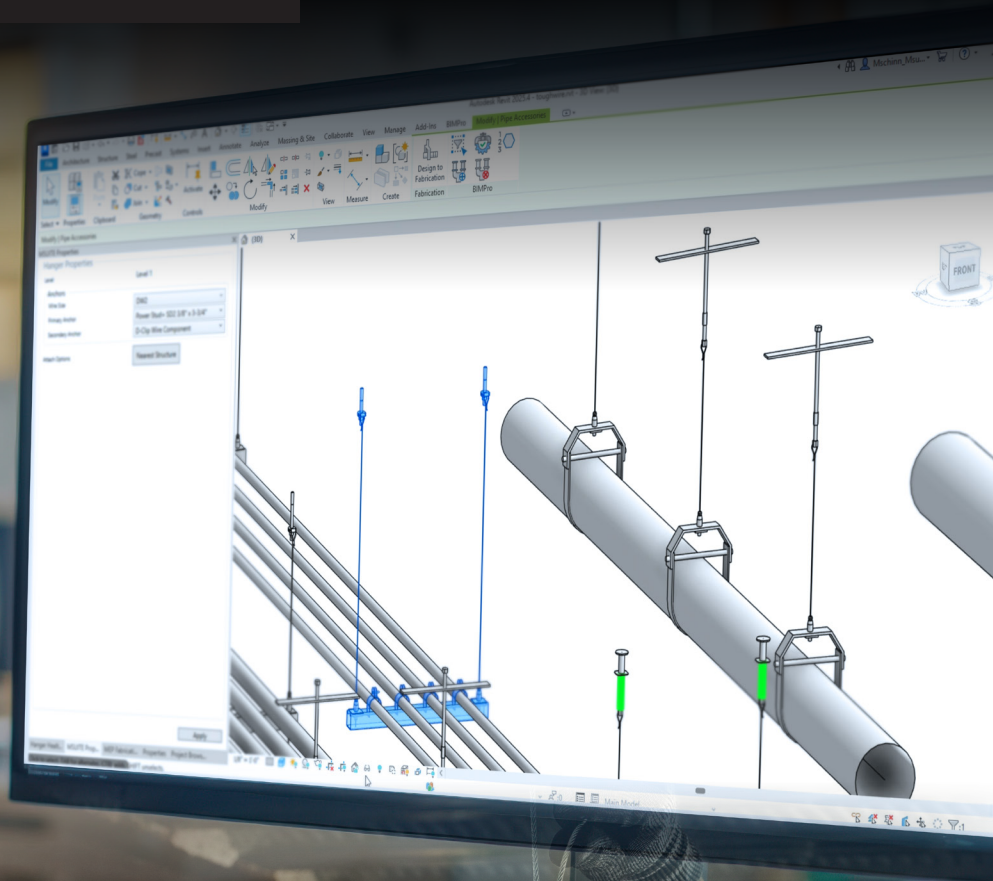


DEWALT



**CONSTRUCTION
TECHNOLOGY™**



MODERN HANGER WORKFLOW TRANSFORMATION: AN EDUCATIONAL GUIDE



DEWALT
TOUGHWIRE



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A DEWALT® EBOOK

A COMPREHENSIVE RESOURCE FOR CONSTRUCTION PROFESSIONALS SEEKING TO MODERNIZE HANGER PLACEMENT AND INSTALLATION WORKFLOWS.



STOP FIGHTING YOUR HANGER WORKFLOW. START WINNING WITH IT.

