

# **POWER-to-DESIGN MANIFOLDS**

# MDTools 950 What's New





#### MDTools® 950 - What's New

#### Improved User Interface

License Option in Drawing and Assembly Menu

User Interface and Report Formats Improved

Select a Net from List of Available Nets in Manifold

#### Shrink Wrap

**Shrink Wrap Manifold Assembly** 

Shrink Wrap Non-Rectangular Manifolds

#### Generate Machining ID

Retain Machining IDs when Revising Your Manifold Design

#### **Manifold Assembly**

**Modify Manifold Assembly** 

Preview CAD Model on Selection

**Auto Assemble Components** 

#### **Create Machining Drawing**

**Specify Margin for Drawing Templates** 

**Specify Minimum Distance Between Views** 

#### New Interactive Functionality

Position Cavities or Footprints by Dragging when Inserting or **Connecting Cavities** 

### New and Enhanced Checking Functionality

**Check Conformance to Schematic** 

**Check for Poor Connections** 

Repetitive Information Removed in Meet List

Manufacturing and Tooling Check – Actual and Standard Values Displayed

#### Miscellaneous

Align Multiple Cavities

**Easily Manage O-ring Machining Information** 

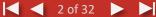
Maintain Existing Text Height when Editing All Engravings

Enter Net Name for Orifice on Insertion

#### Recap

#### Contact Us







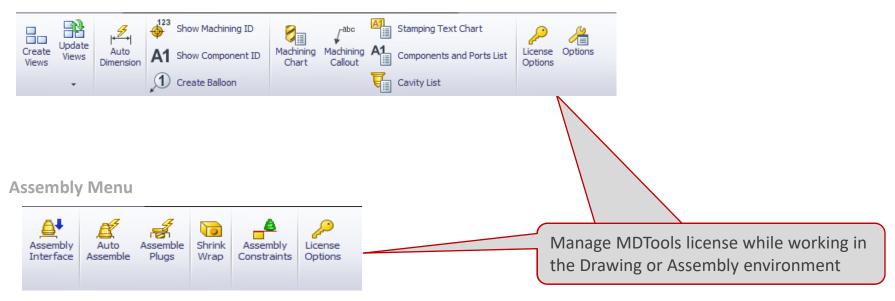
# Improved User Interface



# License Option in Drawing and Assembly Menu

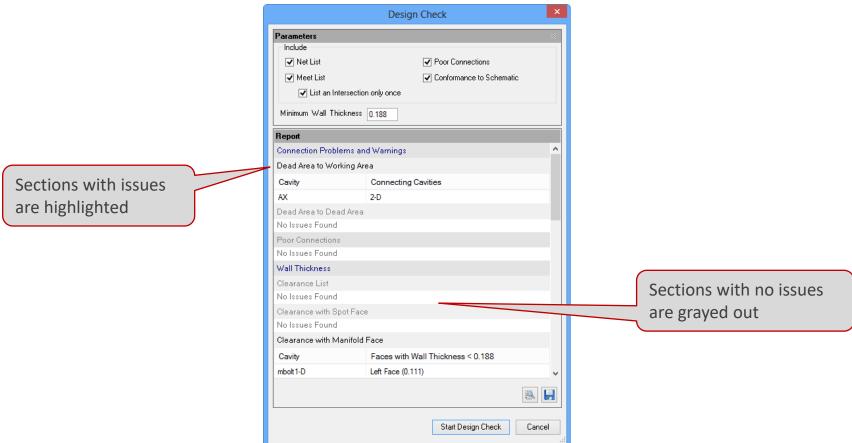


## **Drawing Menu**



# User Interface and Report Formats Improved



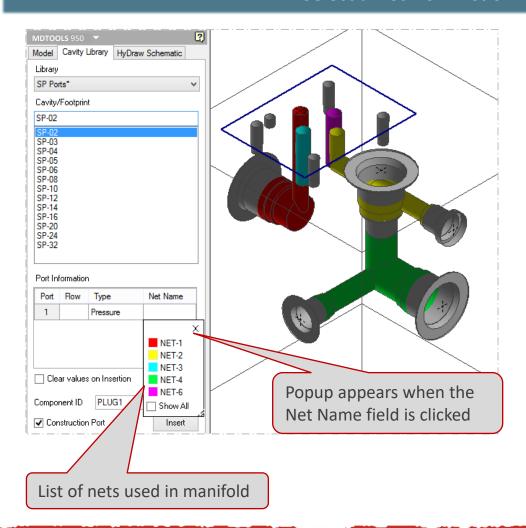


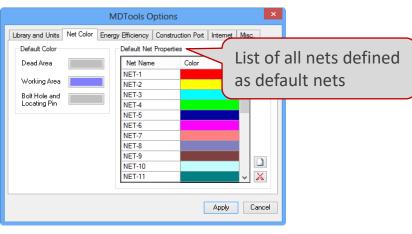
Note: Similar changes are made in Wall Thickness Check, Connection Check, Create Meet List, and Manufacturing and Tooling Check

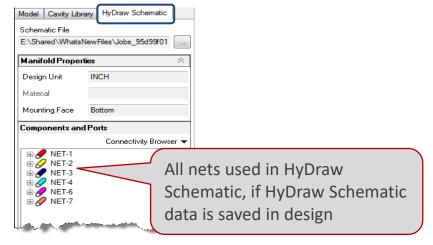


## Select a Net from List of Nets in Manifold









# Shrink Wrap



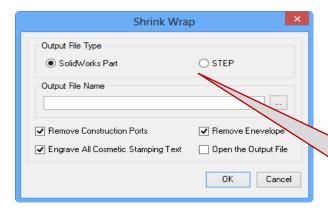


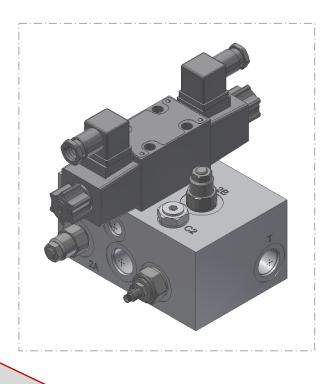


# Shrink Wrap Manifold Assembly





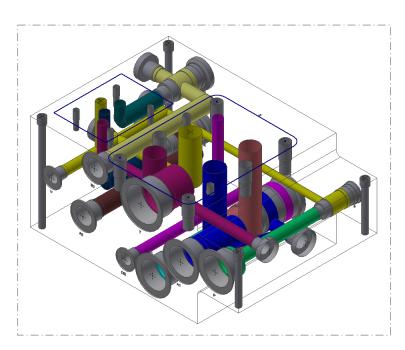




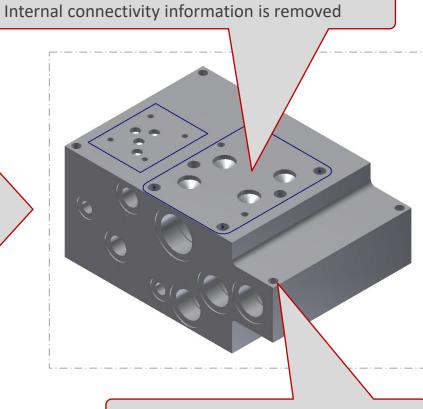
Deliver shrink-wrapped assembly in Solidworks Assembly (.sldasm) or the STEP format (.stp)

