MDTools® 760
What's New

MDTools 760 What's New?

Improved User Interface

Show and Hide MDTools Mini-Toolbars

Improved Auto Dimension Interface

Group Cavities by Face & Show Engraved Text in MDTools Browser

Compare Manifolds

Compare Two Manifolds and List the Difference

Pressure Rating

Validate Construction Port Pressure Rating per Net Operating Pressure

Machining Drawing

Automatic Machining Drawing (AutoCAD .dwg support)

Placement of Machining IDs without overlapping cavities & Control Text Height

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Undercuts

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Enhanced Machining Chart Interface

Machining Charts created as Inventor Table

Machining Callout

Machining Callout Position Retained

Autodesk Vault Server

Assign CAD Models from Autodesk Vault Server

Miscellaneous

Select Drill Depths in Settings

Control Text Height of Annotations in a Drawing

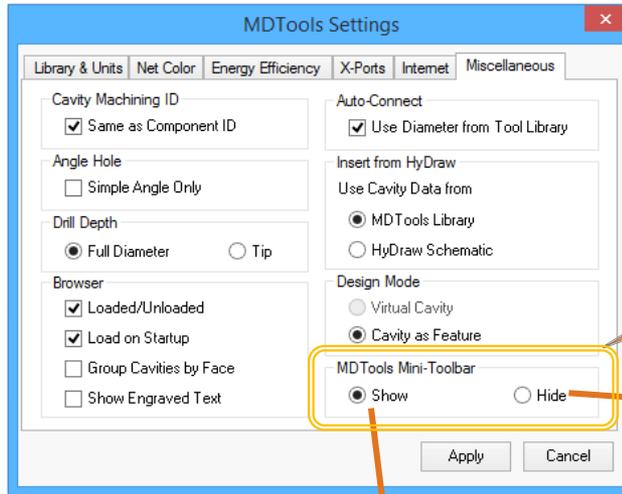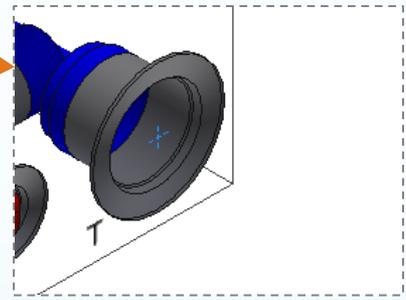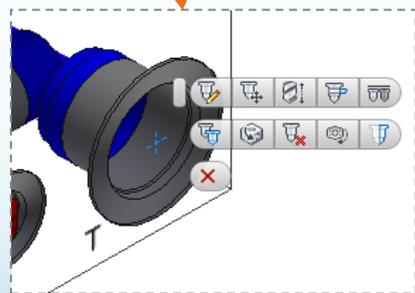Modify Component ID of Parent Cavity while inserting Orifice Plug

