

■ **In-Depth** Coverage of Products, Technologies & Trends for Lifting Equipment Professionals

# LIFT *and* ACCESS™

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[LiftandAccess.com](http://LiftandAccess.com)

## Earning High Marks

Rotos Get Accolades at School Project



## World's Tallest Rotating Telehandler Delivered in U.S.

Magni America recently delivered the first RTH 6.51 rotating telehandler in the United States to Adams European Contracting, Brooklyn, New York.

The RTH 6.51 has a maximum lifting height of 167', the highest of any rotating telehandler in the world.

The RTH 6.51 can lift up to 13,200 lbs. and reach horizontally as far as 113'.

With delivery of the RTH 6.51, Adams European Contracting now owns six Magni rotating telehandlers.

Adams recently used its new RTH 6.51 for maintenance and restoration of P.S. (Public School) 333 in Manhattan. Limited space on the jobsite made it almost impossible for Adams to bring in a crane, making the Magni's tight footprint and extreme lifting height the best solution.

"We chose Magni because no competitor can get to these heights and lifting capacities," said Angelo Curto, director of operations for Adams European Contracting. Curto added that the Magni is replacing several other pieces of equipment on the site. "Overall, it saves me a lot of money," he said.



Established in 1994, Adam's European Contracting specializes in exterior renovation for public agencies of New York City.

[www.magnith.com](http://www.magnith.com)

## Xtreme Opti-Clean Cube is Disinfecting Station

SR Construction, of Las Vegas, is leading the fight against COVID-19 by being the first company to use the Xtreme Opti-Clean Cube.

Produced by Xtreme Cubes Corp., one of the Ahern family of companies, Henderson, Nevada, the Xtreme Opti-Clean Cube is a modular walk-through station designed to combat the spread of bacteria and viruses, including the novel coronavirus that causes COVID-19.

Partnering with environmental technology company Proguardium Corp. and with Maddox Defense, which provides human decontamination solutions, Xtreme Cubes has built the first mobile walk-through structure made in the U.S. with an unobtrusive dry-mist system of Proguardium solution that is safe on skin and clothing, and which requires no protective equipment to be worn.

Xtreme Opti-Clean Cubes are designed to be used at entrances and exits to project sites. SR Construction, a full-service design-build general contractor, ordered three Xtreme Opti-Clean Cubes when it previewed the concept in May.

The first unit was delivered to SR Construction July 13 and was deployed immediately at a medical center in Las Vegas, where the SR is building a five-story patient tower.

SR Construction employees, trade partners and site visitors walk through the XOCC as they enter and exit the jobsite, helping minimize the risk of infection on the project.

Motion sensors tell the Xtreme Opti-Clean Cube to apply Proguardium as a person walks through. Each cube measures 8' wide by 12' long and has forklift pockets for easy relocation. The cube can also be a permanent addition to a building. One option is a thermal camera for taking temperatures.

[www.xtremecubes.com](http://www.xtremecubes.com)



## TireSocks Now Offers FaceSocks Masks

TireSocks Inc. has launched FaceSocks to help meet industry's need for effective and comfortable face coverings.

The Englewood, Colorado, company is well known for designing and manufacturing tire covers that help prevent scuffing, absorbent pads that soak up fluid leaks, and many other products for the access and material handling industries.

TireSocks has repurposed part of its manufacturing facility to produce FaceSocks.

FaceSocks are non-medical face protection for the construction industry and everyday indoor and outdoor activities, including travel. They are made from two-ply athletic fabric for effective protection and a soft, comfortable fit. They eliminate ear loops by mounting with Velcro straps that connect to each other behind the wearer's head.

Since one size fits all, users don't have to stock multiple sizes. The reusable masks can be machine washed.

[www.tiresocks.com](http://www.tiresocks.com)



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# A+ at School



◀ A Magni RTH 6.39 SH rotating telehandler used its 128' boom to handle brick and mortar to masons working at heights to six stories.

## Vital Roles for Rotating Telehandlers

Three area contractors working on the project are relying on Magni rotating telehandlers rented from Empire Crane Co. to keep their portions of the project moving effectively and efficiently.

