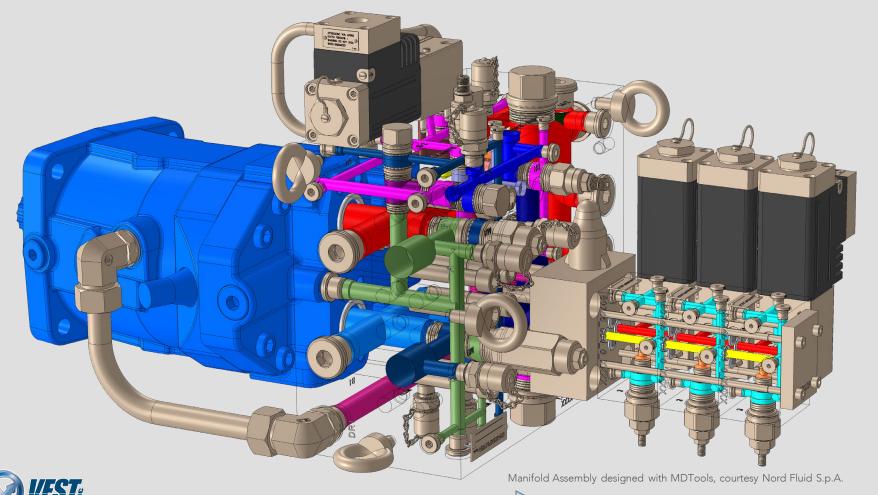
# MDTools® 780

### What's New



## MDTools® 780 What's New

Performance Improved

New Use of Inventor Features

Miscellaneous

Stretch and Incline Drill Options

Clearance from SF/CB to Working Area

Cavity Count and Design Mode Display

Precisely Position Engravings

Auto Scale Drawing Views

Balloons Placed Optimally

Assemble Valve using Bolt Holes Pattern

**Autodesk Viewer Compatibility** 

Large Manifold Color Options

Improved Speed in Feature Mode

Performance Optimized

Single Hole Feature

Large Manifold Color Settings

Recommendation

**Appendix** 

Performance Test Specifications

Caution

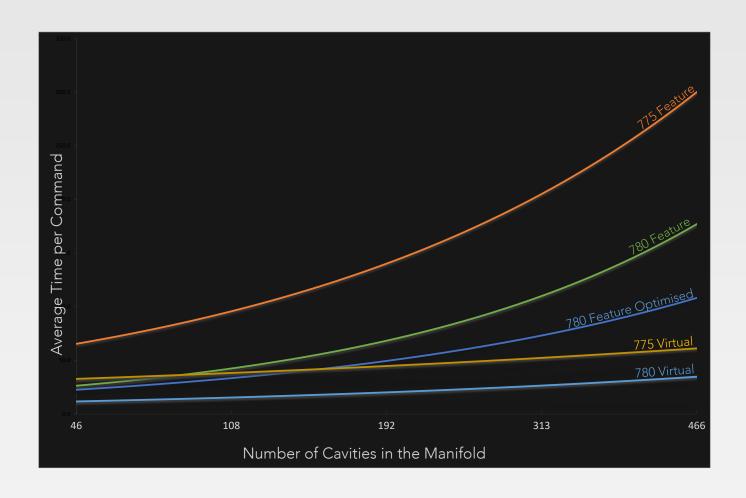






### Performance Improved

#### Manifold Design is now two to three times faster





### Improved Speed in Feature Mode

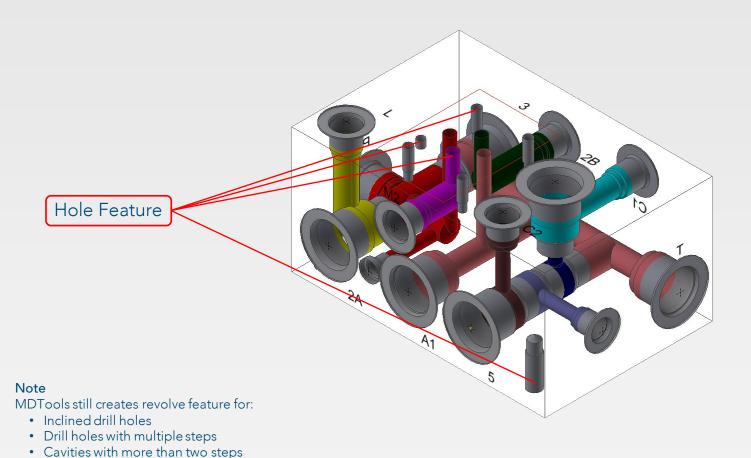
All aspects of Inventor® and MDTools® leveraged to achieve significant speed enhancement





