

Build Your One AutoCAD® Toolsets IQ! AutoCAD 2021 Toolsets New Features

Presented by: Sheen, Sophia, Cynthia Moderated by: Sophia



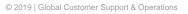
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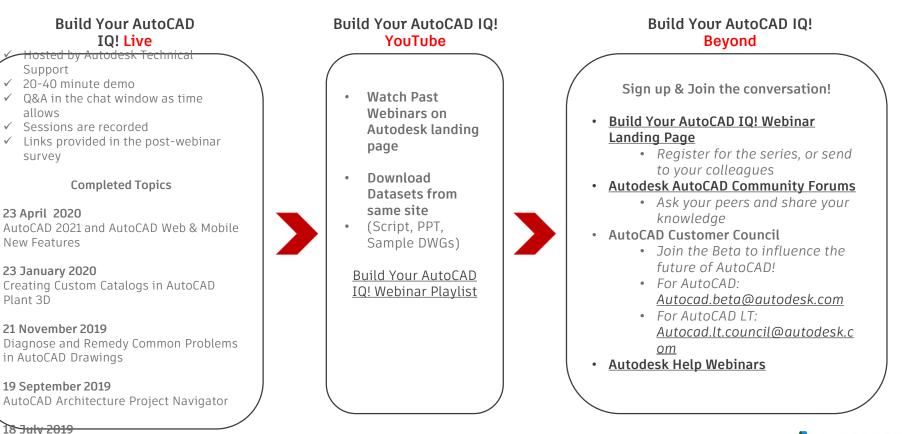


Before We Get Started...

- Feel free to leave questions in the questions window.
 - We'll answer as time allows.
- This session will be recorded.
- Links are available in:
 - Registration reminder
 - Post-Webinar survey



Welcome to the Autodesk Help Webinar Series!





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Autodesk Help Webinars Landing Pages

• Our Help Webinars are available here, even if you had to miss any of the sessions.. You can watch them any time !



LEARN AUTOCAD FROM PRODUCT EXPERTS

AutoCAD Knowledge webinars are regular online tutorial series hosted by the AutoCAD Product Experts to help users learn AutoCAD and create innovative 2D and 3D designs through interactive live webinars or ondemand tutorials.

Types of AutoCAD tutorial topics:

- AutoCAD Basic features (such as dimensions, reuse content, layers)
- AutoCAD Advanced features (such as dynamic blocks, 3D workflows, point clouds)
- AutoCAD Tips and Tricks
- What's New in AutoCAD 2018
- How to troubleshoot common AutoCAD errors

This is a webinar series, and after signing up you will be notified of all future AutoCAD Knowledge webinars.

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Autodesk Knowledge Network

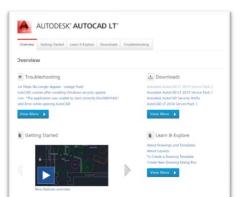
knowledge.autodesk.com

AutoCAD LT

- <u>Getting Started</u>
- <u>Learn & Explore</u>
- <u>Downloads</u> (Hotfixes, Licensing fixes etc.)
- Troubleshooting
- <u>System Requirements</u>

<u>AutoCAD</u>

- <u>Getting Started</u>
- Learn & Explore

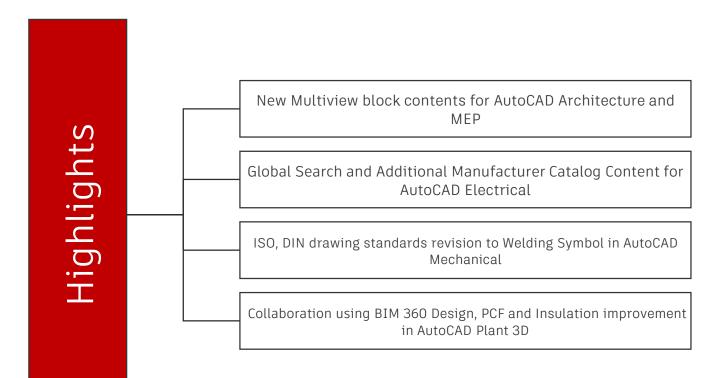


- Downloads (Hotfixes, Licensing fixes, etc.)
- <u>Troubleshooting</u>
- System Requirements

<u>Customer Service</u> <u>Installation, Activation, & Licensing</u> <u>Account Management</u> <u>Community</u> (Forums, Blogs, Ideas, Articles, Screencast.)



