

Magnum DS® Remanufacturing Service

Switchgear Modernization and Upgrade Solutions



Magnum DS Power Circuit Breaker

Eaton's Power Breaker Reconditioning center (PBRc) in Warrendale, PA is now offering a remanufacturing service for Magnum DS circuit breakers. This program is an entirely new class of factory authorized remanufacturing for low voltage Magnum DS power circuit breakers and provides additional warranty coverage.

Magnum DS Remanufacturing

Eaton's factory authorized remanufacturing service for Magnum DS circuit breakers extends the useful life of these low voltage power circuit breakers. Damage due to abuse, water, or misapplication can render a Magnum DS power circuit breaker inoperable. Eaton's new factory authorized remanufacturing process restores these circuit breakers to their original "like-new" condition at a cost much less than purchasing new ones and often in less time.

Component Replacement

A new racking mechanism is installed to replace the original to extend the useful life of the circuit breaker. A new operating mechanism is also installed in order to put the breaker in "like-new" condition. Operating mechanisms are subject to many different environments which can decrease the effective life of the circuit breaker. This level of service sets Eaton's remanufacturing program far above industry standard practice of breaker reconditioning.

Trained Personnel

Eaton established its Power Breaker Reconditioning center (PBRc) in Warrendale, PA as the dedicated facility for the Magnum DS remanufacturing service. This PBRc location is staffed with individuals that are specifically trained in power circuit breaker remanufacturing of Magnum DS breakers. They are not field engineers or technicians that perform this function to fill unproductive time. They are dedicated to the PBRc remanufacturing process and are always available on a routine or emergency basis.

Eaton Exclusive Process

This new remanufacturing process was developed utilizing factory jigs and fixtures to provide correct and accurate contact alignment as well as proper spring compression. It is exclusive to Eaton's facility in Warrendale, PA. The factory authorized remanufacturing of the Magnum DS utilizes specific processes that incorporate a unique fixture exclusively available at the Eaton's PBRc facility to ensure the highest level of reliability and performance for power circuit breakers.

These processes include:

- New operating mechanism
- New Racking Mechanism
- Main contact cleaning and realignment with Eaton proprietary fixture.
- All hardware will be replaced with Eaton factory hardware.
- Trip Unit upgrades and replacement is available as an option.

Centralized Data Base

Eaton's PBRc's utilize our national Pow-R-DB database to record all incoming and outgoing testing associated with the Magnum DS Remanufacturing Program as well as all pertinent circuit breaker information such as model number, serial number, ratings, etc.

A unique identification number (ID) is assigned to each breaker. The ID allows quick access to electronic test forms for remanufactured Magnum DS Breakers. The ID number coupled with the Pow-R-DB database allows both Eaton and its customers to track the remanufacturing cycle for the circuit breaker and aid in the development of a maintenance program for Magnum DS breakers.

Local Support Services

Eaton also supports our customers with an extensive engineering systems and services organization located throughout North America. Eaton's Electrical Systems and Services engineers are factory trained to service and commission/install our Magnum DS power circuit breakers.

Warranty

The Magnum DS remanufacturing process warranty is 12 months from installation or 18 months from date of shipment, whichever occurs first, per Eaton's Selling Policy 25-000.

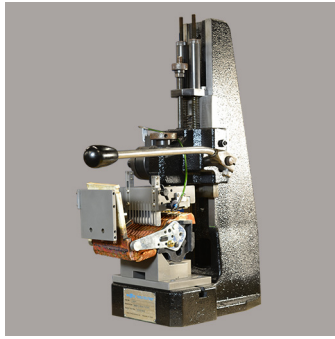
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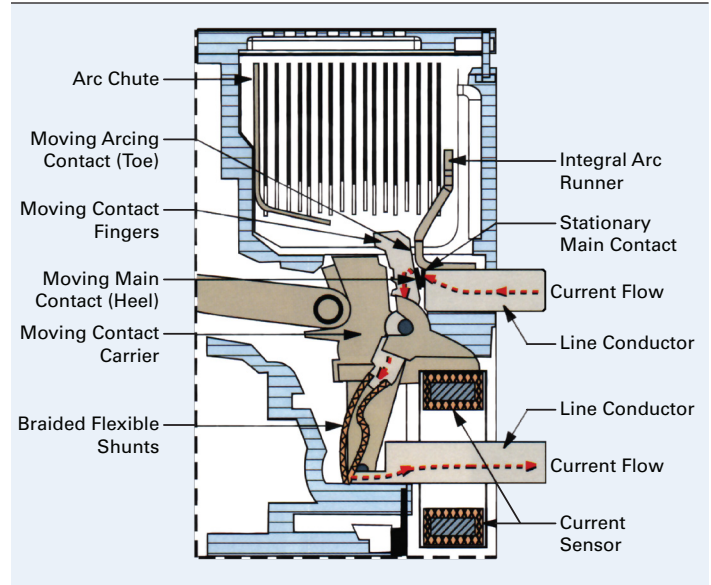
Incoming Inspection, Test and Data Collection

All Magnum DS power circuit breakers receive a thorough incoming inspection and tests are performed where possible. This data is recorded and used as a baseline for the incoming condition of our customer's breaker.



Reassembly to Eaton's Specifications

Eaton uses a proprietary fixture to reassemble the contact fingers and springs which will maintain the correct contact force between the fixed and moving contacts. This process assures high reliability in the critical area of contact alignment.

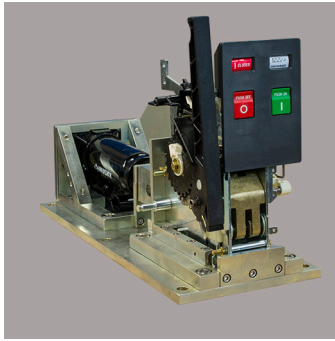


Cross-Section of Magnum DS Heel-Toe Contact



Complete Disassembly

Each circuit breaker is disassembled to the smallest subassembly or component to expose all surfaces for further inspection, cleaning and reconditioning. This step is critical in the assessment of the breaker which gives our technicians insight into the breaker's condition.



New Operating Mechanism

The existing breaker operating mechanism is replaced with a new unit per Eaton's proprietary specifications. A new operating mechanism gives our customers the highest degree of reliability and longevity with our enhanced remanufacturing process. This will literally reset the clock on the breaker's life.



Complete Parts Inventory

A complete and fully stocked parts inventory is maintained at the Warrendale, PA facility which provides quick turnaround to meet our customer's requirements. This approach will help our customers deal with unseen events which can cripple their operation.



Digitrip Upgrades

A trip unit upgrade from a 520 series to an 1150 series trip unit is available from Eaton's Warrendale facility. This procedure is performed by our certified breaker technicians. Customers can have confidence in Eaton's ability to respond to their changing operating environment with upgrade solutions.

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