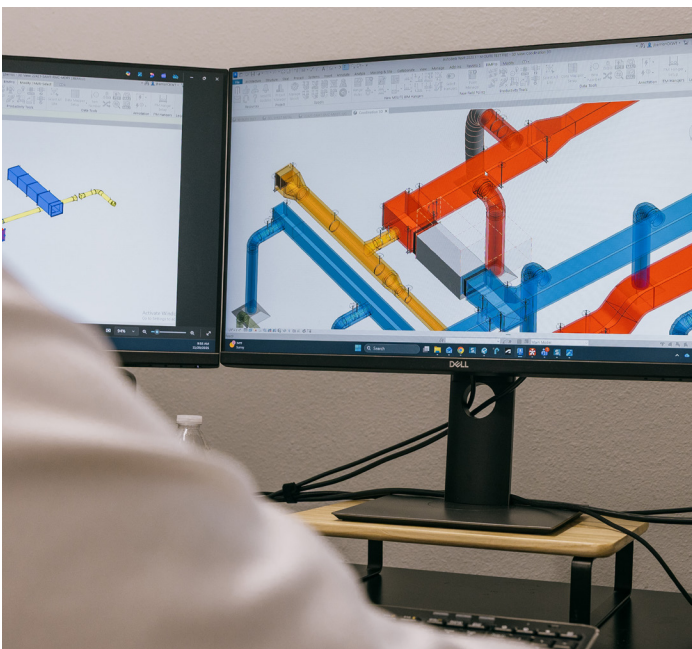
Hanger coordination is one of the last great inefficiencies in mechanical construction, but it doesn't have to be.

This eBook walks you through exactly how leading contractors are cutting install times by nearly 50%, collapsing a 10-step coordination process into one automated step, and sending field crews home earlier with fewer injuries and zero rework surprises.

INSIDE, YOU'LL FIND:

- **A CLEAR BREAKDOWN** of where traditional hanger workflows break down, and why it keeps happening.
- **A STEP-BY-STEP GUIDE** to modern BIM-integrated hanger coordination.
- **REAL RESULTS** from contractors like Midwestern Mechanical and AMS Industries.
- **A PRACTICAL ROI SUMMARY** you can take back to your team.

Whether you're a VDC manager tired of late-stage clash explosions or a field supervisor done with last-minute rework, this guide gives you the roadmap to modernize — without adding complexity or risk. process.



“It's like night & day.
What used to take 10
steps now takes one.”

JOSH OLBERDING

VDC Director
Midwestern Mechanical Inc.

1. THE PROBLEM WITH TRADITIONAL HANGER WORKFLOWS

In today's construction landscape, efficiency, and reliability are more critical than ever. Yet, hanger modeling and installation remain sources of project delays, coordination headaches, and field frustration. BIM teams face the daunting task of coordinating thousands of hangers after system routing, which often leads to new clashes and last-minute rework. Field crews contend with labor-intensive setups and frequent adjustments.

This eBook is designed to educate and empower construction professionals. By exploring modern approaches to hanger coordination and installation, you will discover how to achieve measurable improvements in productivity and project outcomes—without adding complexity or risk.

