



RASHTRIYA
ELECTRICAL & ENGG. CORPN
Continuous improvement, customer satisfaction

Since
1969

ENGINEERED FOR

POWER

HIGH VOLTAGE

Transmission &
Distribution



PRODUCT

CATALOGUE



ISO
CERTIFIED



EXPERIENCE THE EXCELLENCE



CPRI
TESTED



RASHTRIYA ELECTRICAL

Since
1969

COMPANY

PROFILE

Manufacturing insulators, isolators, switchgear, high-voltage fuses, surge arresters and line hardware for electrical transmission & distribution.



About Us

Established in 1969, Rashtriya Electrical & Engg. Corporation manufactures and supplies electrical and engineering products for transmission and distribution networks. Our range serves utilities, substations, industrial facilities and infrastructure projects in India and international markets.

Our Tronica City manufacturing unit was established in 2000 with approximately 50,000 sq. ft. of covered area. The facility expanded into polymer insulator production in 2007. Engineering experience, specialised equipment and a skilled workforce support consistent manufacturing.

Our portfolio spans polymer and porcelain insulators, GOAB switch assemblies, isolators, high-voltage fuses, lightning and surge arresters, FRP products, earthing accessories, disc fittings and overhead line hardware. We also support customised technical requirements.

1969

Year Established

50,000

Sq. Ft. Covered Area

7

Major Product Sections

Continuous Improvement, Customer Satisfaction



RASHTRIYA
ELECTRICAL & ENGG. CORPN

Continuous Improvement, Customer Satisfaction

OUR PURPOSE

Mission & Vision

Mission

Dependable products.
Practical engineering.

To manufacture reliable insulators, isolation and protection equipment, FRP products and line hardware for transmission and distribution networks. Through consistent quality control, application-focused engineering and responsive support, we aim to meet the technical needs of utilities, EPC partners and industrial customers. Continuous improvement guides our commitment to dependable performance, timely supply and lasting customer value.

Vision

A stronger grid.
A lasting partnership.

To be a trusted Indian manufacturing partner for the evolving needs of electrical infrastructure. We aspire to advance polymer insulation technology, strengthen our engineering capabilities and build enduring customer relationships. Through innovation and responsible growth, we seek to support resilient transmission and distribution networks in India and international markets, with quality and customer satisfaction at the heart of our progress.



ENGINEERING RELIABILITY FOR THE GRID

Product Content

A guide to our electrical product range



PRODUCT SECTION	LENGTH	PAGES
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Polymer Insulator

Disc, Pin & Post Insulators



RASHTRIYA
ELECTRICAL & ENGG. CORPN

OUR POLYMER INSULATOR FAMILY

Disc Insulator



DISC

Pin Insulator



PIN

Post Insulator



POST

Polymer Insulator

Engineered fittings.
Dependable insulation.



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Polymer Disc Insulator

11 kV / 33 kV

11 kV Polymer Disc Insulator

B&S (Ball & Socket) Fitting Type



Mechanical strength: 45, 70, 90 kN

Creepage distance: 25 mm/kV or 31 mm/kV

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Colour: Grey / Dark Grey

11 kV Polymer Disc Insulator

T&C (Tongue & Clevis) Fitting Type



Mechanical strength: 45, 70, 90 kN

Creepage distance: 25 mm/kV or 31 mm/kV

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Colour: Grey / Dark Grey

33 kV Polymer Disc Insulator

B&S (Ball & Socket) Fitting Type



Mechanical strength: 45, 70, 90, 120 kN

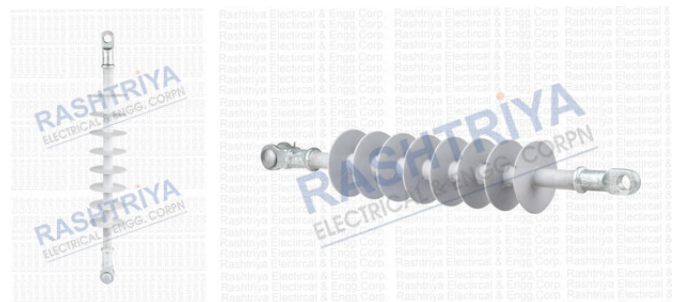
Creepage distance: 25 mm/kV or 31 mm/kV

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Colour: Grey / Dark Grey

33 kV Polymer Disc Insulator

T&C (Tongue & Clevis) Fitting Type



Mechanical strength: 45, 70, 90, 120 kN

Creepage distance: 25 mm/kV or 31 mm/kV

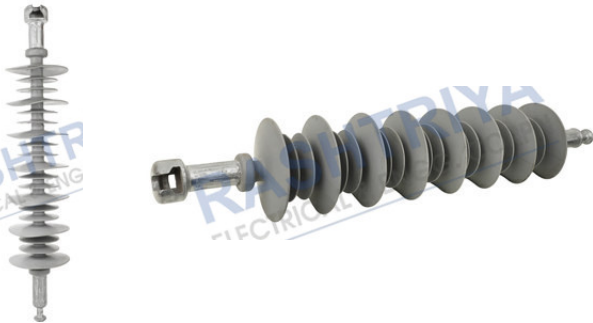
Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Colour: Grey / Dark Grey

Polymer Long Insulators

66 kV Polymer Disc Insulator

B&S (Ball & Socket) Fitting Type



Suspension / Tension

Mechanical strength: 70, 90, 120, 160 kN
Creepage distance: 25 mm/kV or 31 mm/kV
Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.
Colour: Grey / Dark Grey

132 kV Polymer Disc Insulator

B&S (Ball & Socket) Fitting Type



Suspension / Tension

Mechanical strength: 70, 90, 120, 160 kN
Creepage distance: 25 mm/kV or 31 mm/kV
Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.
Colour: Grey / Dark Grey

