

## TECHNICAL DATA SHEET

DEGREASING OF COMMUTATORS  
AND SLIP RINGS

Non-conductive substances such as oil and grease will form an insulating film on the commutator or slip ring. The number of contact points therefore decreases, resulting in a very high local heating.

It may generate sparking, or even melting of the metal, and grooving, and increase the brush wear.



Figure 1 - Effects of grease (from bearings) on a commutator machine

For degreasing commutators or slip rings, the use of an inappropriate solvent (or the improper use of such a solvent) may itself bring about malfunctioning of the carbon brushes. Degreasing by such a solvent would, as soon as the machine is put into service again, would modify the film (or, if the surface is new, lead to defects on the film), and generate abundant sparking which will damage the film and cause accelerated wear of the carbon brushes.

These troubles are caused by the pollution of carbon brushes and/or the atmosphere by the solvent (in particular for totally enclosed machines); they persist as long as the evaporation continues.

### 01 – CHOICE OF SOLVENT

Heavy solvents, that is to say those which are evaporated at a high temperature, are more harmful than light solvents, because for an equal volume, they pollute the machine for a longer period. Among such solvents are aromatic hydrocarbons which are derived from petroleum (for example white spirit).

The solvent shall be **dry, chlorine-free, fast evaporating** and **leave no residue**.

On the market it is possible to find commercial products for degreasing electrical machines which are either pure solvents or a mixture of two or three solvents. These products have the advantage of treating with care the varnish and insulation parts. Otherwise some dielectric solvents for degreasing electronics may also be used.

In addition to the special precautions related to operations on rotating machines with carbon brushes, it is necessary to comply with the environmental and safety measures relative to the product; therefore it is highly recommended to refer to the **instructions of use and the Safety Data Sheet (SDS)** of the manufacturer.

# Commutator Slip Ring Maintenance Handbook

**Clifford Lane**



## **Commutator Slip Ring Maintenance Handbook:**

*Electronics Maintenance Manual* United States. Coast Guard,      Technical Manual United States. War Department, 1945  
Direct Support and General Support Maintenance Manual , 1984      **Technical Manual for Crane, Mobile, Container Handling, Truck-mounted, 140-ton Capacity DED, FMC Link Belt Model HC-238A, Army Model MHE 248, NSN 3950-01-110-9224** , 1985      **Industry and Power** , 1954      Electronics Installation and Maintenance Book, Electronics Circuits United States. Naval Ship Systems Command, 1965      **Modern Railroads** , 1949      **Plant Maintenance and Engineering** , 1960      *Power House* , 1927      **Station Operating Handbook** Philadelphia Electric Company, 1921  
*Railway Mechanical and Electrical Engineer* , 1951      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1957 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December      Handbook of Technical Instruction for Wireless Telegraphists John Claybough Hawkhead, 1914      *Power* , 1929      *Industrial Power* , 1957      **Marine Engineering** , 1956      **Iron and Steel Engineer** , 1954-05      *Plant Engineering* , 1960      **Marine Engineering/log** , 1958      *Plant Management and Engineering* , 1959

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