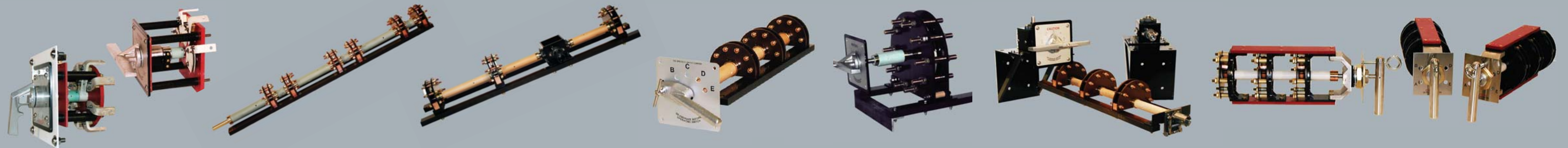


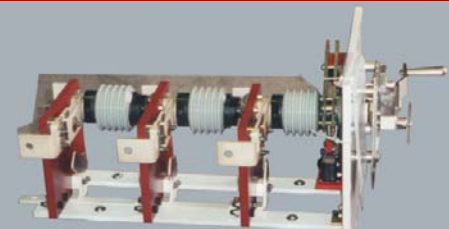
# The Specialty Switch Company



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## GROUNDING SWITCHES FOR NETWORK TRANSFORMERS

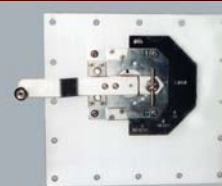


### Grounding Switches for Network Transformers . . .

These switches are used on network transformers for disconnecting the primary feeder from the transformer and for connecting the incoming feeder to the ground position.



**Network Switch Assembly:**  
Three (3) position (open, closed, ground)  
three (3) phase, 18 kV class, 125 kV BIL  
single interlock solenoid



**Stainless Steel Mounting Plate:**  
Including stainless steel padlockable handle, Index plate, Position stops, and handle plunger stops



**Network Switch Assembly:**  
Three (3) position (open, closed, ground)  
three (3) phase, 34.5 kV class, 200 kV BIL  
double interlock solenoid

**Network Switch Options:**  
95 kV BIL, 125 kV BIL, and 200kV BIL  
Two (2) position (clear, ground)  
Three (3) position (open, closed, ground)  
Side wall mount, with welded or bolted front plate, cover mount, with welded front plate  
Single and double interlock solenoids  
Magnetic break assembly on closed contact  
Phase sequence grounding

## Handles, Faceplates & Accessory Items



### Handles, Faceplates and Accessories . . .

Specialty Switch offers a variety of handle and indicator plate options for all of our switch applications such as tap changers, dual voltage, delta-wye, air and network switches for dry type and liquid filled transformers, and electric furnace controls. Motor drive control options are also available.



**HANDLES:**  
Typical handle assembly options:  
Padlockable pistol grip  
Trigger pistol grip  
Padlockable T-handle  
Trigger T-handle



**Front Index Plate Assembly:**  
With padlockable pistol grip handle and kirk-key interlock

- No-Load Tap Changers
- Multiple Voltage Switches
- Series Parallel Switches
- Double Pull Double Throw
- Motor Operated Switches
- Grounding Network Switches
- Solenoid Operated Switches
- L.T.C. Terminal Boards
- Repair & Rebuild Switches
- Delta-Wye Switches
- Barkeley Type Switches



Switches Manufactured To Your Specifications



**H-J International, Inc.**  
3010 High Ridge Blvd High Ridge, Missouri USA 63049  
Tel: (636) 677-3421 Fax: (636) 376-1915  
www.h-jinternational.com



## Unique Requirements are our Specialty



With your detailed specifications we at Specialty Switch can provide one of our many standard designs, modify one of our standard designs to fit your application, or design a switch that will satisfy your specific application. We have the flexibility to adapt to whatever your requirements may be. The Specialty Switch Company manufactures rotary tap changers, dual voltage switches, motor operated switches, delta-wye switches and ground switches, also known as network transformer switches. The switches are typically mounted through the tank wall and are operable from the outside of the transformer. They are available in various deck configurations for:

### Transformer Tap Changers Dual Voltage Switches Grounding Switches Delta-Wye Switches & Others For De-energized Operation . . . .

