



Resolved CPRs

CAMWorks 2022 SP5

* Please refer to 'What's New' PDF document for details regarding enhancements in CAMWorks 2022.

| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------------------|------------------------|------------|---|
| 1. | CW-117528 | CSR-21726 | ShopFloor | The CAMWorks ShopFloor application crashes when user closes the Statistics dialog box after invoking it for a specific Z Level operation in the specific ShopFloor file being viewed. |
| 2. | CWR-2079 | CSR-21526 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced', the toolpath generated for 'Flat Area' operation is unable to restrict itself to the top flat surface of the part. This issue is observed when the Automatic Contain Area's tool condition is set to 'Past'. |
| 3. | CW-117429 CW-115824 | CSR-21626 CSR-20657 | Toolpath | For the specific Mill part, if the Gouge Check option is unchecked, then the lead in/lead out for the Rest Machining Contour Mill toolpath gets applied in the incorrect direction resulting in gouging of the part. If the Gouge Check option is checked, then the toolpath fails to generate. |
| 4. | CW-117311 | CSR-21585 | UIF | In Turn/Mill-Turn mode of CAMWorks 2022 SP0 and later versions, for Face Finish operations, if user unchecks the Undercut checkbox option under Face Finish tab and saves the changes, then up on revisiting this tab, it is observed that the checkbox option gets rechecked. |
| 5. | CW-117292 | CSR-21583 | System | When applying default operation parameters to the new Multiaxis operation in CAMWORKS 2022, on attempting to save them, the SOLIDWORKS application crashes. This issue was not observed in previous versions of CAMWorks. |
| 6. | CW-117257 | CSR-21514 | System | SOLIDWORKS CAM application running in Chinese language crashes when editing the Pattern direction in Feature Manager. |
| 7. | CW-116944 | CSR-21235 | ShopFloor | When the SOLIDWORKS CAM ShopFloor Publisher is loaded as an Add-in within SOLIDWORKS running in Spanish language, the ShopFloor Publisher successfully loads and the commands are visible in the Command Manager; however, they do not work. |
| 8. | CW-116932 | CSR-21352 | Feed Speed | Even if the 'Max Feedrate' value is changed in the TechDB, it does not get updated for an operation after reselection of machine and execution of Rebuild command. |
| 9. | CW-116822 | CSR-21320 | UIF | For Mill parts having Pattern Project operations, when the pattern type for it is set to "Radial" and Point Selection option is selected, the image displayed in Preview window is of "Spiral" output type instead of "Radial" type. |



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| 10. | CW-116769 | CSR-21029 | Post | Change the behavior of the post variable "IS_WRAPPED" so that it is not set to TRUE for Entry Drill/Hole operations generated along with Rough or Contour Mill operations for the Wrapped features. |
| 11. | CW-116765 | CSR-21260 | Post | In Mill-Turn mode, for Wrapped features, the wrong arc angle values are getting generated for Sub Spindle operations. This is due to incorrect computation for ARC_INC_ANGLE variable. |
| 12. | CW-116681 | CSR-20765 | Feed Speed | In Mill mode, the Feed/Speed values for Rough Mill and Contour Mill operations are not correctly modified based on the Axial cut depth factor in the Feeds and Speeds Library. |
| 13. | CW-116649 | CSR-21155 | Feature | For the specific Mill part with irregular slot feature, the wrong largest Inscribed Circle is being used to recognize the slot feature resulting in incorrect tool selection. |
| 14. | CW-116571 | CSR-21104 | TechDB | For the customer-specific TechDB file, in the Thread Mill user interface, the data associated with thread type "MF" is missing. When the same TechDB file is linked to the CAMWorks application, the data related to MF tools is visible in the relevant user interface. |
| 15. | CW-116520 | CSR-21089 | System | In CAMWorks 2022, if you attempt to insert a Mill Setup in the absence of a solid body/surface for the part file, it will cause CAMWorks/SOLIDWORKS to crash. |
| 16. | CW-116512 | CSR-21012 | Post | For the specific Assembly file with 8 component parts, when post processing with the custom Post Processor, more time than standard processing time is taken. However, if the default 'M3AXIS_TUTORIAL.CTL' post processor is used, the time taken for post processing is on par. |
| 17. | CW-116507 | CSR-20955 | API | Customer uses API to determine the location of MT files associated with user-defined tools. However, when inserting API in C# codes, desired results are not achieved. |
| 18. | CW-116471 | CSR-20604 | Operation | For customers using APT post, a pre-Implementation that allows addition of a "PostName.ASP" (Active Smoothing Parameters) file that instructs the system to activate smoothing parameters using the ModuleWorks parameter defaults is required for Multiaxis Operation parameters. |
| 19. | CW-116466 | CSR-21019 | System | When the specific Mill part is opened in any CAMWorks versions released after CAMWorks 2020 SP0 release, if user adds a new toolpath and executes the Save command to save the changes, then an error message indicating failure to save new data gets displayed. User is unable to save toolpath additions. |



