

ELPROM

HEAVY INDUSTRIES



TRANSFORMERS



ELPROM

HEAVY INDUSTRIES

CONTENT:

- 2 PRODUCTION CAPACITY AND STAFF
- 3 PRODUCTION
- 4 DESIGN, RESEARCH AND DEVELOPMENT
- 5 FACTORY ACCEPTANCE TESTS
- 6 AFTER-SALES SERVICE

TRANSFORMERS

MANUFACTURED (1962-2021)

2 500 UNITS OF GENERAL CAPACITY – **91 900+ MVA**



- Annual production capacity up to **5 000 MVA**
- Rated capacity up to **250 MVA**
- Rated voltage up to **400 kV**

Elprom Heavy Industries transformers have successfully passed type tests in independent laboratories

KEMA – Netherlands

ICMET – Romania



ELPROM
HEAVY INDUSTRIES

AMERICA

Brazil
Cuba
Dominican Republic
Panama
Jamaica
Venezuela

EUROPE

Albania | Bosnia and Herzegovina
Cyprus | Denmark | Estonia | Lithuania
Finland | France | Greece
Iceland | Kosovo | Ireland
Netherlands | Norway | Moldova
Romania | Russia | Spain
United Kingdom | Ukraine

AFRICA

Algeria | Cape Verde | Egypt
Equatorial Guinea | Ghana
Kenya | Mali | Morocco | Mozambique
Nigeria | Sudan | Tanzania | Tunisia

ASIA

Bahrain | Bangladesh | India | Iraq
Jordan | Kuwait | Kazakhstan |
Lebanon Malaysia | Oman | Pakistan
Saudi Arabia | Syria | Turkey |
Turkmenistan | United Arab Emirates

Main products



- Power transformers
- Autotransformers

- For Transmission Networks
 - For Industrial Applications
- Special Transformers*



Climatic conditions



- Tropical wet climate
- Tropical dry climate

- Subarctic climate
- Oceanic climate



Transformers Design Department

MORE THAN 40 HIGHLY SKILLED DESIGNERS AND ANALYSTS ARE PART OF **ELPROM HEAVY INDUSTRIES**

SPECIALIZED SOFTWARE

CAD / CAM SOFTWARE:

- AUTOCAD
- SOLIDWORKS
- FUTURECAM

SIMULATION & ANALYSIS:

- ANSYS
- MAXWELL 3D
- FLUENT
- HTR - EM

Electro – Mechanical Analysis

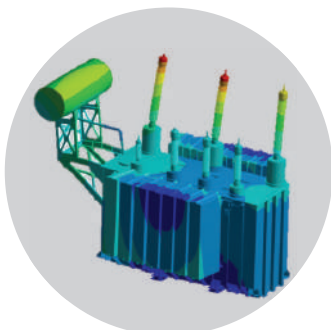
IMPROVEMENT AND OPTIMIZATION OF NEW AND EXISTING PRODUCTS OF ELPROM HEAVY INDUSTRIES
INVESTIGATION OF PROBLEMS AND IMPROVEMENTS OF QUALITY AND PRODUCT EFFICIENCY

Mechanical Analyses

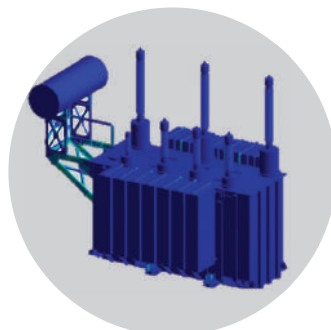
- Stresses and Deformations caused by "pull vacuum"
- Seismic Analyses

Electrical / Electro-Magnetic Analyses

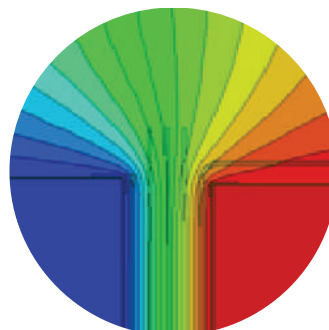
- Dielectric
- Electromagnetic
- Thermal
- Short-Circuit



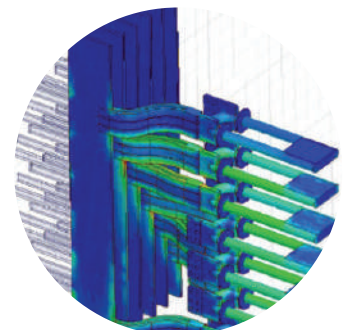
Vibration
modes simulation



Equivalent
stress simulation



Electrical
Field Stress



Current stress
in bus bars

Laboratory Complex Transformers

TEST LABORATORY IS ACCREDITED ACCORDING TO EN ISO/IEC 17025:2018.