# Shrink Wrap Non-Rectangular Manifolds









Through bolt holes are kept unchanged

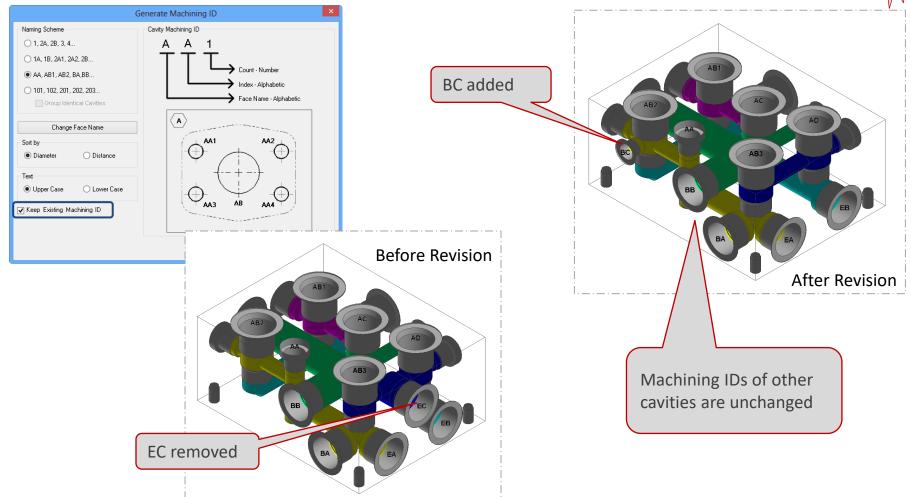
# Generate Machining ID

MDTools® 950 What's New



# Retain Machining IDs when Revising Manifold Design





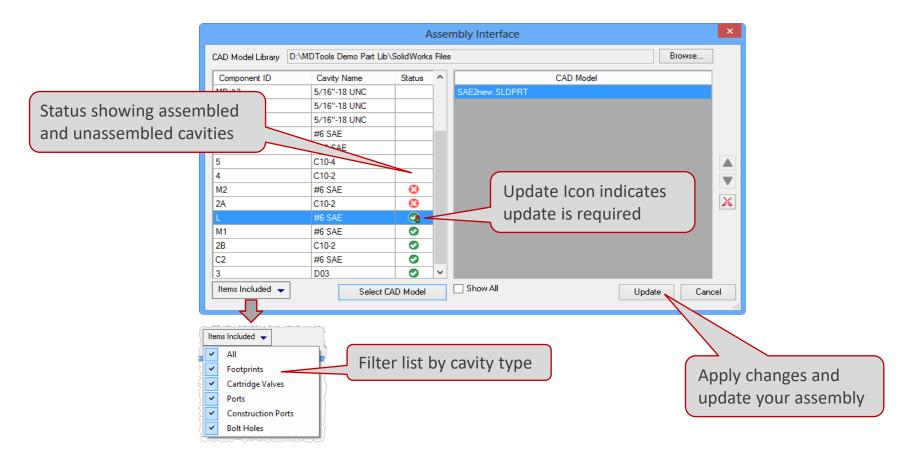
# Manifold Assembly





# **Modify Manifold Assembly**



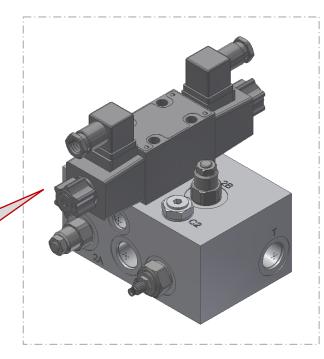


# **Auto Assemble Components**



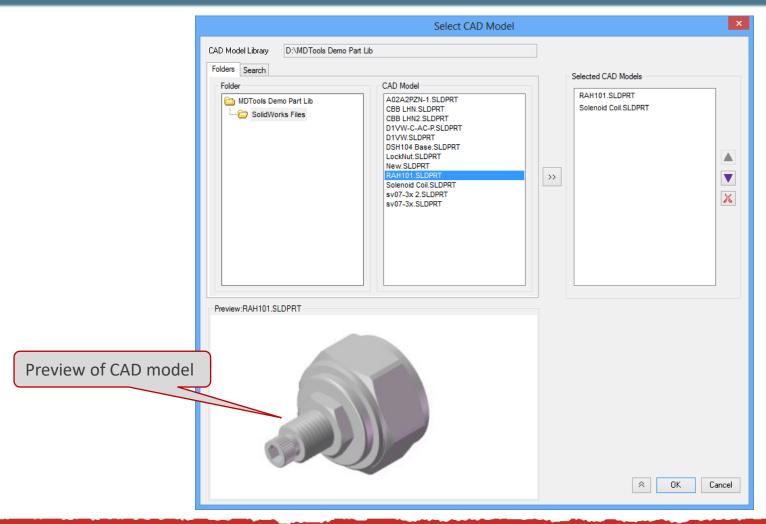


Automatically assembles Components and Construction plugs defined in the HyDraw Schematic XML