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| 20. | CW-116442 | CSR-20917 | TechDB | In the TechDB, for Mill "Open Profile/ Open Wrapped Profile" feature, the Tool type definition for Feature Condition with ID '219' is missing. |
| 21. | CW-116369 | CSR-20970 | Feed Speed | If the decimal symbol is changed from "." to "," (Comma) within the Regional Settings option of Windows Control Panel, then it affects the new Material Library. If a new material is created in the Material Library, then the function of Feeds and Speeds by percentage of default material does not work. All the values are displayed as zero. |
| 22. | CW-116335 | CSR-20943 | Toolpath | For the specific Mill parts, the Rough Mill toolpath generates extremely small arcs that cannot be posted resulting in overcutting while machining. |
| 23. | CW-116330 | CSR-20929 | TechDB | For exporting the customized TechDB, the supported file type indicated is in CSV (*.csv) format. However, up on executing the export command, the file extension appears as "<Filename>.cwjs.csv". This file format cannot be re-imported in SOLIDWORKS CAM having standard license as the supported file type is pre-set to *.cwjs. |
| 24. | CW-116316 | CSR-20918 CSR-21293 | Operation | For specific Turn part, on generating an operation for its Turn Drill operation, the machining length generated using expression or constant defined in the custom TechDB does not get applied to the toolpath machining depth. |
| 25. | CW-116304 | CSR-20910 | TechDB | In Turn mode, right-clicking on any Turn feature in the Feature tree and selecting Parameters in context menu will display the Feature Parameters dialog box. Clicking on the TechDB ID for strategy selected in Strategy drop-down list launches TechDB application and displays the features and operations. However, data for the wrong TechDB ID is getting displayed. |
| 26. | CW-116254 | CSR-20869 | Post | For the specific Mill part that uses a Corner Round tool for its Mill operation, the APT code generated using MILL Apt post does not output the radius of Corner round tool under Cutter details. |
| 27. | CW-116203 | CSR-20726 | API | Existing API: "CWPostOperationParam::get_PostParamValueList()" is not functioning correctly. |
| 28. | CW-116194 | CSR-20825 | Post | When using custom Post Processor to generate posted output, the output of post variables CI, CJ, CK, MACH_CI, MACH_CJ and MACH_CK for vector contact point for Mirror toolpaths is incorrect. |
| 29. | CW-116092 | CSR-20741 | API | The API function 'GetLeadAmt' or 'GetLeadAmt2' on a 'CWLeadInOut' object "percent" returns incorrect value for Leadin/Leadout, even when the percentage is selected. |