200-220 kV Polymer Disc Insulator

B&S (Ball & Socket) Fitting Type

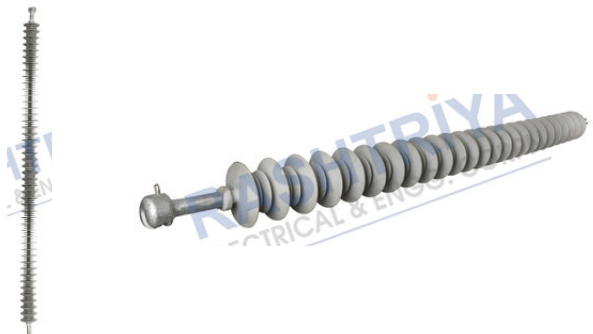


Suspension / Tension

Mechanical strength: 70, 90, 120, 160 kN
Creepage distance: 25 mm/kV or 31 mm/kV
Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.
Colour: Grey / Dark Grey

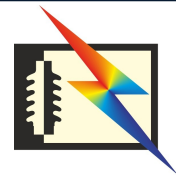
400-440 kV Polymer Disc Insulator

B&S (Ball & Socket) Fitting Type



Suspension / Tension

Mechanical strength: 70, 90, 120, 160 kN
Creepage distance: 25 mm/kV or 31 mm/kV
Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.
Colour: Grey / Dark Grey



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Polymer Post Insulators

NAMES, PURPOSE & APPLICATIONS

Common names vary across markets: composite or silicone-rubber posts. Station posts support equipment in substations and outdoor switchyards. Bus posts carry rigid busbars above earthed steelwork and foundations.

Line posts support overhead conductors; their fittings differ from station posts. Post designs serve isolators, switches and busbar-support assemblies. FRP cores carry load; silicone sheds provide insulation and surface creepage.