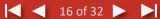


# Preview CAD Model on Selection



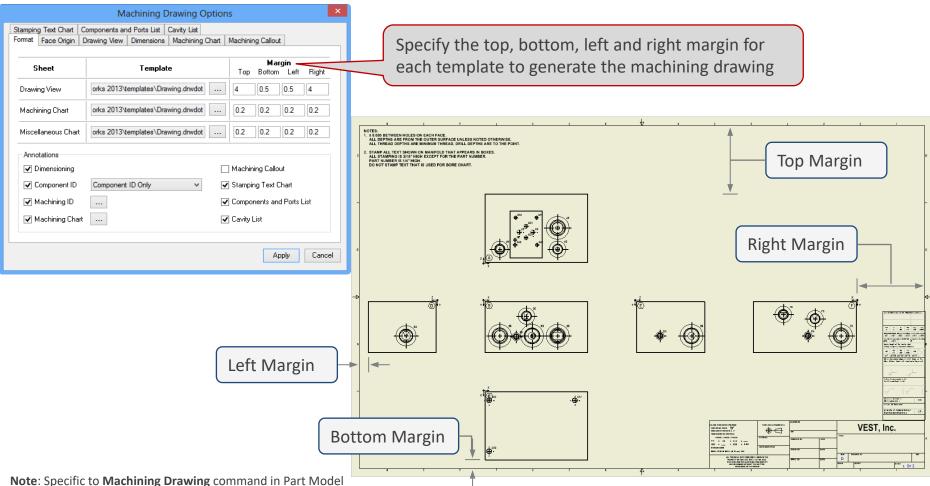


# Create Machining Drawing



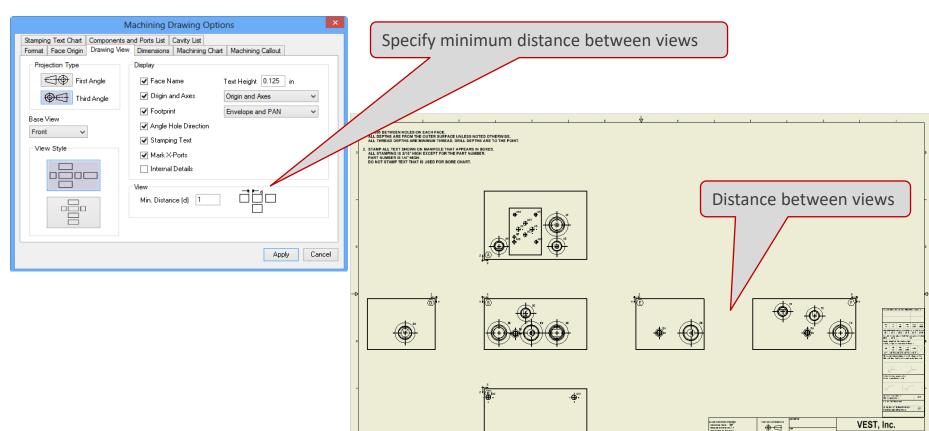
# **Specify Margin for Drawing Templates**