THE FINAL PHASE OF THE QUALITY CONTROL OF TRANSFORMERS IS THE ACCEPTANCE TESTING OF THE FULLY EQUIPPED UNIT BEFORE SHIPPING.

THE MAXIMUM RANGE OF THE LABORATORY IS TESTING UNITS
WITH 250 MVA AND A VOLTAGE RANGE OF 400 KV



The laboratory's team

INCLUDES EXPERIENCED ENGINEERS AND SKILLED TECHNICIANS ABLE TO CONDUCT ALL NEEDED TESTS ACCORDING TO THE REQUIREMENTS OF MANY INTERNATIONAL AND NATIONAL STANDARDS: IEC, EN, DIN, BS, ANSI, BDS



Erection and Servicing



- Erection and tests of the transformers
- Servicing throughout the lifecycle of the transformer
- 24/7 clients support
- Quick and professional response in less than 48 Hours
- Distance support and advices

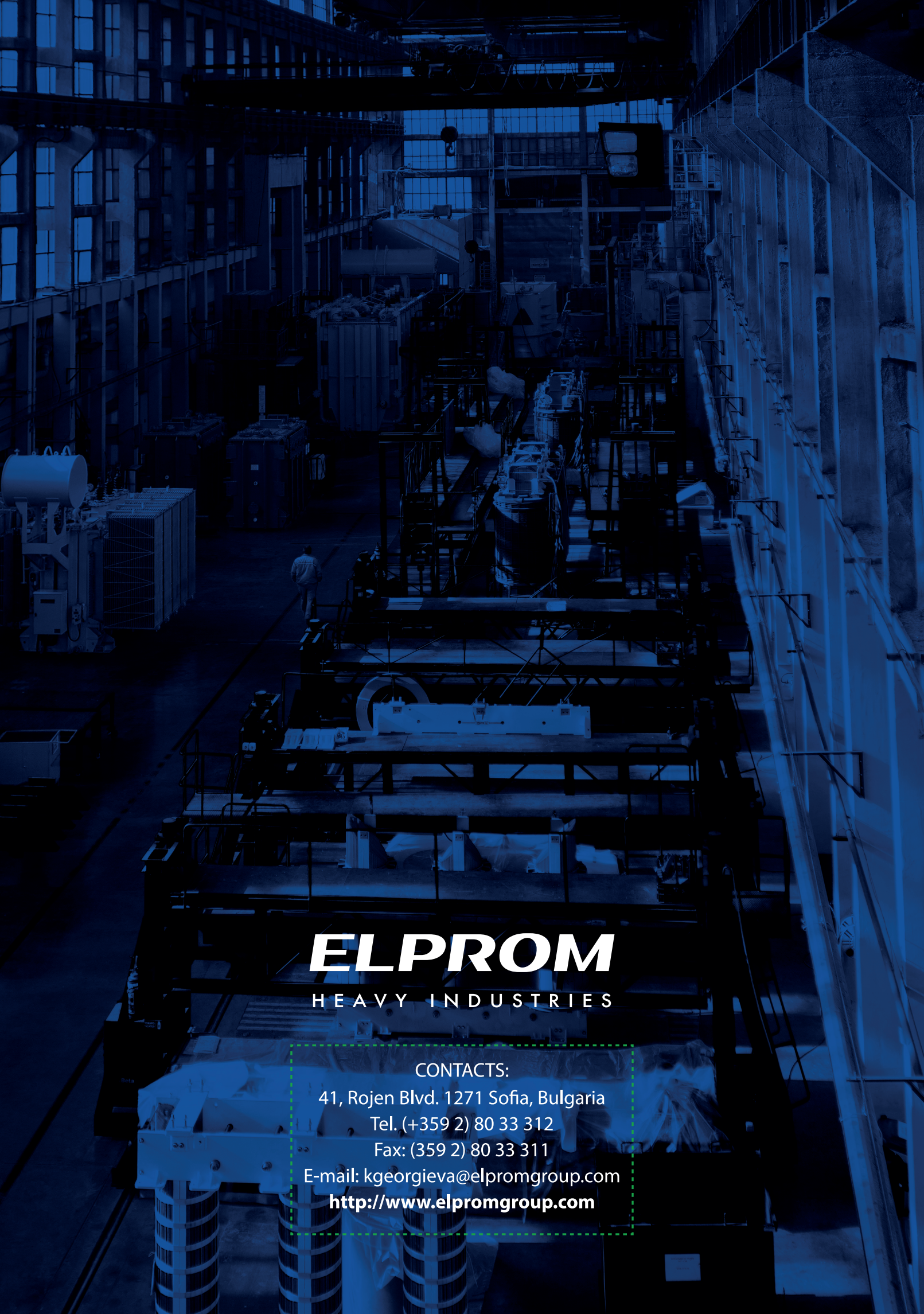


Type Tests Certificates

KEMA

ZKU





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