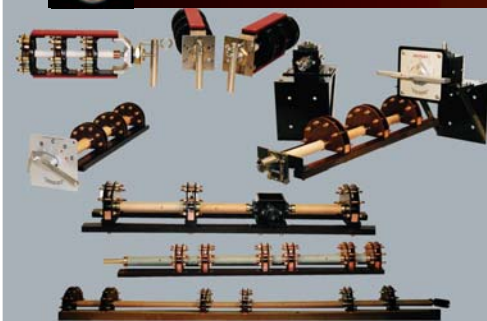
These switches have been designed for use in dry type and liquid filled distribution, medium power and power transformers as well as a variety of other applications, such as electric furnace controls, resistance welders and switchgear. They are for de-energized operation with single, two and three phase styles. Multiple voltages, series parallel, solenoid operated as well as motor operated switches are also available.

- NO-LOAD TAP CHANGERS
- MULTIPLE VOLTAGE SWITCHES
- SERIES PARALLEL SWITCHES
- DOUBLE PULL DOUBLE THROW
- MOTOR OPERATED SWITCHES
- GROUNDING NETWORK SWITCHES
- SOLENOID OPERATED SWITCHES
- L.T.C. TERMINAL BOARDS
- REPAIR AND REBUILD SWITCHES
- DELTA-WYE SWITCHES
- BARKELEW TYPE SWITCHES
- SINGLE / TWO / THREE PHASE INTERCHANGEABLE WITH LEXINGTON

### FEATURES

- 100 to 4000 AMPERES
- 600 VOLTS and UP
- 125 KV BIL and UP
- UP TO 12 POSITIONS
- SINGLE PHASE, UP TO SIX PHASE
- UNIVERSAL JOINT CONNECTIONS
- GEAR BOX DRIVES
- RIGHT ANGLE MOUNTING
- AUXILIARY CONTACT SWITCH FOR POSITION INDICATION
- AUXILIARY CONTACT SWITCH TO DE-ENERGIZE DURING OPERATION
- PULL-TO-TURN T-HANDLE ASSEMBLY
- THUMB RELEASE HANDLE WITH LOCKOUT PROVISION
- CONTACT CLIPS and ROTOR BARS STRAIGHT, OR ANGLED AT 45 OR 90 DEGREES

## NO-LOAD TAP CHANGERS, 100 TO 4000 AMPERES



### No-Load Tap Changers . . .

Bridging Shoe Style, for use in Oil application. 1.2 KV 30 kV BIL to 69 kV 350 KV BIL, 200, 400, 600, 800 and 1000 AMP. one (1), two (2), three (3), and six (6) deck assemblies available in three (3), five (5), six (6), seven (7), and nine (9) positions. Wall mount, universal joint, and right angle drive are offered.

#### Bridging Shoe Style:

400 AMP, 5 Position, 3 Phase (6 deck), wall mount

#### Bridging Ring Style:

125 and 200 AMP, Wall mount and right angle drive, three (3) and five (5) position, one (1), two (2), three (3), and six (6) decks, 15 kV 110 kV BIL to 46kV 250 kV BIL

#### Bridging Shoe Style:

200 AMP, 5 position, 3 phase (3 deck), and wall mount



#### Bridging Shoe Style:

400 AMP, 5 position, 3 phase (3 deck), two (2) right drive and universal joint



#### Bridging Shoe Style:

400 AMP, 5 position, 3 phase (3 deck), right angle drive with universal joint

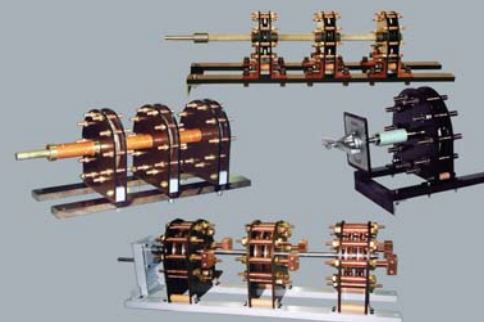


#### Bridging Shoe Style:

400 AMP, 5 position, 3 phase (6 deck), with universal joint



## MULTIPLE VOLTAGE SWITCHES



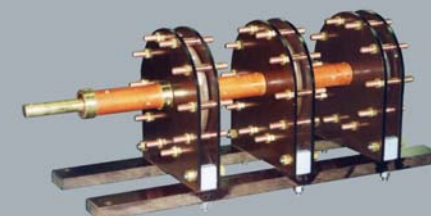
### Multiple Voltage Switches . . .