Recap

Contact Us

Improved User Interface

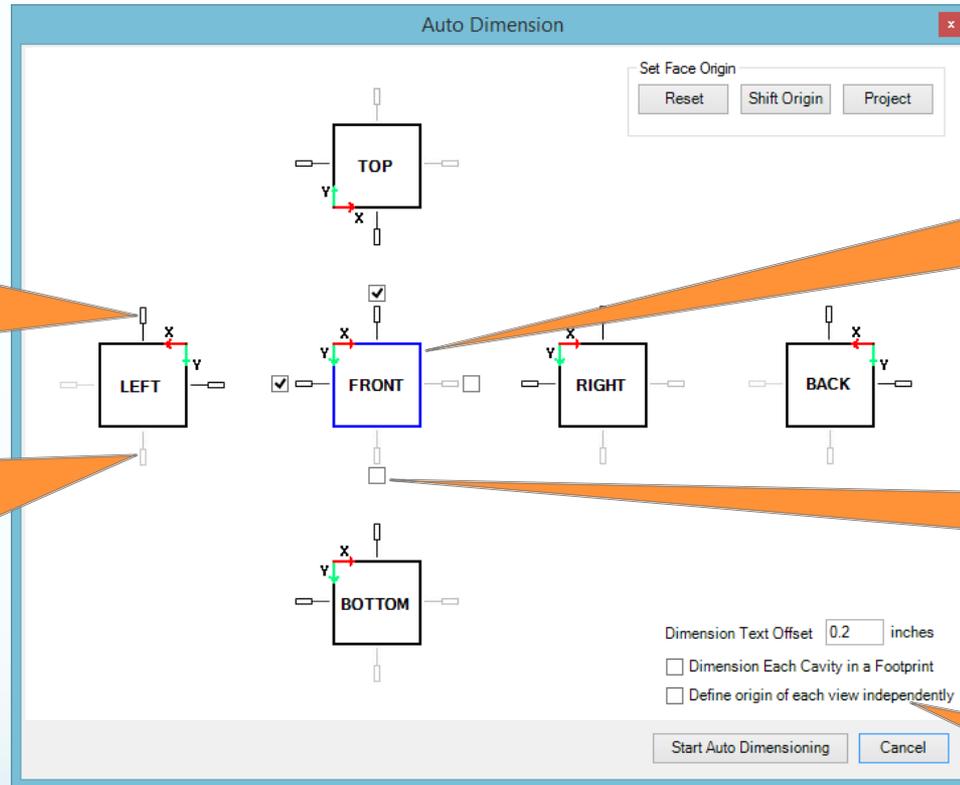# Show/Hide MDTools Mini-Toolbars

NEW

Control visibility of MDTools Mini-Toolbars

Improved Auto Dimension Interface

NEW

Dimensions may be placed on side with black dimension icon

Dimensions may not be placed on side with grayed out dimension icon
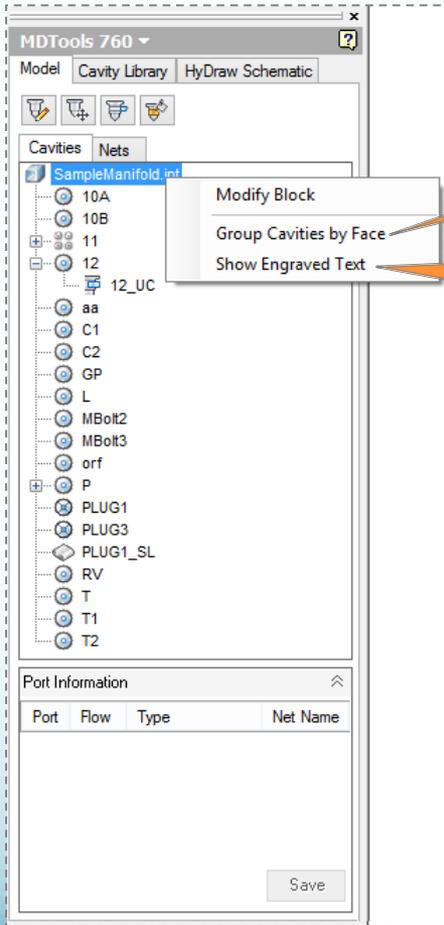
Select a view to set Face Origin and sides available for dimensioning

Choose where dimensions may be placed

