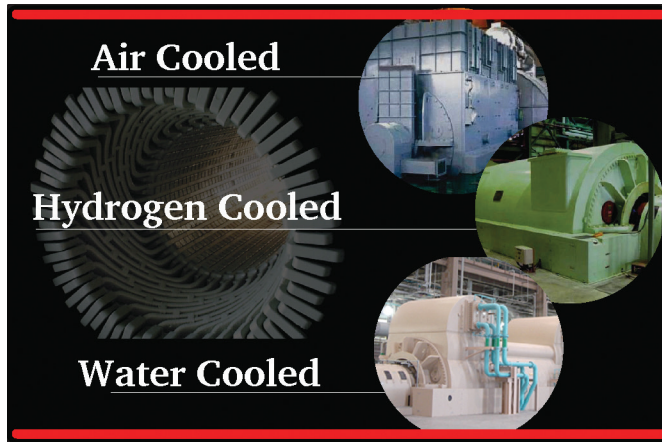


MITSUBISHI HITACHI POWER SYSTEMS "DROP-IN" GENERATOR REPLACEMENT SOLUTIONS

Cost Effective Life Cycle Alternatives to Major Rotor and Stator Repairs



- Restart Life Cycle Clock with State of the Art Technology
- Improved Reliability, Availability and Maintainability (RAM)
- Increased Power Density for Fixed Footprint
- Increased Efficiency – Improved Plant Heat Rate
- Re-Use, Modernize, or Upgrade Auxiliary and Excitation Systems

Advanced, State of the Art Generator Technology

Stator Design Features:

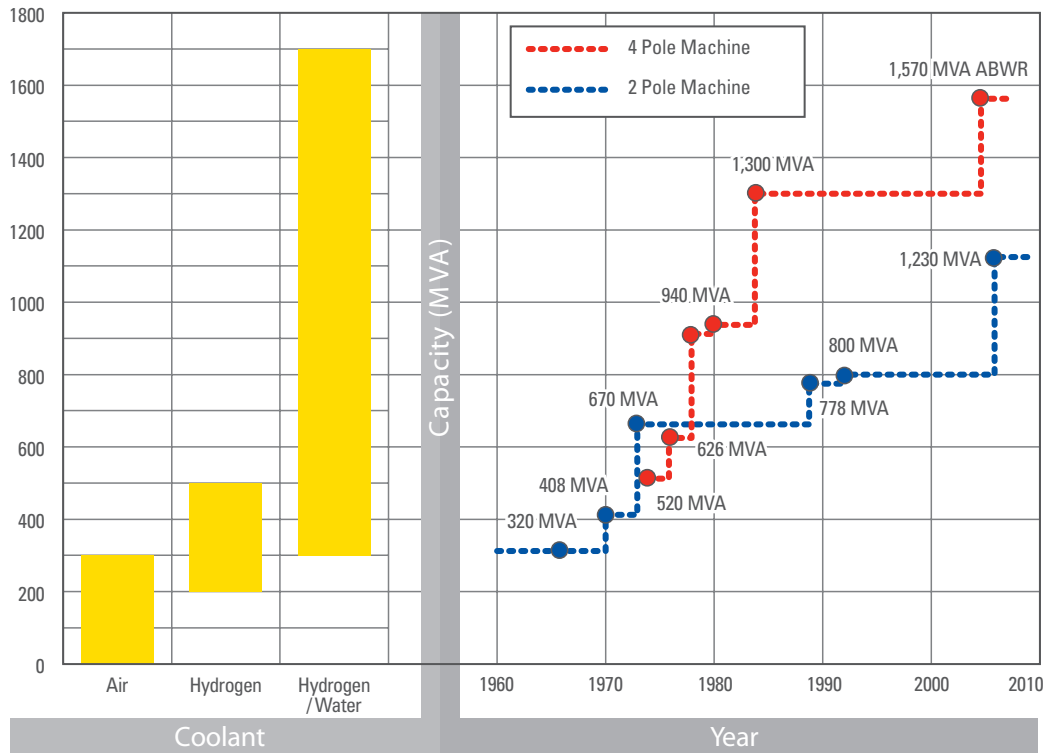
- Unequal Top/Bottom Bar
- Mixed Bar Strand
- Class F Insulation Systems with Class B Temperature Rise
- Optimized Core
- Tetra-lock End Winding Support System
- Consolidated Coil End Structure
- Stator Bar Top Ripple Springs
- 540° Roebel Transposition

Field Rotor Design Features:

- Direct Cooled Coil & Field Leads
- Diagonal Coil Cooling Configuration
- Body Mounted Retaining Rings
- Gusset-less End Coil Turns
- Monoblock, Boreless Rotor with Integral Coupling
- Class F Insulation Systems with Class B Temperature Rise

Mitsubishi Hitachi Power Systems - Diverse Products with Proven Experience

- 50+ Years of Manufacturing Experience
- Support Wide Range of Applications – 200 to 1570+ MVA
- >1000 Generators World Wide
- Cooling Applications – Air, Hydrogen and Hydrogen/Water Cooled



Replacement Solutions for Wide Range of Generator Applications

Optimized Design Solutions to Meet Your Application Requirements

- Match Existing Foundation
- Re-Use, Modernize, or Upgrade Auxiliary and Excitation Systems
- Supports Prime Mover Upgrades
- Solutions for Steam and Gas Turbine Applications

MD&A Generator Installation, Services & Repair Solutions

- Turnkey Installation for “Drop-In” Major Components and Generators
- Comprehensive Testing and Repair Services Including Full/Partial Stator and Field Rewinds
- Repair and Replacement of High Voltage Bushings

MECHANICAL DYNAMICS & ANALYSIS

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