

TECHNICAL BROCHURE

3381 NW 168th street Miami Gardens, FL 33056 USA TEL: +1 305 592 3473 INFO@RCG-USA.COM SPARES@RCG-USA.COM

TABLE OF CONTENTS

1. Maintenance Work

- Propulsion Systems
- Rotating Machines
- Switchboards
- Dry Ice Cleaning
- Alignment, coupling dismantling/assembly
- · Chocking of equipment
- Motor Rewind

2. Special Tests

- Vibration Analysis
- Thermography Survey
- Rotating Machines Electrical Tests

3. Cabling Work

- AVR cabling and system upgrade
- Cabling of new ballast system water treatment

TABLE OF CONTENTS

- 4. Piping Work
- 5. Load Sharing / Shore Power
- 6. Structure Modification, Calculation, Welding, Testing
- 7. In-House Modeling and Structure Design using 3D software
- 8. Shrink Fit / Extraction for Coupling, Exciter, Fan
- 9. Heavy Lifting / Special Projects
 - Replacement of propulsion motor stator
 - Propulsion Motor Dismantling: Complete Project
- 10. Common Issues Requiring Intervention
 - Thruster Issues and Repairs
 - Generators
 - PEM
 - Transformers

Propulsion Systems





Rotating Machines





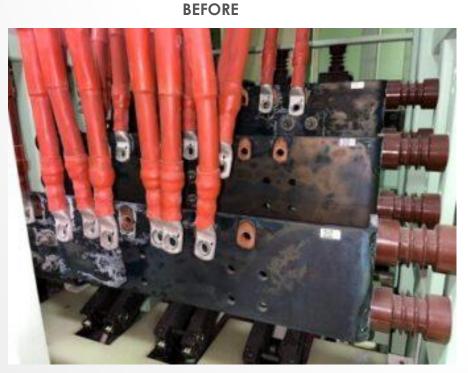
Switchboards



Dry Ice Cleaning

Removes oils, grease, inks, films, mold & more. Ideal on Electrical and power generation equipment as it does not use any chemical, water or particles that could damage electrical components.

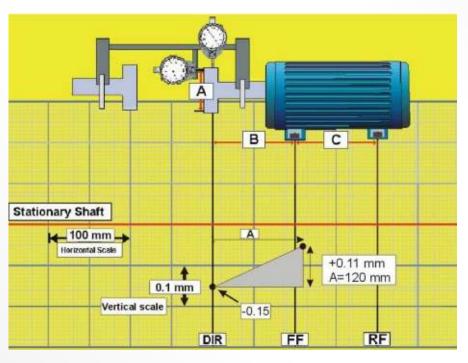






Alignment, coupling dismantling/assembly





Chocking of Equipment

Our technicians are Chockfast® Certified. Our Chock calculations follow the general guidelines for marine chock designers (TB 692G). The chock calculations are used to make sure that an engine is precisely aligned.

NOTE: For details, download our "Chocking of Equipment" brochure on our website.

Motor Rewind





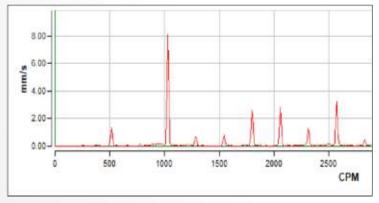


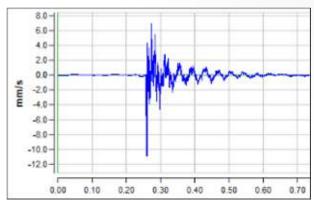
NOTE: For details, download our "Motor Rewind" brochure on our website.

