



M.S. RESISTANCES

THE HIGH VOLTAGE RESISTORS BUILDER  
GLOBAL QUALITY FROM TENDERING TO COMMISSIONING

#### ACTIVITIES

Design, development, manufacture, test & Servicing of High Voltage Resistors

##### Resistors for Transmission & Distribution

- ⇒ Neutral Grounding Resistors up to 150 kV & 3000A
- ⇒ AC & DC Harmonic Filter Resistors for filtering, Static VAR compensation (SVC S/S)
- ⇒ AC & DC Harmonic Filter Resistors for High Voltage Direct Current (HVDC Plant)
- ⇒ High & Medium Voltage Load Bank up to 320 MW
- ⇒ Starting or braking resistors for asynchronous motors
- ⇒ High Voltage, single or triphase disconnecting switches up to 500 kV, 5000A & 140 kA/3 sec.

#### HISTORY

- 1999: Established in Dijon / France
- 2001: Headquarter transferred to Saint Chamond / France
- 2001: Factory in Saint Chamond
- 2001: Designing, manufacturing & type testing of IP55 NGR (World performance record)
- 2006: Extension of Saint Chamond Factory
- 2007: Certification ISO9001
- 2010: Renewal of certification ISO9001
- 2010: Designing, manufacturing & type testing of 100kV, 140kA/3sec offload air blast single pole disconnecting switch (motorized)

#### DESIGNING FACILITIES

M. S. Resistances uses the latest software for electrical & mechanical calculations.

We have developed a Computer Aided Resistor Design Software (CARD) using mechanical, electrical, mathematic basic formulas & experimental data based on tests made in our laboratories.

#### TESTING FACILITIES & LABORATORIES

- Power tests up to 400 kW
- Power frequency tests:
  - up to 150kV 1 minute at 50 or 60Hz
- Lightning impulse tests: up to 550 kV

... Type Tests Reports (in independent laboratories) are available for 3.3, 11, 13.8, 20, 22, 33, 66 & 72kV Resistors

... Basic Insulation Level Test reports available for 125, 170, 200, 250 & 325kV<sub>peak</sub>

## COMPANY PROFILE





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## COUNTRIES' REFERENCES

Our Resistors are installed in:

France, Singapore, Malaysia, Indonesia, UAE, Saudi Arabia, Thailand, Egypt, USA, Chile, Argentina, Brazil, Australia, China, Vietnam, Laos, India, Sri Lanka, Iraq, Iran, Germany, New-Zealand, Japan, Korea, Sweden, Norway, Peru, Alaska, Sakhalin Island, Switzerland, Finland, Italy, Jordan, Lebanon, Turkey, Philippine, Russia, Austria, Canada, Spain, Ireland, Morocco, Pakistan, Netherlands, Romania, United Kingdom, Taiwan, Cayman Islands, Slovenia, Macedonia, Poland, Qatar, Croatia, Senegal, Benin, Oman...

## CUSTOMERS' REFERENCES

ABB, Alstom, Areva, Chiyoda, ConverTeam, Fuji, Meidensha, Mitsubishi, VaTech, Siemens, Nissin, TOSHIBA

## AGENCIES / PARTNERSHIP

- ⇒ Malaysia
- ⇒ Indonesia
- ⇒ Japan
- ⇒ South Korea
- ⇒ United Arab Emirates : Abu Dhabi
- ⇒ Russia
- ⇒ Turkey
- ⇒ Thailand
- ⇒ Egypt
- ⇒ Chile
- ⇒ Argentina
- ⇒ Algeria
- ⇒ Irak & Jordan

Please send us your request to transmit to the concerned agency:

Tel : +33 4 77 29 39 80

E-mail : sales@msresistances.com

Certified ISO 9001 M.S. Resistances is a company of Microelettrica Scientifica and Knorr Bremse Group.



Since 1952, we design and manufacture high voltage equipments, such as :

- ◆ Neutral Earthing Resistors (NER)
- ◆ Neutral Earthing Switchgear (NES)
- ◆ Harmonic Filter Resistors
- ◆ High voltage Load banks
- ◆ Medium Voltage Contactors
- ◆ Starting and Braking Resistors
- ◆ Accessories



Load Bank

Global Quality & High Technical Performance are the keys of our policy to gain & maintain the confidence of our customer & partners.



100 kV, 4000 A continuous, 140 kA/3 sec. Offload Air blast single pole disconnecting switch (motorized)

M.S. RESISTANCES S.A.S.

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