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| 30. | CW-116089 | CSR-20810 | UIF | For the specific Mill part having more than hundred surface bodies, when user attempts edit its stock definition by executing the command, it takes more than 45 seconds to load the Stock Manager dialog box. |
| 31. | CW-116059 | CSR-20797 | Operation | For any Turn part having the Rectangular Groove features on its Outer diameter that are machined from Main Spindle and Sub Spindle, if the same tool is used for machining these groove features, then the tool and holder orientation changes after generating of operations. This change to incorrect orientation results in failure to generate toolpaths. |
| 32. | CW-116046 | CSR-20751 | Toolpath | In Mill Part and Assembly modes, when the 'Avoid' checkbox is checked to avoid fixtures and the Step through command is executed, then the Contour Mill toolpath get duplicated. |
| 33. | CW-116040 | CSR-20734 | Post | When the specific custom Post Processor is used, the TOOL_ANGLE variable doesn't reset to 0 for non-tapered tools. |
| 34. | CW-115914 | CSR-20710 | System | User specific case: Whenever user tries to generate a 5 Axis Mill toolpath for a specific part, the user's computer crashes. |
| 35. | CW-115856 | CSR-20642 | UIF | For Multiaxis operations, when the "New Avoid Area..." function is applied to any toolpath the operation for this doesn't get displayed in the Operation tree. This occurs as Avoid Area function is not supported for Multiaxis operations. |
| 36. | CW-115773 | CSR-20602 | TechDB | In TechDB application, the Threading parameters needs to be updated for Tap Rolling and Tap Cutting strategies. |
| 37. | CW-115390 | CSR-20451 | Stock | The specific STL based Stock File does not maintain C/S Associativity with the part model unless the first Bounding box option is selected from the stock type in 'Stock Manager' user interface . |
| 38. | CW-115367 | CSR-20446 | Stock | In Milling mode, if cylindrical stock shape is selected and associated parameters are assigned, then the cylindrical stock consequently created has incorrect dimensions as double the value of 'Diameter Offset' parameter is considered. |
| 39. | CW-115357 | CSR-20438 | TechDB | The Feature Parameters strategy window doesn't connect to the correct strategy in the TechDB application and highlights some other Feature strategy within the list. |
| 40. | CW-115345 | CSR-20407 | Operation | In Mill mode, for Contour Mill operations, the percentage (%) based 'Cut Amt.' parameter for Contour Mill side parameter rough passes does not work correctly. This seems to be an incorrect calculation logic issue. |



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| 41. | CW-115327 | CSR-20420 | User Interface | For Contour Mill operations, the option "Add tool radius to leadin/leadout" under NC Tab has been removed from CAMWorks 2022 version onwards. However, this option is still present in the User interface of the TechDB application. |
| 42. | CW-115199 | CSR-20356 | System | For the specific Assembly file, when clicking on configuration "Hermle C40-2" the CAMWorks application crashes. |
| 43. | CW-115111 | CSR-20286 | VoluMill | In Assembly mode, when all fixture components are marked as 'Avoid Fixture' in the Mill Part Setup, then the 2.5 Axis VoluMill toolpath does not generate correctly. The areas above the fixtures do not get machined. |
| 44. | CW-115041 | CSR-20141 | Setup Sheet | The images for Tool Setup sheets are present in the wrong folder. Consequently, when generating a Setup Sheet, the images of the tool inserts are missing from the Setup Sheet Pages. |
| 45. | CW-114999 CW-114843 | CSR-11036 | Toolpath | For the specific Mill part, the contour mill toolpath generates an extra plunge move at the start of the second and subsequent depths of cut. |
| 46. | CW-114517 | CSR-19769 | VoluMill | For the specific Assembly file, the Rough Mill toolpath for the Face Feature (with Avoid Area defined using a sketch) is correctly generated when pocketing pattern is set to Zigzag. When pocketing pattern is set to VoluMill, a wrong toolpath is generated. |
| 47. | CW-114309 | CSR-19620 | Operation | For the specific Mill-Turn part with Main and Sub Spindle Coordinate systems, the coordinates for the Sub Spindle get flipped. Consequently, the Sub Spindle operations generated have incorrect orientation. |
| 48. | CW-114304 | CSR-19592 | ShopFloor | The ShopFloor file published for the specific Mill part using CAMWorks 2022 does not open in the ShopFloor 2022 application. |
| 49. | CW-114279 | CSR-19575 | User Interface | For the specific Turn part, in the CAMWorks Feature Tree, the yellow colored warning icons displayed for the Turn Features and Turn Setups are do not get removed even after executing Rebuild. |
| 50. | CW-114272 | CSR-19561 | Tool | When the Tool ID is changed in the Additional details (Tool/Holder) dialog box of Edit Tool Parameters, then up on saving the Tool Crib to TechDB it does not count it as an updated tool to be saved. This behavior is observed only when the other parameter "Vendor" in Additional details (Tool/Holder) dialog box is kept blank. |



