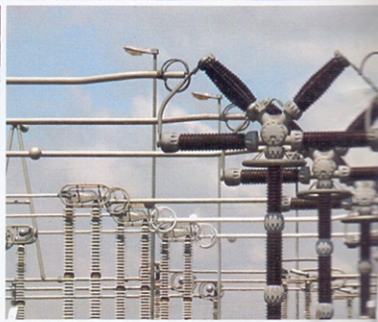
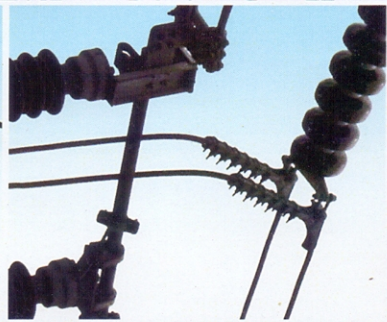


SEC ENGINEERS (P) LTD





Mr. R. M. Raju.
Founder & Managing Director,
SEC Engineers (P) Ltd

SHREE ENGINEERING CORPORATION is a proprietary concern started by a technocrat in the year 1979, after having serviced in public limited company for 10 years. Quality and consistency of prompt delivery are the principles behind the success of Shree Engineering Corporation. From a humble beginning as a small manufacturing unit, Shree Engineering Corporation has today emerged as a solution provider in the field of electricity and power transmission.

As an outcome of our endeavor to serve our customers better, **SEC Engineers (P) Ltd** was formed in 1987. SEC Engineers (P) Ltd is an ISO 9001 : 2000 certified unit located in Kakkalur, Chennai the industrial hub of India. Strategic location, state-of-the-art manufacturing facility and highly skilled and dedicated manpower have been the key to the success of SEC.

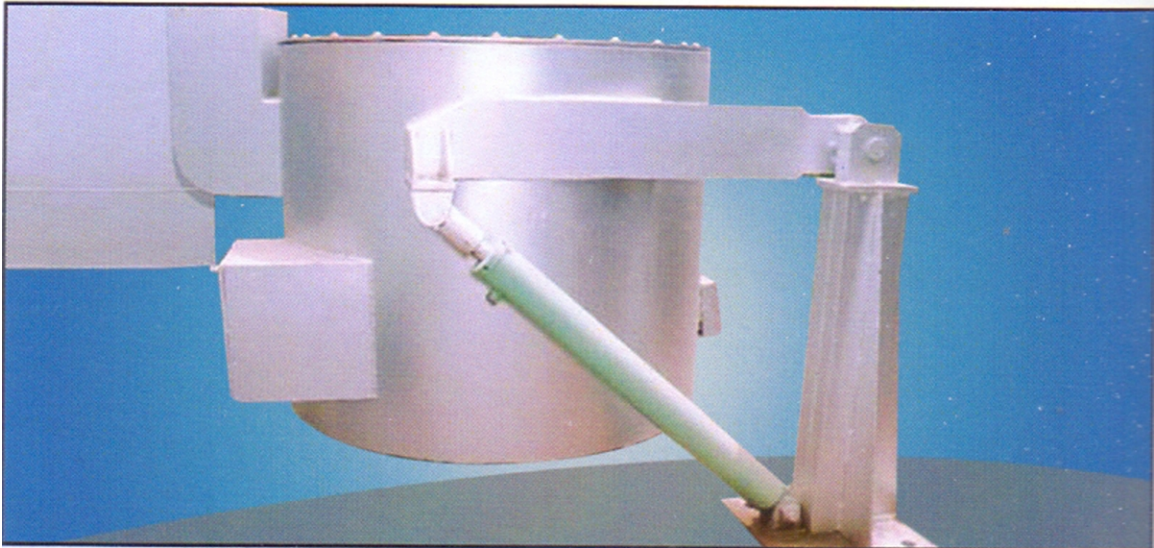
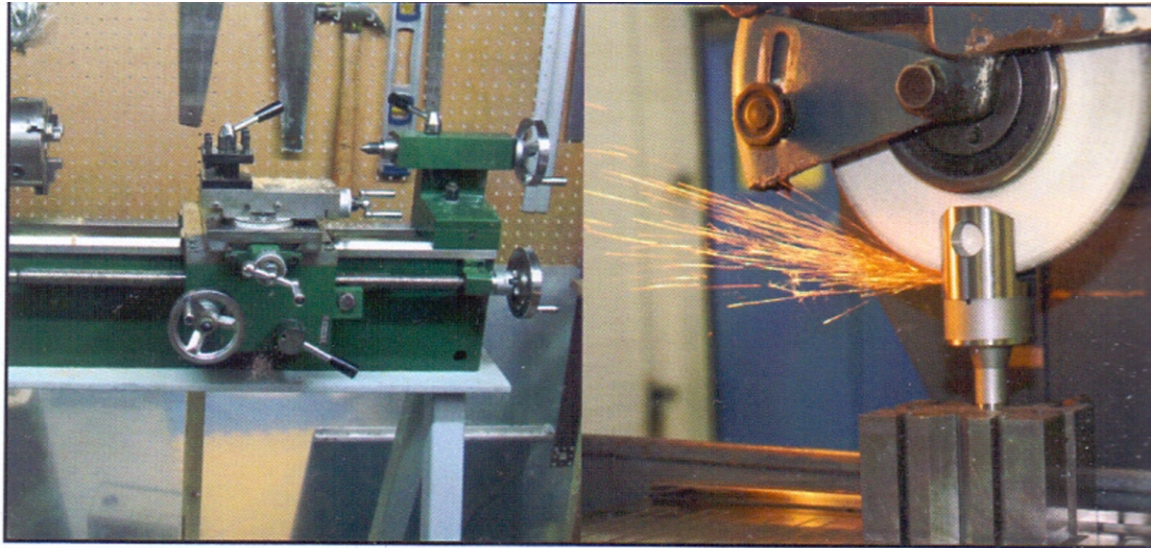
The company has infrastructural facility capable of designing, manufacturing and type testing High Voltage Power Connectors upto 500 KV, Transmission Line Hardware Fittings upto 230 KV, Distribution Line Hardware, Transmission Line Hardware's, Transmission Conductor Accessories, Insulator Hardware Fittings to relevant standards.