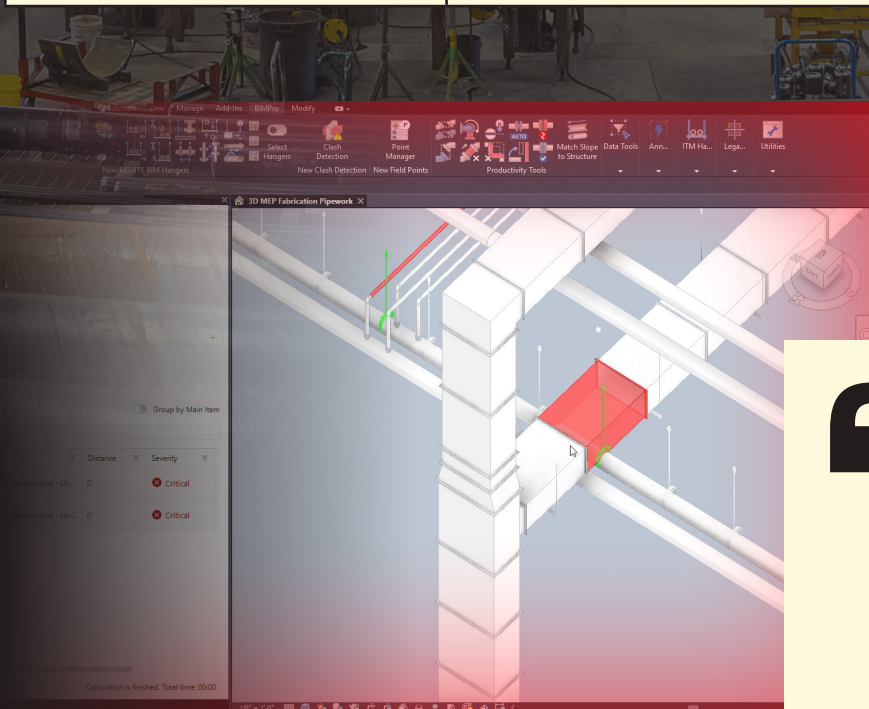


2. TRADITIONAL HANGER WORKFLOW: CHALLENGES & LIMITATIONS

Traditional hanger coordination is often an afterthought. Once system routing and clash detection are finalized, teams manually insert hangers, introducing new clashes and triggering last-minute rework. This makes hanger placement often the most stressful part of coordination. Traditional installation processes can be more labor intensive, require multiple tools, and are prone to errors, especially when field conditions differ from the model.

ISSUES WITH TRADITIONAL WORKFLOWS:

STEP	TRADITIONAL WORKFLOW	COMMON ISSUES
SYSTEMS COORDINATION	■ Hangers ignored, only main systems	■ Hangers left to last minute
HANGER PLACEMENT	■ Manual, after clash-free model	■ Tedious, error-prone
CLASH/REWORK	■ Manual adjustment required	■ Stressful, delays
FIELD INSTALLATION	■ Last-minute, rushed, frequent rework	■ High stress, inefficiency



“ Every step of the traditional workflow creates the next problem.”

JOSH OLBERDING

VDC Director
Midwestern Mechanical Inc.

3. MODERN HANGER WORKFLOW: NEXT-GENERATION METHODS

Modern workflows coordinate hangers early in the BIM process, leveraging automation for placement and real-time adaptation as the model evolves. Teams can model hangers alongside systems, ensuring that as designs shift, hangers remain coordinated. In the field, ergonomic, tool-free installation methods reduce labor and improve reliability.

KEY BENEFITS OF MODERN WORKFLOWS:

- **REDUCED LABOR HOURS AND ELIMINATED FIELD BOTTLENECKS**
- **MINIMIZED CLASHES AND REWORK**
- **ACCURATE PROCUREMENT AND FABRICATION DATA**
- **IMPROVED INSTALLER SATISFACTION**

TRADITIONAL VS. MODERN HANGERS WORKFLOW COMPARISON

TRADITIONAL METHOD



MODERN METHOD (WITH MSUITE HANGERS)



4. STEP-BY-STEP GUIDE: MODERN HANGER WORKFLOWS

A SUCCESSFUL MODERN HANGER WORKFLOW FOLLOWS THESE STEPS:

- **EARLY COORDINATION:** Integrate hanger placement into the BIM process from the outset. Define rules for hanger spacing, upper attachments, and anchor types based on project needs.
- **AUTOMATED PLACEMENT:** As systems are routed in the model, hangers are placed automatically according to defined rules. This reduces manual input and ensures hangers are coordinated with system changes.^[2]
- **REAL-TIME CUSTOMIZATION:** Adapt hanger types and attachments as site conditions change. If a hanger requires a different anchor, adjust the model to reflect this—eliminating time-consuming rework.^[2]
- **ACCURATE BOM AND SCHEDULING:** Use shared parameters to generate schedules and bills of material that match the as-built model. This streamlines procurement, fabrication, and installation planning.^[2]
- **SEAMLESS TRANSITION TO FIELD EXECUTION:** Export install-ready drawings and comprehensive BOMs for the fab shop and field teams. The result is a smooth transition from coordinated model to efficient field execution.^[2]
- **EFFICIENT FIELD INSTALLATION:** Cable hanging systems are typically more lightweight, require fewer tools, and enable faster, safer installation compared to traditional methods. Installers benefit from reduced physical strain and improved productivity, making cable hanging an ideal choice for modern projects.^[3]



“MSuite has completely changed how we operate. It’s not just software—it’s a better way of working.”

JOSH OLBERDING

VDC Director
Midwestern Mechanical Inc.

