# ELETTROMECCANICA PIOSSASCO



TRASFORWATORI

### 50) YEARS (0) E EXPERIENCE

#### STRENGTH

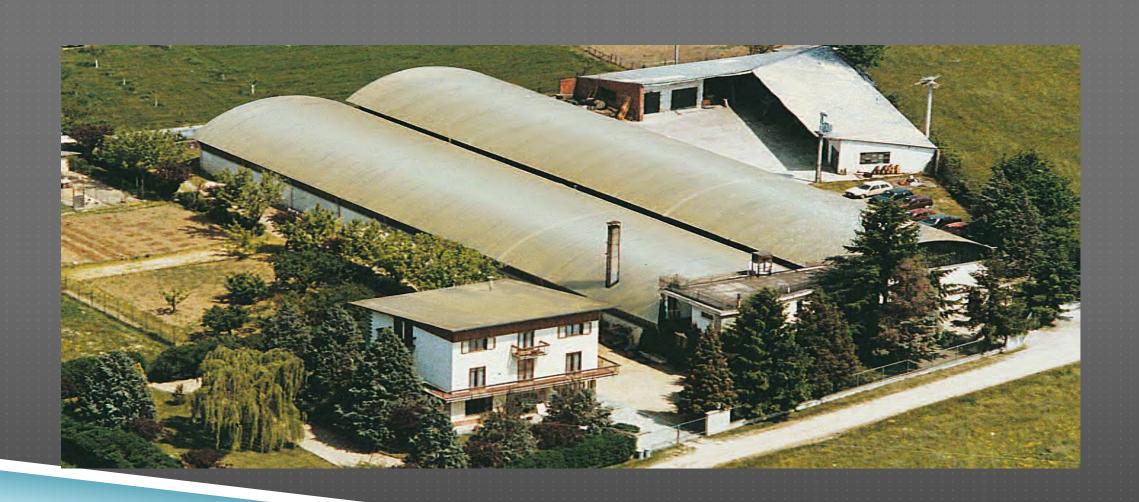
- **✓** TRADITION
- ✓ MADE IN ITALY
- ✓ TRACEABILITY OF
- **SUPPLIERS**
- **✓** CUSTOMIZED
- **✓** AWARNESS

#### **OPPORTUNITIES**

- **✓** ACQUIRE NEW CUSTOMERS
- ✓ IMPROVING OF OUR
- **SERVICES**
- ✓ EXPANSION IN NEW
  COUNTRIES

Elettromeccanica Piossasco was established in 1950 by Mr. Giacinto and his son Eng. Alessandro.

At the beginning the production included every electrical machine, power generator sets also. In 1962 the factory specialized its production in distribution transformers only.