The company has an innovative Design & Development team, which constantly thrives to improve the quality of products we manufacture, and also create new design in our field.

The onus of SEC is QUALITY. Every product we manufacture undergoes strict quality control measures and constant testing in all stages of production, to ensure that the products we deliver satisfy our clients requirement. Our products are tested to relevant standards ISS/BSS at CPRI/ Regional Testing Centre in India.

Our products are in service with a number of State Electricity Boards and power utilities in India. The Indian Railways have approved our products for use with their OHE and Traction Sub Stations.

Technology
Connecting Tomorrow



DESIGN & DEVELOPMENT

SEC has an innovative design and development team, which constantly strives to improve the quality of products we manufacture, and also create new designs. The Power Connectors are made of Aluminium Alloy LM6 (BS1490) and of Aluminium Bronze AB1 to BS 1400 (in case of Copper Busbars). In case of Aluminium Copper joints, Bimetallic Strips of Aluminium-Copper are used to prevent Galvanic Corrosion. Fasteners used are of Stainless Steel / HD Galvanised M.S as per standard / customer requirements.

For Transmission Line Insulator Hardwares and Line Accessories Forged fittings of compression type High Tensile galvanised components are used to take care of Tensile Loads and other parameters of location where they are likely to be installed. Constant improvements are envisaged based on the trend in this field and choice of power utilities.

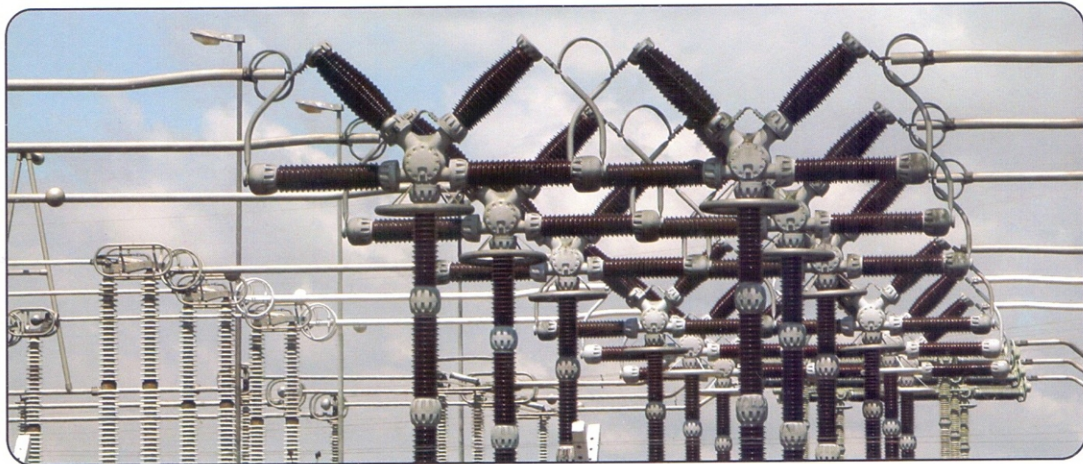
STANDARDS FOLLOWED FOR POWER CONNECTORS

British Standards BS:159

Indian Standards IS:5561

NEMA Standards

Any other standard required by the customer.



Power Substation

SEC CONNECTORS TYPE TESTED AT

Regional Testing Centre Chennai ,Govt. of India

Central Power Research Institute (CPRI), Bangalore and Bhopal, India.