# Specify Minimum Distance Between Views



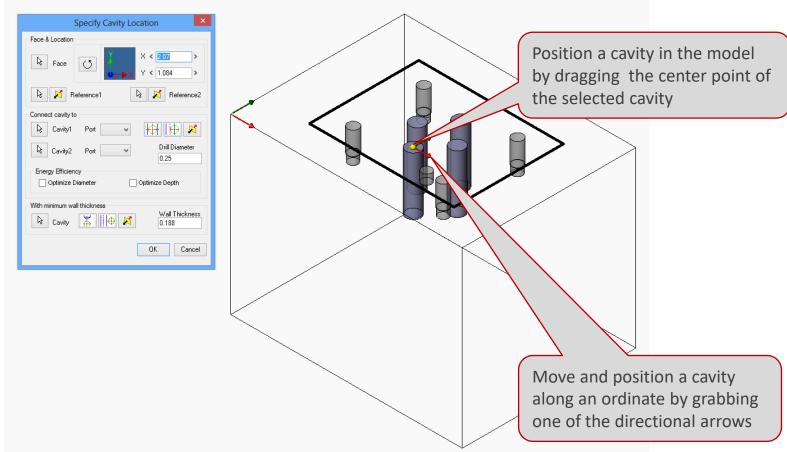


# New Interactive Functionality



# Position Cavities /Footprints by Dragging when Inserting or Connecting Cavities





Note: Similar functionality is available for the Connect Cavities command

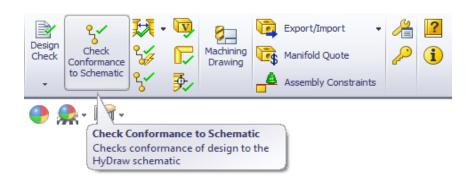
# New Checking Functionality

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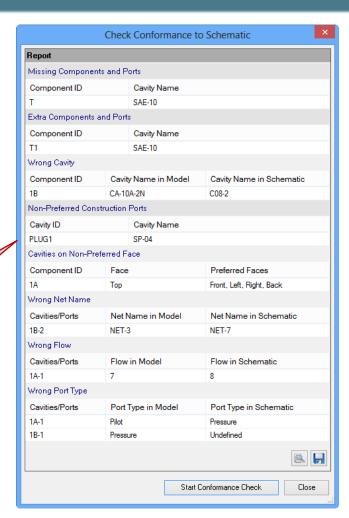


## Check Conformance to Schematic



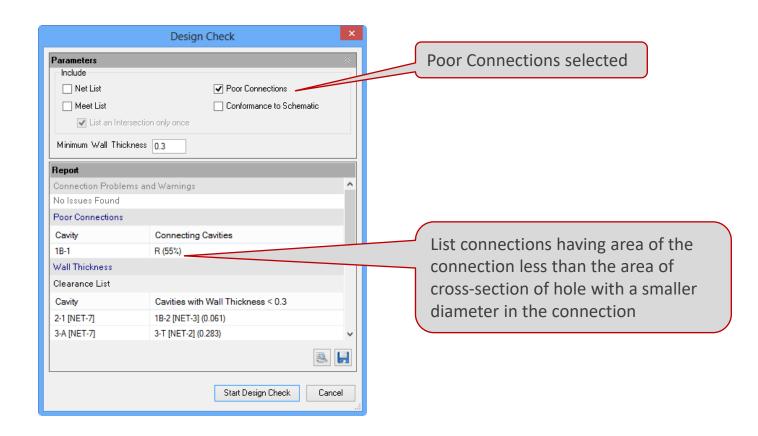


Checks manifold design conformance against the HyDraw Schematic



## Check for Poor Connections



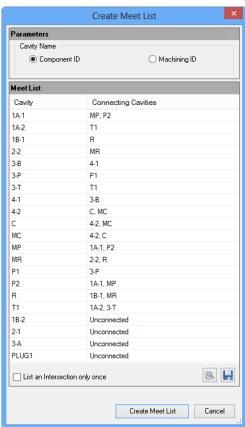


Note: This section is available in Connection Check command also.

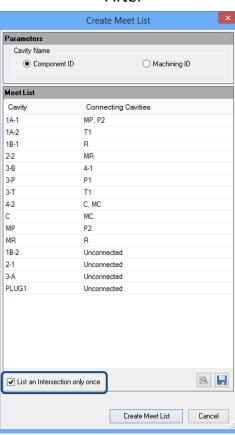
# Repetitive Information removed in Meet List



#### Before After



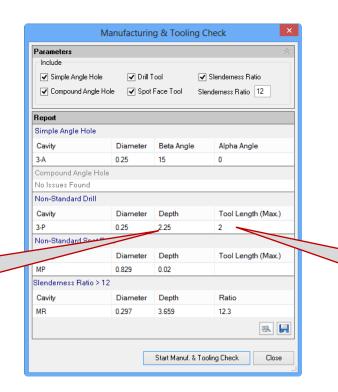
Program removes repetitive information



Note: This option is available in the Design Check command also.

# Manufacturing and Tooling Check – Actual and Standard Values Displayed





Standard value:

Max Tool Length in Library

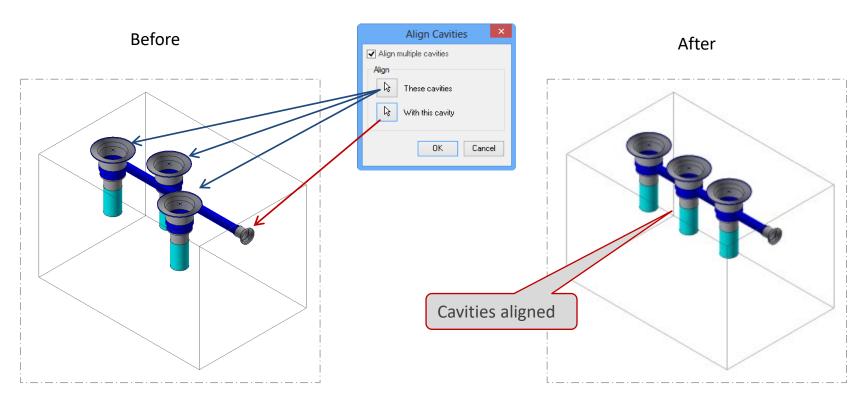
Actual value:

