



TIBCON[®]

CAPACITORS

CONSISTENT QUALITY | SUPERIOR TECHNOLOGY | ENERGY EFFICIENT



Tibrewala Electronics Limited
www.tibcon.net



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In the relentless pursuit towards excellence in Capacitor quality, our Company has adopted revolutionary changes in the manufacturing of Capacitors.

Our News Letter intends to make our customers aware of the changes, so that they fully understand the advantages of **TIBCON** Capacitors over the competition.

We understand that a Capacitor is the heart of any appliance or panel, and its smooth functioning and reliability are critical for optimal functioning of the appliance.



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Two of the foremost common failure modes of a capacitor are:

- ▶ Drop in capacity
- ▶ Catastrophic failure

During the past 35 years, We have relentlessly worked and designed our manufacturing processes in a way to avoid these failures and have come a long way since then.

This year, we have made huge improvements in our manufacturing technology, and further upgraded our Capacitor quality.



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Some of the key changes are highlighted as below:

- ▶ Installation of a new metallization machine
- ▶ Addition of high-tech winder
- ▶ Fully automatic wire welding and welding system
- ▶ Vacuum Drying and degassing of Capacitor Resin
- ▶ Fully Automated assembly line
- ▶ Obtained the endorsement of the world's most demanding customers
- ▶ New product line capacitors approved for use in locomotives of Indian Railways



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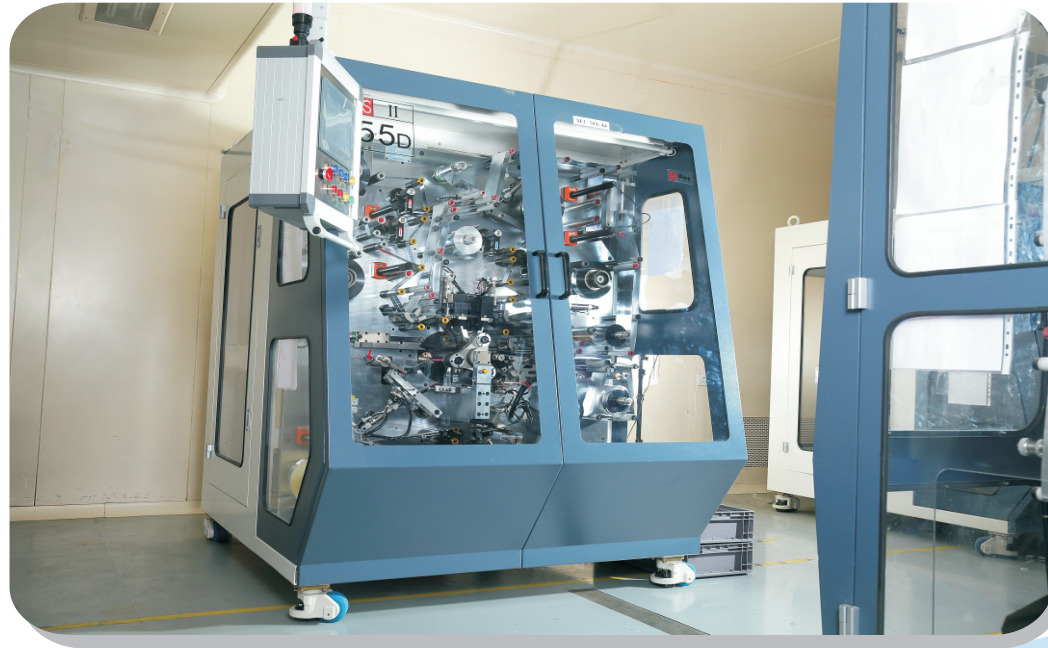
NEW METALLIZING MACHINE



- ▶ Designed to process thin films down to 1.8 micron with minimal dielectric damage during processing.
- ▶ In other words, higher voltage resistance capability in capacitor and a substantial longer life of TIBCON capacitor



LATEST HITECH WINDING MACHINE



- ▶ Extremely accurate winding and tension control system
- ▶ Significantly improved capacitor reliability



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FULLY AUTOMATED ASSEMBLY AND TESTING LINE



- ▶ Precise pressure & temperature control to minimize damage to the Capacitor during the process. Since manual systems are subjected to pressure & temperature variations.



VACUUM DRYING AND DEGASSING OF CAPACITOR RESIN



- ▶ It guarantees absence of humidity in the resin of the capacitor, thus avoiding oxidation of metallizing layers of the film. This results in no leakage from the Capacitor into the valve even during prolonged usage.



FULLY AUTOMATED ASSEMBLY AND TESTING LINE



- ▶ All Capacitors assembly and testing is done automatically, and the machine will only print those parts to avoid human error, thus ensuring customers get the BEST QUALITY from **TIBCON**





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NEW PRODUCTS AND CUSTOMERS

- ▶ Obtained approvals , permits and orders from large Multinational Companies in the United States and Europe. And these products have been highly appreciated by them.
- ▶ Consent obtained for Capacitors that are utilized in Electrical Locomotives. These capacitors require extremely high levels of Engineering and development.
- ▶ Our Quality and Production team have worked intensely to develop these capacitors that demonstrate the technical expertise & acumen of the Organization.



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- ▶ We have been approved by Indian Railways to supply Power Electronics Products for their critical applications.
- ▶ These are used in Electric Locomotives with the voltage ranging between 900v-2500v.
- ▶ TIBCON Electronics Products are the best alternatives of German and European Manufacturers, that have been approved by the industry.
- ▶ We have also developed S3 type Safety capacitors and UL Approved products.
- ▶ TIBCON developed wide range of Power Electronic products that range between 600v-2500v, that very few manufacturers developed globally.
- ▶ Segmented Film Capacitors (Fail Safe Capacitors) are specially designed for a specific/critical applications. They help avoiding capacitor explosions.



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MOST RECENT AWARDS & ACCOLADES

- ▶ Best Capacitors Manufacturing Company #TIME2LEAP National Awards-MSME -2021
- ▶ Outstanding Professional Achievement & Contribution in Nation Building-Indian Achiever's Forum-2021
- ▶ Certificate of Appreciation- Electric Merchant Association -2020



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