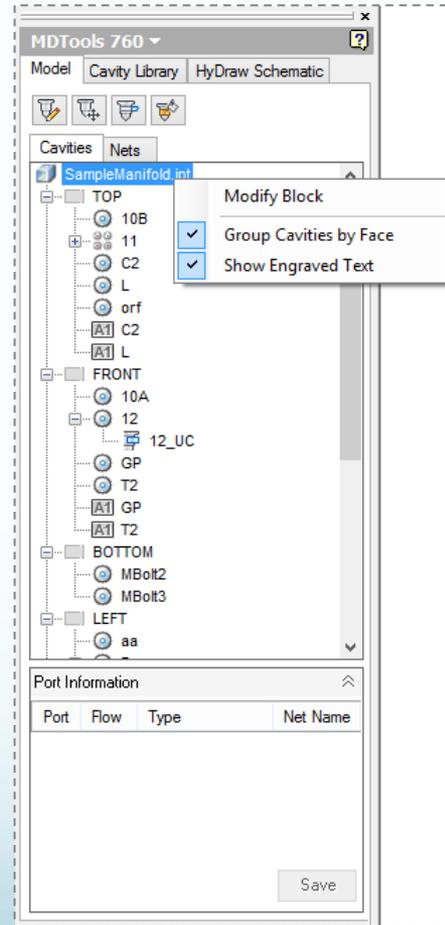Option to define face origin for each view independently

Group Cavities by Face & Show Engraved Text in MDTools Browser

NEW

Option to group cavities by face

Option to show engraved text in MDTools browser

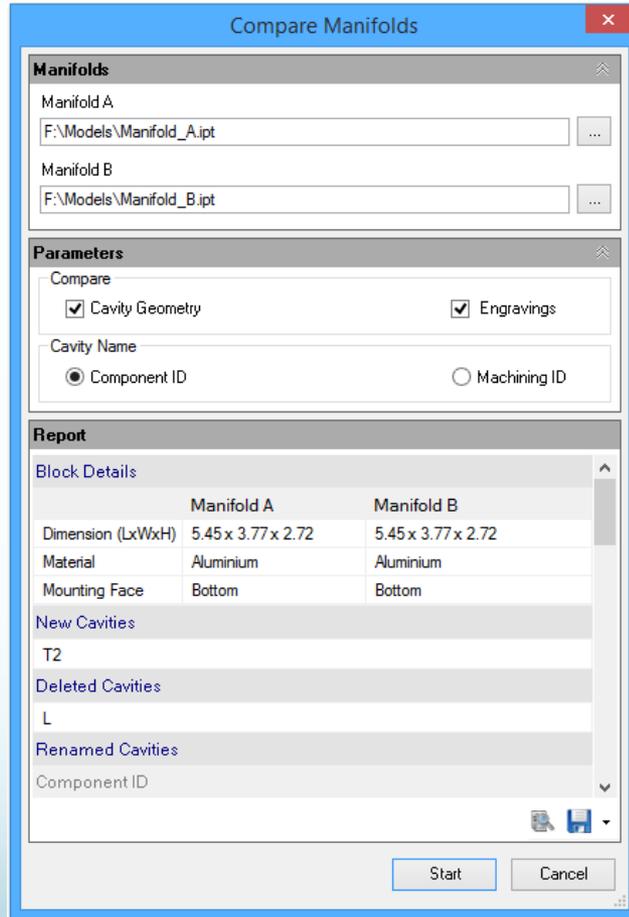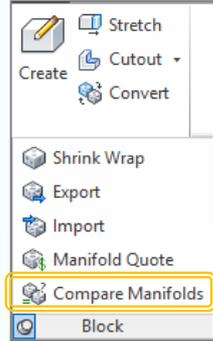**Note**: Same options is already available in **Miscellaneous** tab of MDTools Settings.
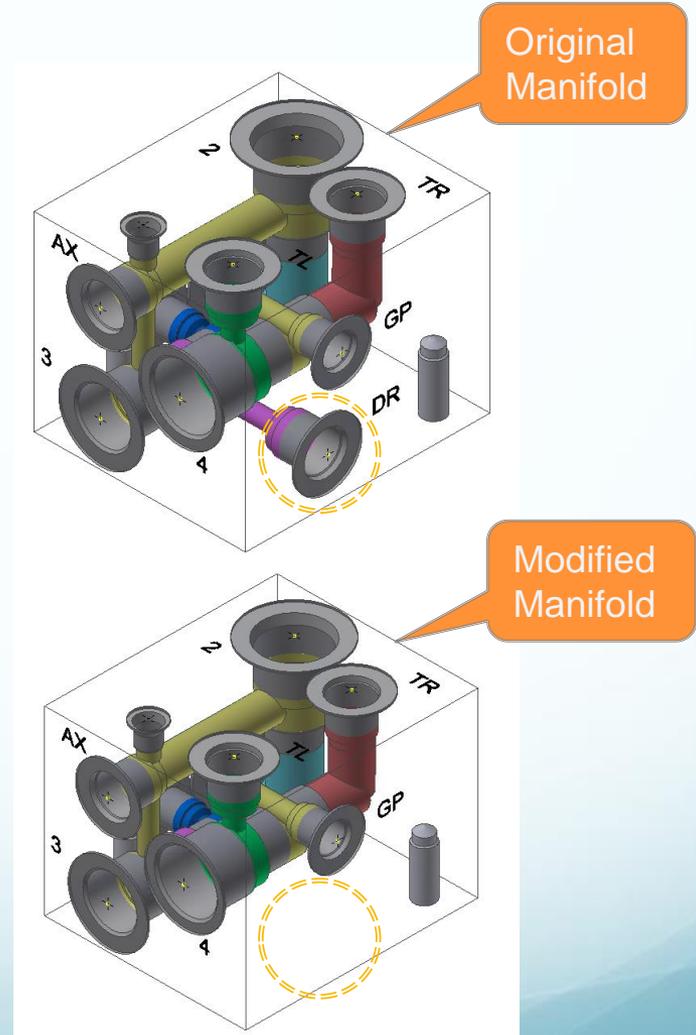
Compare Manifolds

