



**ON LOAD
TAP CHANGERS**

CPRI TESTED



**OFF CIRCUIT
TAP SWITCHES**

PGCIL APPROVED

SINCE

40

1973



**ALWAYE
ENGINEERING
WORKS**



**ALWAYE
LOAD SELECTORS**

TAP CHANGERS FOR TRANSFORMERS

Established in 1973, the ALWAYS Group is one of the leading and most respected manufacturers of Off Circuit Tap Switches and On Load Tap Changers in India, with three independent manufacturing units at Aluva (Kochi) and Bangalore.

With around 30 years of dedicated service in the field of Tap Switches and Tap Changers, we enjoy the status of a Preferred Supplier to many of the biggest names in the Indian Transformer Industry. We also have been continuously developing import substitute models regularly for the benefit of our customers.

- ISO 9001 : 2008 Certified Manufacturing Unit.
- Widest Range - Off Circuit Tap Switches & On Load Tap Changers - under one group.
- Industry's best line up of Test Facilities.
- Approved by leading Utilities and Power Project Contract Houses in India.
- In house Design & Customization Facilities.
- Regular Exporter of Off Circuit Tap Switches.
- Preferred supplier to several leading Transformer Manufacturers in India.
- Most accepted Price Range.

We operate multiple Units to manufacture high quality Off Circuit Tap Switches and On Load Tap Changers along with its allied products and components. This system helps us in focused development of various products and services, apart from ensuring timely deliveries and support to our ever-growing customer base, across the world.

- Purpose Built Manufacturing Set-Up.
- Strategic Locations.
- Modern Machining & Manufacturing.
- Well laid out Shop Floors, with adequate Material Handling Equipment.
- Extensive Test & Inspection Equipment, including
 - High Voltage Test Kits.
 - Contact Resistance Measurement Kits.
 - Insulation Resistance Measurement Kits.
 - Coating Thickness Measurement Kits.
 - Pressure Test Set Up.
 - Conductivity Test Kits.
 - Digital Measuring Instruments.
- Group strength of around 100 employees.
- Over one hundred registered Vendors, including units with ultra modern machining facilities.

OCTS - LINEAR TYPE

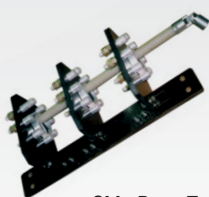


Voltage Class	: 24 kV & 36 kV
Current Rating	: Upto 100 Amps
No. of Taps	: 05 & 07
No. of Phase	: Upto 3 Phase
L Dimensions (mm)	: 70, 100, 130, 150, 200
Connection	: Bridge Type
Mounting	: Cover Mounting
Operation	: Manual
Cooling Media	: Transformer Oil

OCTS - ROTARY TYPE



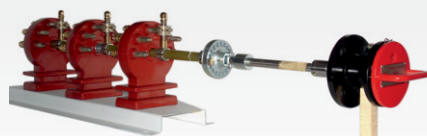
Tie Rod Type



Side Base Type

Voltage Class	: Upto 47 kV
Current Rating	: Upto 600 Amps.
No. of Taps	: Upto 13
No. of Phase / Deck	: 03 / 06 / 09 / 12
Type of Connection	: Bridge (Ring) Type
Operation	: Manual
Cooling Media	: Transformer Oil

OCTS FOR DRY TYPE TRANSFORMERS



Voltage Class	: Upto 33 kV
Current Rating	: Upto 400 Amps.
No. of Taps	: 09 Posn.
No. of Phase / Deck	: Upto 06
Type of Connection	: Bridge
Type of Contacts	: Snap Action & Push Pull
Operation	: Manual/motorised (snap Action).
Cooling Media	: Air