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| 51. | CW-113914 CW-105370 | CSR-19504 CSR-15351 | Assembly | For the specific Assembly file, the stock for the seed part is defined using a SOLIDWORKS part file. When applying this stock to other component parts using the "Apply to All" functionality, it causes incorrect stock display for all those other parts. |
| 52. | CW-113519 | CSR-19361 | TechDB | In TechDB, for Probing operations, when a new operation is created and saved in "Default Operation Parameters" user interface and then used in the CAMWorks application, Probe toolpath for that operation will not be generated. |
| 53. | CW-113481 | CSR-19286 | Operation | For the specific assembly file, when inserting a new Contour Mill operation, if the "Copy from" another tool option is selected in Operation Parameters and the toolpath is generated, then the machining depth of the toolpath is incorrectly calculated. |
| 54. | CW-113164 | CSR-19235 | VoluMill | For the specific Mill assembly, when applying the "Avoid Fixture" condition to the VoluMill toolpath, it fails to avoid the designated Fixture components. |
| 55. | CW-112848 | --- | Setup Sheet | When publishing a Setup Sheet for specific Turn part, the Turn Holder parameter for Protrusion does not get output to the Setup Sheet in XML format. |
| 56. | CW-112846 | CSR-18810 | Operation | For the specific Mill-Turn part, when Sync Manager user interface is closed using OK or Cancel command, then upon reopening, the defined operation sequence for rear and front turrets is lost. |
| 57. | CW-112820 | CSR-18866 | System | For the specific Mill part, when attempting to generate toolpath for the copied Drilling operation, CAMWorks freezes and needs to be reloaded. |
| 58. | CW-111717 | CSR-18243 | API | When adding Avoid area or Contain area to an operation using CAMWorks API, a COM-Error is encountered. |
| 59. | CW-111574 | CSR-18077 | Operation | For the specific Mill-Turn part, all the turn operations display error reporting that the leadin/leadout moves are gouging the part. This error is present even when the Gouge detection option is disabled. |
| 60. | CW-110716 | CSR-17722 | API | CAMWorks API: CWTpBaseFeature gives COM Exception error. |
| 61. | CW-110534 | CSR-17538 | API | When adding the Hog nose tool using the API, the Stock material dropdown list from Cutting Parameters UI does not display all available materials. |
| 62. | CW-109894 | --- | User Interface | When filtering tools on the Tool Crib page, the Tab key does not work as expected when shifting focus to other fields. |



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| 63. | CW-109702 | CSR-16630 | Setup Sheet | Customer has requested information associated with four variables to be made available in custom Setup Sheet. |
| 64. | CW-109524 | CSR-17016 | Operation | For the specific assembly file, the Contain area defined for then its Pattern Project operation changes when the Mill Setup is opened and closed. The toolpath generated also reflects the changed contain area. |
| 65. | CW-109043 | CSR-16798 | Toolpath | In the assembly mode, for the generated Contour Mill operation, the Gouge option under NC tab is checked, the Ramp option under Contour tab is set to 'Cut Amount' and the Toolpath center is set to 'Without compensation'. When the toolpath is generated for this operation, it is incorrect as it starts machining from bottom of the feature. |
| 66. | CW-108504 | CSR-16727 | Toolpath | For the specific Mill part file, the NC code for the Cutter compensation on Final Contour Mill pass are not generated for its Part perimeter – Open Pocket feature. |
| 67. | CW-108288 | CSR-16607 | Rebuild | For the specific Mill part, the Rest Machining operation for Roughing passes with 0.25 Tool 4 Flat End Mill takes many minutes to execute when performing Rebuild and/or generating toolpath. |
| 68. | CW-108063 | CSR-16499 | Operation | If identical tools are present in multiple tool stations of a tool crib, then for some mill parts, then while interactively inserting a new 3 Axis Mill operation with a different tool assigned, it is observed that the tool present at multiple stations gets assigned instead. |
| 69. | CW-107622 | CSR-16301 | Feature | For the specific Mill part, the hole group and multi-step hole group features that are blind are incorrectly recognized as through features and connected to holes on the opposite face. |
| 70. | CW-107239 | CSR-16139 | Simulation | For the specific Turn part having long cylindrical surface with numerous facets, the simulation performance of the toolpath for this surface is poor when the 'Show difference' option is selected. |
| 71. | CW-105917 | CSR-15600 | Tool | In Turn mode, for the specific user defined turn insert, the displayed location of tip offset is incorrect. This affects posted NC code and must be corrected. |
| 72. | CW-105895 | CSR-15583 | Feature | For the specific Mill part, the Curve feature definition doesn't apply or retain the correct tool side vector. Consequently, when the toolpath is generated, a gouge observed on the part. |