Compare Two Manifolds and List the Difference

NEW

Location In MDTools Ribbon

Create
- Stretch
- Cutout
- Convert

- Shrink Wrap
- Export
- Import
- Manifold Quote
- **Compare Manifolds**
- Block

Differences are listed in the Report

Compare Manifolds

Manifolds

Manifold A
`F:\Models\Manifold_A.ipt`

Manifold B
`F:\Models\Manifold_B.ipt`

Parameters

Compare
- ☑ Cavity Geometry
- ☑ Engravings

Cavity Name
- ◉ Component ID
- ○ Machining ID

Report

Block Details

	Manifold A	Manifold B
Dimension (LxWxH)	5.45 x 3.77 x 2.72	5.45 x 3.77 x 2.72
Material	Aluminium	Aluminium
Mounting Face	Bottom	Bottom

New Cavities

T2

Deleted Cavities

L

Renamed Cavities

Component ID

Start | Cancel

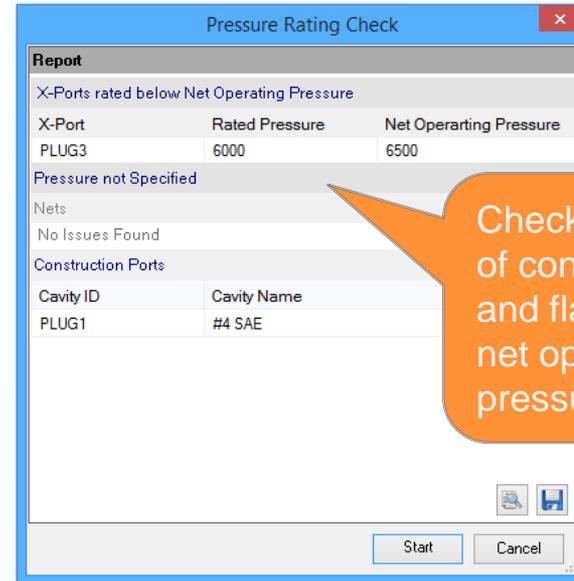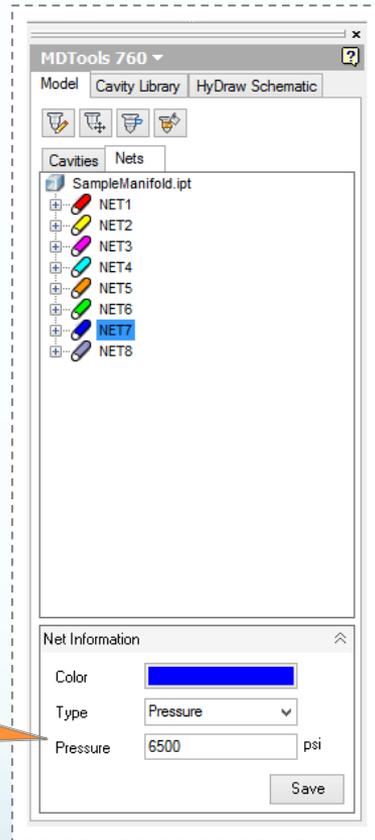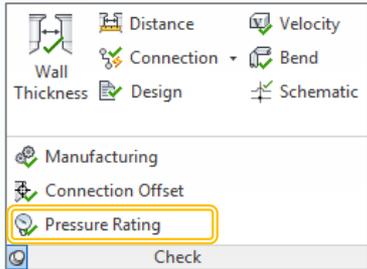**Original Manifold**