This Webinar's Agenda



Key Benefits



Intelligent

Access libraries of symbols, parts and detail components.

Faster

Automate creation of annotations, layers, and properties.

Familiar

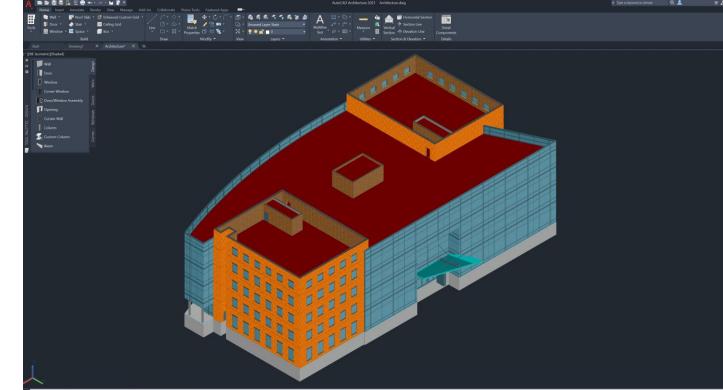
Work in the familiar AutoCAD interface while using industryspecific functionality.

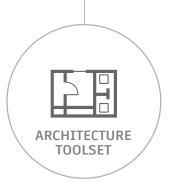
Efficient

Extend workflows across disciplines more effectively.

Architecture Toolset

- Access 8,000+ intelligent architectural objects and styles.
- Automate floorplans, sections, and elevations.

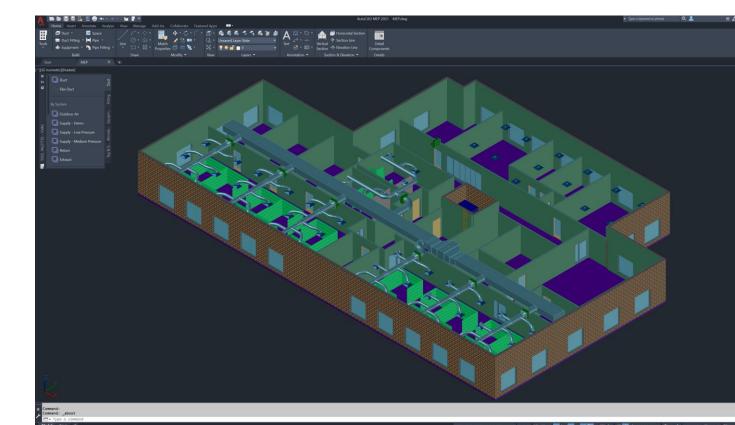




Command: Press ESC or ENTER to exit, or right-click to display shortcut-menu.

MEP Toolset

- Access 10,500+ mechanical, electrical, and plumbing objects.
- Design ductwork, electrical conduit, and circuiting for HVAC, plumbing, and electrical.





New Features in Architecture 2021 and MEP 2021

Content (AutoCAD Architecture)

- 175 new Multi View Blocks and block references were added to the AutoCAD Architecture (Imperial and Metric) content packs for Design Center.
- Localization is supported for these Multi View Blocks from Metric profile through Design Center.



New Features in Architecture 2021 and MEP 2021 Icon Refresh

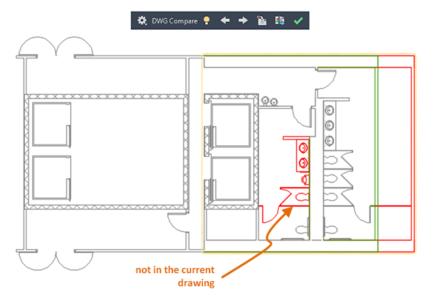
- Icon refresh on dialog boxes and palettes to provide the optimum contrast.
- This avoids distraction from drawing area, to keep user focus retained.

