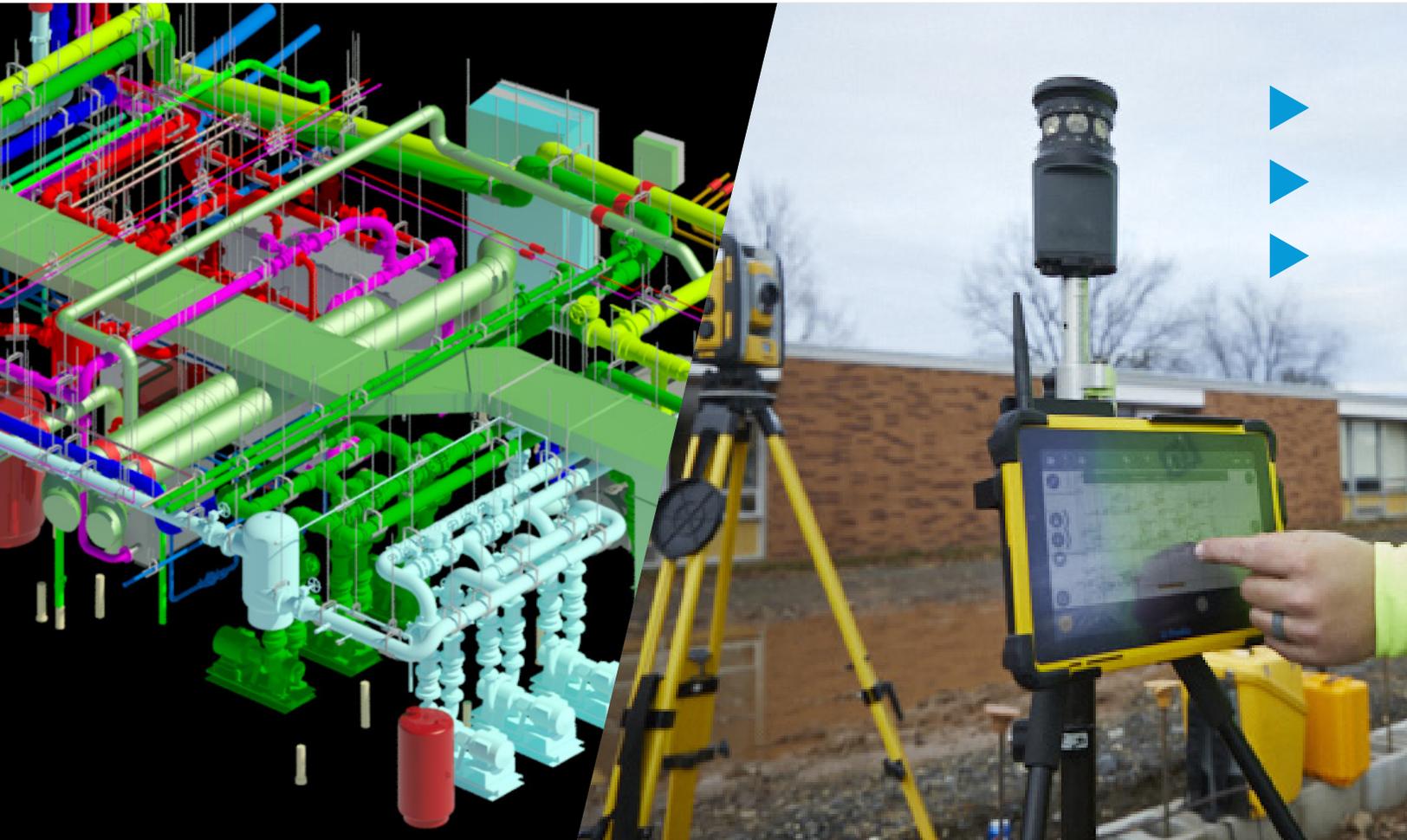




Myco Mechanical Gains Competitive Advantage with Trimble Solutions



Myco Mechanical Optimizes Fabrication and Meets Market Demands with Trimble SysQue, Trimble Robotic Total Stations, and Trimble X7 Scanner

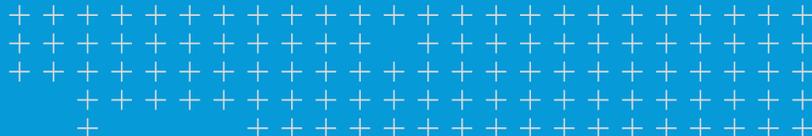
“Speed to market is everything. We estimate a 15-30% labor savings on any job using Trimble SysQue with Trimble Connect and Trimble Robotic Total Stations.”