11-12 kV Polymer Post Insulator

5-10 kN

Cantilever strength



33 kV Polymer Post Insulator

6-10 kN

Cantilever strength



COMMON SPECIFICATIONS / BOTH PRODUCTS

Creepage distance: 25 mm/kV or 31 mm/kV

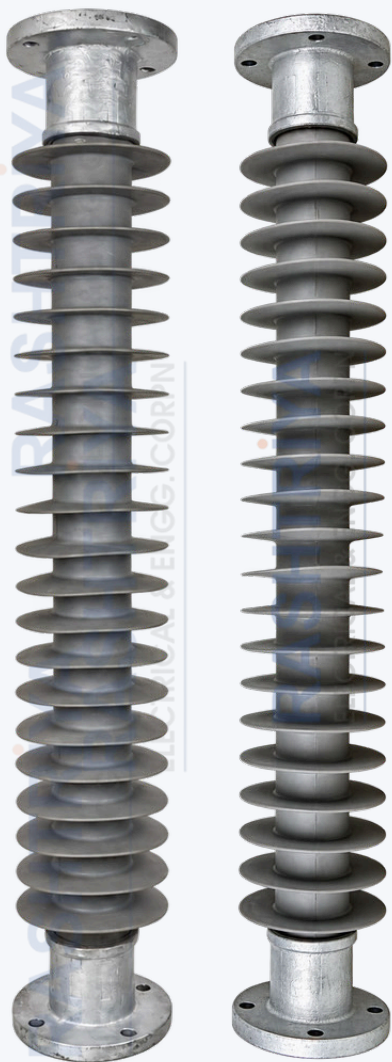
Colour: Grey / Dark Grey

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Polymer Post Insulators

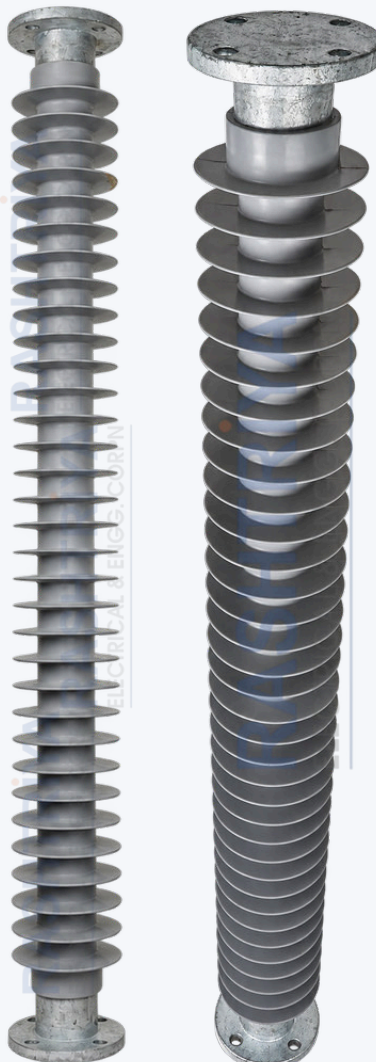
66-72 kV

Polymer Post Insulator



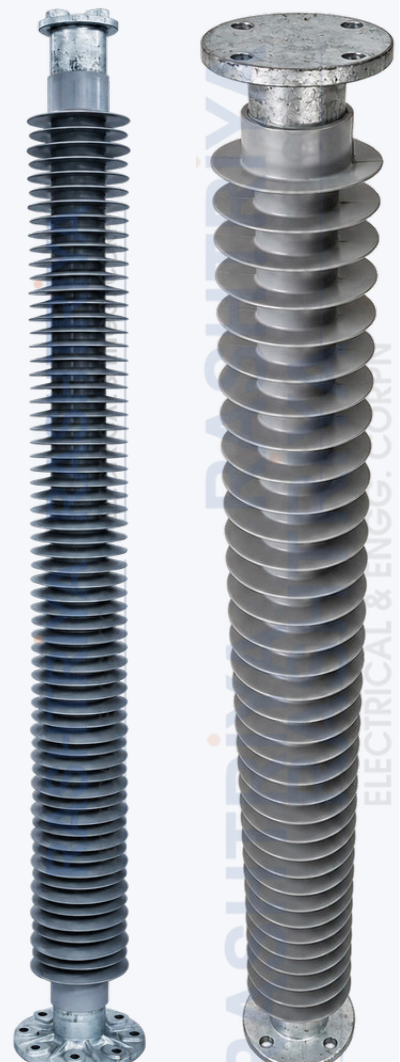
132-145 kV

Polymer Post Insulator



220-245 kV

Polymer Post Insulator



SPECIFICATIONS | ALL THREE PRODUCTS

Cantilever strength

6-10 kN

Creepage distance

25 mm/kV or 31 mm/kV

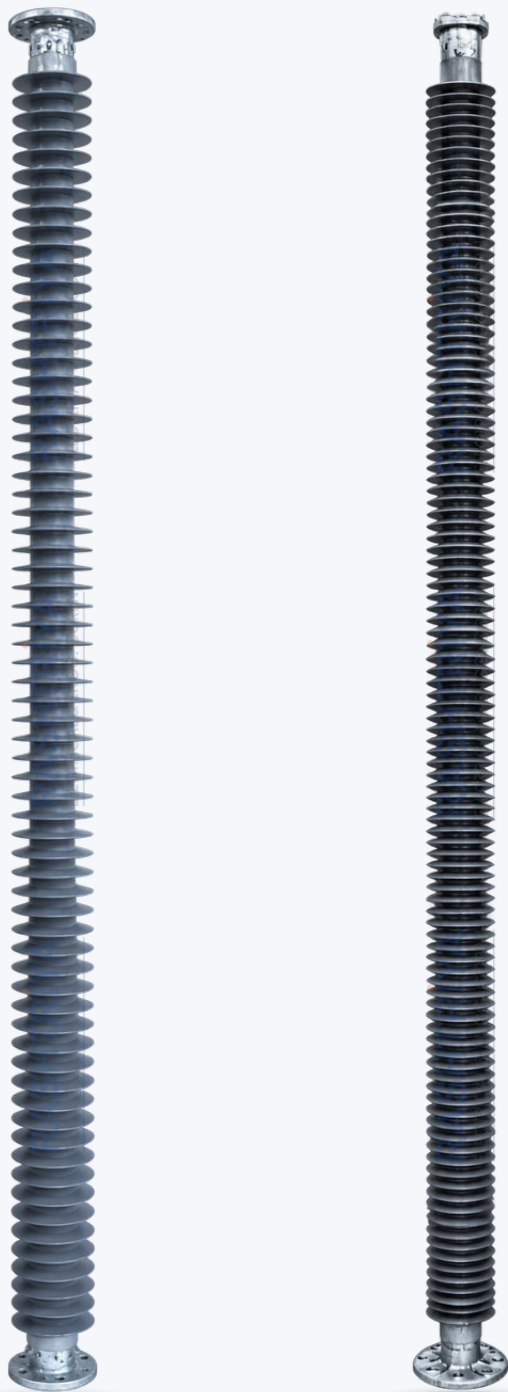
Colour

Grey / Dark Grey

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Polymer Post Insulators

400-440 kV Polymer Post Insulator



Cantilever strength

4 kN / 6 kN

Creepage distance

25 mm/kV
or 31 mm/kV

Material

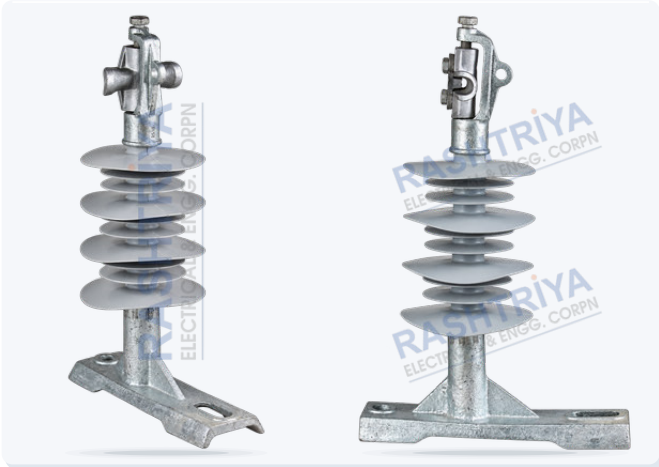
- Composite polymer/silicone rubber +
- FRP rod +
- SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Colour