#### New Use of Inventor® Features

Inventor Hole feature introduced to simplify the model and speedup commands

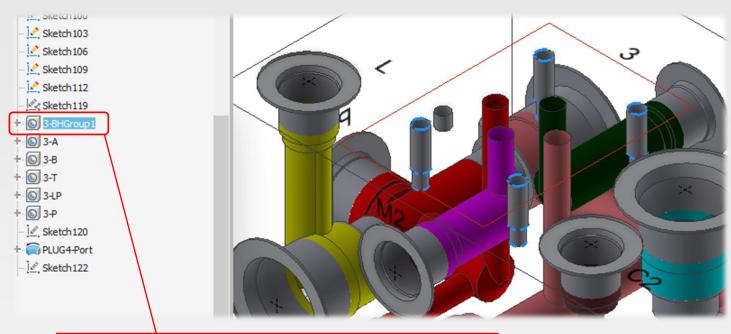






### Single Hole Feature

Identical bolt holes in a footprint now uses a single Inventor Hole Feature to simplify feature complexity of the model



All four bolt holes as a single grouped Hole Feature

#### Note

Any modification in bolt hole dimensions, automatically modifies all the related bolt holes, unless otherwise specified.



### Large Manifold Color Options

MDTools 780 introduces new visual options that can expedite the design of large manifolds within Feature Mode.

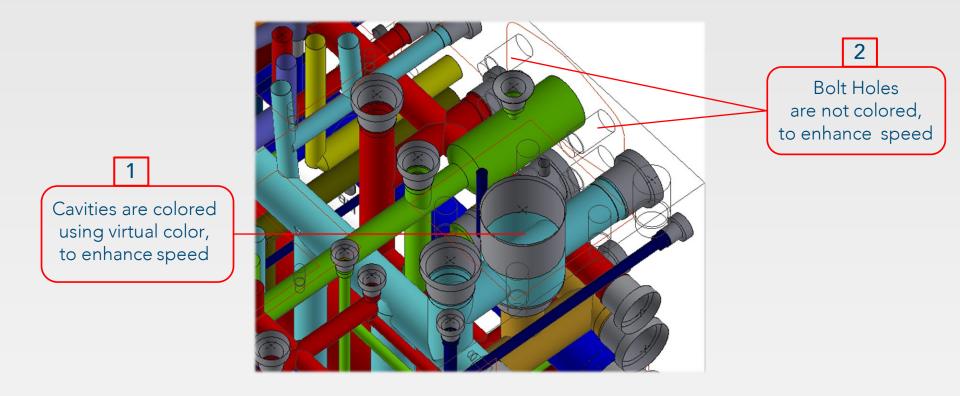
These options sacrifice minor graphic details for enhanced performance.





### Performance Optimized

#### Large Manifold Design options introduced

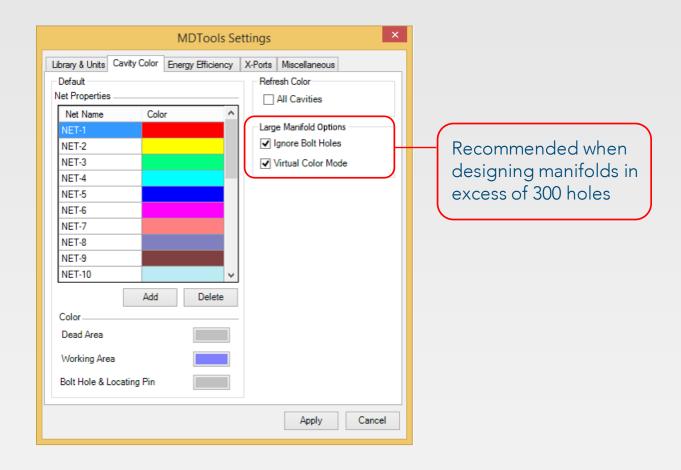






### Large Manifold Color Settings

#### MDTools Settings > Cavity Color > Large Manifold Mode

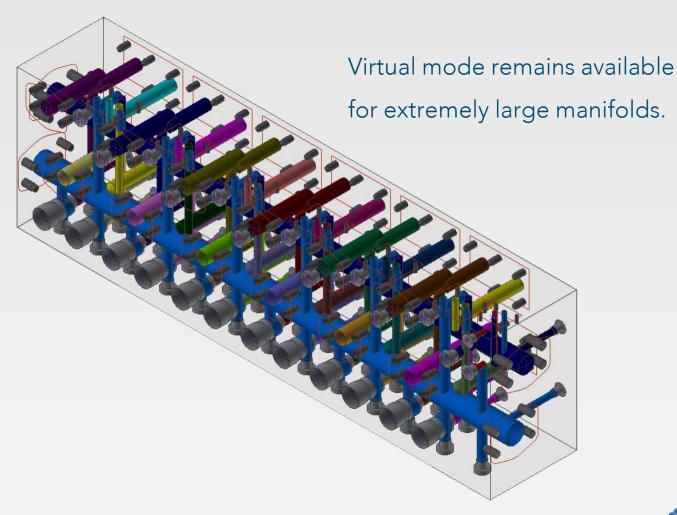






#### Recommendation

Designing large manifolds in Feature mode is now viable!