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| 73. | CW-104435 | CSR-14967 | Toolpath | For the specific Mill part, the toolpath for the Face Mill Operation does not get generated on second attempt after right-clicking on the Mill Part Setup in NC Manager to execute command for toolpath generation. It also prevents Face Mill toolpath generation on a fresh part when the earlier part is still open in a separate window. |
| 74. | CW-103827 | CSR-14617 | VoluMill | For 2.5 Axis Mill parts, the VoluMill toolpath generated for a pocket feature having defined 'Avoid Area' will not machine at the top of that Avoid area whereas toolpaths generated using any other Pocketing Pattern will always machine the at the top of Avoid area. |
| 75. | CW-102576 | CSR-14041 | Toolpath | For the specific Mill part, the Contour Mill Rest Machining generated for its Perimeter boss feature has unwanted air cutting moves on the outer periphery corners of the perimeter boss feature. |
| 76. | CW-102424 | CSR-14044 | VoluMill | For the specific Assembly file, the 2D VoluMill toolpath fails to maintain the First Cut Amount percentage considering the tool diameter at the depth parameter when the Rest Machining is set by WIP. The excessive first cut depth causes the toolpath gauge. |
| 77. | CW-101613 | CSR-10459 | VoluMill | VoluMill toolpaths do not generate for Open Pocket Part Perimeter feature. |
| 78. | CW-100179 | CSR-13189 | User Interface | For large and very complex part models, executing the Contain Area or Avoid Area commands takes many seconds to load and display the associated user interface. The display must happen almost instantaneously up on executing the command. |



CAMWorks 2022 SP4

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| 1. | CW-116304 | CSR/-20910 | TechDB | In Turn mode, when you right click on any Turn feature in the feature tree and select parameters to view the Feature Parameters dialog box, by clicking on the TechDB ID on the strategy drop-down list launches TechDB application and displays the features and operations. However, data for the wrong TechDB ID is getting displayed. |
| 2. | CW-116058 | CSR-20770 | APIs | Option to assign Work coordinate offset in Assembly through APIs must be made available. |
| 3. | CWR-2054 | ---- | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced', the Offset Curve option 'Contain only' for Constant Stepover operations behaves like "Contain and Avoid", resulting in incorrect toolpaths. |
| 4. | CWR-2048 | CSR-20603 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced', for the specific part's Area Clearance toolpath, the tool diameter is 100% engaged in the 'Area Clearance' 'Pocket In Core' pattern due to incorrectly considering the stock geometry with XY stepover. |
| 5. | CWR-2044 | CSR-20516 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and the toolpath is generated for the specific part using Lace Pattern, the resultant toolpath thus has inconsistent behavior for entry moves. |
| 6. | CW-115904 | CSR-20694 | Assembly | When the Save Operation Plan command is executed for the specific Assembly having a sequence of multiple operations, it causes CAMWorks and CAMWorks Solids to crash. |
| 7. | CW-115762 | CSR-20615 | Assembly | If CAMWorks is loaded as an Add-in within SOLIDWORKS and for a specific Assembly, if its SOLIDWORKS pattern is edited to increase the number of instances in a specific direction, then it causes CAMWorks/SOLIDWORKS to crash. |
| 8. | CW-115397 | CSR-20495 | TechDB | When customized TechDB is used in Metric mode and user navigates to User Defined Tools within the Mill Tooling menu, the concerned user interface fails to launch. |
| 9. | CW-115356 | CSR-20392 | User Interface | In Assembly mode, for any operation when the holder is changed from 'user defined' to 'basic', the holder information gets updated, but the corresponding image and the model does not get updated and remains the user defined only. |