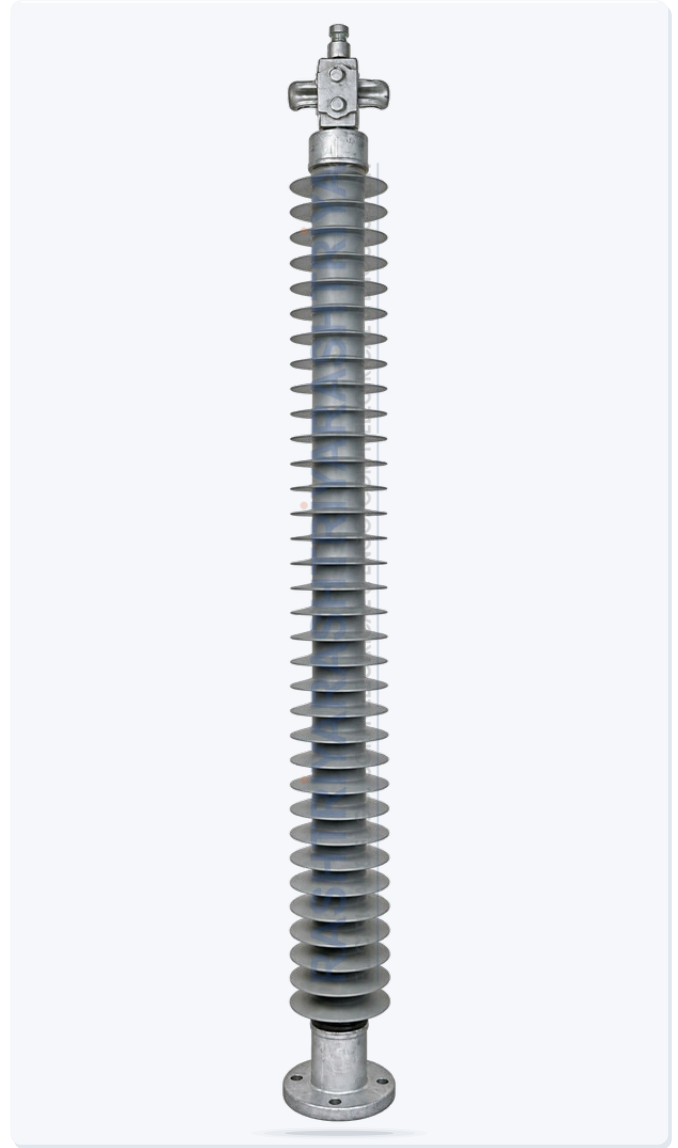
Grey / Dark Grey

Polymer Line Post Insulators

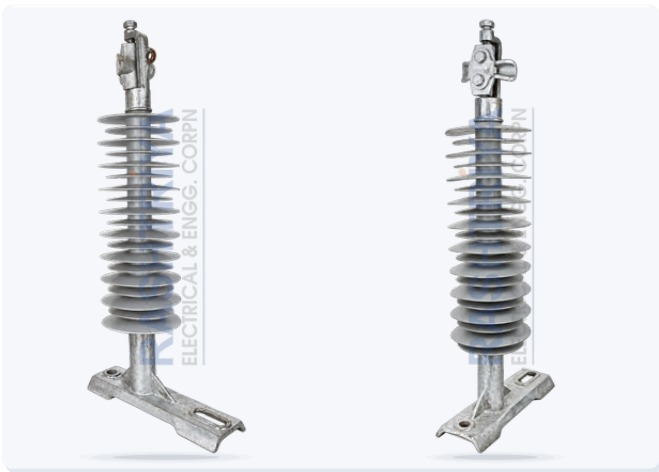
33 kV Line Post Insulator



132 kV Line Post Insulator



66 kV Line Post Insulator



SPECIFICATIONS | ALL THREE MODELS

Cantilever strength

6 / 8 / 10 kN

Creepage distance

25 mm/kV or 31 mm/kV

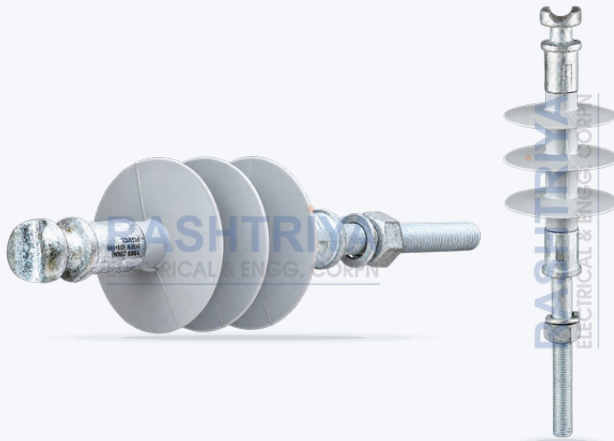
Colour

Grey / Dark Grey

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

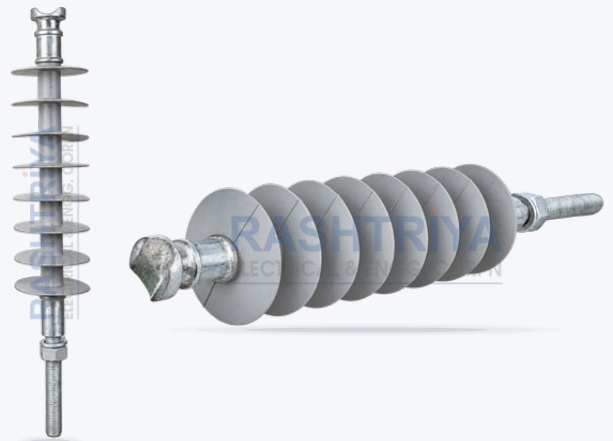
Polymer Pin Insulator

11 kV Pin Insulator



Cantilever strength: 5 kN

22 kV Pin Insulator



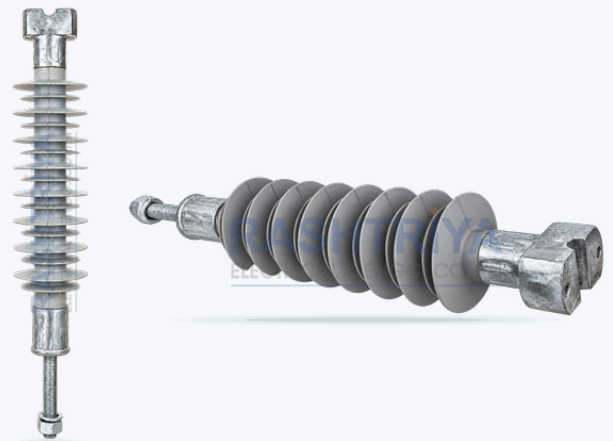
Cantilever strength: 5 kN

33 kV Pin Insulator



Cantilever strength: 10 kN

44 kV Pin Insulator



Cantilever strength: 10 kN

COMMON SPECIFICATIONS | ALL FOUR MODELS

Creepage distance: 25 mm/kV or 31 mm/kV

Colour: Grey / Dark Grey

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Polymer Disc Insulator

Additional end fittings and voltage options

T&T End Fitting Type



VOLTAGE OPTIONS

11 / 33 / 66 kV
& higher, as required

MECHANICAL
STRENGTH

As per requirement

T&H End Fitting Type



VOLTAGE OPTIONS

11 / 33 / 66 kV
& higher, as required

MECHANICAL
STRENGTH

As per requirement

15 kV Polymer Disc Insulator



22 kV Polymer Disc Insulator



MATERIAL | ALL FOUR PRODUCTS

Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

GOAB Switches



Gang-Operated Air Break Switches | 11 kV Polymer Range

ABOUT AB / GOAB SWITCHES

AB switches provide a visible point of isolation. GOAB means Gang-Operated Air Break switch. One mechanism operates all three phases together. Opening the contacts creates an air gap. Common applications include overhead feeders, line tapping points and outdoor substations.

They isolate line sections and connected equipment. Insulators support and separate live parts. Linkages coordinate contact opening and closing. Mounting depends on the installation arrangement. Select voltage, current and switching duty together. Load interruption requires a suitable rated design.