#### Miscellaneous

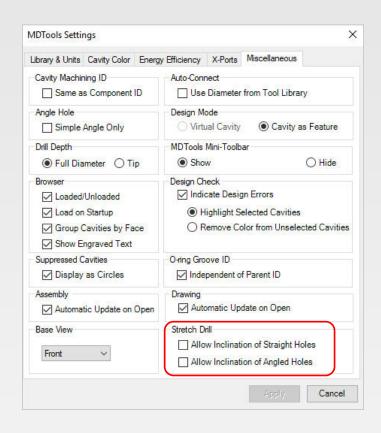
....in addition to the main thrust to improve speed, some new capabilities added

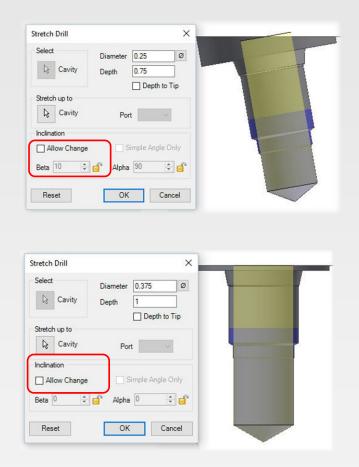




#### Stretch and Incline Drill Options

#### Control Stretch Drill settings







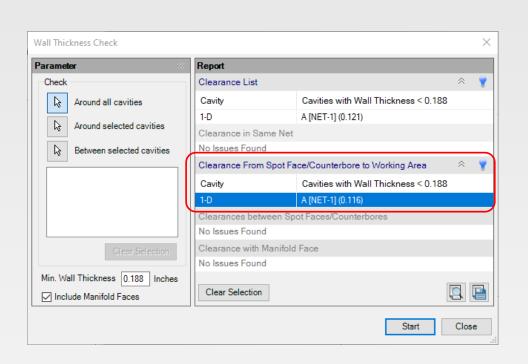


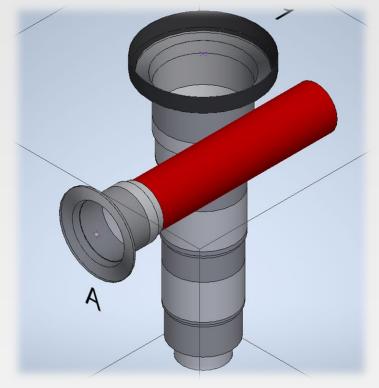




#### Clearance from SF/CB to Working Area

# Min. Wall Thickness from Spot Face/Counterbore to Working Area listed in a separate section



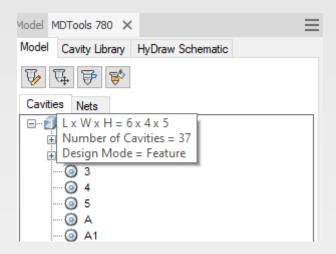






### Cavity Count and Design Mode Display

Number of Cavities and the current Design Mode listed in Part File

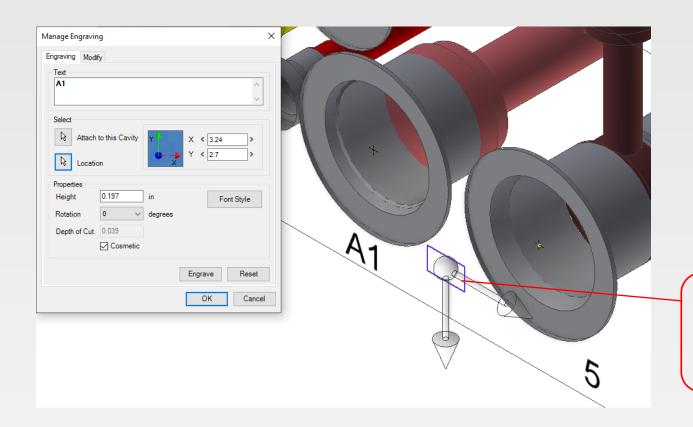






### Precisely Position Engravings

#### Drag and relocate engravings



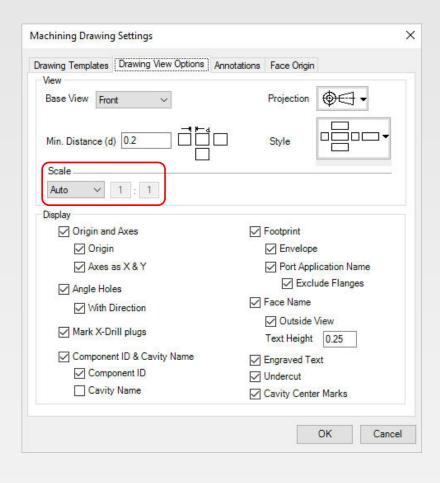
Preview of the new engraving position displayed within a purple box.





