



LONGO VPI WITH EPOXY

... FOR THE ULTIMATE REWIND



First Electro-Mechanical Servicer in USA
Certified to ISO 9001 Quality Standards

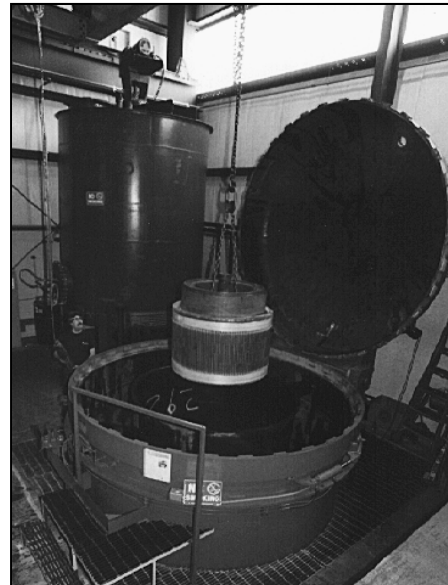
Vacuum Pressure Impregnation (VPI) yields superior results with better insulating properties, combined with “flexible” rigidity, resulting in greater overall reliability and longer life. VPI reduces coil vibration by serving as an adhesive between coil wires, coil insulation, and by bonding coils to their slots.

Features and Benefits:

- *State-of-the-art process for completely penetrating air pockets in winding insulation.*
- *Increases voltage breakdown level. (Even under water!) NEMA MG1-20.49.1*
- *Proven submergence duty system*
- *Improved heat transfer- windings are cooler, efficiency is improved.*
- *Improves resistance to moisture and chemicals.*
- *Increases mechanical resistance to winding surges.*
- *More value from LONGO!*

Applications:

- All critical machines
- Equipment exposed to frequent surges/starting
- Harsh or moist environments
- Motors that run at service factor



*Our 10 ft diameter vessel in operation.
[The largest VPI tank in the Northeast.]*

Method of Operation:

As its name indicates, this is a vacuum and pressure process - with rigorous controls. The installed winding consisting of “green” (untreated) coils is preheated, then put into the Vacuum Pressure Impregnation vessel. A vacuum cycle of prescribed timing and typically 1-2mm (Hg) vacuum is drawn. Then Longo's proprietary* solventless epoxy resin is introduced, submerging the windings. The high vacuum is held for a time proportional to volume. Next the tank is pressurized for an hour at 90 p.s.i., forcing the epoxy into all voids.

**Our unique resin is custom blended to LONGO's Engineering specification*



LONGO

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Since 1945