­NEWS RELEASE

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**Manitowoc MLC100-1 racks up 2,500 faultless hours on tunneling project**

* *U.S.-based Triad Engineering & Contracting used the lattice-boom crawler crane for months on end, working double shifts with no issues.*
* *Everyone in the company is impressed with the MLC100-1’s performance: from the president to managers and operators.*
* *The MLC100-1’s line speed, capacity and reliability make it the perfect crawler crane for contractors needing a dependable machine.*

On tunneling projects there are two critical pieces of equipment: One is the tunnel boring machine, the other is the crane. If either of them goes down, the job effectively comes to a standstill. So, when Triad Engineering & Contracting (Triad) had to select a crawler crane for a large tunnel build there was only ever really one choice: Manitowoc.

The company received its Manitowoc MLC100-1 in August 2019 and immediately set it to work on the London Road Relief Sewer project, situated on the east side of Cleveland, Ohio. Operating continuously over two shifts a day, the machine notched up 2,500 hours of faultless operation within its first 12 months.

Cliff Kassouf, president of Triad, said the consistent performance of the MLC100-1 helped his company complete the project ahead of schedule.

“When Manitowoc introduced the MLC100-1 it was exactly what we were looking for,” he said. “We needed it to work across two shifts continuously for a period of several months, so reliability and efficiency were always going to be important. It completed a 6,600 ft tunnel without a single issue, which is so rare. Typically, any machine will have an issue at some stage but this thing never stopped. To have a machine operating that dependably across two shifts for so long is huge. In the end, we mined the 6,600 ft tunnel section ahead of schedule.”

The London Road Relief Sewer project forms part of the Northeast Ohio Regional Sewer District utility. It’s formed of a three-pronged network of relief sewer tunnels, leading down to a drainage structure that connects to a nearby water treatment plant. Much of the work for the crane involved removing excavated material from the tunnel. This was transported from the tunnel boring machine via an underground rail system to the access shaft, where the crane sat above ground.

The MLC100-1 removed each rail car of excavated material, with between five and six cars per train and each weighing around 16,000 lbs. Once emptied, the MLC100-1 replaced the rail cars back down the 60 ft shaft so they could be used for the next load, cycling through 50 to 60 cars per shift. The crane worked continuously, covering the shifts that started at 6:30 a.m. and didn’t stop until midnight.

**Smooth operation, precise controls**

The MLC100-1 is a 110 USt capacity crane that can be equipped with up to 200 ft of main boom and has a 60 ft fixed jib attachment. Power for the unit comes from a 300 hp Cummins 6.7 l Tier 4 Final engine which helps deliver its impressive load moment of 2,680 ft-kips. Operators are also able to adjust the controls to suit the task at hand, and this is another feature that helped the sewer project run smoothly, according to Cliff Kassouf.

“The line speed, line pull and precision of controls were all important factors when we were looking for a crane,” he said. “We can calibrate the controls on the MLC100-1 to regulate the speed at which we lower something…get it down to small increments so it’s accurate, then speed it up when we need to move faster. Putting the crane together is pretty quick and efficient, and fuel consumption has improved. There are a lot of benefits with this new machine.”

The self-assembly system of the MLC100-1 allows for full set-up without the need for an assist crane. Like most current generation cranes from Manitowoc it has the company’s Crane Control System for a familiar cab layout and easier interchangeability of parts. The widebody cab also offers operators a 10% increase in legroom compared with previous models which meant that despite the demanding nature of the work, the MLC100-1 was a hit with the operators on the job, according to Rick Chipka, equipment manager with Triad.

“Our operators liked it a lot. It’s convenient and comfortable to operate,” he said. “Also, our mechanics were working with the team from our local Manitowoc dealer, Cleveland Crane & Shovel, to make sure everyone understood the computers and controls. The guys at Cleveland Crane & Shovel worked around our schedule on the project, so it didn’t impede our progress. This crane has done really well for us — it really has.”

Triad purchased its MLC100-1 through Andrew Forepaugh, vice president of sales at Cleveland Crane & Shovel. “I would like to thank Cliff Kassouf and Rick Chipka and the rest of their team members for putting trust in Cleveland Crane & Shovel and Manitowoc to meet their needs in this demanding business requirement,” Forepaugh said.

Triad is a tunneling specialist, founded in 1987 and operating out of facilities in Cleveland, Ohio and Charleston, South Carolina. Cleveland Crane & Shovel, based in Bedford Heights, Ohio, is one of the oldest Manitowoc dealers in the U.S. The company provides sales and support services for both Manitowoc crawler cranes and Grove mobile cranes, and is a certified Manitowoc Crane Care Elite partner.

For detailed information on the Manitowoc MLC100-1, click [here](https://www.manitowoc.com/manitowoc/lattice-boom-crawler-cranes/mlc100-1).

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The Manitowoc Company, Inc. (“Manitowoc”) was founded in 1902 and has over a 117-year tradition of providing high-quality products and support services that are tailored to customers’ needs. Its 2019 net sales were approximately $1.83 billion. Manitowoc is one of the world's leading providers of engineered lifting solutions. Through its wholly-owned subsidiaries, Manitowoc designs, manufactures, markets and supports comprehensive product lines of mobile telescopic cranes, tower cranes, lattice-boom crawler cranes, boom trucks and industrial cranes under the Grove, Potain, Manitowoc, National Crane, Shuttlelift and Manitowoc Crane Care brand names.

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