Modified Manifold

Pressure Rating

Validate Construction Ports Pressure Rating per Net Operating Pressure

NEW

Location In MDTools Ribbon

Check rated pressure of construction ports and flanges against net operating pressure

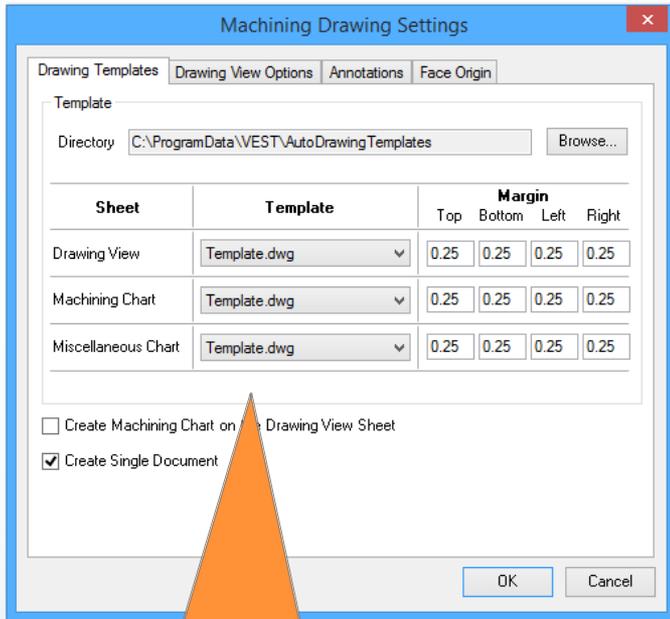Change net operating pressure

Note: 1. MDTools will also validate construction ports at the time of connection.

2. Change construction port pressure in the MDTools *Edit Cavity* command and Net operating pressure in MDTools Connectivity browser.
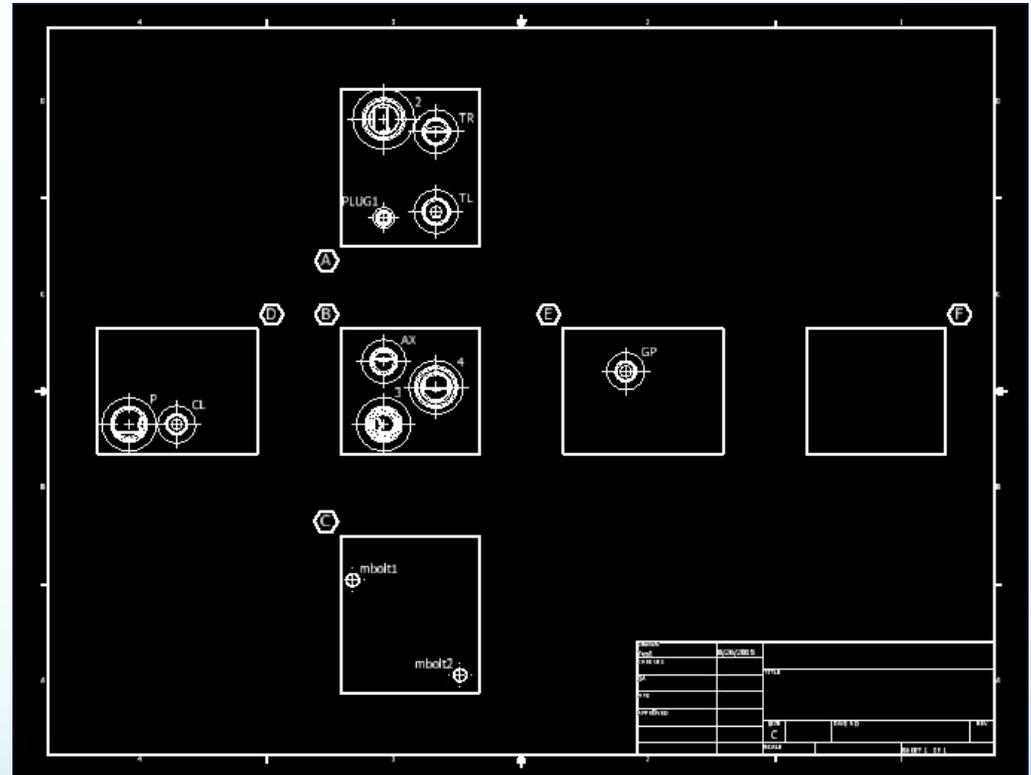
Machining Drawing

Automatic Machining Drawing (AutoCAD .dwg support)