5. KEY BENEFITS OF CABLE HANGING SOLUTIONS

CABLE HANGER SYSTEMS ADDRESS MANY PERSISTENT FIELD CHALLENGES:

- **SPEED & EFFICIENCY:** Pre-engineered assemblies are ready to install, reducing average install times and labor costs.
- **RELIABILITY & COMPLIANCE:** Assemblies are tested to meet industry standards, with clear load ratings and installation guidelines.
- **ERGONOMICS DESIGN:** Glove-friendly, tool-free cables can help to reduce installer strain. Adjustments can be made easily in the field.
- **MATERIAL HANDLING & PACKAGING:** Color-coded packaging and pre-measured assemblies simplify logistics, help reduce errors, and streamline procurement.
- **ADAPTABILITY:** Cable solutions support a wide range of upper attachments, anchors, and devices, making them versatile for diverse projects whether mounting to deck, strut, or concrete.



LOOKING AHEAD

DEWALT® Construction Technology is designing tools to streamline the entire process, cutting rework and improving coordination.



“DEWALT® clearly designed this with the end user in mind. We’ve saved time, cut labor costs, and gained real efficiency.”

JOE MARTINECK
Vice President, AMS Industries

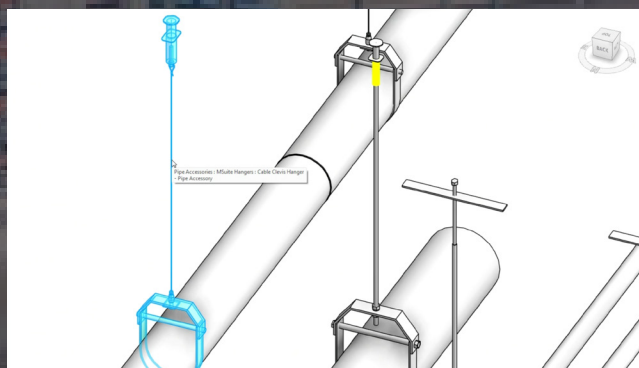
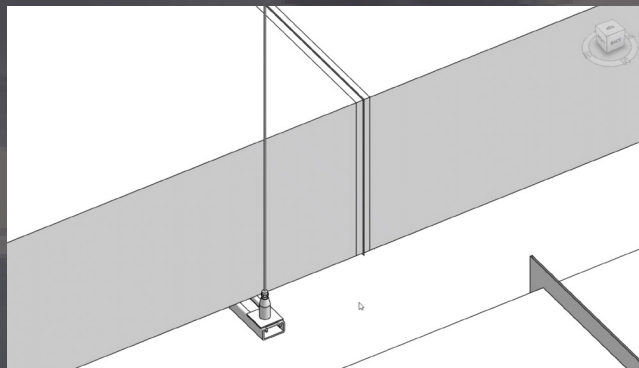
6. INDUSTRY APPROACHES TO SOLVING HANGER WORKFLOW CHALLENGES

Modern construction teams are increasingly turning to digital coordination platforms and advanced cable hanging systems to overcome the workflow challenges outlined in this eBook. These approaches represent a shift in industry standards—moving from manual, labor-intensive methods to automated, adaptable, and data-driven solutions.

One example of this trend is the adoption of BIM, which automates hanger placement, enables real-time customization, and streamlines scheduling and procurement. Similarly, cable hanging systems, such as those engineered for ergonomic, tool-free installation and compliance with industry standards—address persistent field challenges like labor efficiency, and reliability.

MSUITE Hangers™ and DEWALT® TOUGHWIRE™ are field-tested solutions that exemplify this industry shift. Contractors using these tools have reported measurable improvements in hanger coordination and installation. MSUITE® demonstrates how modern technology and thoughtful design can solve long-standing pain points in hanger workflows.

The following sections highlight real-world examples and quantitative results from teams that have adopted such solutions, illustrating their impact on productivity and project outcomes.



“ It's faster and just works better in the field.”

CAIO TORRES

Project Manager & Sheet Metal Mechanic

7. CASE STUDIES & USER TESTIMONIALS

CONTRACTOR EXPERIENCE: HANGER WORKFLOW TRANSFORMATION

Midwestern Mechanical faced siloed data, inefficient tracking, and frequent miscommunication between design, fab, and field teams. By adopting a modern workflow, they achieved centralized access, real-time visibility, and a dramatic reduction in manual steps for MSUITE Hangers™ modeling.



KEY RESULTS:

- **MISCOMMUNICATION** between BIM and fabrication reduced.
- **HANGER PLACEMENT PROCESS** reduced from 10 steps to one.