- Mark Haley, Vice President of Myco Mechanical

Solutions

- Trimble® SysQue®
- Trimble® Connect
- Trimble® Robotic Total Station
- Trimble® X7 3D Scanner
- Trimble® FieldLink

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mep.trimble.com



About

Myco Mechanical is a progressive mechanical contractor based in Telford, PA, that employs a hands-on philosophy both on the job and in the office. By staffing every project with highly skilled managers, technicians, and administrative professionals, both the firm and its clients can be assured each project will be given the utmost attention. This philosophy, along with an expert staff, ensures a high quality of work, which contributes to the success of each project.



Myco has over 150 employees consisting of executive managers, project managers, superintendents, pipefitter journeymen, plumbing journeymen, sheet metal journeymen, apprentices, and administrative personnel. As a growing mechanical contractor, the company is constantly searching for every possible way to streamline production, while maintaining the high quality of work it is known for.

EMBRACING TECHNOLOGY TO DRIVE GROWTH

Ken Freer, VDC Manager, and Jason Newhard, Senior VDC Specialist at Myco Mechanical created the company's VDC Department in 2015 and since that time it has grown to six people. With increased competition and a dwindling pool of skilled MEP construction workers from which to hire, Myco Mechanical was looking for ways to further embrace technology to work more efficiently and gain a competitive advantage.

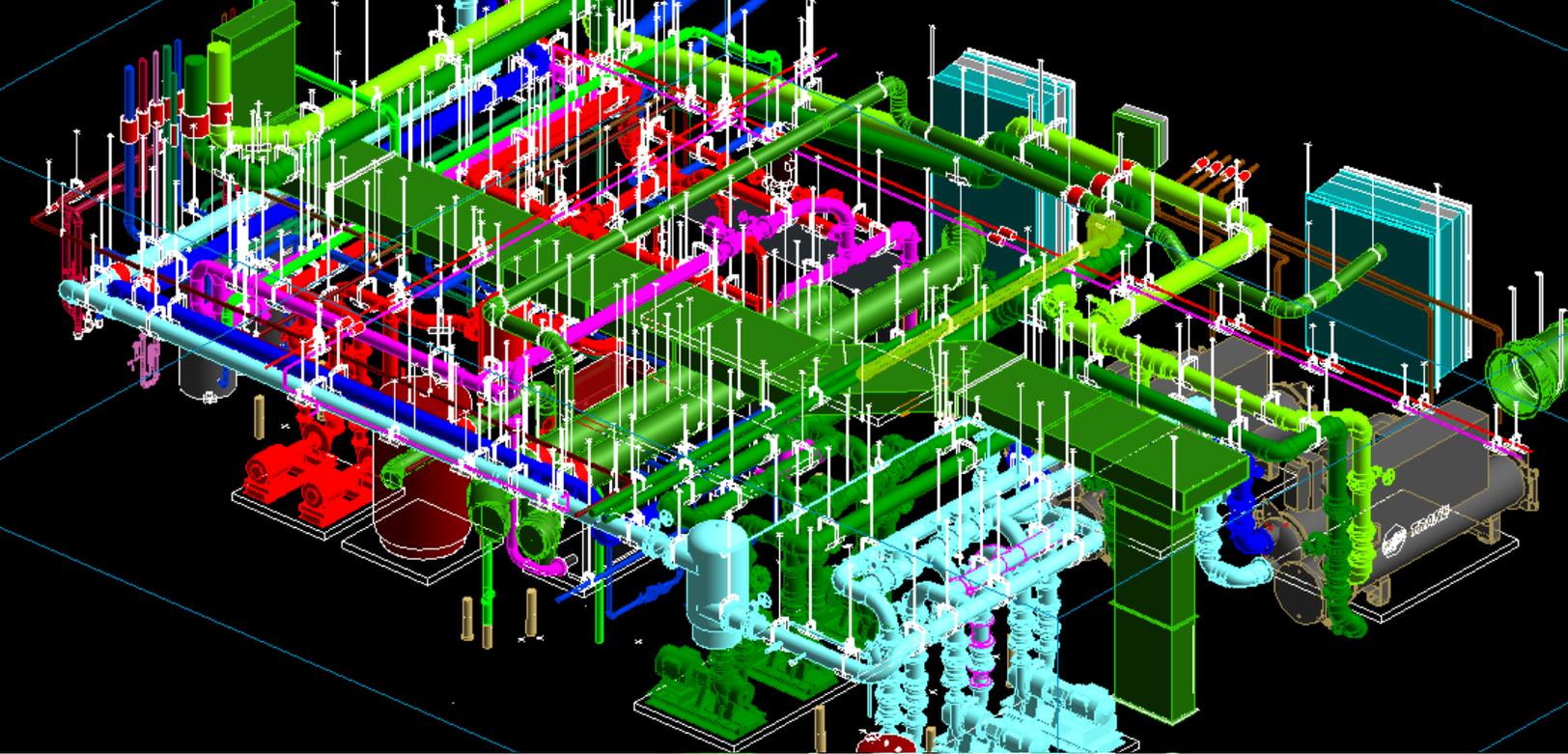
According to Mark Haley, Vice President of Myco Mechanical, "There is only so much talent out there. If we have fewer people to pick from and if I can get more done with the talent I have, that is huge. Then we have won - and that is why we embrace technology."