### OUR PRODUCTS

#### OIL TRANSFORMERS



#### CUSTOMIZED PROJECTS









#### CAST RESIN TRANSFORMERS



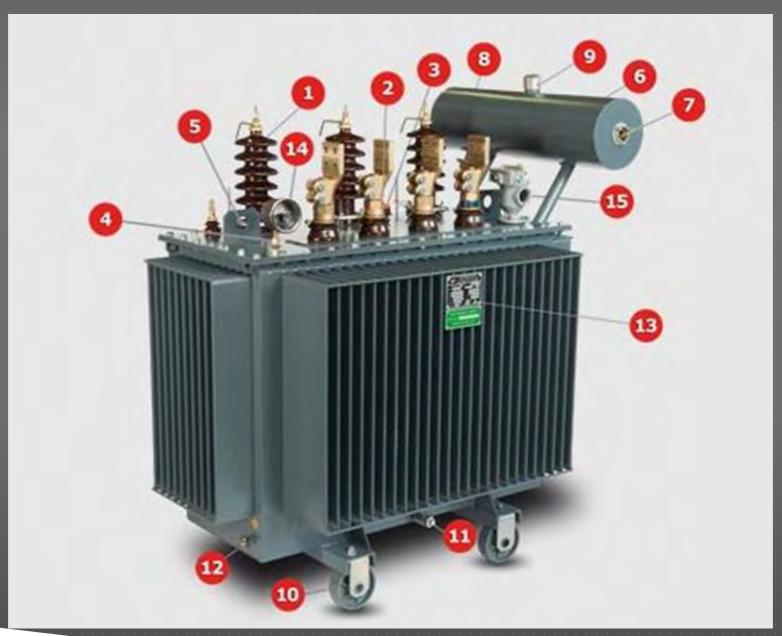
#### **CUSTOMIZED PROJECTS**





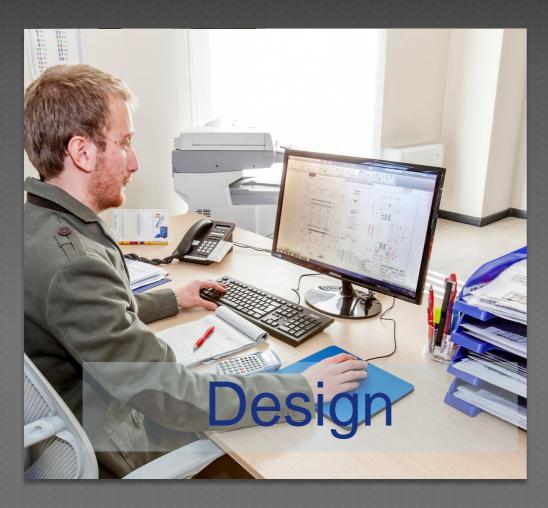


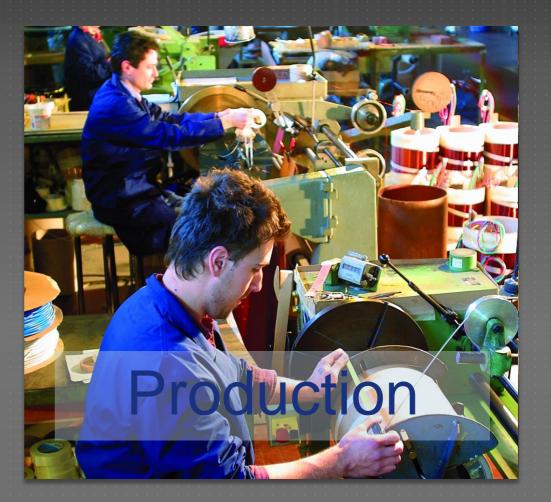
## OIL TRANSFORMERS INTRODUCTION



- 1. HV Brown porcelain bushings
- 2. Brown porcelain bushings for LV and neutral
- 3. HV off- load tap- changer
- 4. Thermometer pocket
- 5. Lifting lugs
- 6. Oil conservator (from kVA 630 to kVA 3.000)
- 7. Oil level (for transformer with oil conservator)
- 8. Silicagel breather with salts (for transformers with oil conservator)
- 9. Bursting valve, type: realief valve for transformer with oil conservator —over pressure valve for hermetical transformers
- 10. Wheels
- 11. Drain valve
- 12. Earthing terminal
- 13. Name plate
- 14. Thermometer with two contacts normally open (NO), from (kVA 630 included in the price).

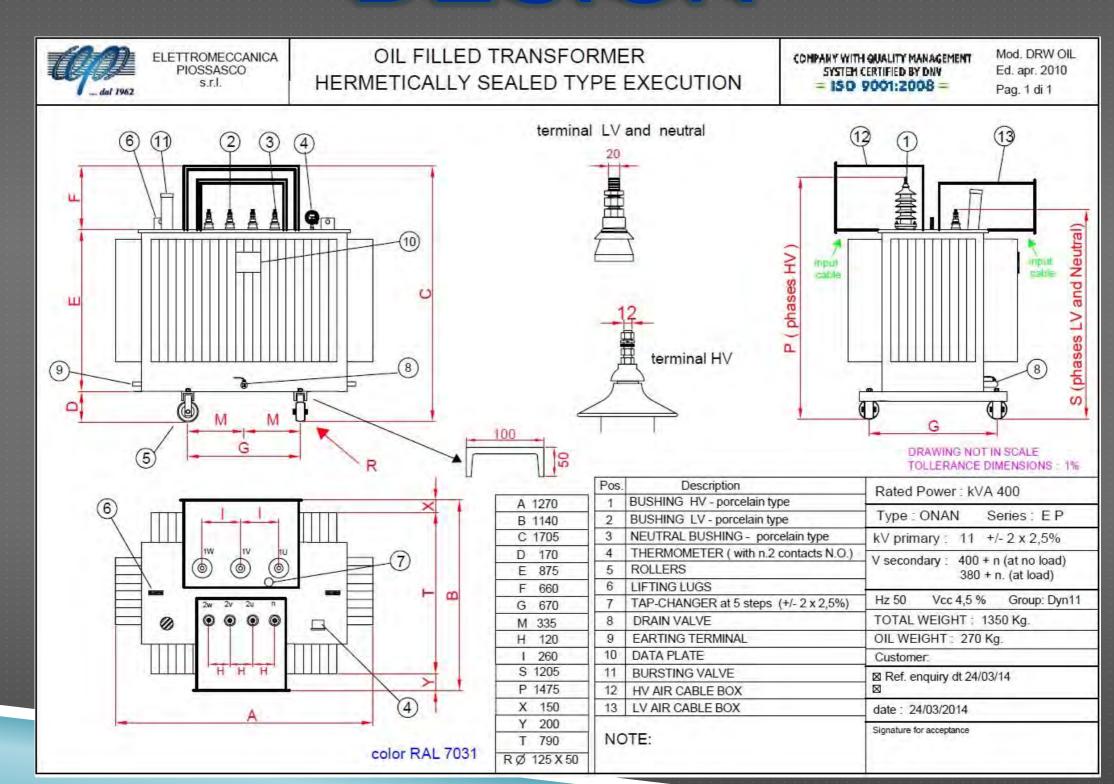
- 15. Buchholz Relay for transformer with oil conservator (from kVA 630 included in the price)
- 16. DGPT2 relief device for hermetical transformers
- -Double HV voltages
- -Losses and voltages different from standards
- -Connections and vectorial groups different than indicated
- -Frequency HZ 60
- -HV plug-in bushings type Elastimold
- -Air cable box for HV and/or LV bushings
- -Skids for pole mounted
- -Centralized box for auxiliary circuits
- -Siliconic fluid
- Sheet screen between HV and LV windings with earthing terminal