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| 10. | CW-115309 | CSR-20399 | Simulation | When using Fixture Avoidance with "Avoid All" option is used for the Contour Mill toolpath of the specific Mill part, the NC code crashes but the Contour Mil toolpath move causing the crash is not visible when executing Simulation. |
| 11. | CW-115266 | CSR-20385 | Simulation | For specific tool with Overall Length (L1) equal to Shoulder Length (L4), a Tool Shank value of zero thickness gets passed to CAMWorks Virtual Machine resulting in collision errors during simulation. |
| 12. | CWR-2038 | CSR-20355 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and a Pattern Project toolpath is generated for a filleted surface of a specific mill part, the resultant toolpath is making an incorrect liner link move from the vertical feature edge geometry. |
| 13. | CWR-2033 | CSR-20153 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and a Z Level toolpath is generated for a specific part using a tool with tapered non-cutting portion, a poor quality toolpath is generated. Increasing the toolpath length amount causes more cycle time. This issue was not present in CAMWorks 2019 version. |
| 14. | CWR-2031 | CSR-20136 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and a Z Level toolpath is generated for the specific part using Ramp linking type, the link moves move off the feature surface and tool contact is lost. |
| 15. | CW-115000 | CSR-20093 | Toolpath | For the specific Mill-Turn part, the Link move of its Area Clearance toolpath runs through uncut stock with no control available for retracting in Z. This is happening due to presence of an unnecessary feed move. |
| 16. | CWR-2027 | CSR-19989 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and an Area Clearance toolpath is generated for the specific Mill part, the toolpath contains an incorrect arc with wrong end point causing error on the CAMWorks Virtual Machine. |
| 17. | CWR-2026 | CSR-19943 | Toolpath | In Mill mode, when Z Level toolpaths are generated using the Advanced Method, if the cut type for Z level toolpath is changed to 'helical', then it still uses the horizontal arc parameters for calculating toolpath moves though they are not supported for the helical cut type. |
| 18. | CW-114583 | CSR-19839 | Operation | For Multiaxis mill operation, under Links tab, if you switch from % (Percentage) to mm for the Links threshold parameter, then it displays a value computed on the basis of 50% of the tool diameter instead of 50% of the max stepover. |



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| 19. | CW-114553 | CSR-19821 | Rebuild | When the specific part file (created in CAMWorks 2016 SP2 version and last saved in 2021Plus SP3 version) is opened in CAMWorks 2022 SP1 version, CAMWorks prompts for a Rebuild of toolpaths which consequently causes its some of its Part Setups to get corrupted. Moreover, CAMWorks does not allow saving of the file. |
| 20. | CW-114551 | CSR-18414 | TechDB | In the Technology Database shipped with CAMWorks, the Tap-Cutting Strategies for Threading under Mill Tooling, must Sub-Spindle setup strategies. Currently, they are not supported. |
| 21. | CW-114512 | CSR-19785 CSR-20128 | System | In Turn/Mill-Turn mode, if Z-axis direction is reversed for the user-defined Fixture Coordinate System (FCS), then it does not generate Turn operations under Sub Spindle Setup from the correct direction as the tool orientation is incorrect. This issue is not observed for FCS defined using SOLIDWORKS FCS. |
| 22. | CW-114492 | CSR-19762 | Rebuild | For specific programmed part, the toolpath for Hole group feature doesn't get updated after unsuppressing one of the solid bodies and executing the Rebuild command. |
| 23. | CW-114337 | CSR-19639 | Configuration | For the specific Assembly, the CAMWorks data gets corrupted when user switches to another configuration present within the assembly file and then reverts to the previous configuration. A warning message stating that CAM data cannot be restored gets displayed. |
| 24. | CW-113733 | CSR-19387 | Toolpath | For the specific part, when Step Through is executed for the Offset Roughing toolpath, it is observed that the toolpath repeatedly makes cuts in the same place. |
| 25. | CWR-2021 | CSR-19612 | Toolpath | For the specific Assembly file, color settings have been assigned CAMWorks Options UI for 3 Axis Finish toolpath moves (yellow) and Link moves (green). On generating Z Level toolpath with zigzag pattern, it is observed that the finish moves are displayed in green (instead of yellow) as it considers those moves as link moves. |
| 26. | CWR-2020 | CSR-19596 | Toolpath | In Mill mode, whenever any Area Clearance toolpath (for which an Automatic Contain Area with Method set to "All Silhouettes" has been assigned) is generated using 'Advanced' method of 3 Axis Mill toolpath generation, it is observed that the toolpath gets generated beyond the Contain Area. |
| 27. | CWR-2016 | CSR-19516 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and the Area Clearance operation is generated for the specific Mill part, it is observed that its toolpath has a retract move with excess height that doesn't consider the applied parameter value during the toolpath link. This occurs even though the Method is set to "Skim". |