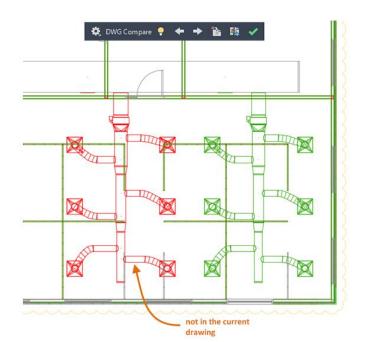
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 Image: Space Styles Image: Stair Styles Image: Stair Winder Styles 	■ Space Styles Stair Styles Stair Winder Styles	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 ⊕-Ğ Load Category Definitions -C Panel Categories ⊕-∰ Panel Styles ⊕- Wire Styles 		

New Features in Architecture 2021 and MEP 2021

DWG Compare Import and XREF Compare

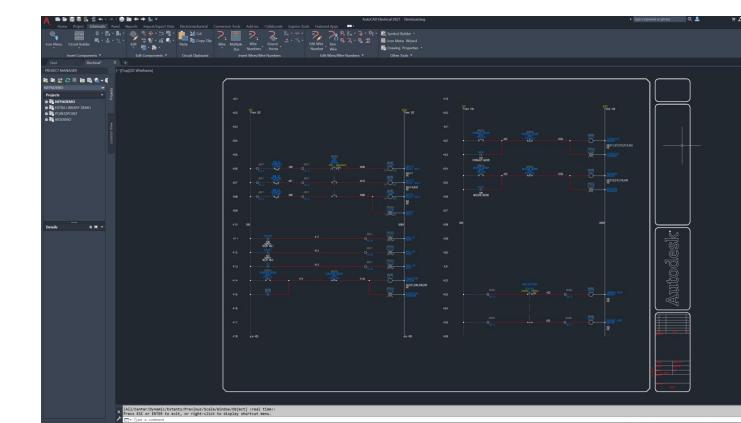
- Import of Architecture or MEP objects is supported on drawing compare.
- Below picture shows differences in AEC objects in the drawing.
- XREF Compare also supports AEC objects





Electrical Toolset

- Access 65,000+ intelligent electrical symbols for electrical controls systems.
- Design panel layouts and schematic diagrams.





New Features in Electrical 2021

Global Search

- Introduction of Global Search functionality, allows users to search catalog data across tables through Catalog Browser.
- Top voted idea in the <u>AutoCAD Electrical Idea Station</u>.

					Category: AM (Ammeters)							\$
Catalog	Global Search				Search: MOELLER 2500A	MPS ANALO	G		×		+ Q	Global Sear
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2113	CA		032974	MOELLER	200/5A AMMETER VERT 96X96,CLASS 1.5	200AMPS	ANALOG			ET. VERT 96X96,CLASS 1.5		
143935	СВ		032975	MOELLER	250/5A AMMETER VERT 96X96,CLASS 1.5	250AMPS	ANALOG					
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784	DN		032978	MOELLER	800/5A AMMETER VERT 96X96,CLASS 1.5	800AMPS	ANALOG				Search Database	Primary
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New Features in Electrical 2021

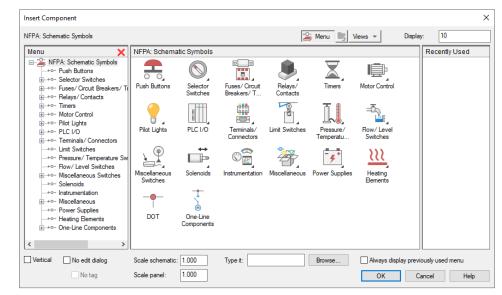
Additional Manufacturer Catalog Content

- Recently released Manufacturer Catalog content for previous versions are now included in AutoCAD Electrical.
- List of new content can be found in this article '<u>AutoCAD Electrical Content Packs</u>'
- New manufacturer contents included in AutoCAD Electrical 2021:
 - Eaton
 - Siemens (PLC) S7-1500 PLC Series included