NEW

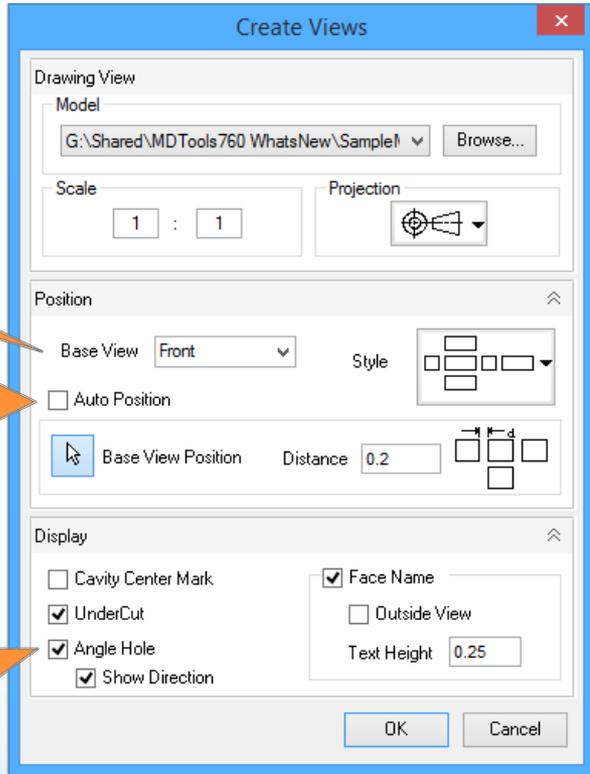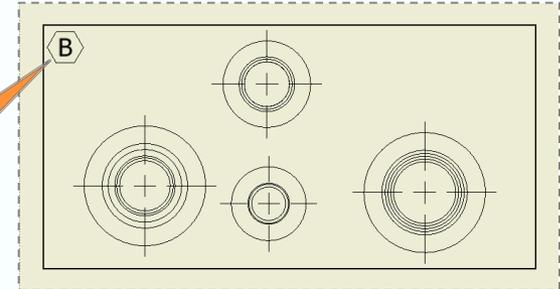Use AutoCAD drawing files (.dwg) as templates for Automatic Machining Drawing

Placement of Machining IDs
without overlapping cavities & Control Text Height

Control text height of machining IDs

Configure Machining ID

☑ Same as Component ID Text Height `0.125`

☐ Display Within Balloons

Start balloon from
◉ Center of Cavity ○ Edge of the Cavity

☑ Display Cavity Location

[OK] [Cancel]

2D Views

New Drawing Layout Option

NEW

Select any view as Base View

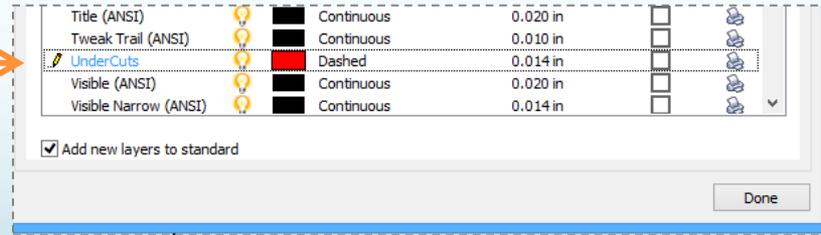Define position of base view manually

Display UnderCut and Angle Hole

Create Views

Drawing View

Model
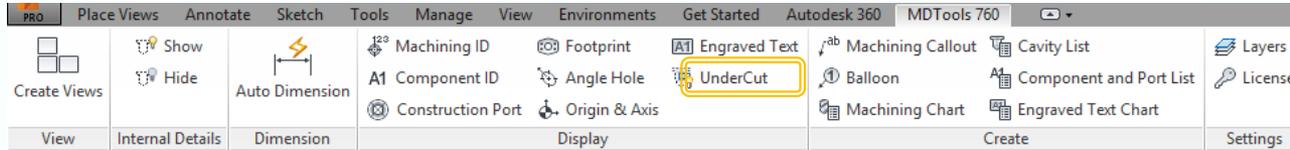G:\Shared\MDTools760 WhatsNew\SampleM   Browse...

Scale   **Projection**
1 : 1

Position

Base View   Front   Style

☐ Auto Position

Base View Position   Distance   0.2

Display

☐ Cavity Center Mark   ☑ Face Name
☑ UnderCut   ☐ Outside View
☑ Angle Hole   Text Height   0.25
  ☑ Show Direction

OK   Cancel

B — Face Name inside of the view

B — Face Name outside of the view
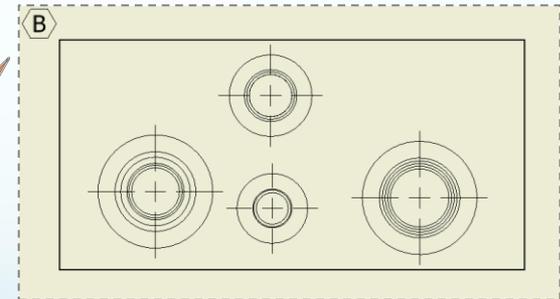
Undercuts

Show/Hide Undercuts in Drawing

NEW

Top view of undercut
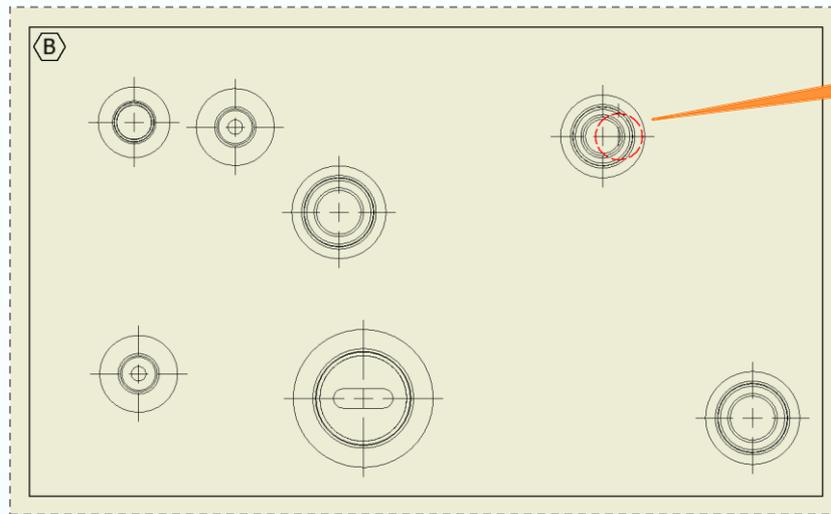
Note: Undercuts will be placed on a separate layer.

