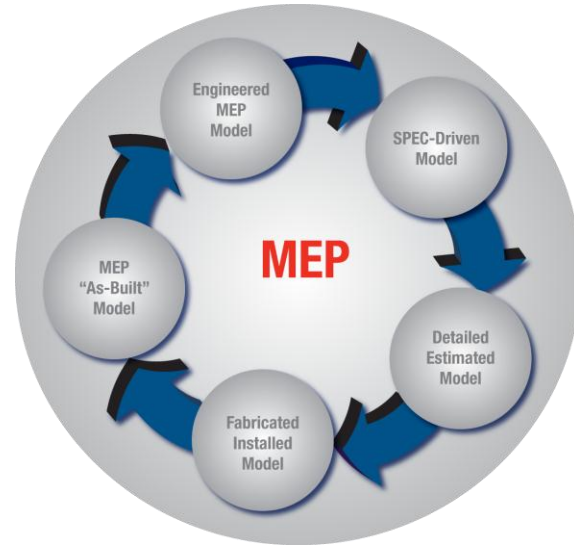




Design to Fabrication™ Workflow

The patented and most comprehensive BIM-compliant solution available for applying intelligent detail to engineered mechanical designs, which brings them, without redrawing, all the way to fabrication.

Automated processes, specialized tools, real world fittings, and highly flexible specification controls ensure efficient and collaborative mechanical building design and manufacture.

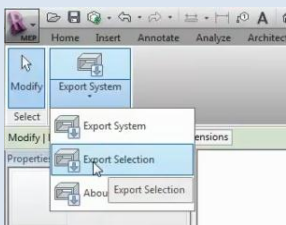


Improve design accuracy and project productivity with multi-discipline integrated software

The EastCoast Design to Fabrication solution delivers to your team the contractor domain-specific detailing tools you need at the right time and in the right MEP platform in your building construction workflow. We've integrated intelligent design, editing, estimating and reporting tools directly inside industry-leading Autodesk MEP software, for ease of use and 100% DWG, RVT and DXF compatibility. Our comprehensive library of Native AutoCAD MEP parts and specifications ensures that everyone can work with the same content. EastCoast builds open systems protocols into its software architecture, which support the integration of our joint Autodesk – EastCoast Fabrication solution with other “Best of Breed” technologies. An example of this open systems approach is how well this workflow integrates with industry-leading estimating applications, details of which can be found at www.eccadcam.com. Take a closer look at this workflow technology:

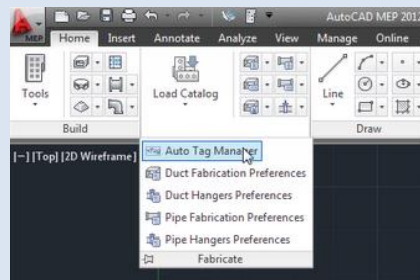
MEP Fabrication

Use this automated, one-step process to apply real manufacturer piping and ductwork to an entire Autodesk® Revit® MEP or AutoCAD® MEP engineered drawing. These fully specified systems are then ready for estimating and fabrication.



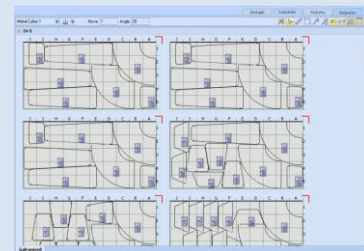
Fabrication for AutoCAD MEP

Design and report with accuracy using our comprehensive HVAC, plumbing and piping detailing tools, right inside AutoCAD MEP. Work with manufacturer readied fittings and specifications, generate pickoffs, estimating and spool drawings with high efficiency.

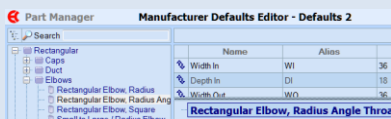


DuctMaker

Eliminate sheet metal waste and streamline production with a complete prefabrication sheet metal interface that is specifications driven. Add taps and access holes, adjusts fitting dimensions, generate labels, tickets and reports, build cutting layouts, and work directly with CNC cutting machines. All with total CAD drawing compatibility.