These switches are used on transformers to connect the primary windings either in series for a higher winding ratio, or in parallel for a lower winding ratio. This dual voltage option allows one transformer to be stocked that can be used at either of two system voltages. These switches also minimize inventory of transformers and ease voltage conversions.

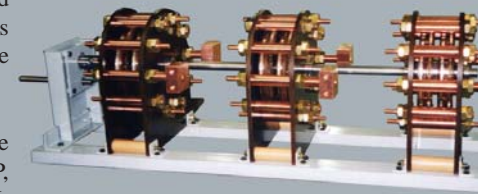
Dual Voltage and Delta-Wye Style are available in, 250 AMP, 500 AMP, 850 AMP, 1000 AMP, 1500 AMP and 2000 AMP, 15 kV 110 kV BIL to 46 kV 250 kV BIL. One (1), two (2), three (3) and six (6) deck assemblies. Wall mount, universal joint, and right angle drive.



**Dual Voltage Switch Assembly:**  
250 AMP, 2 position, 3 phase (3 deck)  
46 kV, 250 kV BIL, wall mount



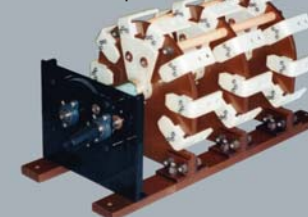
**Dual Voltage Switch Assembly:**  
250 AMP, 2 position, 3 phase (3 deck)  
18kV, 125 kV BIL, wall mount



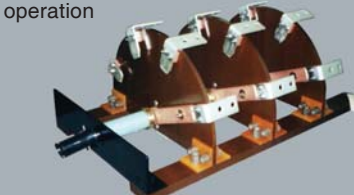
**Dual Voltage Switch Assembly:**  
2000 AMP, 2 position, 3 phase (3 deck)  
5:1 gear drive



**Delta-Wye Switch Assembly:**  
500 AMP, 2 position, 3 phase (1 deck), 25kV, 150 kV BIL, wall mount, shown with padlockable T-handle and index plate

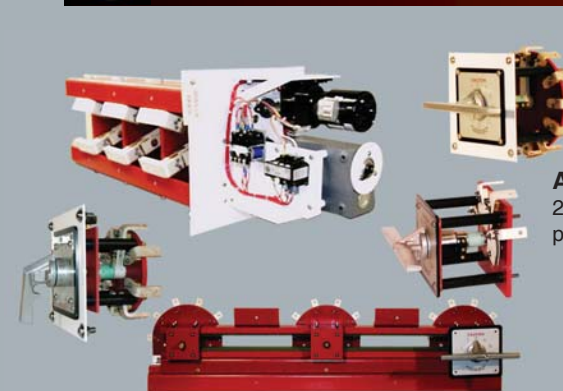


**Bridging Blade Switch Assembly:**  
1000 AMP, 7 position, 3 phase (3 deck), 15 kV, 11 kV BIL, with silver plated contacts and geneva gear drive operation



**Common Center Switch Assembly:**  
400 AMP, 3 position plus "OFF", 3 phase (3 deck)  
34 kV 200 kV BIL: phase to phase, phase to ground, clip to clip, universal joint

## AIR SWITCHES



#### Air Switch:

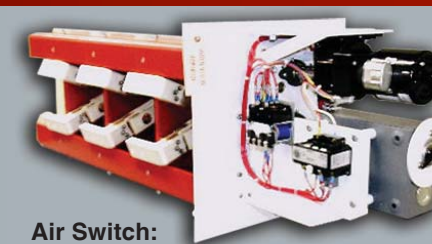
200 AMP, 2 position, series - parallel with pull-n-turn handle with auxiliary contacts

#### Air Switch:

200 AMP, 12 position, 1 deck, 600 volt, common center with auxiliary contact

#### Air Switch:

600 AMP, 8 position, 1 deck, 600 volt, common center, mechanical release with auxiliary contacts



#### Air Switch:

1200 AMP, 5 position, 3 deck/phase, motor operated switch, common center



#### Tap Changer for use in Air:

400 AMP, 5 position, 3 phase (3 deck)  
25 kV, 125 kV BIL, with gear rack linear drive

#### Air Switch Options:

- 200 to 7000 AMP
- 2 to 12 position
- Pull-to-run, mechanical release
- Auxiliary contacts and position indicator deck
- Right angle drive
- 600V, 800V, 1.2 kV, 5 kV, 8.6 kV, 15 kV Class
- Manual and motor operated