



High Power Switches

Expertly engineered for reliable performance





Industries we serve:

Power distribution

Power generation

Renewable energy

Railway & traction

Chemical industry

Primary metal industry

Cement manufacturing

Research labs

**“Protect your
equipment &
processes. . .”**

Ferraz Shawmut’s High Power Switches are engineered to meet your needs

High Power Switches are critical to your operation. Not only do they help protect your people from injury, they help protect your equipment and processes, and minimize the risk of costly downtime and repairs. You need a switch that will meet your unique needs. You need Ferraz Shawmut.

Our standard High Power Switches are rigorously engineered

Ferraz Shawmut’s standard High Power Switches encompass a wide range of DC and AC switches designed to handle high current/low voltage and high voltage/low current applications. Our offerings include rectifier output switches, disconnect switches in both AC and DC, transfer switches for AC and DC, cell switches and medium voltages AC switches, and AC earthing switches.

Innovative High Power Switch systems and assemblies - custom made

When you need more than just a switch, Ferraz Shawmut’s world-class engineering team is ready to provide custom engineering and fabrication to build the High Power Switch system or assembly you need, exactly the way you need it.

Ferraz Shawmut’s team of design engineers are bold problem-solvers and enjoy meeting your High Power Switch challenges head on with innovative engineering and creative solutions. Our engineers incorporate design and construction features that ensure each switch performs reliably, whether it’s a rectifier output switch operated once a year or a change-over switch system in an enclosed panel actuated dozens of times a day.

So whether your needs are simple High Power Switch or complex assembly or system, you can rely on Ferraz Shawmut to deliver the best solution. To request a quote and outline drawing, or to learn more, email HPSwitch@ferrazshawmut.com. We’ll show you all the ways we’re your safest connection for circuit protection.



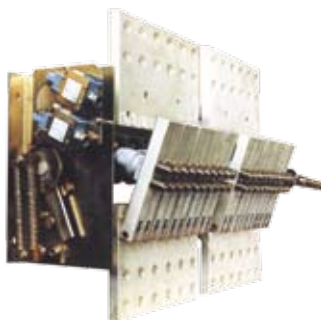
High Power Switch options & ratings

DC Disconnect Switches 1kV to 36kV - 100A to 160kA

DC Disconnect Switches

Application: Battery disconnect, motor isolation, 3rd rail sectionalization

- 500 VDC to 36kV DC
- Rating from 100A to 12kA
- One or two pole arrangement
- Manual, motorized or pneumatic drive
- Visible blade opening
- Ground position
- Locking magnet
- Padlock and/or key interlock



Rectifier Output Switch

Rectifier Output Switches

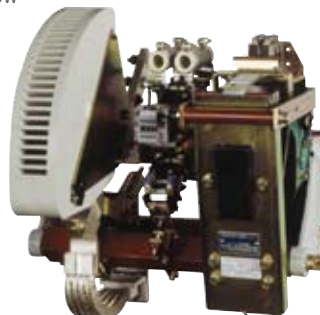
Application: Isolate safely large rectifier

- DC Disconnect switch
- Up to 2kV DC
- Rating from 6kA to 160kA
- Aluminum or copper connections
- Deformable switches
- Supported by buss bars system
- Manual, motorized or pneumatic drive
- Low contact drop, low watt loss
- Large number of operations

DC Transfer Switches

Application: ARC furnace, ship power distribution,

- 1kV to 36kV DC
- 100A to 32kA
- Offer multitude of combination for:
 - Double poles with double throw or triple throw
 - Triple poles with double throw or triple throw
- Manual, motorized or pneumatic drive
- Ground position
- Padlock and/or key interlock



DC Power Contactor

DC Power Contactors

Application: control large motors in primary metal industry, used in overhead crane, field excitation

- Up to 2kV DC
- Ratings from 100A to 6kA
- Multipole arrangement
- Mechanical or electrical Latching
- Auxiliary contact options
- Special configuration available

Cell Switches

Application: Isolate a cell in an electrolytic system

- DC Disconnect or load break switches
- Up to 2kV
- Ratings from 6kA to 60kA
- Aluminum or copper connections
- Flexible connections

Services we provide:

- Custom designs
- From your concept to an engineered manufacturing solution
- Enclosed switches with control components
- Outstanding after sales service



High Power Switch options & ratings

AC Disconnect Switch 1KV TO 36kV - 400A TO 30kA

AC Medium Voltage

Application: Isolate generator, tie switch, ground switch in the power generation, used to isolate medium voltage drive or motor

- Voltage 3.6, 7.2, 5, 12, 15, 24 to 36kV
- High frequency application available up to 3000Hz
- Rugged construction
- Up to 50000 cycle (1cycle= 1on and 1off)
- Self cleaning contacts
- Low maintenance options
- Auxiliary contacts
- Manual, motorized or pneumatic drive
- Ground position
- Padlock and/or key interlock

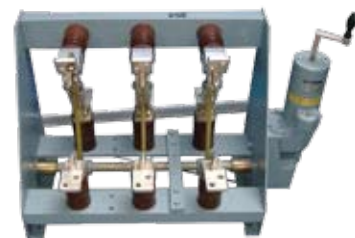


Medium Voltage Enclosed Switch

AC Power Contactors

Application: Control large motor in metal industry

- UP to 2kV AC
- Rating from 100A to 6kA
- Multipole arrangement
- Mechanical or electrical Latching
- Auxiliary contact options
- Special configuration available



AC Transfer Switch

AC Transfer Switches

Application: Power generation

- 1kV to 36kV DC
- 100A to 32kA
- Offer multitude of combinations for:
- Triple poles with double throw or triple throw
- Manual, motorized or pneumatic drive
- Ground position
- Padlock and/or key interlock
-

AC Earthing Switches

Application: grounding application

- 3.6kV to 36kV AC
- Quick-on mechanism
- Closing on short circuit current
- Manual, motorized or pneumatic drive
- Padlock and/or key interlock



**“Custom designed
to meet rigorous
engineering
standards...”**

Ferraz Shawmut is the leading innovator in High Power Switch technology

When industry leading companies worldwide have a special challenge, they call Ferraz Shawmut. Why? Because we've pioneered more technological advances in High Power Switches than all of our competitors combined. Here are just a few:

- A deformable disconnect switch that can move on three axes to allow for bus bar expansion, eliminating the need for expensive flexible connections.
- The first input load break disconnect switch for “choppers” — DC-to-DC converters used in chlor-alkali applications.
- The first load break switch and rotating current transfer unit for copper foil processes.
- The first dual-shell switching system for DC arc furnaces.

How to order High Power Switches

You'll find Ferraz Shawmut easy to do business with. We invite you to call or email your request for quote and an outline drawing to:

United States

978-465-4807

Canada

416-253-8507

HPSwitch@ferrazshawmut.com

A relentless pursuit of protection for electrical components, systems - and the people who use them.

Ferraz Shawmut is an international company manufacturing the widest range of circuit protection solutions in the electrical industry. Drawing on a century of experience - and an ongoing commitment to critical research in electrical safety - we provide industrial, commercial, and OEM customers with innovative products and technical support teams to increase effectiveness, simplify applications, and enhance productivity. Learn more about our circuit protection solutions at us.ferrazshawmut.com.

Other circuit protection products from Ferraz Shawmut:

A wide range of circuit protection products are available including:



Contact our switch specialists:

We invite you to contact our Switch Specialists directly at:

USA Direct Line:

978-465-4807

Canada Direct Line:

416-253-8507

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