New Features in Electrical 2021

Icon Refresh

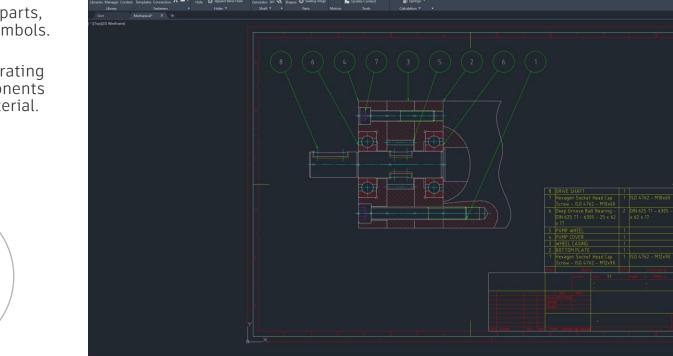
- Icons enhanced for sharper definition on 4k & UHD Monitors.
- Icon refresh includes : Project properties, Terminal strip editor, Project Manager, Catalog browser, Icon menu.



Mechanical Toolset

- Access 700,000+ intelligent manufacturing parts, features and symbols.
- Automate generating machine components and bills of material.

MECHANICAL TOOLSET



📕 👬 Deflection Line



New Features in Mechanical 2021

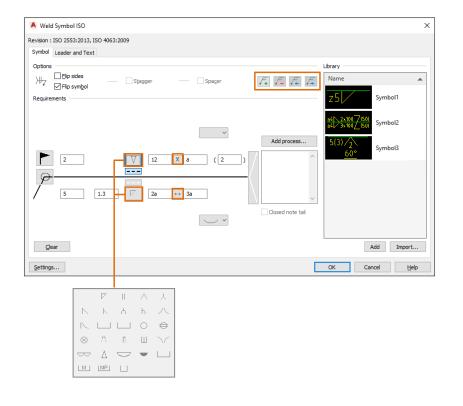
Welding Symbol Revision Update

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51.3

Welding Symbol: ISO (ISO 2553:2013) and DIN (DIN EN ISO 2553:2014) new standard revision

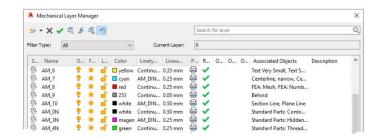
ieneral	
wmbol	
Drafting standard	
Standard revision	ISO 2553:2013, ISO 4063:2009
Operation	1
All around	Yes
Field weld	Ves
Identification line	Other Side
Notes	
Stagger	
Spacer	
Flip symbol	Left aligned
lequirements - Arrow Sid	
Process	
Weld type	Fillet
Penetration depth	
	1.3
Distance	Intermittent
Number	h8
Length	
Spacing	(33)
equirements - Other Sid	e -
Weld type	Stake
Penetration depth	2
Distance	Between two points
Start Point	u8
End point	
eader	-
Arrowhead	🐡 By Standard

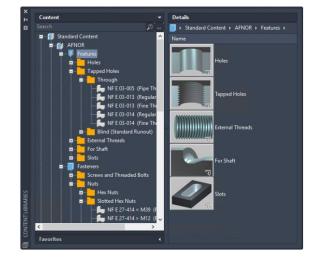


New Features in Mechanical 2021

Icon Refresh

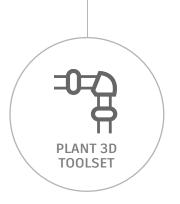
- Icons refresh included frequently used dialogs (BOM, Part list).
- Palettes (Family table) have been refreshed to support 4K Resolution and show optimum contrast.