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| 28. | CWR-2015 | CSR-19501 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and a Slice Pattern toolpath is generated for the specific Mill Assembly, it is observed that the toolpath doesn't apply uniform scallop distance for the XY stepover. |
| 29. | CWR-2014 | CSR-19471 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and toolpaths are generated for three identical operations differing only in Machine Deviation for a specific Mill Assembly, one of the toolpaths fails to generate. The toolpath for the operation with Mach. Deviation 0.001 does not get generated and an 'Error 105' message is displayed. |
| 30. | CWR-2011 | CSR-19356 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and a 3D Stepper Flowline Pattern Project toolpath is generated for the specific Mill part, it is observed that the toolpath misses many passes, which is not optimal machining. |
| 31. | CW-112980 | CSR-19032 | Translation | In Chinese Traditional language version of CAMWorks, it is observed that the translation of certain VoluMill parameters is incorrect. |
| 32. | CW-112870 | CSR-18950 | VoluMill | For the specific part, VoluMill toolpath for a wrapped slot feature has some moves with angle rotation greater than 180 degrees. This causes the tool to crash through the part as the machine attempts to follow the shortest path from one point to another. |
| 33. | CW-112840 | CSR-18875 | Turn | For the specific programmed Turn part containing sync codes, adding a new sub spindle operation removes all existing sync codes from the CAMWorks Sync Manager. |
| 34. | CW-112802 | CSR-18833 | User Interface | If user doesn't want to use Indexing options and therefore sets Indexing to 'None' in Indexing tab of Part Set Up Parameters dialog box it is observed that the selection reverts to 'Automatic' after closing and opening the dialog box again. |
| 35. | CWR-1995 | CSR-18383 | Toolpath | When the 3 Axis Mill Toolpath generation method is set to 'Advanced' and a Z Level operation is generated to machine the mill part from the very top of the mill part within a defined contain area, the Slope options are not allowing the tool to begin machining at the top of the mill part when 'Contact Areas only' checkbox is unchecked. |
| 36. | CW-111783 | CSR-18288 | TechDB | Within the customized TechDB, user has assigned a user-defined strategy for circular pocket features and assigned it as the default strategy. However, when Extract Machinable Features command is executed, the newly assigned default strategy is not assigned to circular pockets. |



