Trench is a recognized world leader in the design and manufacture of high voltage equipment for application on electric utility and high energy industrial systems.

Oil insulated Voltage Transformers are used to convert high transmission line voltages (up to 550KV) to standardized low and easily measurable values, which will be used for metering, protection and control of the high voltage system. As such, the need for accurate and reliable voltage transformation is essential.

The reliability and security of Trench oil-insulated instrument transformers is based on over 50 years of innovation with oil-insulated units operating under a wide range of environmental conditions. Oil insulated Voltage Transformers also ensure suitable electrical insulation between high voltage and low voltage measuring equipment.
MAIN FEATURES

General

- Complete portfolio available from 72 to 550 kV
- Meet all IEC and ANSI metering and protection classes
- Rated primary Voltage up to 550 kV
- Rated Secondary Voltages 100 V, 100-V3 V, 100-V3, 110 V, 110-V3 V, 110-V3, ...
- Suitable also for Line Discharge use
- Fully type tested according to international standards
- Special tests are also available to meet specific customer requirements

Product design

- Oil/paper internal insulation
- External insulation with porcelain or composite insulator
- External part made of aluminum or stainless materials
- Sealed & Robust Construction
- Easy Customization to match all specific Customer requirements
- Easy Installation without special tools required

Available to withstand:
- Effects of internal arc (according to IEC 61869 Standard)
- Multi-chopped Test (according to IEC 61869 Standard)
- Heavy seismic solicitations, according to IEC 62271, IEEE 693 and specific customers’ requests (i.e. Chile ETG A 0.20)

Hermetically sealed. A suitable Nitrogen cushion or Inox steel bellows allows the oil volume variation in every service conditions.

Product process

- Optimized design to manufacturing
- Lean manufacturing concept applied to the whole supply chain
- Optimized design allows the use of reduced numbers of components and quick Customization to all Customer specific requirements
- Partial discharge free design and process
- Maintenance free during a long lifetime of more than 30 years
- Trench Management System has been certified to ISO 9001, ISO 14001 and OHSAS 18001 standards

Thousands of transformers installed and in service for more than 50 years all over the world and in all environmental conditions are the best guarantee of the quality and reliability of our products.
### ELECTRICAL and MECHANICAL DATA

<table>
<thead>
<tr>
<th>Type</th>
<th>Highest Voltage for Equipment (kV)</th>
<th>Rated Power-Frequency withstand Voltage (kV)</th>
<th>Rated Lightning impulse withstand voltage (kV)</th>
<th>Arc Distance (mm)</th>
<th>Minimum specific creepage distance (Pollution Level II) (mm)</th>
<th>Minimum specific creepage distance (Pollution Level IV) (mm)</th>
<th>Total Weight (KG)</th>
<th>Oil Weight (KG)</th>
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<tbody>
<tr>
<td>VMTA 72.5</td>
<td>72.5</td>
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<td>7500</td>
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<tr>
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<td>13750</td>
<td>6445</td>
<td>1450</td>
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</table>

Data are indicative and are not binding. Dimensions are referred to typical VTs equipped with porcelain insulator & according to IEC 61869 Standards – Other options are available.

The regular improving on design may cause discrepancies between this document and updated product.

On request our sales team will be glad to submit you an updated technical & commercial offer fully customized to your specific requests.