MDTools® 975 Service Pack 2.1

Applicability: MDTools 975 with or without previous Service Packs and Hotfixes.

Issue Resolved:

1. For conversion from virtual mode to feature mode the memory usage has been reduced and the speed of conversion has been improved.

2. Upon conversion from virtual to feature mode, aligned flanges were reverting to a zero-degree rotation.

3. Bolt holes in footprints on opposite faces that overlapped created duplicate entries in the MDTools browser.

Date: July 20, 2022

MDTools® 975 Hotfix 04

Applicability: MDTools 975 with Service Pack 2

Issue Resolved:

1. Machining Chart Update now checks if the table extends past the border of the Drawing sheet.

2. Merging an orifice to a cavity that did not have a Step12 automatically populates the wrong references in the Machining sequence.

3. A Machining Chart created by specifying a range of cavities now includes any new cavities added afterward.

Date: May 4, 2022

MDTools® 975 Service Pack 2

Applicability: MDTools 975 with or without Service Pack 1 and Hotfixes 01, 02, 03 installed.

Issues Resolved:

1. Removing material from the blocks was reducing the drill depth for both cavities in through holes drilled from both sides (colinear cavities on opposite faces).

2. UnConstrain was not removing all constraints for footprints (specifically ones aligned on opposite faces).

3. Component ID command was creating duplicate IDs on any additional non-MDTools views.

4. Un-attached engravings don't move with the stretched block in the same way as attached engravings and cavities.

5. When a block is converted from Virtual Mode, the Move multiple command is crashing if 2 Drill Holes are selected.

6. Move multiple command is crashing if an offset hole (or unmerged orifice) is selected in feature mode.

7. When Engraved Text Chart is split into multiple tables, it creates duplicate entries.

8. MDTools adds component ID from the Front view to empty drawing views.

9. Solidworks was crashing frequently when executing Auto Dimension or the Update Drawing command.

10. MDTools was unable to copy a Cavity if cavity center point overlapping with any engraving in block.

11. Inserting a Cavity from a HyDraw Schematic was not automatically inserting the engraving text as well (regression due to HF03)

12. GUI compatibility issues fixed for Windows 11.

13. MDTools Options was displaying an incorrect Library path when using an SQL library.

14. Conversion from Feature mode was extremely slow (to the point of non-functioning in some cases) with non-cosmetic engravings.

15. MDTools was unable to select a cavity as a reference point for the Move command in Feature mode.

16. When inserting Machining charts if the text size was small, the chart would overshoot the area the user indicated.

Date: Mar 21, 2022

* MDTools® 975 SP2 includes all earlier Hotfixes and Service Pack

MDTools® 975 Hotfix 03

Applicability: MDTools 975 with Service Pack 01

Issue Resolved:

4. Advanced hole features fail in certain types of intersections with other features. If MDTools detects the hole feature has failed it will switch to using a revolved cut like previous versions of MDTools.

Date: Dec 8, 2021

MDTools® 975 Service Pack 1

Applicability: MDTools 975 with or without Hotfix 01 and Hotfix 02.

Issue Resolved:

1. With specific settings update drawing was crashing because of problems encountered with offset and orifice holes.

2. Create Machining Drawing was crashing for a specific block due to problems with the precise positioning of engraving text.

3. Deleting a cavity was deleting any cavities constrained to it.

4. In Virtual Design Mode using undo on a replace command for a cavity in a Footprint would result in the Footprint not converting to Feature mode properly.

5. It was possible to enter negative numbers for port Flow, now there is validation.

6. Shrink wrap was failing for specific cavity profiles.

7. X-Port command was changing the port type of the first cavity selected when connecting 2 different port types.

8. Angular Drills inserted using the Angular Connection command were previously treated as Construction Ports.

9. In the Connection Check command, the Error in Nets section would not be reported to the text file if there were too many entries in other sections.

10. In MDTools Drawing Option for Drawing Environment, the preview in the Dimensions Tab will now update if you change the angle of projection from the Drawing View tab.

11. Auto Assemble was loading each component model twice during assembly.

12. If a Net area partially cut into a dead area, Assign Net wouldn't function properly.

13. A unique validation message now exists when using the Connect Cavity command on multi-step cavities without a Step 12.

14. When a Footprint child cavity was suppressed, it's O-ring was not being suppressed.

15. Renaming a Footprint was hiding the names of suppressed Bolt Holes in the MDTools Model Browser.

16. Bolt holes in a footprint would not be suppressed if you selected an even number of them.

17. Trying to create Machining Callouts for Slots was creating Callouts for O-rings.

18. Trying to create Machining Callouts for Undercuts was creating Machining Callouts for the parent cavities.

19. Create Cavity list is no longer allowed to display 14 decimal places for slot diameter.

20. The selection highlight for Suppressing/Un-suppressing Bolt Holes of Footprints was remaining after the command was finished.

21. Adding a merged Orifice in the Drill Hole of a rotated Footprint, caused the foot print to rotate to it's default angle.

22. Changing the Base View was resulting in Auto Dimensions missing on specific configured sides.

23. When Creating Views it was possible to click Ok twice quickly and get an error message.

24. Undercut features were failing upon adding a merged Orifice to a cavity with an attached Undercut.

25. Importing an MBXML that had specific footprint outlines resulted in errors.

26. During Create Views, Engravings near the border would cause Solidworks to crash.

27. The Machining Chart command now recognizes part configuration states.

28. With a specific block, Connecting the child cavity of the Footprint with a Cartridge Valve was prevented with a validation message.

29. Changing the Face Name in Machining ID caused X and Y values to be reversed in the Machining Chart.

30. In Align Cavities selecting a cavity now moves the selection forward to the next prompt.

31. Stretch Block was giving an incorrect validation message if there was a constrained cavity.

32. Converting to virtual mode then back to feature model removed Bolt Hole cavity details.

33. Offset holes were being created perpendicular to the parent cavity drill cone instead of the manifold face.

34. Removing material from the block caused the Step 12 depth to be smaller than the earlier Step depths.

35. MDTools was displaying an error upon editing the Undercut of an inclined parent Drill Hole of a Footprint.

36. Trying to create an Undercut for a #6SAE Port would return a validation message requiring an unreasonably small diameter.

Date: Oct 22, 2021

* MDTools® 975 SP1 includes all earlier Hotfixes and Service Pack

MDTools® 975 Hotfix 02

Applicability: MDTools 975 with Hotfix 01

Issue Resolved:

1. Advanced hole features fail in certain types of intersections with other features. If MDTools detects the hole feature has failed it will switch to using a revolved cut like previous versions of MDTools.

Date: Sep 1, 2021

MDTools® 975 Hotfix 01

Applicability: MDTools 975 installed

Issue Resolved:

1. Incorrect Validation Message is shown when MDTools loads with Solidworks language pack other than English.

2. Insert or replace a cavity without Step 12 causes the feature to fail.

Date: July 27, 2021