College of Engineering, Anna University, Chennai, India.

TESTS FOR CONNECTORS

- Short Time Current upto 50.0 KA for 3 secs to I.S.5561:1970
- Temperature rise upto 4000A to I.S 5561: 1970 and NEMA CC-1
- Corona & RIV upto 500 KV system to BS 6581 and IEC 60437, IEC 168
- Mechanical Pullout upto 1000 Kgs to NEMA CC-1

We carry out Temperature Rise and Mechanical Pullout Tests as Routine Tests in our in-house laboratory.

HARDWARE FITTINGS

1. 230 KV and 130 KV Single/Double Suspension Fittings for various ACSR Conductors free Centre Type with/without Preformed Armour Rods.
2. 230 KV and 130 KV Single/Double Tension Fittings for various ACSR Conductors with Compression Type Dead End Assembly.
3. Single Tension Fittings for Earthwire of various sizes.
4. Single Suspension Fittings for Earthwire of various sizes.
5. 230 KV 6-Bolted Type Single Tension Fittings suitable for various ACSR Conductors.
6. 230/110 KV 3-Bolted/4-Bolted Type Single Tension Fittings suitable for various ACSR Conductor.
7. Aluminum Earth Bonds with Aluminum and copper flexibles

Transmission Line Conductor Accessories

1. Stock Bridge Vibration Dampers for various sizes of ACSR Conductors
2. Mid Span Compression Joint for various sizes of ACSR Conductors
3. Repair Sleeves for various sizes of ACSR Conductors
4. Pre-formed Armour Rod for various sizes of ACSR conductors Mid Span Compression Joints for Zebra/Panther/Kundah and Dog Conductors

STANDARDS FOR HARDWARE FITTINGS

Repair sleeves for ACSR Conductors : IS.2121 (PART - II) -1981.

Vibration Damper : IS.2121 (PART - II)

Suspension Fitting for ASCR conductor : IS.9708/1993.

Tension Fitting for ASCR conductor : IS.2468 (PART - 1) & IS 2633

Any other standard required by the customer.

Future enhancements and product under development:

‡ **765 KV power connectors.**

‡ **Insulator Hardware and Line Accessories upto 550 KV.**

TESTING & QUALITY CONTROL

QUALITY ASSURANCE PLAN (QAP) is prepared and followed to ensure consistent quality of Aluminium Alloy fittings/components used for E.H.V. Connections. QAP covers the establishment, documentation and maintenance of an effective quality system in the process of procurement. Testing equipments are calibrated periodically to ensure accuracy.