Myco Mechanical wanted a modeling application that could support the HVAC and plumbing modeling in Autodesk

"After seeing the Trimble SysQue demo and realizing how quickly we could create models, I was hooked."

Revit. By working seamlessly inside Revit, they wouldn't have to have two applications open at the same time and go back and forth between the two, and they could also manage the database and content directly in Revit. This helps on big projects where both HVAC and plumbing trades are involved allowing Myco Mechanical to fabricate directly from the model. They chose Trimble® SysQue® Detailing Software, which included a Trimble Connect subscription, to design real-world constructible models directly in Revit and create a single source of project information, collaboration, fabrication, and coordination with multiple trades.

The ability to operate natively inside of Revit was a huge advantage for Myco Mechanical. SysQue allowed Myco to edit the content directly inside of Revit rather than make the changes in another application and push it back into Revit. "The biggest piece where SysQue helps out is it speaks Revit's language -- it's native to Revit. We're not trying to make something work inside of Revit that isn't native to it," said Freer. "With SysQue, the content that's in there is managed in Revit; it's very easy to go edit the family or if it's not there, pull the family from the [Trimble MEPcontent] website. As opposed to [Autodesk] Fabrication, we would have had to manage and edit the content in Fabrication and then push it to Revit; it's a whole separate platform."



“After seeing the Trimble SysQue demo and realizing how quickly we could create models, I was hooked,” said Newhard. “It helps us through every aspect of the build, giving us the opportunity to coordinate and model in Revit with the exact manufacturer’s content that we are going to install and then use the information for fabrication. The model also has lots of rich content and many filters that can be used to extract special views of the project.”

CREATING CONSTRUCTIBLE MODELS

Myco Mechanical also purchased five Trimble Robotic Total Stations and the Trimble X7 3D Scanner with Trimble FieldLink software through Trimble reseller BuildingPoint Northeast. Integrating these various Trimble technologies would allow Myco Mechanical to improve its overall workflow from design to plan to build.

Myco Mechanical utilized Trimble’s hardware and software solutions for a recent Colonial Middle School project that included all of the plumbing and HVAC trades. The building totals 180,000 square feet, including two gymnasiums, a 700-seat auditorium, library, kitchen, cafeteria, music and choral rooms, science labs and classrooms. Built on the same property as the existing middle school, the old school structure was completely demolished to make room for new parking lots and a new synthetic athletic field.



Using Trimble SysQue with Revit, Myco Mechanical was able to create a model much faster and with more accuracy. The Trimble Connect software also helped them easily collaborate with field personnel on the job by connecting the right people to the right data at the right time and creating a single source of truth.

In addition, with the Trimble Robotic Total Stations and the Trimble X7 3D Scanner, Myco Mechanical is able to collect constructed data, get in and out quickly, and use the scans to connect existing piping, duct, and equipment for seamless installation on renovation projects. The Trimble FieldLink software also helps them more rapidly perform the hanger and sleeve layouts on decking before slabs are poured.