11 kV Polymer GOAB Switch 6 Insulators



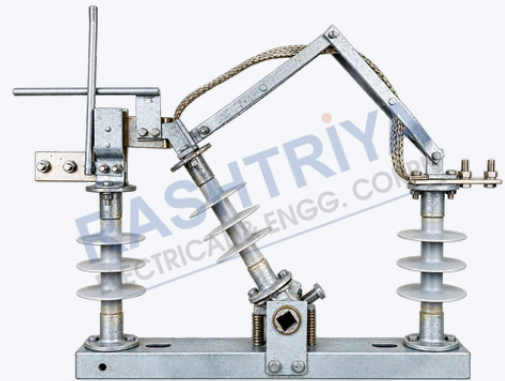
CURRENT OPTIONS | AS PER REQUIREMENT

400 A

630 A

800 A

11 kV Polymer GOAB Switch 9 Insulators



CURRENT OPTIONS | AS PER REQUIREMENT

400 A

630 A

800 A

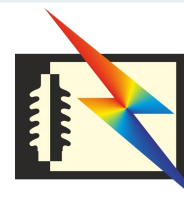
MATERIAL | BOTH MODELS

Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Insulator counts refer to each 3-phase set

GOAB Switches

22 kV & 33 kV Polymer Range | Continued

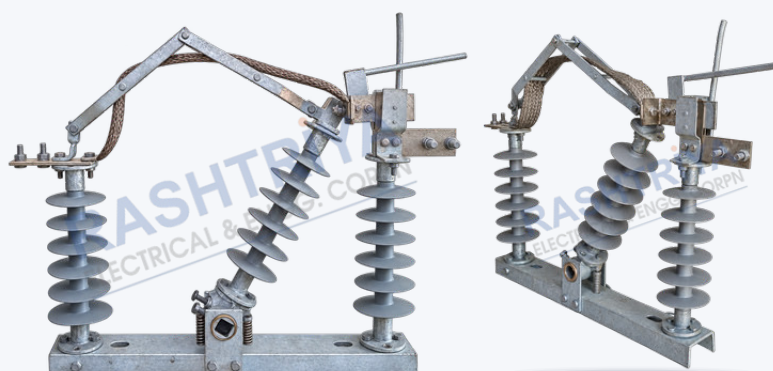


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22 kV Polymer GOAB Switch
6 Insulators



22 kV Polymer GOAB Switch
9 Insulators



33 kV Polymer GOAB Switch
6 Insulators



33 kV Polymer GOAB Switch
9 Insulators



AVAILABLE CURRENT | ALL FOUR MODELS

400 A

630 A

800 A

Current options supplied as per requirement. Insulator counts refer to each 3-phase set.

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Fuses

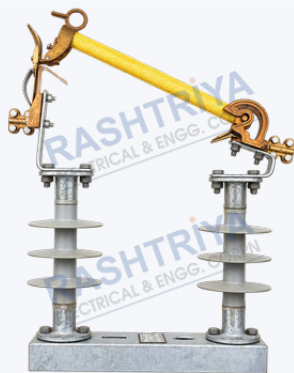
ABOUT FUSES

Fuses protect against overcurrent. They are used on distribution lines and transformers. A fuse link melts under sufficient overcurrent. Arc extinction then interrupts the affected circuit. Applications include feeder taps, branch circuits, and pole-mounted distribution transformers.

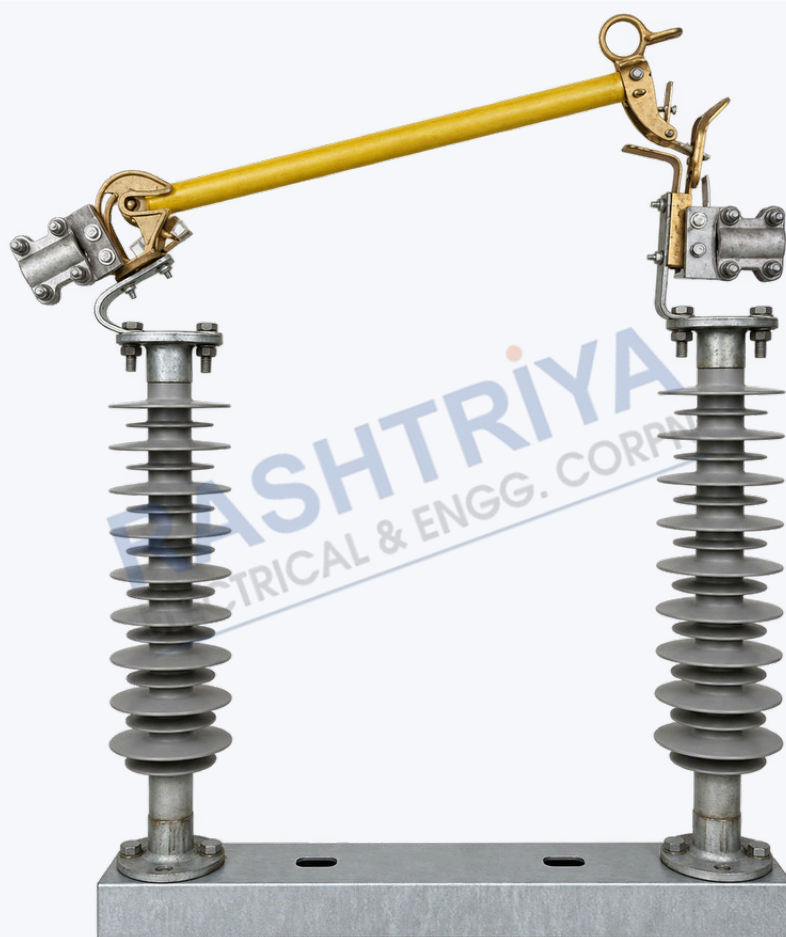
DO units have a removable fuse carrier. After operation, the carrier drops to indicate opening. Fuse links are selected by their time-current response. Selection considers voltage and breaking capacity. This range includes DO and Horn Gap (HG) fuses. DO variants: channel type and solid core type.