Part Manager



The backbone of this system is a fully customizable and open standards relational Microsoft SQL Server database, with a user interface that provides intelligent data controls and job reporting. This fittings library, in addition to managing all of your mechanical fittings and pipe, also manages sheet metal shop allowances, specifications and manufacturer defaults which can be shared with the full design team to reduce editing time and streamline fabrication.



With EastCoast tools, everyone involved in complex construction projects can work with the same highly intelligent CAD content, eliminating costly redrawing hold-ups and design inconsistencies.

EastCoast's Design to Fabrication workflow resolves the requirements issue for Contractors and Designers who must conform to specifications requiring "Building Information Modeling" BIM throughout the entire building process.

Here's what will set you apart from the competition with an EastCoast Design to Fabrication software implementation:

- ⌚ Save Time by Designing with Real World Fittings and Parts**
You'll be working with manufacturer fittings and system components that contain precise and accurate detail you need to build a quality system design, fabricate and order parts, and implement construction. You can easily set the design requirements for each building project or system, and reuse these settings as many times as you require.
- ⌚ Be Prepared with Full Reporting and Customization**
Work with an open architecture database of parts and fittings that EastCoast continually expands by working closely with manufacturers. It has broad customization abilities, such as labor and wage calculations, design rules, custom alias and special instructions. It is available for use from design through fabrication, with full reporting features, so that it is easy to calculate the parts and specifications needed for each job, and everyone can work with the same data.
- ⌚ Adapt to Changes Quickly and Accurately**
When a change order comes down that applies to the entire system, you'll be ready. Design to Fabrication can make large or small design changes quickly and with ease. Tools for reporting and tracking changes make it possible to document significant modifications downstream and throughout the project's life-cycle.
- ⌚ Become a Design Collaboration Leader in Your Industry**
You can rest assured that you have the tools in place to succeed and work within a BIM-compliant project. You'll be ready whenever the request comes for reports, estimation data, detail drawings, and full system design and layout. You will be amazed at how accessible, interoperable and available the data is to all of the primary stakeholders throughout the life of the project.



A complete Design to Fabrication™ solution, designed with over 35 years of shop use and industry research.

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Autodesk®

Authorized Value Added Reseller
Authorized Developer

Through its MEP industry leadership and Autodesk Authorized Developer status, EastCoast is able to provide BIM-Compliant solutions and consulting services with an emphasis on plumbing, piping and HVAC, for the entire family of MEP CAD platforms, including Autodesk Revit MEP and AutoCAD MEP.

To learn more or purchase:

Access specialists who can provide product expertise, a deep understanding of the needs and challenges faced by design fabrication professionals, and value that extends beyond your software purchase. Contact EastCoast CAD/CAM or one of our regional EastCoast Authorized Resellers. To locate the reseller nearest you, call us, or email sales@eccadcam.com.

www.eccadcam.com

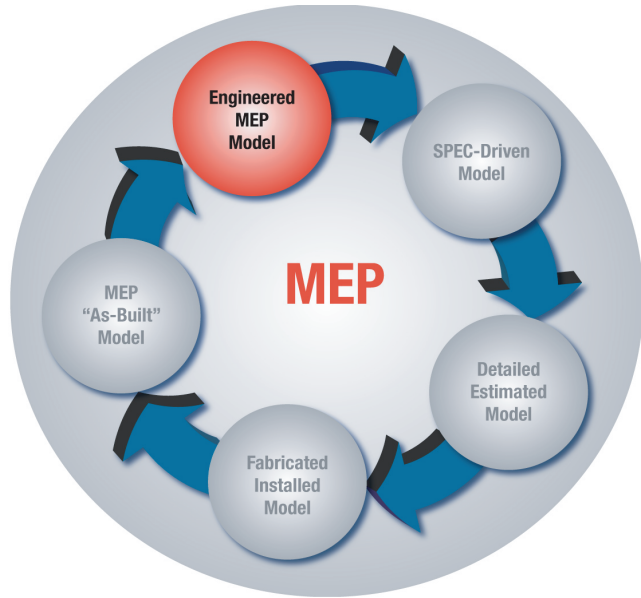
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EastCoast CAD/CAM MEP Design to Fabrication Workflow