Title (ANSI)		Continuous	0.020 in	
Tweak Trail (ANSI)		Continuous	0.010 in	
UnderCuts		Dashed	0.014 in	
Visible (ANSI)		Continuous	0.020 in	
Visible Narrow (ANSI)		Continuous	0.014 in	

☑ Add new layers to standard

Done

Machining Chart

Enhanced Machining Chart Interface

NEW

Control column width

Control row gap

Machining Chart created as Inventor Table

Machining Chart created as Inventor table for easy modification

Machining Callout

Machining Callout Position Retained

NEW

Retain the location of existing callouts when updating the machining callouts

DRILL Ø0.438 ▽1
FORM PORT Ø#5 SAE ▽0.03
TAP UNF-2B Ø1/2-20 ▽0.48

DRILL Ø0.188 ▽1.97
05030 Ø0.984 ▽0.04

DRILLØ0.438▽1.5 β30 α15
080-2Ø1.062▽0.17

DRILL Ø0.562 ▽1.5
100-2 Ø1.188 ▽0.03

DRILL Ø0.562 ▽1.5
100-2 Ø1.188 ▽0.03

Y

X

DRILL Ø0.188 ▽1.97
05030 Ø0.984 ▽0.04

SLOT (TOOL NAME) Ø.25 ▽2.5

Machining callout for slot

UNDERCUT (TOOL NAME) Ø.591 ▽1.400 α90

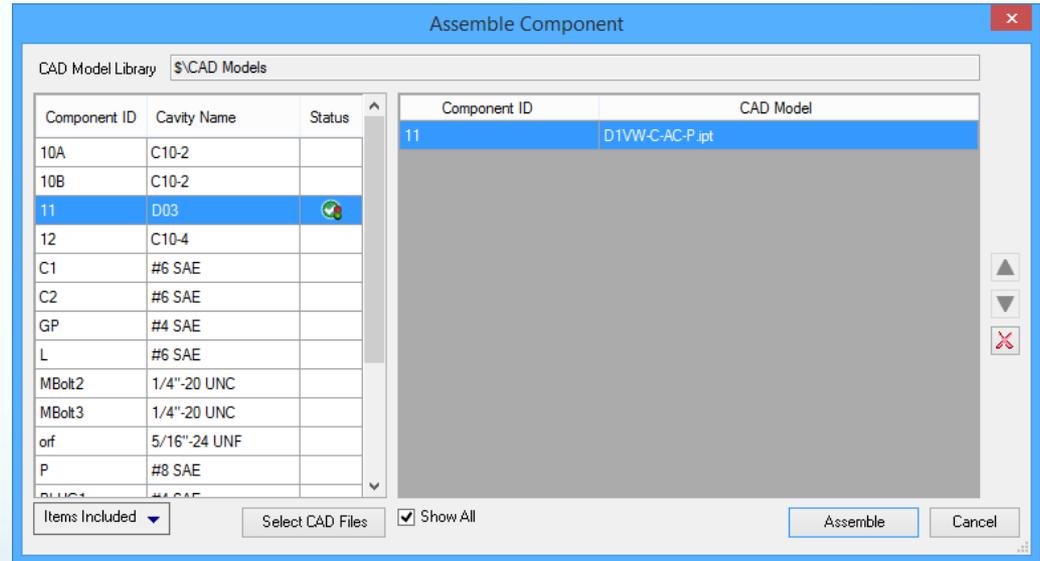Machining callout for undercut

VEST
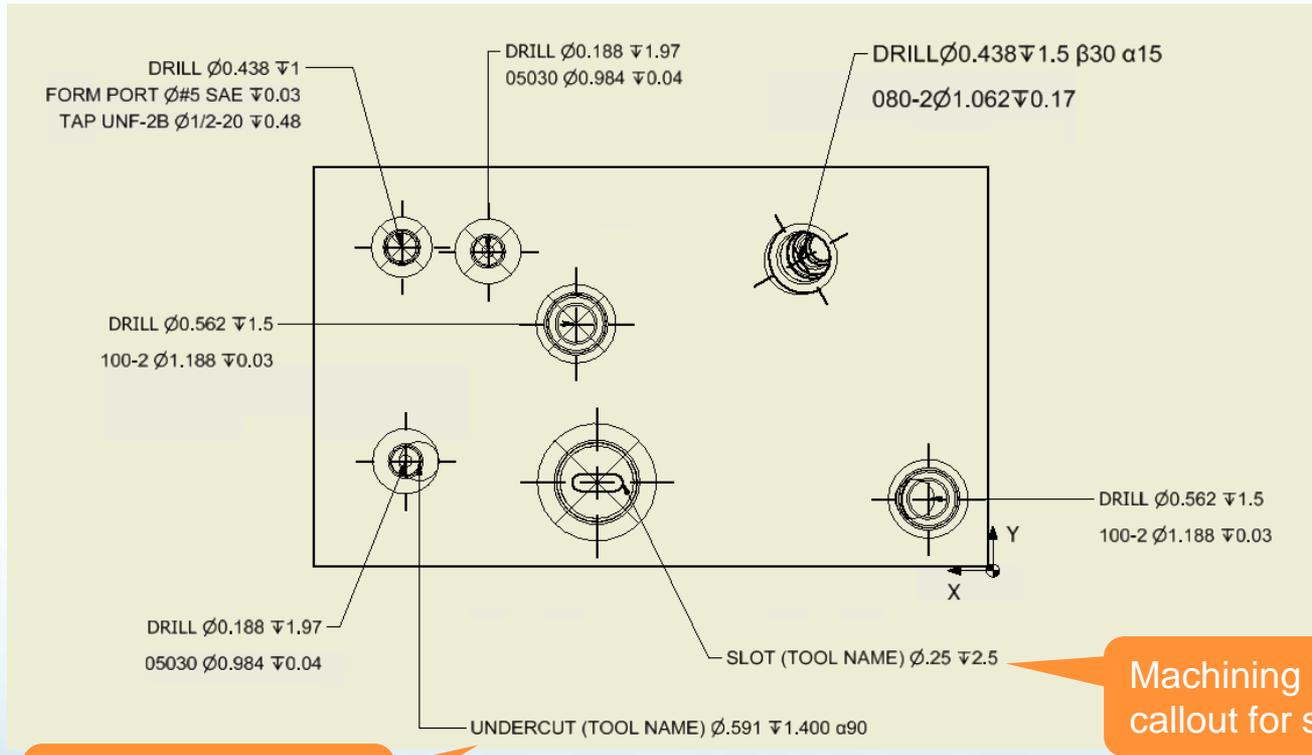
Autodesk Vault Server

Assign CAD Models from Autodesk Vault Server
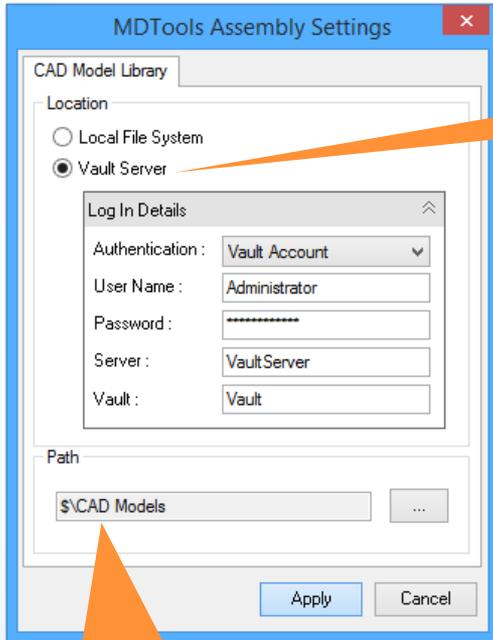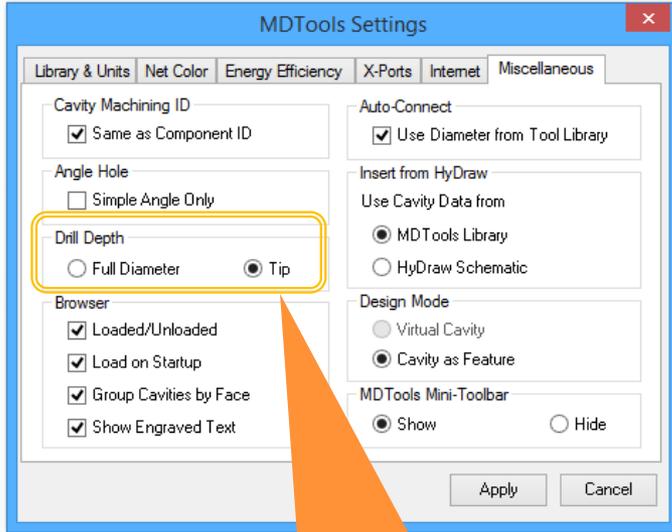
Option to use
Autodesk Vault Server