#### Auto Scale Drawing Views

#### Option to automatically scale the view to the drawing size

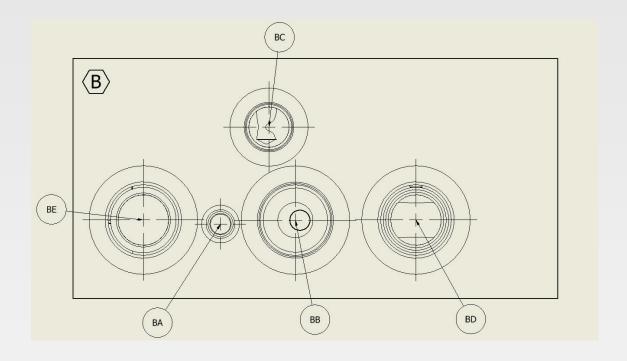






### Balloons Placed Optimally

Balloons placed outside the face boundary with reduced overlapping

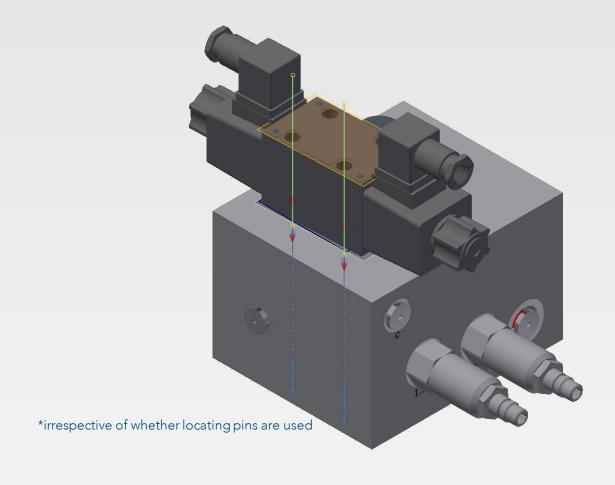






## Assemble Valves using Bolt Hole Pattern

#### Valves located\* using BH1 and BH2 as axis

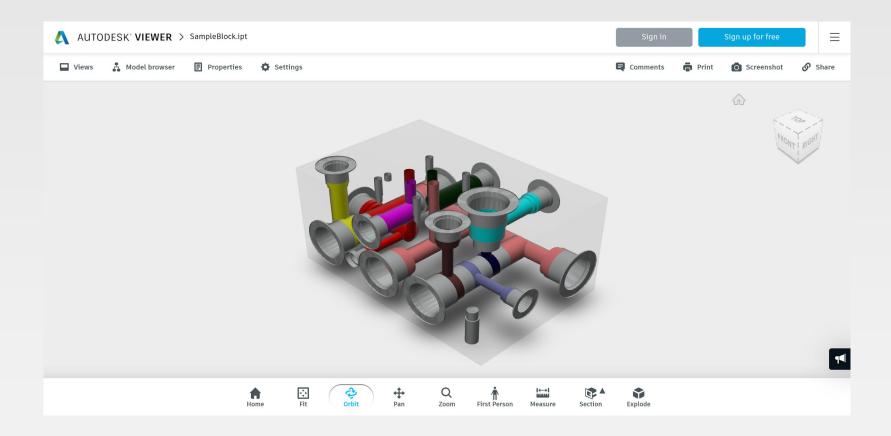






#### Autodesk® Viewer Compatibility

# Manifold net colors visible, when shared online in the Autodesk Viewer





## Appendix

....performance test specifications and a note of caution





#### Performance Test Specifications

#### Manifolds used



- Increase Manifold Length
- Color All Cavities

#### System Specification

- Inventor® 2020
- Windows® 10 Pro 64-bit
- 16 GB Memory
- Intel<sup>®</sup> Core<sup>™</sup> i5-9400 CPU @ 4.1GHz



Industrial Manifold

with 313 Cavities

#### Caution\*

MDTools® 780\* designed manifolds are not compatible with all previous versions of MDTools.

\*If needed, export the MDTools 780 design in the MBXML format and then import into a previous version.



#### MDTools® 780

#### premier 3D manifold design software

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