Depth in Model

# Miscellaneous

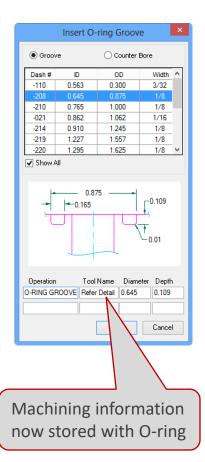
# Align Multiple Cavities

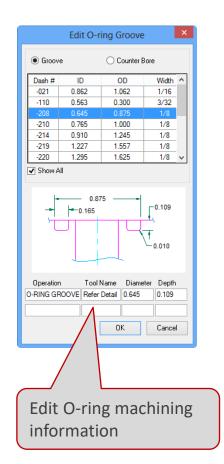


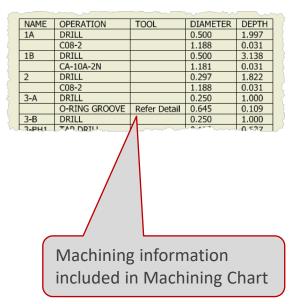


# Manage O-ring Machining Information





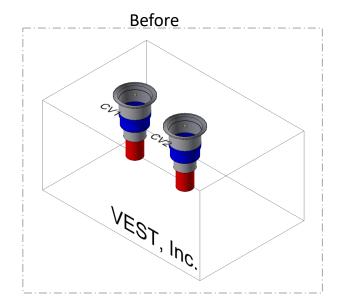


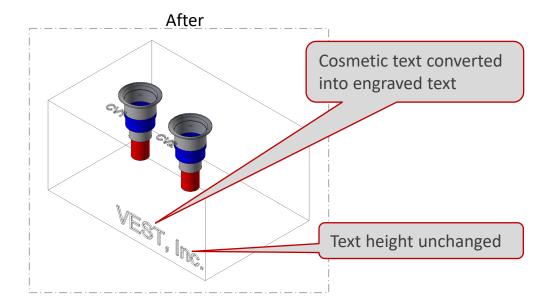


# Maintain Existing Text Height when Editing All Engravings



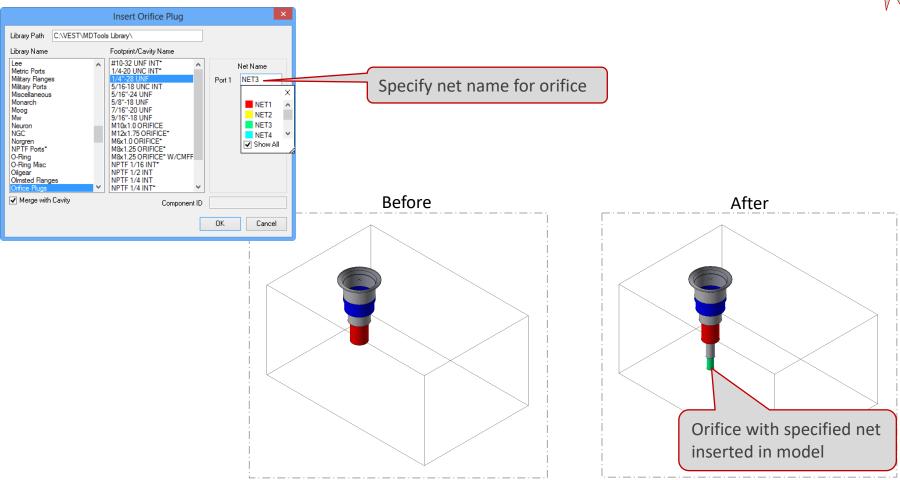






## Enter Net Name for Orifice on Insertion





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# Do more...

# MDTools<sup>®</sup> manifold design software



"Power-to-Design" manifolds

**MDTools** 950 Evaluation Software



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