“ We didn’t just want software—we wanted a partner who would grow with us. The solution wasn’t just selling a product. They were listening, and making sure it worked for us in the design office, fab shop, and field.”

JOSH OLBERDING

VDC Director, Midwestern Mechanical

FIELD INSTALLATION: CABLE HANGING SOLUTIONS

A large contractor leveraged cable hanging solutions to simplify part pairing, eliminate pre-rolling, and reduce install times. The system’s color-coded packaging and tested reliability made it easy for crews to adopt.



“ Installation is faster, the cable is more durable, and pre-rolled packaging makes handling easier.”

JOE MARTINECK

Vice President, AMS Industries

A project manager also gave his input on how cable hanging improved hanger installation in the field.

“ Cable hanging solutions give us confidence on every install. Unlike other installation methods, they delivered consistent strength and load ratings we can trust, reducing inspection failures and rework.”

CAIO TORRES

Project Manager & Sheet Metal Mechanic

8. ROI/BENEFITS SUMMARY

QUANTITATIVE RESULTS

- **LABOR SAVINGS:** Install times average 3 minutes per cable hanger versus 13 minutes for traditional strap systems, resulting in a reduction of labor by nearly 50% on typical projects.^[1]
- **PROCESS EFFICIENCY:** Hanger coordination software has been shown to reduce a conventional multi-step workflow down to a single automated step, streamlining project delivery and minimizing manual effort.^[2]
- **TIME SAVINGS:** In documented case studies, projects utilizing cable hanging and coordination software reported saving approximately 30 hours per 147 hangers installed, compared to traditional methods.^[3]
- **REDUCTION IN REWORK:** Automated and coordinated workflows result in fewer clashes, less re-cutting, and reduced rework, improving reliability and consistency across installations.^[4]
- **IMPROVED FIELD ADOPTION:** Tool-free, ergonomic installation methods drive field buy-in, reduce installer strain; field feedback highlights improved productivity and satisfaction.^[5]
- **PROCUREMENT AND SCHEDULING ACCURACY:** Accurate BOMs and schedules generated from coordinated models minimize material shortages and project delays, supporting just-in-time delivery and fabrication.^[4]

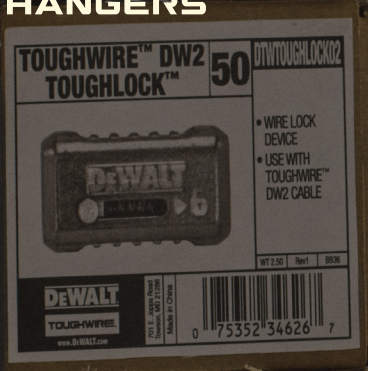


INDUSTRY VALIDATION

- **RESEARCH & CASE STUDIES:** Industry research confirms labor can be reduced by nearly half using cable hangers(1). Case studies from Midwestern Mechanical and others highlight dramatic time savings and improved installation outcomes.^[3,5]
- **PROVEN SOLUTIONS:** Cable hanging systems and hanger coordination platforms are tested and approved alternatives to traditional duct hangers, meeting SMACNA and industry standards for performance.^[6]

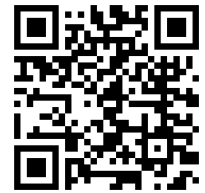
Sources:

[1] - JRGF Research, Cable Hanger Studies; [2] - Midwestern Mechanical Case Study, MSUITE® Implementation; [3] - AMS Industries Case Study, DEWALT® TOUGHWIRE™ Results; [4] - Project Data, Automated Workflow Analysis; [5] - Field Testimonials, Installer Feedback; [6] - SMACNA Testing & Research Institute



SCAN TO
LEARN MORE

MSUITE HANGERS



TOUGHWIRE



We're helping mechanical contractors better coordinate, fabricate, and install with confidence.

From hanger modeling to field execution, MSUITE connects your BIM model to your field teams — so nothing falls through the cracks during execution. Visit us at [MSUITE.com](https://www.msuite.com) to learn more.

See why millions of professionals choose DEWALT®. From our rich history and proven performance to our focus on innovation and technology. DEWALT® continues to design and optimize professional jobsite solutions-tools, accessories and service-to ensure absolute confidence for the toughest conditions.