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GENIE® Z®-45 XC™ BOOM TAKES ON TOUGH ANTARCTIC MISSION

Specially adapted rough terrain Genie® Xtra Capacity™ (XC™) boom supports long-term British Antarctica Survey construction project in extreme conditions

ROOSENDAAL, THE NETHERLANDS (18th March 2020) – On the highest, driest, coldest and windiest continent on Earth, Antarctica, construction projects are an extraordinary challenge that mandate the use of robust, reliable machinery. This is how Netherlands-based Authorized Genie® Distributor HDW came to provide its customer Royal BAM Group (BAM) with a custom-tailored Genie Z®-45 Xtra Capacity™ (XC™) boom lift to support the needs of the British Antarctica Survey (BAS) and partners NERC, SWECO and Rambol.

Supporting world-class science for the next generation, the BAS research mission will be led over a period of seven to 10 years. Delivered to Antarctica in January 2019, the Genie Z-45 XC boom lift is scheduled to remain onsite for five years to assist in wide range of tasks. These notably include the expansion of mooring facilities for the new RRS Sir David Attenborough polar vessel, the extensive modernization of the Rothera Research Station — the UK's most important Antarctic hub — and the improvement of facilities and working conditions at other BAS research stations in the area.

While research at the station continues all year round, even at -60° C (-91° F), due to the extreme wind and cold, work with machines can only take place during the summer from October to February when temperatures rise to a relatively bearable -15° C (-59° F). As longstanding HDW customers, BAM relied on its partners' recommendation: The Genie Z-45 XC boom.

As Wilco Donkersloot, Account Manager, HDW explains, "The Genie Z-45 XC boom lift combines the advantages of rough terrain performance and increased lift capabilities, allowing up two people with more materials and tools in the platform. This is a strong productivity benefit that — for a mission where work can only get done five months in the year — made this model perfect for the job."

He continues: "Naturally, the unit required a number of modifications to adapt to Antarctica's extreme conditions. Among others, we chose a gel battery that is more resistant to freezing temperatures and has a longer lifespan. The standard battery pack was replaced by a more powerful battery offering a peak capacity of 1100 Cca that we connected to a trickle charger to ensure that the maximum battery power would always be guaranteed. We also installed a 110 V heating system for the oil sump and hydraulic tank heating elements to keep the engine oil and hydraulic oil at the right temperatures."

During its 5-year mission, the Genie Z-45 XC boom will be hard at work, running up an estimated 2,000 machine hours in total. "Planning ahead, we made sure that BAM were provided with ample spares for maintenance as well as parts to repair critical breakdowns that will be useful when the time

comes,” says Donkersloot. He concludes: “The machine was delivered just over a year ago, so it’s still early days, and communications with the research station are difficult to say the least. However, for the moment, we are delighted to say that the last we heard from BAM is that their Genie Z-45 XC boom is running reliably and work is proceeding as scheduled.”

Offering a maximum working height of 15.87 m (51 ft 6 in), a maximum horizontal outreach of 7.55 m (24 ft 9 in) and a maximum up-and-over clearance of 7 m (24 ft 5 in), the Genie Z-45 XC boom is the redesigned Xtra Capacity (XC) version of the popular rough-terrain Genie Z-45/25 J RT diesel-powered articulating boom. Thanks to its dual-envelope design and lift capabilities of 300 kg (660 lb) unrestricted and 454 kg (1,000 lb) restricted, this machine provides the ability to lift two people with their tools and materials in the platform, increasing productivity on a wide range of heavier lifting tasks on construction and industrial jobsites.

For more information about Genie products and services, visit www.genielift.com.

PHOTO & CAPTIONS

Genie Z-45 XC HDW Antarctica_1.JPG – Ice surrounding the engine before using the machine for the first time after winter.

Genie Z-45 XC HDW Antarctica_2.JPG – Snow blown in by strong arctic winds under the engine cover.

Genie Z-45 XC HDW Antarctica_3.JPG – Warming up time

Genie Z-45 XC HDW Antarctica_4.JPG & Genie Z-45 XC HDW Antarctica_5.JPG – Genie® Z®-45 XC™ geared for work on rough terrain.

About Royal BAM Group nv

Royal BAM Group NV is a construction firm with ten operating companies in five European home markets and in niche markets worldwide. BAM’s operating companies are active in the business lines of Construction and Property, Civil engineering, as well as in Public-private partnerships. BAM’s European home markets are the Netherlands, Belgium, the United Kingdom, Ireland and Germany. The Group also delivers projects in Denmark, Luxembourg and Switzerland backed by approximately 20,000 employees through a widespread network of offices, close to its clients. BAM is a listed company at Euronext, Amsterdam. It is BAM’s mission to build sustainable environments that enhance people’s lives by enabling the right people to capitalise on state-of-the-art knowledge, resources and digital technologies, providing solutions across the total construction life cycle for the Group’s clients and generating maximum value for its stakeholders. BAM’s vision and unique culture are underpinned by four values, which are guiding for the people of BAM. These values are predictable performance, scalable learning, proactive ownership and open collaboration. For further information about BAM, visit the company website: www.bam.com

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About Terex

Terex Corporation is a global manufacturer of lifting and material processing products and services delivering lifecycle solutions that maximize customer return on investment. Major Terex brands include Terex, Genie and Powerscreen. Terex solutions serve a broad range of industries, including construction, infrastructure, manufacturing, shipping, transportation, refining, energy, utilities, quarrying and mining. Terex offers financial products and services to assist in the acquisition of Terex equipment through Terex Financial Services. More information about Terex is available on its website: www.Terex.com, and on its LinkedIn page -- www.linkedin.com/company/terex and Facebook page -- www.facebook.com/TerexCorporation