SPECIAL TESTS

Vibration Analysis

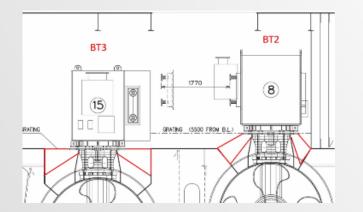




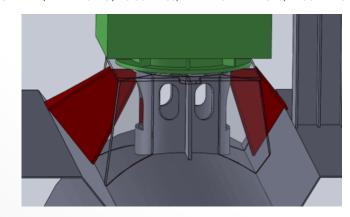


LEVELS OF VIBRATIONS RMS

FFT ANALYSIS, IMPACT TESTING: DETECTION OF MAIN ISSUE: ALIGNMENT, BALANCING, LOOSENESS, BEARING DAMAGES, RESONANCE

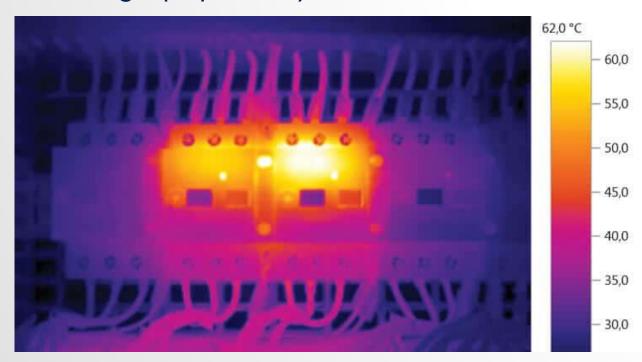






SPECIAL TESTS

Thermography Survey



SPECIAL TESTS

Rotating Machines Electrical Tests



CABLING WORK

AVR cabling and system upgrade





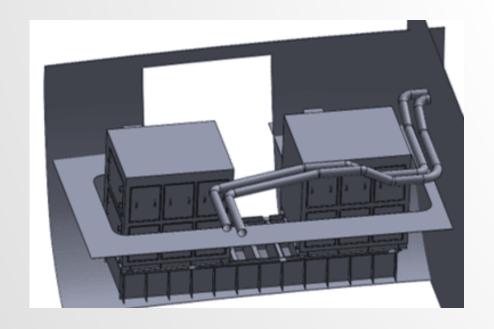
CABLING WORK

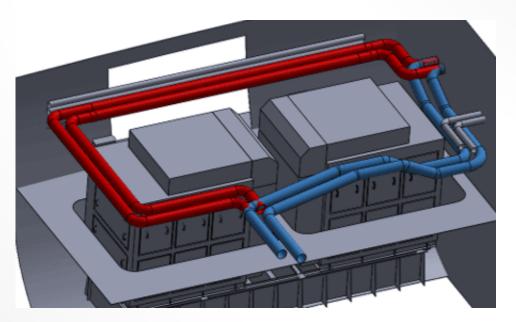
Cabling of new ballast system water treatment



PIPING WORK







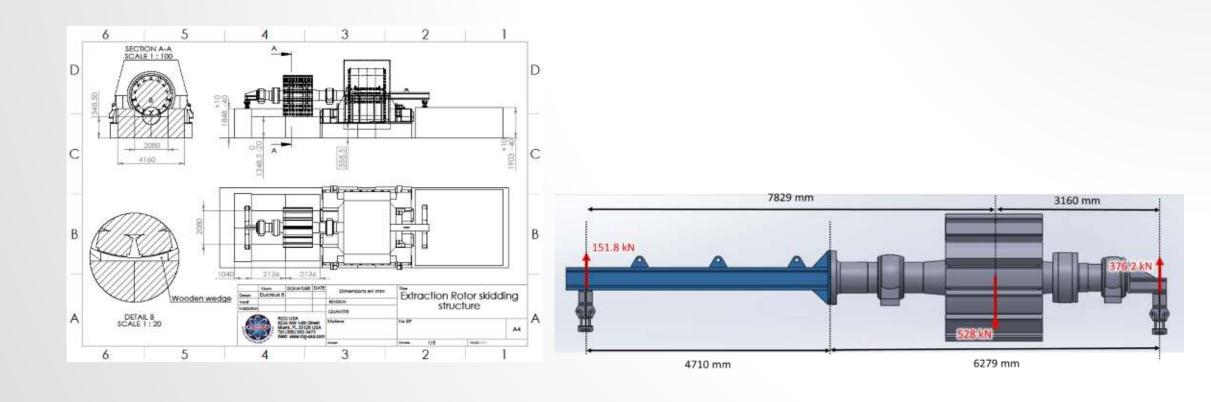
LOAD SHARING / SHORE POWER



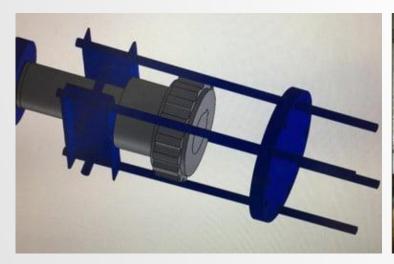
STRUCTURE MODIFICATION, CALCULATION, WELDING, TESTING

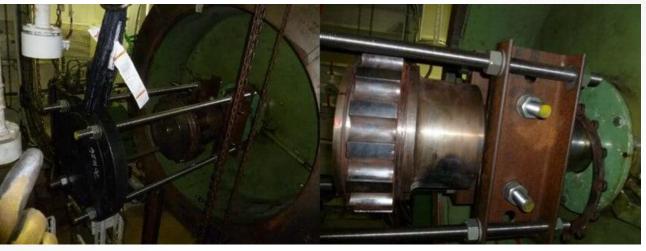


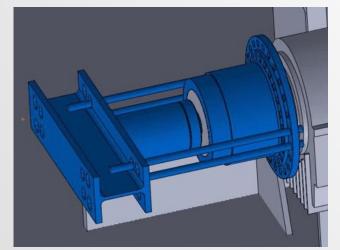
IN-HOUSE MODELING AND STRUCTURE DESIGN USING 3D SOFTWARE



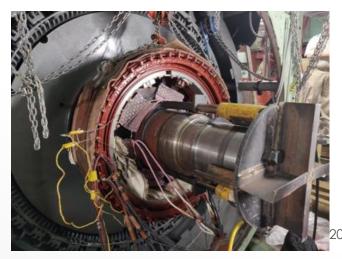
SHRINK FIT / EXTRACTION FOR COUPLING, EXCITER, FAN





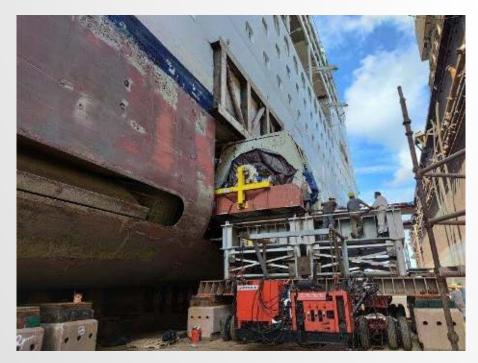






HEAVY LIFTING / SPECIAL PROJECTS

REPLACEMENT OF PROPULSION MOTOR STATOR





NOTE: For details, download our "Propulsion Motor Dismantling" brochure on our website.

COMMON ISSUES REQUIRING INTERVENTION

- Thruster Issues and Repairs Generators
- PEM
- Transformers



NOTE: For details, download our "Common Issues Requiring Intervention" brochure on our website.