



ARCTIC CRANE ASSEMBLY

Cropac, SGP Repairs and Tadano work together to assemble a GR350XL-3 Rough Terrain Crane in Nunavut

Cropac Equipment facilitated the sale of five Tadano Rough Terrain Cranes in early 2023 for deployment in Northern Canada's Nunavut and Northwest Territories regions. Recently, SGP, in collaboration with Cropac Equipment and Tadano, was tasked with assembling one of these cranes, specifically the GR350XL-3 model.

Encountering significant challenges, SGP in coordination with Cropac Equipment, have successfully completed the project, meeting the expectations of the client through our collaborative efforts. To provide context, the decision was made by the customer to disassemble the crane at Yellowknife airport and transport it to the designated site via a Hercules transport plane. Subsequently, SGP was engaged to reconstruct the crane on-site to restore its operational functionality.



Upon arrival at the location, it became apparent that the crane components had been exposed to the elements for approximately two months, resulting in snow covering everything.

Working closely with Tadano America Corporation and Cropac Equipment, SGP devised a comprehensive plan to efficiently complete the task at hand.





What should we do?

Given the challenging conditions and the need to assemble the crane in a remote and harsh environment, our primary objective is to efficiently and safely reconstruct the crane to operational status. This involves meticulous planning, coordination, and execution to overcome the logistical hurdles presented by the extreme cold and remote location.

How do we do it?

To achieve our goal, SGP first assessed the condition of the crane components and the site. We will then devise a detailed plan for the assembly process, taking into account factors such as the freezing temperatures and the rugged terrain. Effective communication and collaboration among all stakeholders will be essential throughout the project.



Next, SGP mobilized the necessary equipment, personnel, and resources to the site. Despite the adverse weather conditions, all parties leveraged our expertise and experience to efficiently assemble the crane while prioritizing safety protocols.



What resources and parts do we need?

SGP would require a comprehensive inventory of crane parts, tools, and equipment necessary for assembly. This may include hoisting machinery, lifting devices, fasteners, and protective gear suitable for extreme cold conditions. Additionally, SGP needed vehicles capable of navigating the challenging terrain and transporting the assembled crane to its final location.

Furthermore, SGP would need skilled personnel with expertise in crane assembly and operation, as well as support staff, to assist with logistics and site management.


Despite the freezing cold conditions (-40 to -50 Celsius every day) and the difficulty of the area, we all joined forces to get the job done.


Finally, the customer's crane was assembled and then tested to ensure it met all applicable standards.


Thanks again to SGP for their incredible work throughout this adventure.



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