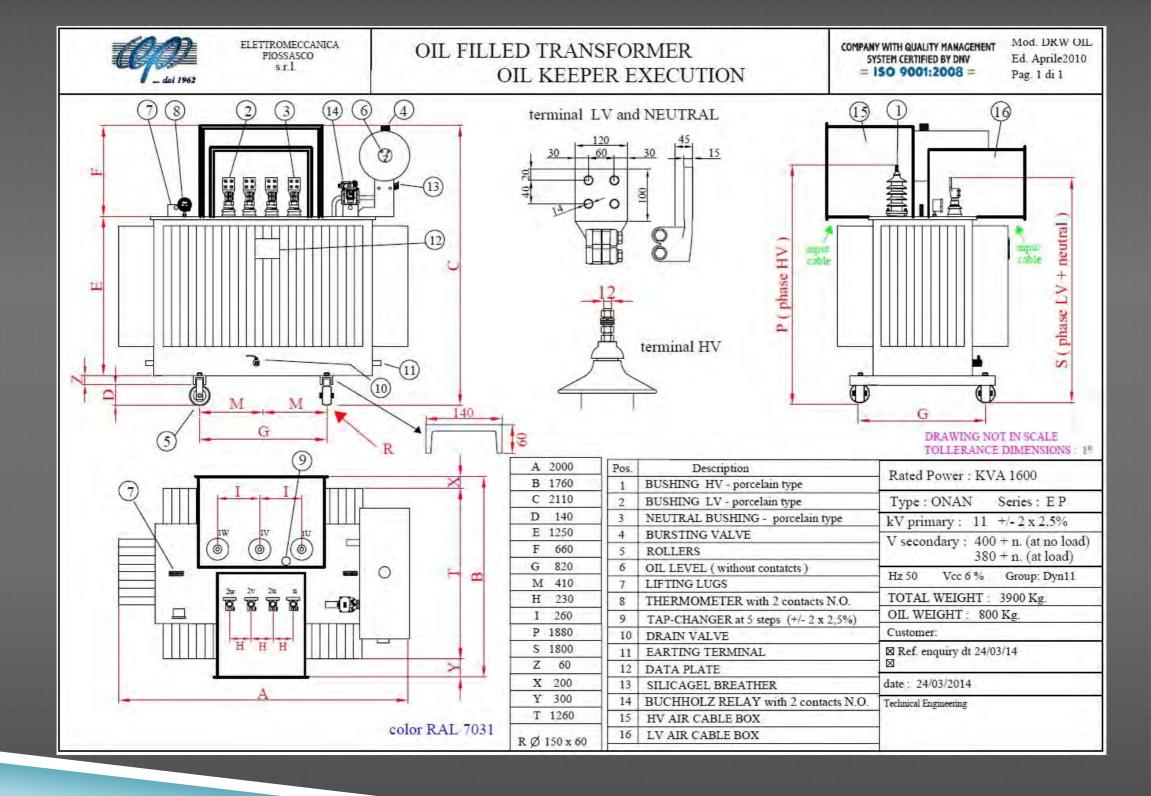






#### DESIGN





#### PRODUCTION

- 1. <u>WINDINGS</u>: All our windings are mainly copper made. For HV windings we use enamelled copper wire or Kraft insulated
- 2. <u>CORE</u>: Core is made with top quality «grain oriented» magnetic steel
- 3. TANKS : Tanks are made with cold rolled steel and are reinforced in order to reach an higher strenght
- 4. <u>TAP-CHANGER</u>: HV tap-changer is linear type and must be handled only when the transformer is disconnected from network
- 5. <u>BUSHINGS</u>: Normally are used brown porcelain outdoor bushings for HV, LV and neutral standardized type.

#### TESTS AND TRIAL

All our transformers, before being marketed, are tested in compliance with CEI EN 60076-1/12 standards with the following routine tests:

- 1. Voltage ratio measurement
- 2. Polarity and connection group tests
- 3. Insulation test with applied voltage
- 4. Insulation test with induced voltage
- 5. Losses and no load current measurement
- 6. Winding resistance at ambient temperature measurement
- 7. Measurement of losses and short circuit voltage at required reference temperature

It is also possible, under customers' request (with an extra cost ) to run or repeat both routine tests and type tests, in addition to special tests, at accredited external laboratory (as, for example CESI- Milan Italy)