TESTING EQUIPMENTS

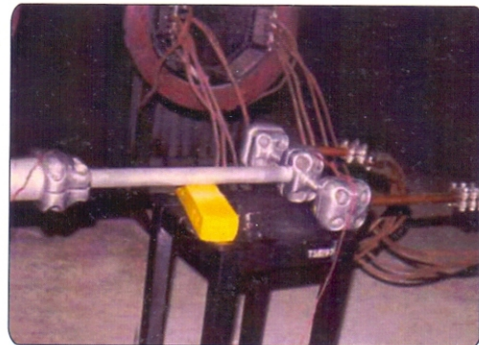
Universal Testing Machine

Resistance Test Meter

Temperature Rise test setup



Resistance Test Meter

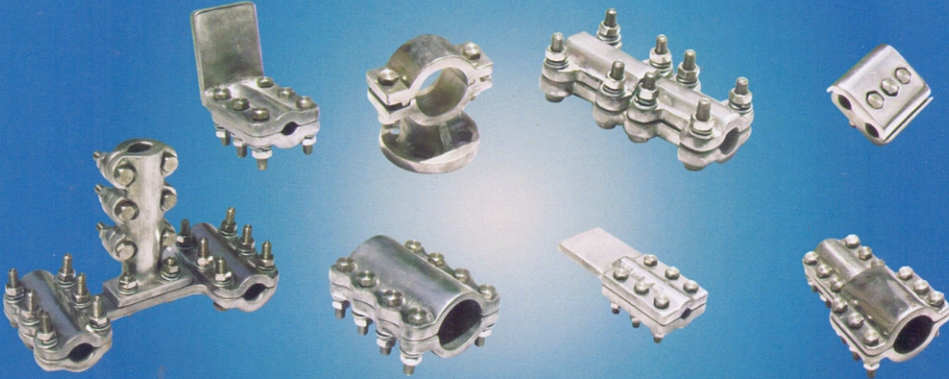


Temperature Rise Test Setup

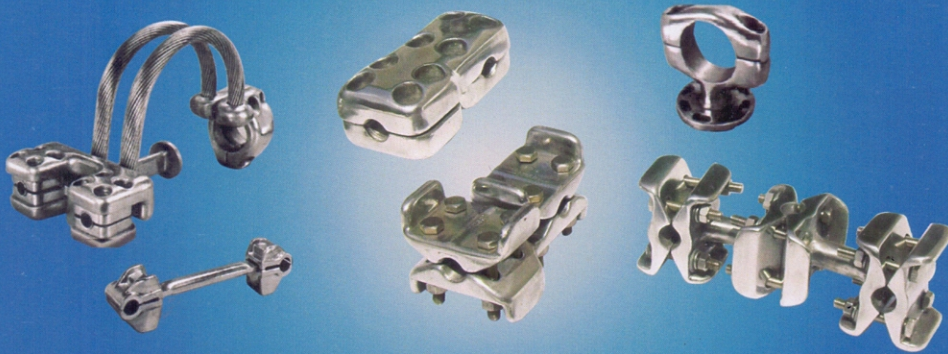


PRODUCTS Connectors

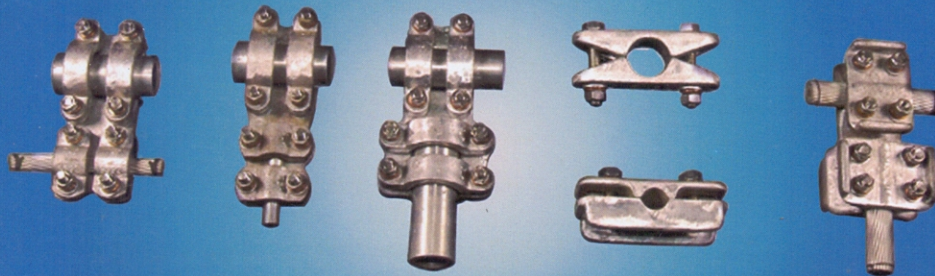
Power Connectors upto 220 k.v



Power Connectors for 220 k.v & above (Corona Free Connectors)

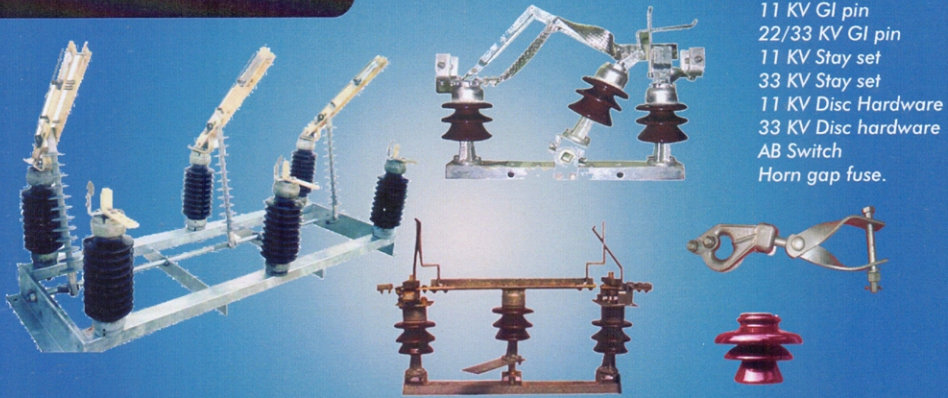


Railway OHE Traction Substation Connectors

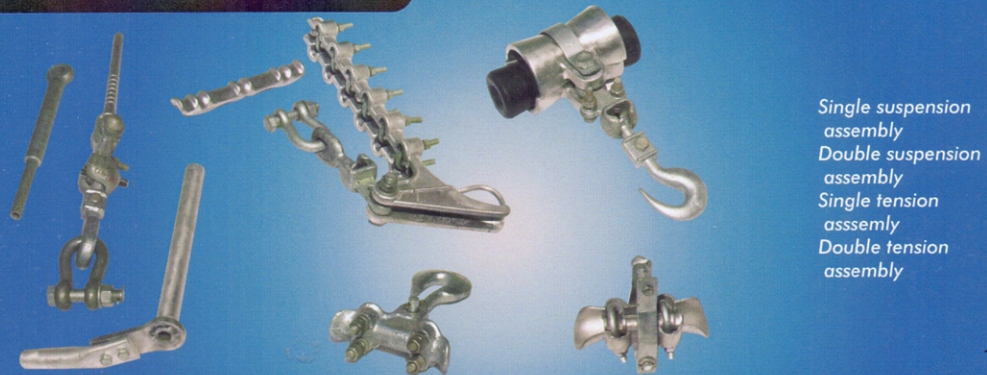


PRODUCTS Hardware products

Distribution Line Hardware



Transmission Line Hardware



Insulator Hardware Fittings





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18th main road, Annanagar west,
Chennai, Tamilnadu - 600 040,
India.

Factory:
54, Sidco Industrial Estate,
Kakkalur, Thiruvalluvar district,
Tamilnadu - 602 003,
India.

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