Drop Out (DO) Fuses - Channel Type

11 kV Drop Out (DO) Fuse



33 kV Drop Out (DO) Fuse



22 kV Drop Out (DO) Fuse



CURRENT OPTIONS | ALL MODELS

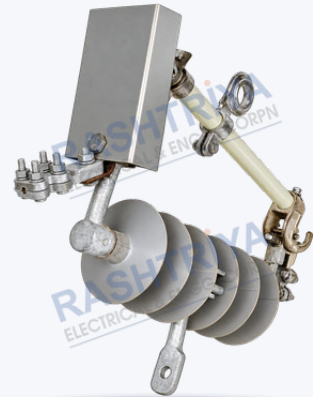
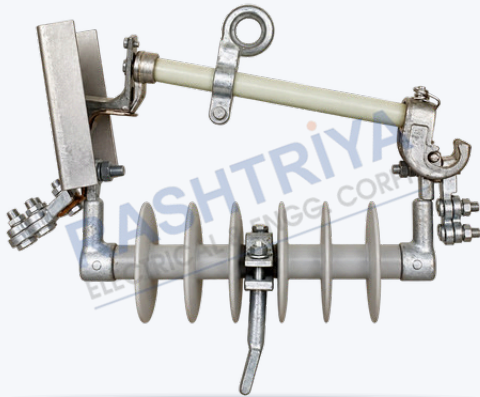
100-400 A

Current supplied as per requirement. Range availability: 11, 22 and 33 kV.

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Drop Out (DO) Fuse - Solid Core Type

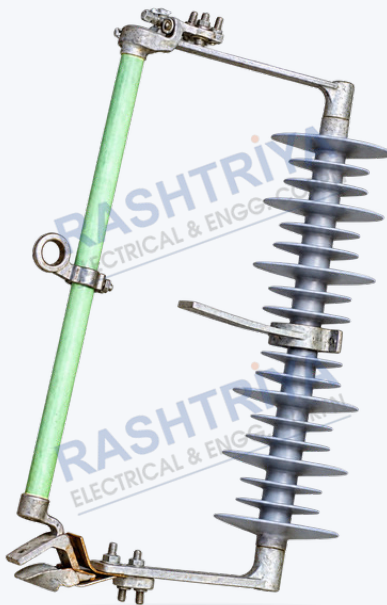
11 kV Drop Out (DO) Fuse



22 kV Drop Out (DO) Fuse



33 kV Drop Out (DO) Fuse



Cutout Fuse



CURRENT OPTIONS | ALL FOUR MODELS

100-200 A

Available as per requirement.

Material: Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron fittings.

Horn Gap Fuse

11 kV & 33 kV Polymer Range

11 kV Polymer Horn Gap Fuse



AVAILABLE CURRENT

200 A

400 A

As per requirement

33 kV Polymer Horn Gap Fuse



AVAILABLE CURRENT

200 A

400 A

As per requirement

MATERIALS | BOTH PRODUCTS

Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron /
MC (malleable cast) iron.

PRODUCT RANGE

TRANSMISSION & DISTRIBUTION

Isolators



RASHTRIYA
ELECTRICAL & ENGG. CORPN

Porcelain Isolators



COMMON SPECIFICATIONS & APPLICATIONS

Stack configurations	Single stack / Double stack
Rated voltage	11 kV / 33 kV - both stack configurations
Rated current options	400 A to 2500 A, as per requirement
Earth switch	With earth switch / Without earth switch
Mechanism options	Turn & Twist / Without Turn & Twist, as per requirement
Colour	Brown
Materials	Porcelain + SG (spheroidal graphite) iron / MC (malleable cast) iron / copper
Applications	Overhead distribution/transmission lines, substations and industrial power systems
Isolation function	Provides a visible electrical separation point
Mounting	Horizontal mounting

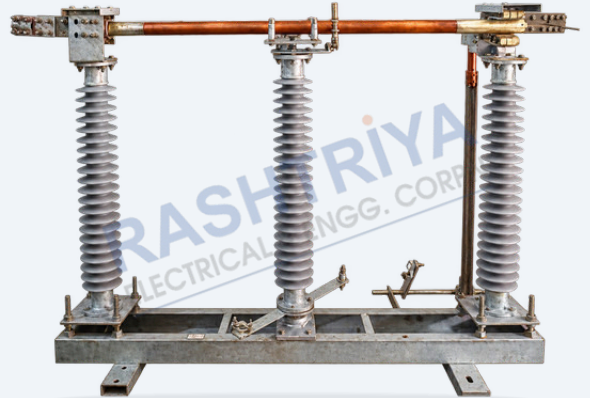


Polymer DBCR Disconnecter / Isolator

DBCR (Double Break Centre-Rotating Isolator)



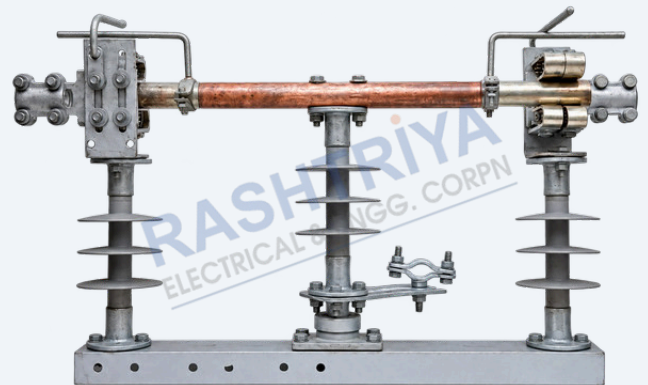
33 kV Polymer Isolator



66 kV Polymer Isolator



132 kV Polymer Isolator



12 kV 800 A Off Load GO AB Switch
Double Break Isolator

COMMON SPECIFICATIONS

Earth switch	With / Without
Turn & Twist	With / Without
Current	400 A - 2500 A
Colour	Grey / Dark Grey
Operation type	Motorised / Manual

MATERIALS

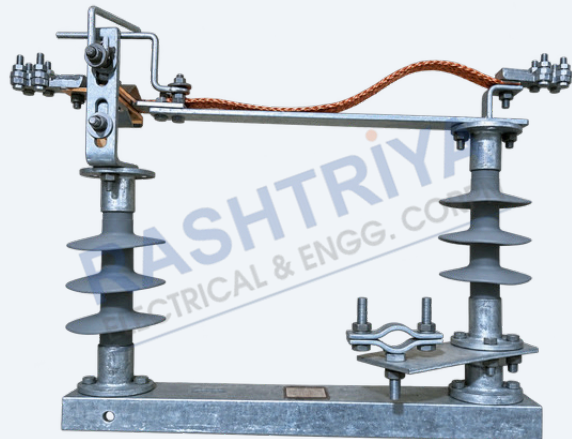
Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron / copper or copper-related alloy.