SPEED TO MARKET EQUALS COMPETITIVE ADVANTAGE

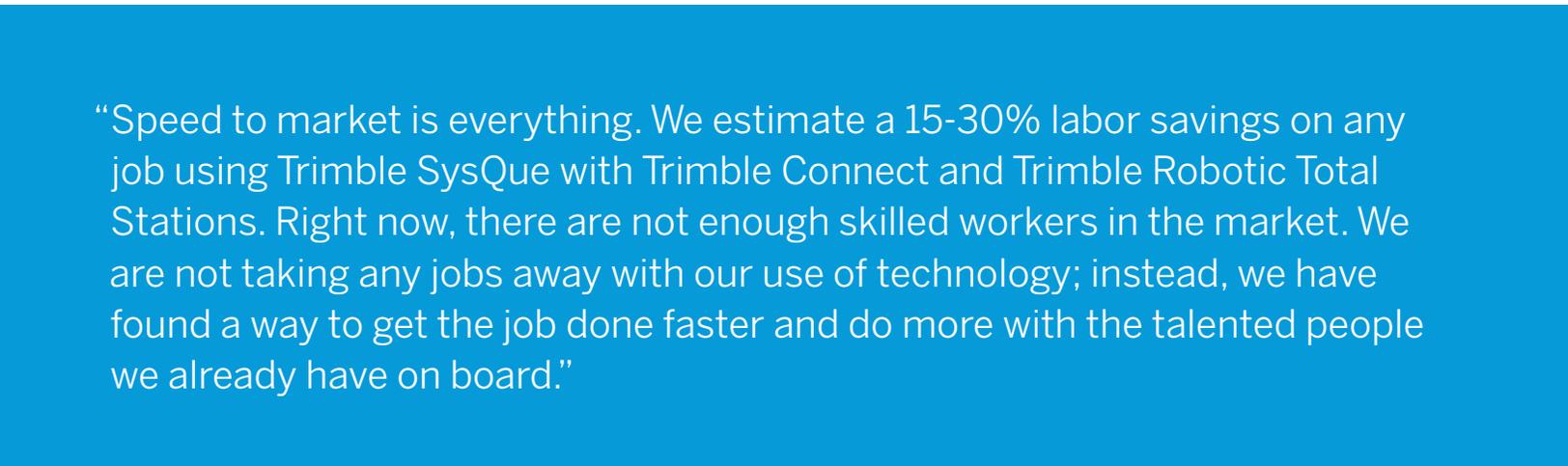
At the time of the interview, the Colonial Middle School project was currently about 30% complete and Myco Mechanical was at the end of the coordination stage and starting to do some installation. With SysQue, Revit, rugged Trimble tablets, and iPads on-site, the time it took the supervisors or journeymen to locate a sleeve or hanger was 1/10th of the time it used to be with a tape measure. The company was able to have people working on multiple tasks while still keeping up with the mason on the sleeves. All hanger points are built into the hangers that are drawn in SysQue, so they can prefabricate the hangers in their shop and export the point coordinates to the field alleviating the need to drill into the concrete.

“Being able to draw sleeves and hangers that have points so we can export them to the Trimble Robotic Total Station is huge when it comes to layout, especially when compared to the old way of sending a PDF drawing with dimensions off of column lines and then using a stringline and tape measure. We can do 300 – 600 points a day on a deck now, which saves a lot of time,” said Freer.

The technology from Trimble has helped Myco Mechanical plan better, fabricate from the model, and complete jobs faster and with more accuracy. Even more, employees find it hard to remember a time when they worked without FieldLink now that they are accustomed to exporting all points to them and using them as a go-to tool for layout.

“We have grown every year, adding staff to our VDC Department because of the amount of work we have. Without Trimble SysQue, we would need to double the number of people to get the job done,” said Freer. “We were able to create a full model of a building and see the whole picture automatically with all of the right fittings. I can’t imagine ever going back to the old way of doing things.”

“The word is out, and people know how technically advanced Myco Mechanical has become. About 20% of our projects are negotiated work, and showing prospects what we can do with the technology has won us a lot of jobs,” said Haley.



“Speed to market is everything. We estimate a 15-30% labor savings on any job using Trimble SysQue with Trimble Connect and Trimble Robotic Total Stations. Right now, there are not enough skilled workers in the market. We are not taking any jobs away with our use of technology; instead, we have found a way to get the job done faster and do more with the talented people we already have on board.”

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NORTH AMERICA
Trimble Inc.
10368 Westmoor Drive
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