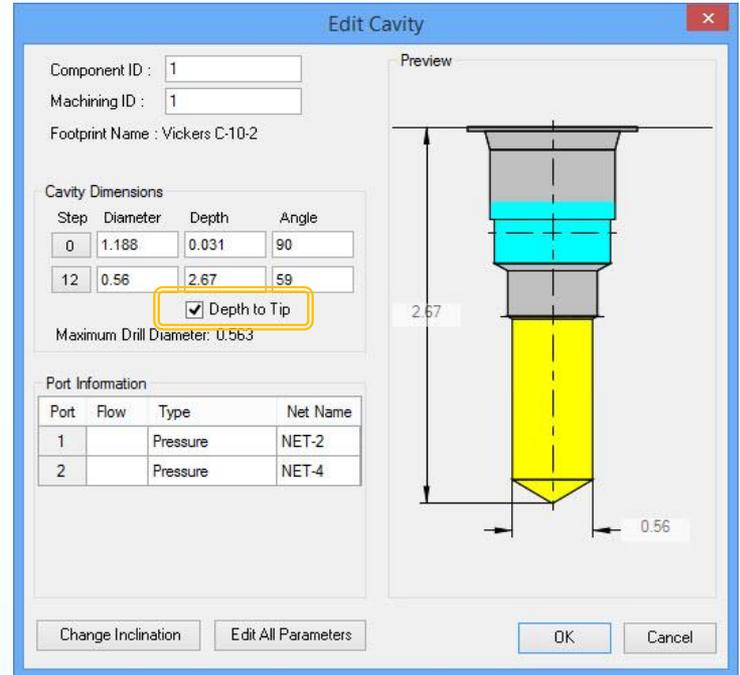Selected CAD Model
Library path

Miscellaneous

Select Drill Depths in Settings

NEW

Select Drill Depth preference in Settings

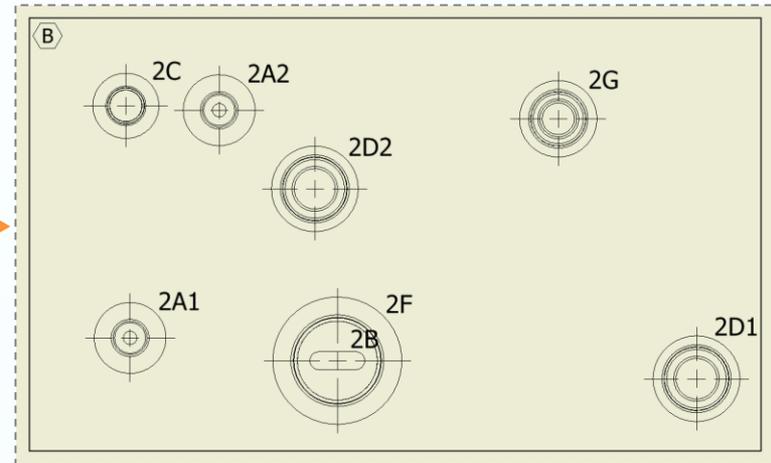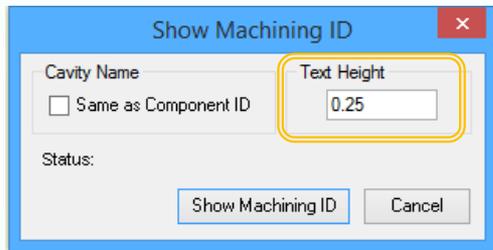**Note**: You can override the Drill Depth settings locally while using the relevant commands.
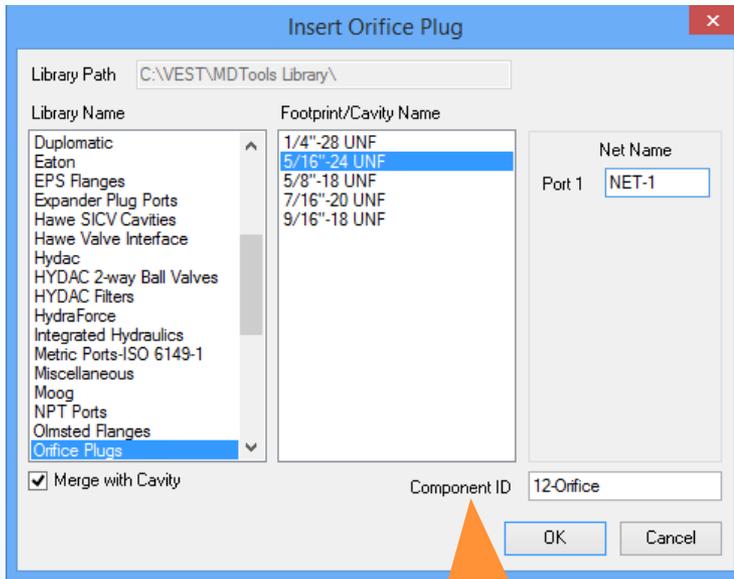
Control Text Height of Annotations in a Drawing

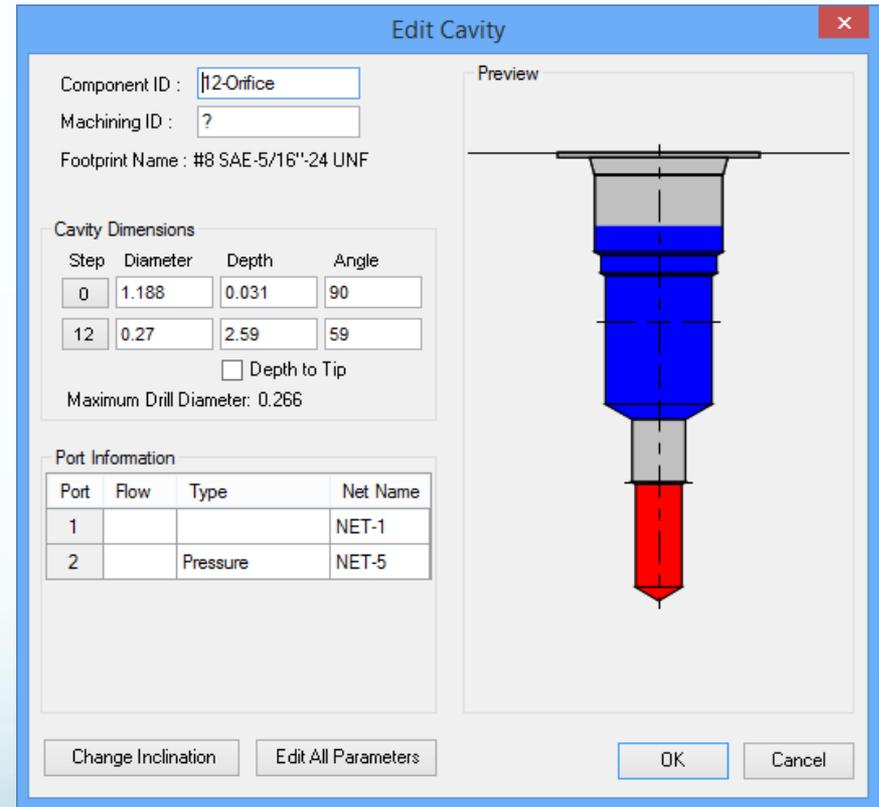**Note**: Option to define text height is also available for **Show Component ID** and **Show Footprint** commands.

Modify Component ID of Parent Cavity while inserting Orifice Plug

Modify the Component ID of a parent cavity when merged with an orifice

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MDTools® manifold design software

FREE   **MDTools** 760 Evaluation Software

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INVENTOR®
2016

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call +39 328 695 70 01 or email carlo.molon@fluidpower.it

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