The three contractors are Lighthouse Masonry Inc., New Bedford, Massachusetts; Marguerite Concrete Inc., Hopedale, Massachusetts; and Select Demo Services LLC, Salem, New Hampshire.

Empire Crane CEO Luke Lonergan says that three of the many benefits a Magni rotating telehandler delivers are long reach, excellent capacity, and the versatility to handle many tasks, thanks to optional attachments like forks, jibs, hooks, baskets, and winches.

The work of the three contractors on Somerville high school demonstrates those advantages, and more.

## Cost-Effective Reach

Lighthouse Masonry is renting a 2020 Magni RTH6.39 SH for its work on the Somerville job. The rig offers 13,200-lb. maximum capacity and 127'7" maximum lifting height, along with the standard 47" forks.

Lighthouse is responsible for all of the blocking sides, concrete block, brick, granite, and cast stone, as well as some historical restoration. The company is doing a lot of the work with its own vertical-mast forklift, since it can reach the lower levels to feed the masons the materials they need.

One key part of Lighthouse's work, however, is building the six-story-high stairwells. For that part of the project, Josh Alves, Lighthouse's general field operations manager, rented the Magni RTH6.39 SH rotating telehandler for its full 127'7" vertical reach.

The rectangular stairwells are first built by laying block. Then, the stairs and windows are installed and waterproofed. Finally, Lighthouse dresses the exterior by laying brick all the way to the top.

To do that, says Alves, "The masons

## Three Magni rotating telehandlers score top marks for performance and economy in high-school construction.

By Jayna Meshram

**T**he city of Somerville, Massachusetts, is building a much-needed new high school. The existing Somerville High was several decades old, had structural issues, and lacked proper insulation.

The new high school, being built in three phases on the same site, will be

state of the art and serve as a premier community resource for decades to come. The new school is expected to accommodate up to 1,590 students, 353 more than the old one.

Demolition of the old building began in 2018. The new high school is scheduled for completion in May 2021.

work from scaffolding, and the Magni feeds them all day long: mortar then brick, mortar then brick, mortar then brick.”

A tub of mixed mortar weighs about 3,000 lbs. and a “Q” of 72 blocks on a standard pallet weighs about 2,200 lbs. To lift the relatively heavy loads up to six stories high, the operator sets the Magni up about 20’ from the scaffolding to make best use of the telehandler’s lifting capability.

Alves chose the Magni rotating telehandler because it was the most cost-effective tool for the job. “Comparing the cost to rent a crane for the number of days we would’ve needed it in order to get the brick up and down, with the cost of renting the Magni for a whole month, it just made sense to rent the telehandler,” said Alves.

### Productivity

Marguerite Concrete is renting a 2018 Magni RTH6.30 SH for its part of the Somerville High School project. It offers 13,200-lb. maximum capacity, 97’9” maximum lifting height, and a 6-ton capacity hook.

Marguerite is responsible for all of the foundations and gang form walls. That includes erecting panels lifted by the 6-ton hook using 2-way chains, as well as flying in reinforcing steel. The largest panels weigh about 1,600 lbs., and the reinforcing steel weighs about a ton.

Matt Lahtinen, superintendent at Marguerite, sees many ways the Magni rotating telehandler is speeding up his team’s performance.

One is its camera system. All Magni telehandlers have one camera at the rear and one on the boom tip. Since Marguerite’s work requires regularly placing loads in blind spots, Lahtinen finds the boom-tip camera particularly valuable. He said, “If you go over a wall, the camera helps you gauge how much further you need to go, and with it, you don’t need a guy flagging.”

The Magni also speeds up operation through fast setup and teardown. “A Magni doesn’t require any jib swinging or counterweight removal, like a crane, so we save in both setup and breakdown time,” said Lahtinen. “The Magni takes only 15 minutes.”



◀ A Magni RTH 6.30 SH rotating telehandler delivers a pallet of drywall into the building.

Besides boosting speed, the Magni roto also boosts safety. Its LMI automatically acknowledges the connected attachment and picks the appropriate capacity chart.

