommending maintenance-free models of N-UDAV and 10 Om electrodes for use.



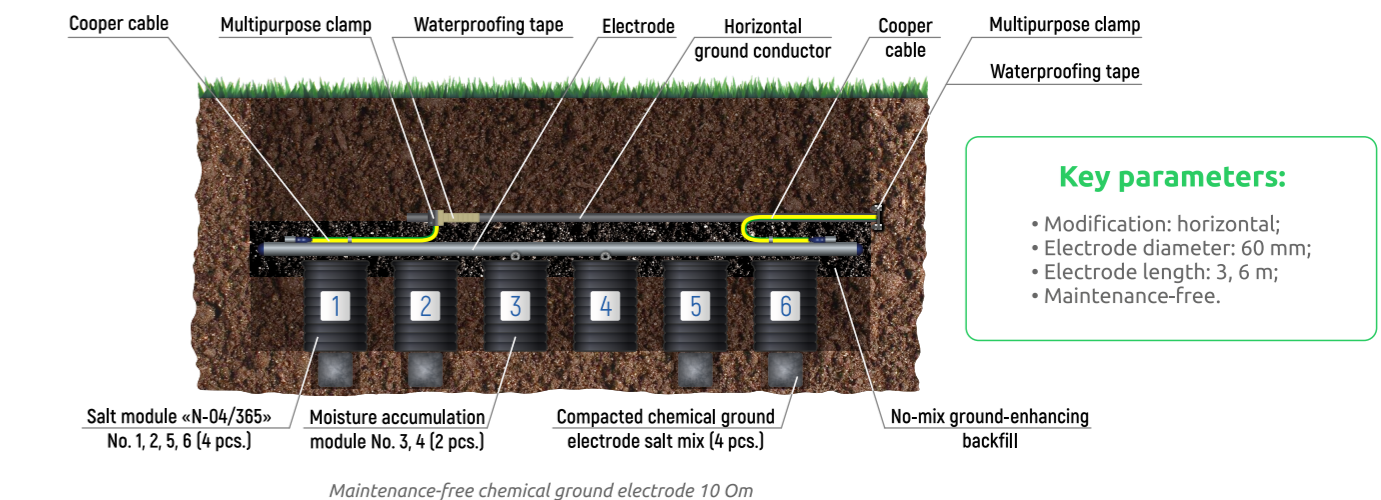
Maintenance-free chemical ground electrodes N-UDAV

The electrode N-UDAV was developed by VOLT-SPB and presented at the International Forum «Electric Grids – 2018». The earthing switch does not require additional backfilling of salt mix during operation, which minimizes maintenance costs. Sales leader among chemical ground electrodes in the company's line for 2020-2021.



Maintenance-free chemical ground electrodes 10 Om

The electrode 10 Om was developed by VOLT-SPB and presented at the International Forum «Electric Grids – 2019». In addition to improved characteristics, the design of the chemical ground electrode provides for a moisture accumulation module for efficient operation in dry soils. This electrode model has no analogues and is already used on objects.



Chemical ground electrodes

- ⊕ designed for use in high-resistance soils or in a limited area to accommodate the ground loop;
- ⊕ the principle of operation is based on the local replacement of the near-electrode soil with a ground-enhancing backfill and an artificial increase in the electrical conductivity of the soil surrounding the electrode due to the use of a salt mix.

Maintenance-free chemical ground electrodes

- ⊕ additional filling of salt mix is not required;
- ⊕ do not require maintenance costs;
- ⊕ extended warranty period (for electrodes 10 Om);
- ⊕ improved technical characteristics.

Grounding calculation

You can calculate the grounding resistance and the required number of chemical ground electrodes for your project in two ways:



on your own by entering the input data in our online calculator at www.volt-spb.ru/calc/;

1. INPUT DATA	4. CALCULATION
<input type="text" value="Soil resistivity"/> <small>Ohm·m, e.g., 500 Soil resistivity table</small>	<p>You have not entered contact details to receive the calculation of the number of electrodes</p> <p>Enter contact details</p> <p>Save your calculation</p>
<input type="text" value="Normalized resistance"/> <small>Ohm, e.g., 4</small>	CONTACT INFORMATION
<input type="text" value="Climate zone"/>	<p>Technical support (consultations, assistance in calculations, selection of equipment):</p> <p>Tel.: +7 (812) 407-28-52, 8:00 AM – 5:00 PM (UTC+3); Email: calc@volt-spb.ru</p>
<input type="checkbox"/> Factor two-layer soil into the calculation	
<input type="text" value="Resistivity of the bottom layer of soil"/> <small>Ohm·m, e.g., 500 Soil resistivity table</small>	
<p>These data are required only for the calculation of two-layer soil</p>	
<input type="text" value="Topsoil depth"/> <small>m, e.g., 5</small>	
<input type="checkbox"/> Factor the resistance of the existing ground loop into the calculation	
<input type="text" value="Resistance of the existing ground loop"/> <small>Ohm, e.g., 10</small>	



or by filling out the questionnaire at www.volt-spb.ru/calc/questionnaire/ or emailing all information about your request to info@volt-spb.ru.

Why VOLT-SPB:

- the best quality products at a reasonable price;
- many years of supply experience;
- timely fulfillment of the obligations assumed;
- focus only on earthing.

Certificates

Chemical ground electrodes have all the necessary quality certificates, conclusions and test reports:

- ⚡ INTERGAZCERT certificate (Voluntary Certification System of PJSC Gazprom);
- ⚡ certificates conformity with ISO 9001:2015 and Company standard Gazprom 9001-2018;
- ⚡ certificate of goods origin ST-1 and the permission from the Ministry of Industry and Trade of Russia;
- ⚡ protocols of the Russian State University of Oil and Gas named after I.M. Gubkin as part of the confirmation of compliance with GOST R IEC 62561-7-2016 and a thirty-year service life.



VOLT-SPB, LLC

Address:
Office 36, 5E, A, Mitrofanievskoe Highway,
Saint Petersburg, 198095

Phone:
+7 812 407-28-52
Working hours: 8:00 AM – 5:00 PM,
UTC+3

Site:
www.volt-spb.ru

E-mail:
info@volt-spb.ru

Legal information:
PSRN: 1107847080186
TIN: 7810582416
RRC: 783901001



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REDUCE RESISTANCE

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