Project Setup

MEP Design

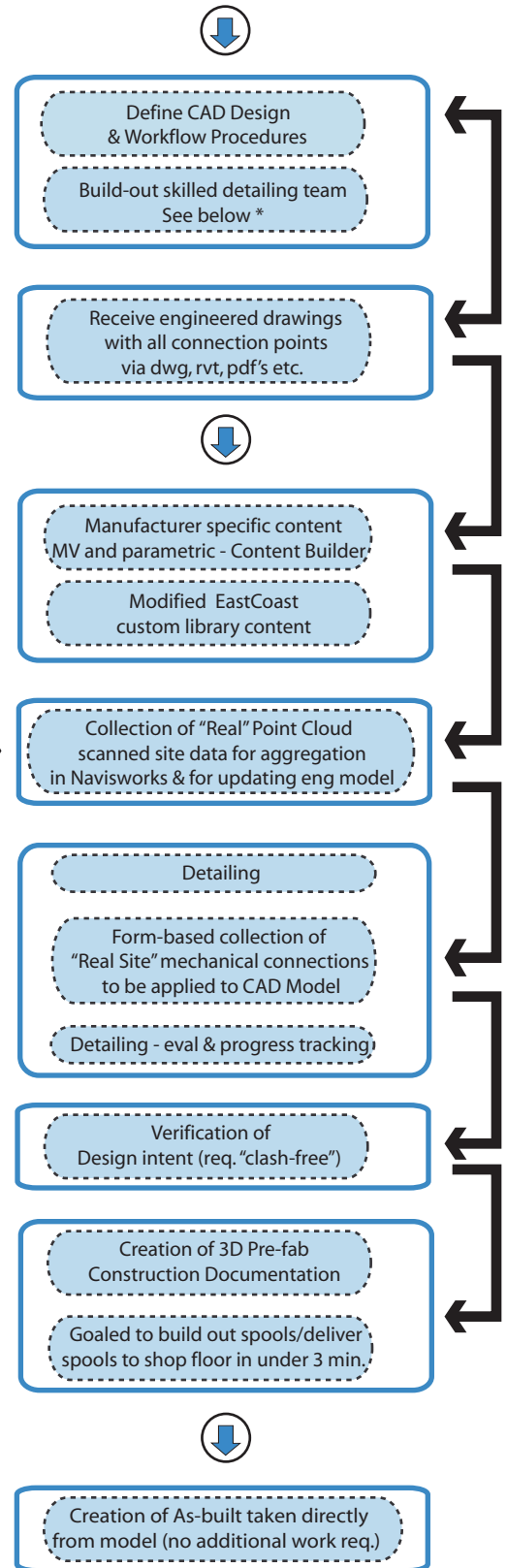
Content Creation

MEP Detail

Design Intent

3D Spool Creation

Final As-Built



If on-site installation requires change to the master model, then information is relayed to detailing, master is modified and new Construction Docs are created

* Building Out Skilled Detailing Team - The Contractor
Trained skilled 3D detailers (most important)

A. At least one person on staff must be able to represent:

1. Good problem solving skills
2. Computer literacy – able to pull the most out of their core software (i.e. how to draw the pipe and use the software tool most efficiently)
3. General IT skills
4. Training/communications Skills
i.e., the ability, patience and willingness to teach others
5. Standard Solid CAD Practices – the ability to manage project for example poor CAD practices could result in file sizes 10 times larger than is warranted while good CAD Practices should be able to drop those file sizes by 75% while building exact drawing with the same content

B. The Detailer

1. Well -trained 3D Detailers with software they're required to use
2. Domain knowledge (most companies have this)



For more information on EastCoast's MEP BIM Workflow recommendations
Please contact Dave Quigley 603-672-7880 dquigley@eccadcam.com