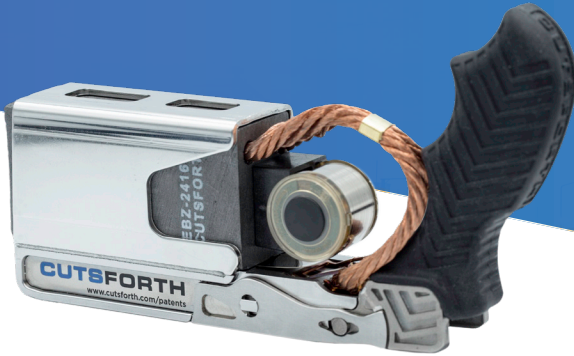


# CUTSFORTH PRODUCTS AND SERVICES

*Innovative technologies and services to  
support the power generation industry*



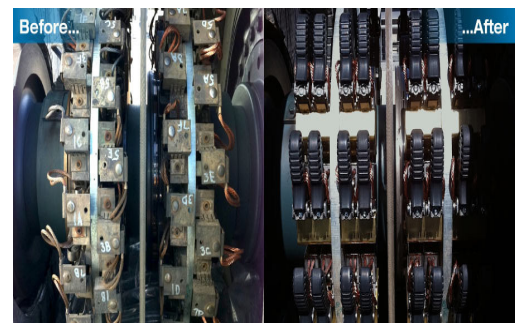
Cutsforth™ knowledge and commitment to excellence drives the innovative solutions for the changing needs of the power industry. Our patented EASYchange® Brush Holders, Shaft Grounding ropes, Online Truing, and Inspection services have been utilized across the globe allowing plants to work safer and smarter while saving companies money on O&M budgets.

## ⚡ EASYCHANGE® REMOVABLE BRUSH HOLDERS

EASYchange® Brush Holders are the best - in - class replacement for your brush excitation systems, and have been proven to be more effective at reducing or eliminating common problems related to brush excitation.

### Benefits of EASYchange®:

- Reduces risk of ring fires and unplanned outages
- Addresses common problems such as:
  - » Brush Binding
  - » Photographing
  - » Arcing
  - » Carbon Deposits...and more!
- Lowers maintenance costs
- Lengthens time between maintenance outages
- Increases safety and efficiency
- Integrates with Cutsforth™ Brush Condition Monitoring system



## ⚡ SHAFT GROUNDING SYSTEMS

Shaft voltage, left unchecked, damages the bearing surfaces of turbine generators, leading to catastrophic failures. Cutsforth™ solves the problem with its innovative Shaft Grounding Assembly solution.

### Benefits of Shaft Grounding Assembly:

- Best - in - class ground continuity
- Safely change grounding ropes online or offline as needed
- Reduces costly forced outages
- Ideal for challenging operating environments
- Universal mounting adapts to a wide variety of different generator models and frames
- Pairs with any Cutsforth™ Voltage & Current Monitoring solutions



**CUTSFORTH**  
THE POWER OF INNOVATION™

See More @ [Cutsforth.com/CBM](https://Cutsforth.com/CBM)

For more information, contact us:

- ☎ 800-290-6458 x1
- 🌐 [Cutsforth.com/Sales](https://Cutsforth.com/Sales)
- ✉ [Sales@cutsforth.com](mailto:Sales@cutsforth.com)

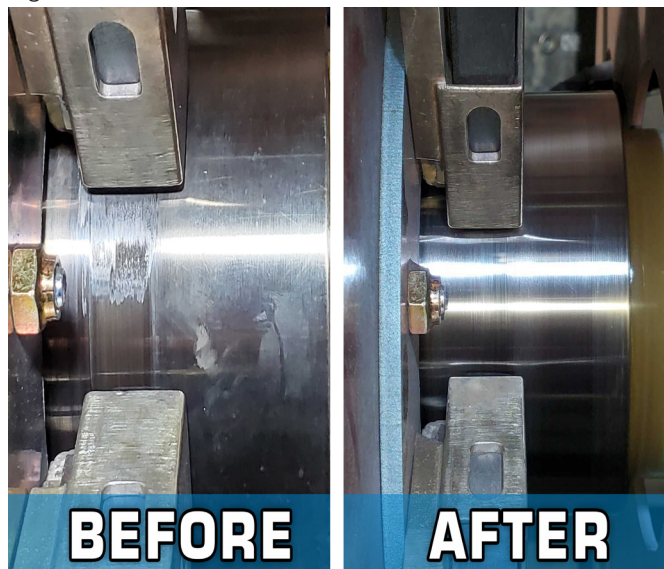


## ⚡ ONLINE COLLECTOR RING TRUING

Cutsforth™ Online Truing process grinds your slip rings online while at full speed and under load with brush rigging in place. The process requires no change to the operational conditions, and can typically be completed in one operating day, saves maintenance dollars, and extends ring life.

### Benefits of Online Truing:

- More cost effective, and takes less time than traditional slip ring machining
- Better accuracy, since truing is performed at operating temperature and speed
- Improves brush to rigging connection
- No outage required
- No need to remove brush rigging
- Reduces surprise and expensive outages



## ⚡ INSPECTION SERVICES & EMERGENCY SUPPORT

Cutsforth™ solves problems and reduces risk to your team and to your bottom line. Our technicians, with their years of experience, offer comprehensive inspection and reporting services that include. We're here when you need us:

- Identifying collector ring and commutator surface irregularities
- Inspection of Shaft ground, voltage, and current
- Subject Matter Expert Analysis
- Inspect rotor flux
- Electro - Magnetic Interference monitors Isophase Bus, Motors, Generators
- Inspection for brush binding and carbon deposits
- Monitoring systems track, trend, and measure for various failures
- Onsite consulting & root cause analysis
- Repair/replace brush holders and rigging
- Restore damaged collector ring housings
- Resurface collector rings

For over 25 years, Cutsforth™ has solved the most challenging maintenance problems with innovative design solutions, and immediate responses to accommodate our customers:

*"It would be unfair not to say that in my 20 years in this business (I am an ex-GE electrical engineer), this is the first time I had a job from a company with unmatched response time, highly professional technicians, and more than 100% service satisfaction."*

- K.P, Electrical Engineer, Consulting Company