



Great Lakes Dock & Dredging Co.

On-going project work over a period of 24 months working on the overhaul and rewind of many machines within the GLDD fleet including the Ohio & Carolina working out of the Middle East branch.

Customer Profile

Headquartered in Illinois, U.S.A, GLDD operates on every domestic coastline and many international markets including Bahrain, Qatar and Brazil. They lead a diverse dredge fleet consisting of two primary dredgers, the Ohio & Carolina, in addition to numerous support vessels, barges and booster sets.

Service Opportunity

GLDD enlisted dm+ to assist with the overhaul and rewind of numerous machines including:

- 2400HP Cutter Motors;
- 100HP Ladder Motors;
- 3125KVA 4160V Alternators;
- 1000HP Ladder Pump Motor and
- GE DC Generator Set

In addition to the above, dm+ also carried out extensive alignment and vibration analysis to all newly installed equipment.



Utilising stock specifically held for GLDD we were able to carry out a full HV stator rewind, 2400HP armature rewind, 2400HP series winding rewind, DC generator armature rewind repair of heat exchanger and overhaul and rewind of smaller ancillary equipment on-site and complete the work with minimal disruption to GLDD's operations.

Upon completion of work, all parts were tested using the dm+ test facilities to ensure repairs and maintenance had been completed to the highest standards and that the equipment was once again operating at maximum efficiency.





Speaking on behalf of GLDD, Jacques Coetzee, Electrical & Instrument Superintendent commented

"Since Great Lakes Dredge and Dock Company started using Davis & Mills for repairing and servicing their electrical machines, a significant decrease in premature failure are noticeable. Machines that have been serviced and repaired by dm+ range from DC Motors (EMD D32, GE567 and GE752), Synchronous generators (EMD AB20-T24, Caterpillar and Kato), GE GT-569 DC generators and various types of three phase induction motors.

The EMD D32 DC machines are modified from slip ring alternators which makes it difficult to work on or troubleshoot since the custom modification to each one is different. dm+ invested considerable effort and time on our behalf in evaluating these unique machines and subsequently servicing them to ensure that they all operate at optimum efficiency.

dm+ takes pride in their work and will go the extra mile to ensure that the customer is satisfied with their workmanship. The various services that dm+ provide, such as vibration analysis and laser alignment, makes it convenient and reduces downtime.

dm+ in Bahrain has quickly become well-known at the GLDD head office in the USA for their superb service and quality of work."

Please contact Martin Stratford, General Manager of dm+ to discuss your needs in respect of the repair and maintenance of generators, motors, and associated equipment, or alternatively, visit our [website](#) for more information.

Why choose dm+?

dm+ offers unrivalled technical expertise and service in the repair and maintenance of rotating equipment.

Serving the electro-mechanical repairs market with a combined experience in excess of over 100 years, our management team and engineers have experience working in some of the most advanced industries including: Petrochemicals, Oil & Gas, Power, Water, Aluminium, Steel and Transportation.

Located in close proximity to the Eastern Oil Fields of KSA in Askar, Bahrain, we are ideally located to serve all markets within the Middle East including Kuwait and Qatar. Our 2000m² facility is fully equipped with the latest equipment in the industry, capable of servicing all components including generators, alternators, motors, electrical brakes, pumps and fans.

In addition to heavily investing in our facility and equipment, we are quickly building a reputation within the industry for our outstanding levels of service. We understand the impact that asset uptime can have on your business which is why we are dedicated to providing fast reaction times, clear communication updates throughout the repair process, rapid turnaround and, most importantly, a quality repair or service.

And finally, we recognise the importance of safety. Our engineers are accredited by the AEMT and Loughborough College, Great Britain to the requirements of IEC (International Electrotechnical Commission) / EN 60079-19:2011 - Explosive atmospheres and we implement the highest standards of Quality, Health & Safety, Environmental Management Systems, Technical, Process and Insulation Specifications, so you can rest assured that your equipment will not only perform well, but it will perform safely.