All options depend on your requirements.



11 kV Single Break GOAB Switch

Horizontal Type | 400 - 800 A, as per requirement



MATERIALS

Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron / copper or copper-related alloy.

MOM (Motor Operating Mechanism) Box



Control voltage 30 V DC / 110 V DC
220 V DC / 230 V AC

Motor supply 415 V AC, 3 Phase

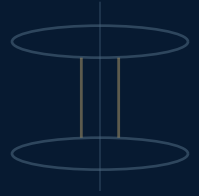
Motor power 0.5 HP

MLM BOX / AUX BOX



Auxiliary contacts

4 NO & 4 NC



Stay Insulator



65x90

Stay insulator for guy wire insulation.



85x140

Larger stay insulator for higher load-bearing and better insulation.



As Per Requirement

Dual-size options for versatile applications in overhead systems.



Reel Insulator



75 x 90 mm

Shackle Insulator



APPLICATIONS & OPERATING PRINCIPLE

Surge/lightning arresters help protect electrical equipment from transient overvoltages. These surges may arise from lightning strikes or switching operations. The arrester limits surge voltage while diverting impulse current to earth. Metal-oxide arresters use nonlinear resistive elements to control surge voltage. Common applications include distribution transformers, switchgear and cable terminals. Arresters also support overvoltage protection on overhead distribution networks. Their protective level must coordinate with the insulation of the protected equipment. Voltage selection depends on system conditions and temporary-overvoltage duty. Creepage and installation conditions should suit the site's pollution and altitude. A ground-lead disconnecter separates a failed arrester from its earth connection. Its separation provides a visible indication of arrester disconnection. Appropriate surge protection supports reliable distribution and substation operation.

9 kV 5 kA Lightning Arrester



5 kA | Distribution Class

9 kV 10 kA Lightning Arrester



10 kA | Station Class

9 kV 5 kA Lightning Arrester with Disconnector



5 kA | Distribution Class

MATERIALS | ALL THREE PRODUCTS

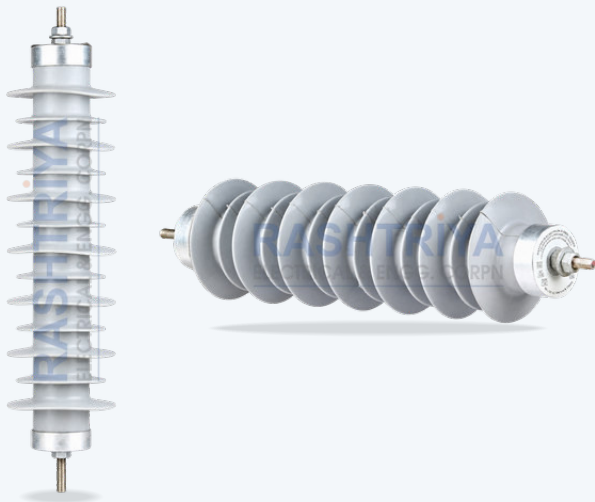
Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron.

Surge / Lightning Arrester (LA)