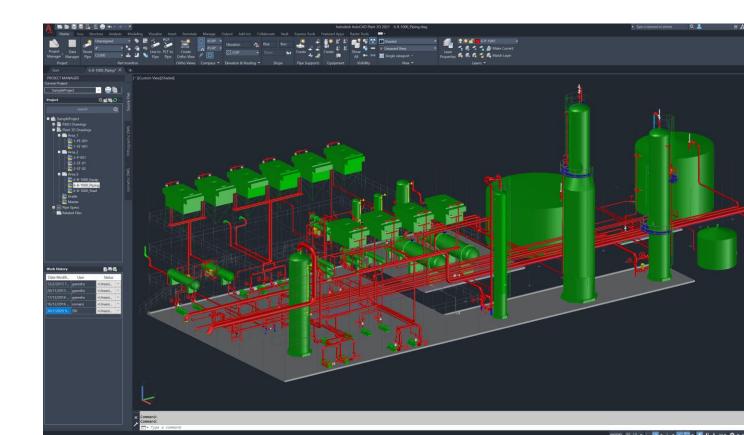




Plant 3D Toolset

- Produce P&IDs and integrate into a 3D plant design model.
- Create schematic diagrams and plant layouts.





Collaboration Projects with BIM 360 Design

- Based on the latest BIM 360 Design (Docs) technology
 - IMPORTANT NOTE: Need BIM 360 Design entitlement
- Two levels of administration: Account Admin and Project Admin.
- Team Member Permission Management
- Markups in BIM 360 for P&ID drawings
- Audit Database for Collaboration Project

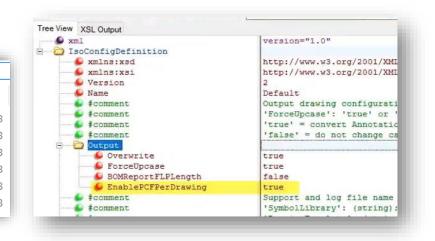
Useful Links

- Autodesk Collaboration for Plant 3D FAQ
- <u>Account Administration</u>
- Project Administration
- Folder Permissions
- Video: Manage Account Profile
- <u>Video: Create a project and Activate Services</u>
- Video: Manage Members
- Video : Manage Member Roles

PCF per Drawing

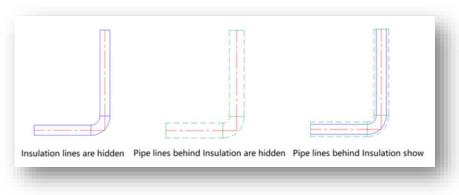
- One line number can have multiple PCF files
- Each PCF represents one sheet
- Setting is controlled from Output section in IsoConfig.xml
 - EnablePCFPerDrawing="true"
 - EnablePCFPerDrawing="false"

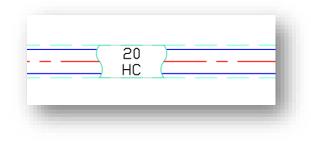
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	D Collaboration Cache (PSD 20	J21 DEMO(ISOMETIC(FINAL_A	2 (Prodisos (Drawings
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all 1001-1.pcf	5/16/2020 2:17 PM	PCF File	20 KB
📓 1001-2.dwg	5/16/2020 2:17 PM	AutoCAD Drawing	151 KB
1001-2.pcf	5/16/2020 2:17 PM	PCF File	31 KB
1001-SplitPoints.xml	5/16/2020 2:16 PM	XML Document	1 KB
1001-StartPoint.xml	5/16/2020 2:17 PM	XML Document	1 KB



Insulation

- Transparent Insulation in 3D model
- Insulation can be displayed with pipe objects in orthographic drawings.
 - No insulation
 - Solid Line Insulation
 - Hidden Line Insulation
- Existing Ortho drawing: Use Insulation Tool to place insulation symbol





Known Issues

Updates to known issues

- <u>Unable to use certain features in AutoCAD Electrical due to Microsoft Office updates</u> <u>from February 2020</u>
- <u>Saving an AutoCAD Mechanical drawing to a lower version file format having new</u> symbol Revisions. (e.g. Welding Symbols for ISO & DIN Standards)
- New Weld symbols from DIN EN ISO 2553:2014 missing in AutoCAD Mechanical
- Microsoft Office 2016 issues after installing AutoCAD Mechanical or Inventor 2021
- Unable to export BOM & Parts list in AutoCAD Mechanical 2021
- <u>Cannot use the Enter key to select current value while using AMPOWEREDIT command</u> <u>in AutoCAD Mechanical</u>
- ACAD PROXY ENTITIES are not loaded and shown in AutoCAD Mechanical

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