AUTOMATE THE PLACEMENT AND DESIGN OF MEP HANGERS AND SEISMIC BRACING

- Plug-in for Autodesk® Revit® for MEP systems such as pipe, duct, conduit, and cable trays
- Hanger assemblies based on weights of the MEP system including contents (water, wire, air)
- Hanger locations based on building code requirements and user-defined project standards
- BIM workflow efficiencies, cost savings and safer buildings

- PREFABRICATION SPOOLS
  Generate all hanger prefab spool sheets directly from the BIM with a single click

- POINT LOADS & SEISMIC BRACING
  Point loads are calculated based on system weights and seismic bracing is accurately placed based on your project specified rules

- BILL OF MATERIALS
  Create material quantity schedules directly from the BIM

- FIELD LAYOUT POINTS
  Export hanger points in a CSV file format to any robotic total station for streamlined field layout
<table>
<thead>
<tr>
<th>Feature</th>
<th>Pain Point</th>
<th>HangerWorks Solution / Benefits</th>
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| **Automatic Hanger Placement** | • Placement has historically disregarded building-code requirements or structural point-load limitations  
• Hanger sizing tables do not account for "hanger efficient" MEP design where parallel systems are supported | • Sizes hanger and trapeze assemblies based on system material and content (water, wire, air). With this information, HangerWorks calculates hanger locations based on project standards with real-time engineering calculations on all components in the assembly and alerts the modeler when there are validation failures.  
• Trapeze support for multiple systems is lacking in other tools |
| **Point Load Calculation**    | • Hanger components and point load limits can be overloaded  
• MEP design doesn’t calculate loads and stress differences especially when a trapeze supports parallel systems | • Real-time load calculations as the model changes  
• Calculates loads based on system material and content  
• Adjusts point loads and stress differences between left and right components  
• Validates load on hanger components |
| **Automatic Seismic Bracing** | • Seismic bracing calculation requires outside engineering  
• Impractical to calculate load for each hanger during design  
• Bracing not modeled | • Automates engineering calculations  
• Used during the life cycle of the BIM workflow  
• Calculations based on: Building Code Requirements  
Trade and Common Practice Rules |
| **Coordination Efficiency**   | • Adding hangers and braces to an MEP system model post-coordination adds additional rounds of coordination, locations may not be possible | • Integrate hanger assembly placement during normal coordination meetings, not post-coordination meetings  
• Ability to move a hanger or system and see how it impacts point loads  
• Saves days not hours |
| **Model Accuracy**            | • Assemblies may not be designed with actual components from common hardware manufacturers | • Provides manufacturer specified hanger component catalogs  
• Accurate dimensional information, engineering properties and cost information  
• Optimizes hanger component selection and size to support the weight  
• Enables users to discover clashes that would have previously been overlooked which improves the BIM workflow |
| **Component Cost Comparisons** | • Most Fab shops are unable to compare component costs  
• Current hanger and bracing components are modeled as generic components, not manufacturer specific | • Provides the ability to compare cost by: Creating accurate Bill of Materials report for various systems  
• Configure fields for individual cost content: Components - actual supplier content, not generic  
• Installation times  
• Shop and field labor rates  
• Performs true cost benefit analysis on design selections |
| **Actionable Output**         | • Optimized BIM workflow tools should generate actionable output for purchasing, scheduling, submittals, engineering, fabrication teams, layout crews and installation teams | • Shop drawings / Spool sheets / Cut List report is auto-generated for prefabrication containing lists of all components and cut lengths which can be sent to the fabrication shop  
• Exportable hanger points from the model  
• Engineering Report with all point loads and full calculations  
• Hanger Labels  
• Bill of Materials report for all hanger and bracing components simplifies ordering and planning of material deliveries |

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For additional information please visit DeWALT.com/HangerWorks or contact HangerWorks@DeWALT.com

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