OCTS - FOR POWER TRANSFORMERS



SELECTOR / BRIDGE REVERSING / COARSE & FINE

Voltage Class	: Upto 220 kV
Current Rating	: Upto 5000 Amps.
No. of Taps	: Upto 72
No. of Phase / Decks	: Upto 12
Type of Connection	: Bridge / Selector / Reversing / Coarse & Fine
Mounting	: Horizontal, Handle/drive On Side Wall Horizontal, Handle On Top Cover Vertical, Handle/drive On Top Side Wall Vertical, Handle/drive On Bottom Side Wall Vertical, Handle On Top Cover Bell Mounted
Operation	: Motorised / Manual
Cooling Media	: Transformer Oil

ON LOAD TAP CHANGERS



Voltage Class	: 11 kV, 22 kV & 33 kV Models
Current Rating	: Upto 200 Amps.
No. of Taps	: Upto 17
No. of Phase	: 03
Type of Connection	: Selector
Cooling Media	: Transformer Oil

MOTORISED DM BOX for Tap Changers & Star Delta Switches



Control Voltage	: 230 V
Motor	: 230 V, 3 Phase, 0.18 or 0.36 kW.
Switching Time	: 02 Seconds (Approx)
Time for Tap Change	: 07 Second (Approx)

OFF LOAD ISOLATORS

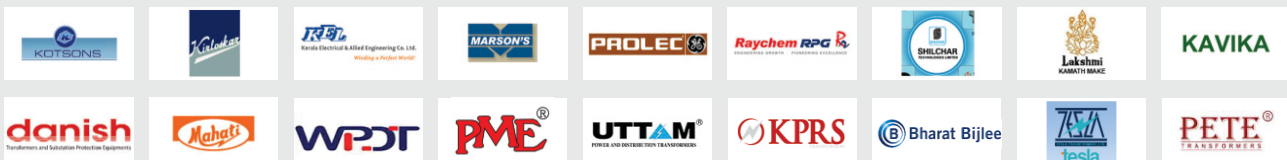


Voltage Class	: Upto 33 kV
Current Rating	: Upto 3500 Amps.
No. of Taps	: ON / OFF
No. of Pole	: Upto 04
Type of Contacts	: Snap Action
Operation	: Manual
Cooling Media	: Transformer Oil

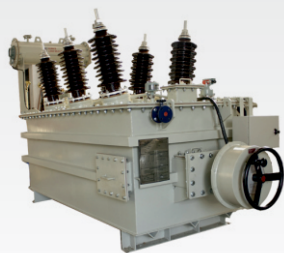
KNIFE (EARTHING) SWITCH



Voltage Class	: Upto 1.1 kV
Current Rating	: 500 / 1000 / 2000 Amps Models
No. of Pole	: 01
No. of Position	: ON / OFF
Operation	: Manual
Cooling Media	: Air



STAR/DELTA CHANGEOVER SWITCHES



Bare model, suitable for mounting inside the Transformer is also available

Voltage Class	: Upto 220 kV
Current Rating	: Upto 5000 Amps.
No. of Phase	: 03
Mounting	: Horizontal, Handle/Drive on Side Wall or Top Cover Vertical, Handle/Drive on Top / Bottom of Side Wall or on Top Cover Bell mounted
Operation	: Motorised / Manual
Cooling Media	: Transformer Oil

OPERATING HANDLES FOR TAP SWITCHES



T - Type



Wheel Type - Ø 160 mm



EU Type



Wheel Type - Ø 300 mm



with Limit Switch, Dial Switch and Removable Crank Handle

Various options like Limit Switch, Dial Switch, Operation Counter, Electro Magnetic Latch, Multiple Unit Synchronisation, etc. available.

For:

- Off Circuit Tap Switches (Rotary Type, for Power & Distribution Transformers)
- Off Circuit Tap Switches (Linear Type, for Distribution Transformers)
- Off Circuit Voltage Changeover Switches
- Off Circuit Star/Delta Switches
- Off Circuit Series/Parallel Switches
- Off Load Isolators
- Knife Switches
- Motorised Drive Mechanism (DM) Boxes

Contact



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For:

- On Load Tap Changers (Bolt On Type, for Distribution Transformers)
- Off Circuit Tap Switches (Linear Type, for Distribution Transformers)
- Off Circuit Tap Switches (Push-Pull Type, for Dry Type Transformers)

Contact



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