



The future isn't written



16 Aug 2021

Jeff Gieger

Share to: ➔

When it comes to the connection, protection and distribution of electrical power, ABB is writing the future today.

Writing the future of powerful electrical solutions

An inspiring philosophy is that everyone has the power to write their future – regardless of where they start. At ABB, this philosophy fuels our commitment to creativity, innovation and quality. Recognizing that great ideas come from anywhere, we're constantly developing, refining and testing new and advanced electrical solutions that help power homes and businesses around the world.



Carrying through on this commitment is the Research & Development team of ABB Installation Products in Hackettstown, New Jersey, which has been developing Elastimold® solid dielectric rubber products for nearly 60 years. The facility is ISO 9001:2015 Certified and manufactures cable accessories and switchgear and overhead apparatus under the brand names Elastimold™ Switchgear, Elastimold® and Joslyn Hi-Voltage® Capacitor switches. Housed within the 120,000 square-foot facility are design and modeling shops, certified test labs and production cells.

With heightened demand for electrical equipment for critical needs and infrastructure improvements, Elastimold solutions are used by utilities to connect, ground, splice, terminate and safeguard overhead and underground cables and protection equipment. To help increase capacity to meet these needs, the Hackettstown site has expanded over the past year, doubling the solid dielectric switchgear manufacturing footprint and adding state-of-the-art equipment.

Transforming ideas into tested solutions

Every product, program and process must evolve and change over time to stay viable for the future. What makes ABB's R&D Center unique is that it has comprehensive capabilities to design, prototype and test all products in-house to meet the latest industry standards. This streamlines the design process and reduces the time to market for new products or customized solutions. The in-house engineers are active members of the Institute of Electrical and Electronics Engineers (IEEE) – and this experienced team collaborates with customers, reviews ideas and requirements, identifies enhancements, and quickly implements these improvements using on-site testing and production facilities.

Complementing this expertise is the R&D Center's fully featured private substation and high-voltage test cell capable of performing 1MV impulse testing, 100kA momentary testing, switching and fault close testing, as well as a wide range of other physical and electrical testing. This enables multiple design iterations to be immediately tested and verified, eliminating the potential delays for an outside lab to complete these requirements. The facility also houses a fully equipped Materials Science Laboratory that can develop advanced rubber formulations and perform comprehensive failure analyses. An in-house model shop provides the ability to build and test prototypes without the need to utilize external suppliers. This dedicated facility and complete range of internal assets helps drive innovation and enables every aspect of new product development – from design and build to modeling and testing.

Powering product and process innovation

When it comes to the connection, protection and distribution of electrical power, ABB is writing the future today. If there is a need for cable accessories, separable connectors, reclosers, switchgear or medium-voltage solutions not available within our current market offerings, the ABB R&D team is ready to help. [Learn more](#) about ABB's comprehensive Elastimold® portfolio and capabilities to meet your requirements, including prototyping, testing, analysis and refinements.

CATEGORIES AND TAGS

Installation Products

 SUBSCRIBE

development

Elastimold

medium voltage

R&D

research

switchgear

ABOUT THE AUTHOR



Jeff Gieger 

Jeff Gieger is the Director of Research & Development for Medium Voltage in Hackettstown, NJ, and leads innovation for ABB Installation



Products Division's Elastimold portfolio. He has more than 20 years of experience in electrification, including product design, process transformation, and field and product evaluation. Jeff and his team focus on ABB's goal of providing safe, smart and sustainable innovation and work closely with utility, industry and infrastructure customers to write the future of electrical and power solutions.

COMMENT ON THIS ARTICLE

COMMUNITY GUIDELINES

0 Comments ABB Conversations US Privacy Policy 1 Login ▾

Recommend Tweet Share Sort by Best ▾



Start the discussion...

LOG IN WITH

OR SIGN UP WITH DISQUS ?



Name

Be the first to comment.

Subscribe Add Disqus Do Not Sell My Data

DISQUS



ABB's website uses cookies. By staying here you are agreeing to our use of cookies. [Learn more](#)

I AGREE