HyDraw[®] CAD 2021 What's New





HyDraw® CAD 2021 What's New

HyDraw Options User Interface Categorization Improved Organization

> Connector List Pipe & Tube Connector List Hose Connector List Insert or Export

Smart Connection Display Formats Masking of Connection Display Formats

Connection Line Enhancements Specify Gap between Connection Lines Auto fix Kinks in Connection Lines Move Symbol: Smart Rerouting of Lines Rotate Symbol: Smart Rerouting of Lines Flip Symbol: Smart Rerouting of Lines

Rotation and Flip of Display Properties Smart Rotation of Display Properties Smart Flip of Display Properties Rotation/Flip of Properties linked to Subsystem Smart Rotation of Subsystem Properties Smart Flip of Subsystem Properties

Smart Flip of Pump and Orifice Disc Symbol Smart Flip of Pump Symbol Smart Flip of Orifice Disc Symbol

Library Explorer Model Search Enhancements Model Search and Linked Symbols

Add/Edit/Build Symbols Enhancements

Single Library Edit button Manage Folder Structure Access via Buttons and Right-click option Model Data Search Advanced Symbol Editor Build New Symbols Build New Symbol in preferred Units Edit Symbol in Schematic

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HyDraw Options User Interface

Categorization and Organization Improved



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Options: Categorization

Application and Document Settings separated

	U HyDraw Options ×				
New tabs: Application Settings Document Settings	Library Path Search Criteria Display Format Connection Properties External Port Gauge Port Lists & Charts Update From Excel Drawing Template Miscellaneous MDTools Library Internet Settings	Configuration Type SAE O-ring V Size #4 SAE V Prefix G Open	Location Distance from main port (X) 0.6 inch Connection distance (Y) 0.3 inch Plugged \swarrow		
	Help		OK Cancel		





Options: Improved Organization

HyDraw Settings organized by function

	HyDraw Options ×			
Each sub-section displayed per functionality	Application Units Connection Item ID Balloon Miscellaneous	Automatic Numbering Components & Accessories ISO 1219 Sequential numbering Item ID start with Group by component code Group identical items Separator Count Dot (.) Cumeric e.g. 1.1, 1.2, 2.1, 2.2	Hoses Same scheme as components Hose ID start with H1 Group identical items Separator Count Dash (-) Numeric e.g. H1-1, H1-2, H2-1, H2-2	
	Help	Accessories As sub item of component Separator Dash (-) Accessory ID Numeric List component as first sub-item	Display Assembly ID Accessory Item ID Stack horizontally Stack vertically OK Cancel	



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Connector Lists

New Command Connector List and Export Option



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Pipe & Tube Connector List

Create a Connector List for pipe and tube

Pipe & Tube Connector list format can be defined in HyDraw Options with required properties

Create Connector List				
LINE ID	NOMINAL SIZE	FROM	то	
C1	4 THREADED	17-R	31-1	
C2	4 THREADED	B3	31-2	=
C3	3/4 WELDED	A3	27-2	
C4	3/4 WELDED	19-A	27-1	×
MDR	1/2" THREADED	5-2	DR1	
MT1	5/16	21-1	26-B	
P-	Ø38×5	P	3-IN	
т.	Ø42X2	Т	T-A	
T-A	Ø42X2	2-A		
Y-	Ø15X1.5	DR	Y-A	
Y-A	Ø15X1.5			
				1
Back	Export	pdate	Insert Cancel	





Hose Connector List

Create a Connector List for Hose



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Connector list can be inserted into drawing or exported to Excel





Smart Connection Display Formats



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Masking of Connection Display Formats

Smartly placed display format linked to a connection line





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Connection Line Enhancements

- \checkmark Set gap between connection lines
- \checkmark Automatically fix kinks in connection lines
- Smart Rerouting of connection lines when moving, rotating, flipping symbols



Specify Gap between Connection Lines

Set gap between connection lines when routing HyDraw > Options



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4mm/0.157inch gap is maintained between consecutive connection lines







Auto fix Kinks in Connection lines

Automatically fix kinks by repositioning symbols





Move Symbol: Smart Rerouting of lines

Move symbols without overlapping connection lines





Rotate Symbol: Smart Rerouting of lines

Symbols rotated without unwanted bends or overlapping of connection lines





Flip Symbol: Smart Rerouting of lines

Symbols flipped without overlapping of connection lines





Rotation and Flip of Display Properties

Smart rotation/flip of display properties when symbols are rotated/flipped



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Smart Rotation of Display Properties

Display properties smartly rotated when a symbol is rotated

Original Placement

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 Image: Display Property is not relocated after the symbol is rotated to the left





Smart Flip of Display Properties

Display properties smartly flipped when a symbol is flipped





Rotation/Flip of Properties linked to Subsystem

Smart rotation/flip of display properties when a subsystem is rotated/flipped



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Smart Rotation of Subsystem Properties







Smart Flip of Subsystem Properties



Properties smartly flipped



Smart Flip of Pump and Orifice Disc Symbol



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Smart Flip of Pump Symbol

Pump Shaft rotation direction maintained even after flip





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Smart Flip of Orifice Disc Symbol

Flip axis passes through symbol insertion point



Orifice disc gets flipped along axis passing through insertion point







Library Explorer Model Search Enhancements



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Model Search and Linked Symbols

Related commands accessible via buttons/Right-click options





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Add/Edit/Build Symbol Enhancements

New Advanced Symbol Editor Interface



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Single Library Edit button

Manage Symbols, External Ports, Sub-System libraries









Manage Folder Structure

Easily manage folder structure in Library Explorer







Access via Buttons and Right-click option

Quickly Add/Edit/Delete* Library symbols



Note: *All library edit functions also applicable to External Ports & Sub-System Libraries



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Model Data Search

Quickly edit Library symbol using Model Data search





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Advanced Symbol Editor*

Single Symbol Editor Interface



Note: *Advanced Symbol Editor also applicable to External Ports and Sub-Systems Libraries



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Build New Symbols

Quickly build a new symbol in the drawing





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Build New Symbol in preferred Units

Ability to build new symbol in preferred units, Inch/Metric





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Edit Symbol in Schematic

Edit Symbol in schematic with Advanced Symbol Editor





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Do more...

HyDraw[®] CAD 2021 circuit design software

USA: +1 (248) 649-9550 <u>sales@VESTusa.com</u> Europe: +39 328 695 7001 <u>carlo.molon@VESTusa.com</u>







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