22 kV & 30 kV POLYMER RANGE

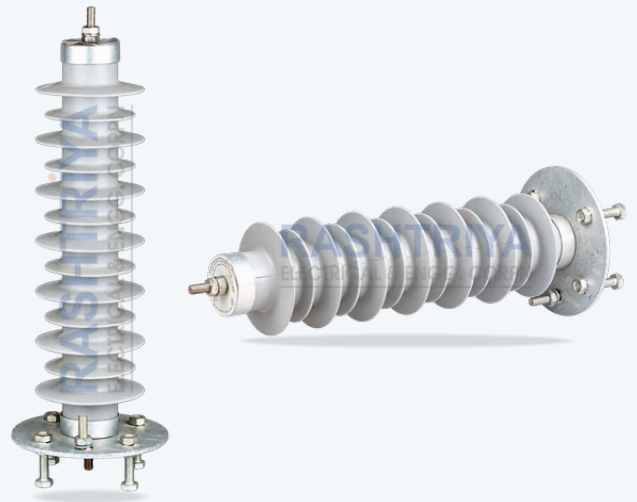


30 kV 10 kA Lightning Arrester Without Stand



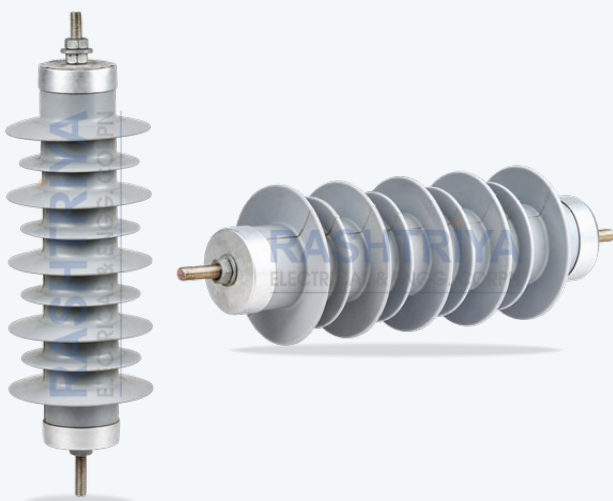
10 kA | Station Class

30 kV 10 kA Lightning Arrester With Stand



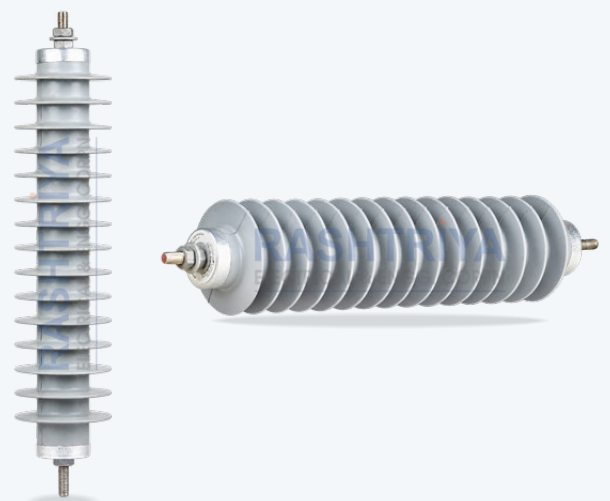
10 kA | Station Class

22 kV 10 kA Lightning Arrester



10 kA | Station Class

30 kV 5 kA Lightning Arrester



5 kA | Distribution Class

MATERIALS | ALL FOUR PRODUCTS

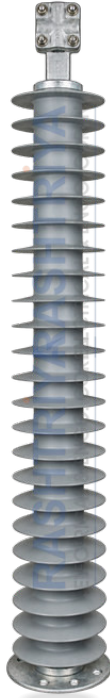
Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron.

Surge / Lightning Arrester (LA)

66 kV & 132 kV RANGE | SURGE COUNTER



66 kV 10 kA Lightning Arrester



10 kA | Station Class

132 kV Lightning Arrester



Surge Counter



LIGHTNING ARRESTERS | MATERIALS

Composite polymer/silicone rubber + FRP rod + SG (spheroidal graphite) iron / MC (malleable cast) iron.



HARDWARE FITTINGS, CLAMPS & CONNECTORS

Hardware Fittings

Metal Fittings for Overhead Lines

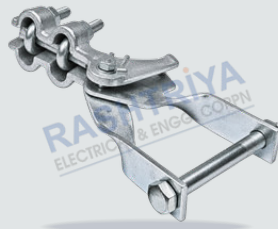
Strain Clamps

Single Bolt



Single-bolted strain fitting for T&C disc insulators.

2 Bolt Disc Fitting



Bolted disc fitting for transmission-line connections.

4 Bolt Disc Fitting



Four-bolt tension fitting for disc-insulator assemblies.

Compression Type



Compression fitting for transmission lines.

Suspension Clamp



Suspension fitting for distribution-line insulator assemblies.

OVERHEAD LINE CONNECTIONS

Rashtriya Electrical offers fittings for overhead transmission and distribution connections. Strain (tension) clamps anchor conductors at terminal points, dead ends and line angles. Suspension clamps support conductors along straight runs while accommodating movement. Select fittings to suit the conductor, line configuration and operating conditions.

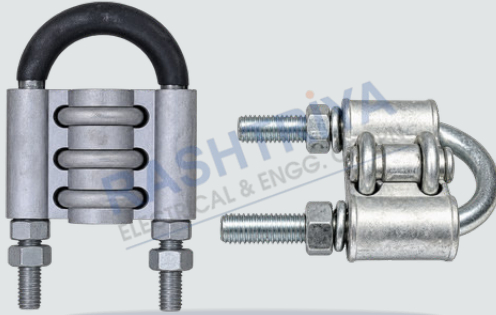


HARDWARE FITTINGS, CLAMPS & CONNECTORS

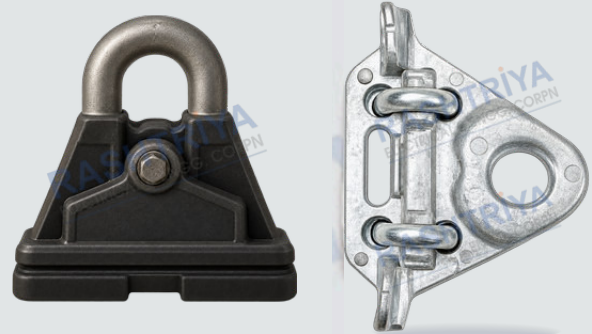
Aerial Bundled Cable Accessories

Strain / Tension & Suspension Clamps

Dead End Clamp (U Bolt Type)



Suspension Clamp



NFC Type Suspension Clamp



I-Hook (Eye Hook) J Type 2 Bolted



Dead End Clamp



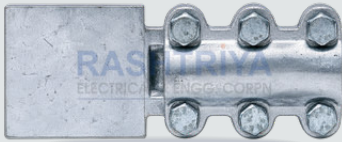


HARDWARE FITTINGS, CLAMPS & CONNECTORS

Electric Power Connectors

Substation Clamps & Connection Accessories

Pad Clamp



C Wedge Clamp



LA Clamp 6 Bolt



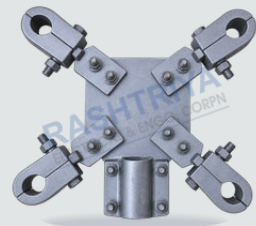
CT Clamp



Tee Clamp



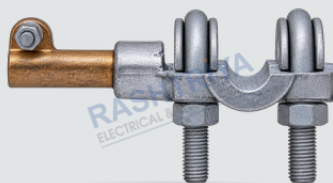
Clamp



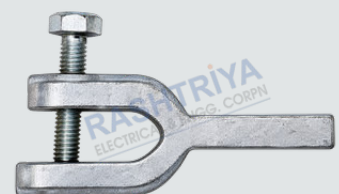
LA Base Clamp



Bimetallic Transformer Clamp



Rail or Earthing Clamp





Thank you for considering our product range.

OUR PRODUCT RANGE

We manufacture and supply polymer and porcelain insulators, GOAB switches, isolators, fuses, surge/lightning arresters, FRP products and line hardware, including clamps and connectors, for transmission, distribution and substation applications.

Custom Requirements

Share your specifications and fitting requirements so we can discuss your product or project needs.

For product inquiries, bulk orders, or technical support, feel free to connect with us:

CONTACT DETAILS

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WEBSITES

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www.polymerinsulatormanufacturers.com

Continuous Improvement, Customer Satisfaction



SCAN TO VISIT