“I really like that the computer gives you your maxes and tells you how much further you can go before reaching the limit,” said Lahtinen.

### Savings

Like Marguerite Concrete, Select Demo Services is renting a 2018 Magni RTH6.30 SH from Empire for this job.

Select Demo is responsible for keeping the site clean and well maintained.

Its work includes removing trash, doing general maintenance, and lifting stock materials like pipe and steel. They’ve even lifted 11,000-lb. JLG mobile elevating aerial work platforms (MEWPs) into the building.

In addition to the standard 42” forks for the telehandler, Select Demo also rented a 9’ Magni jib from Empire. Select Demo uses the jib to handle longer items. They center the longer loads on a strap and have crew members use tag lines to help with positioning.

Because of the variety of work Select Demo is doing, it sees a wide range of load weights and lifting heights.

Select Demo rented the Magni rotating telehandler because it was the only machine with the reach to get to the top floors and, according to labor steward Dave McCarthy, “It was half the price of renting a crane. If you rent a crane, you have to pay an operator

and guarantee pay for 40 hours. That cost is just astronomical.”

McCarthy explained that the rotating telehandler can easily drive around the entire building and also has the advantage of being operated under a forklift license.

Empire’s Lonergan noted that the Magni’s remote control can also sometimes save users money because it can let the operator run the telehandler from the place where the load is being set, eliminating the need for a signal person.

Select Demo’s McCarthy said the ability to rotate the turret saves a lot of time. “I sit in one spot and can swivel to and from the building,” he said. “It’s so quick and easy.”

McCarthy often unloads materials right from the delivery trailer into the building. “I can unload a trailer in a quarter of the time it would take me in a traditional forklift,” he said.

Magni production started in January 2013, so the product is still relatively new to the construction industry.

Justin Melvin, general manager at Empire Crane’s New England branch in Holbrook, Massachusetts, said, “Seeing three Magnis, used in different ways on the same jobsite really shows the versatility of the machine. Our customers love them because it meets their lifting needs, saves money, and gets the job done faster.” ■

*Jayna Meshram is a sales and marketing associate at Empire Crane Co., North Syracuse, New York. She can be reached at jayna@empirecrane.com.*

### Button Up Before the Bid

Before you press the “bid” button on your computer, there are a number of questions to ask and actions to take before the purchase, or to address immediately after the purchase.

Here is a list to help you prepare before you buy equipment online, whether it’s from an auction house, a dealer’s website, or another online source.

Pre-purchase: Do Your Homework

- *Is the equipment fully functional?* Can it be verified that all major operational and safety components on the equipment are fully functioning?
- *Have all the required inspections been completed?* The ANSI standard applicable to the equipment, for example ANSI A92.9 for mast climbing work platforms (MCWP) and the new ANSI A92.22 for mobile elevating work platforms (MEWP), requires periodic inspections,

as do the manufacturer’s requirements for duty-of-care.

Frequent (every 90 days) and annual inspections are vital. Ask for the last annual inspection record for the unit in question. If the last annual inspection was more than three months ago, ask for the last frequent inspection in addition. If no frequent inspection is available (it may be that unit hasn’t been used for more than three months), ask for one to be done.

- *Have the required inspections been completed by a “qualified” person?* Have you been provided with the training records and/or credentials of the individual(s) who carried out the inspections? Does that person meet the OSHA definition of a “qualified person”?
- *Have any structural or major repairs been carried out on the equipment?* Do you have details of this type of work, and do you have a copy of the manufacturers’

authorization for the repairs? Ask for details of fabrication work and repairs to major structural components. If this type of work has taken place, ask for evidence that the work was done by a certified welder (if applicable), and that the work was authorized by the manufacturer. Ask for a copy of the machine history file.

If the above information is not readily available, it is probably an indication of how the equipment has been maintained up to this point.

Post-Purchase:

- *Whether you do or don’t have any of the above information, fully inspect the equipment when you take possession.* You won’t fully know the equipment’s integrity when you buy it, so you should immediately assess its functionality. Upon receipt, carry out an annual inspection on the equipment and complete all necessary repairs highlighted during the inspection.



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