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| 37. | CW-111517 | CSR-18056 | Configurations | For specific assembly with multiple configurations, defining the Coordinate System origin using 'Part bounding box vertex' option in FCS window leads to an error message "Selected entity conflict with the existing selection" when switching the CW Configuration. |
| 38. | CW-111010 | CSR-17873 | Toolpath | For Turn parts, the user is getting an entry move for the Step in angle in the Turn Rough toolpath that doesn't abide by the value set in the Step In parameter. It sometimes results in tool breakage. |
| 39. | CW-110807 | CSR-17701 | VoluMill | The cut amount is generated incorrectly in the VoluMill toolpath when the Rest machining option of "from WIP" is selected. |
| 40. | CW-110721 | CSR-17737 | VoluMill | When 2.5 Axis VoluMill toolpath is set to Rest Machining using the "Previous Leftover", the toolpath generated is incorrect if the 'Generate Toolpath' command is executed from Mill Setup level. |
| 41. | CW-109646 | CSR-17067 | Post | In Turn mode, the Edit Toolpath functionality doesn't support Z Moves though the XZ section. Consequently, these moves don't get posted in the NC code resulting in errors. |
| 42. | CW-107802 | CSR-16440 | Mill-Turn | In Mill-Turn mode, the Sub-Spindle Work Coordinate Offsets for the Mill Part Setups don't get updated correctly. |
| 43. | CW-107801 | CSR-16448 | Toolpath | For the specific Turn part, on toolpath generation, one of its Bore Finish toolpaths changes its retract move which leads to overcutting (Gouge) of the part during rapid move. This happens though "Gouge Check" option is checked. |
| 44. | CW-107036 | CSR-16150 | Toolpath | When toolpath is set to "Without Compensation", inconsistent chamfer toolpath is observed for identical features in a feature group. |
| 45. | CW-106645 | CSR-15852 | Toolpath | For hole features, the Rest Machining and WIP generates Irregular toolpath after drill tool size is altered. |
| 46. | CW-105478 | CSR-15458 | VoluMill | For the specific Mill part, the VoluMill Pre-Drilled Hole option fails to populate the drilling instance for all the instances of a feature group. |
| 47. | CW-104591 | CSR-15003 | Toolpath | In Mill mode, for irregular corner slot features, the presence of an additional air segment in the feature definition causes the corresponding offset Roughing toolpath to incompletely machine the cavity area. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|----------------|-------------------|-------------------------------------|-------------|--|
| 48. | CW-102642 | CSR-14080 CSR-16780 CSR-17650 | Feed Speed | When F/S parameter is defined using a Tool, then an option to adjust the feed rate if RPM is changed due to Max RPM limit must be made available. |
| 49. | CW-102507 | CSR-14107 | VoluMill | If Rest machining option is selected then 2.5 axis VoluMill toolpath, then it does not follow the defined depth of cut for machining. |
| 50. | CW-102419 | CSR-14056 | Feature | When a 2.5 Axis Mill Curve feature is created using 'Auto select edges for chamfering' option (for both planar and non-planar edges) and the 'Flip direction to cut' option is selected, the material direction for the curve feature doesn't get updated on clicking the OK button. |
| 51. | CW-100008 | CSR-13142 | Toolpath | For the specific Mill part, if a Contain Area has been defined, then the Ramp moves of the Contour Mill toolpath with Ramp get generated correctly but don't follow the assigned depth within the contain area. |



CAMWorks 2022 SP3

* Please refer to 'What's New' PDF document for details regarding enhancements in CAMWorks 2022.

| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------------------|------------------------|------------|---|
| 1. | CW-115182 | CSR-20332 | System | The CAMWorks application is unable to restore the CAMWorks data from the specific assembly file which was last saved in CAMWorks 2021 SP2 version. |
| 2. | CW-115089 | CSR-20157 | Post | In Mill Assembly mode, when stock of type "Pre-defined Bounding Box" is selected, the variables "STOCK_MIN" and "STOCK_MAX" does not output the correct coordinates in posted NC code as per the Coordinate System selected. |
| 3. | CW-115062 CW-113036 | CSR-20250 CSR-19123 | VoluMill | For the specific Mill part, the VoluMill toolpath generated contains an unnecessary secondary pass. |
| 4. | CW-115028 | CSR-20163 | Post | In CAMWorks 2022, when a post operation is inserted by right mouse click of a setup, then it is inserted after the last available operation in the operation tree. |
| 5. | CW-115000 | CSR-20093 | Toolpath | For the specific part, the link moves generated for the Area Clearance toolpath moves through uncut stock at fill depth. |
| 6. | CW-114948 | CSR-20068 | Toolpath | For the specific Mill part, the Contour Mill toolpath gouges the part on the finish side passes when "Single cut depth" option is checked with "Spring pass" option selected at the side parameter. Gouging is observed at the Lead in. |
| 7. | CW-114947 | CSR-10230 | Toolpath | For the specific part containing a slot feature with chamfer, the contour mill toolpath generated gouges the part on finish side passes when "Single cut depth" option is checked at the side parameter. The gouge occurs at lead in. |
| 8. | CW-114929 | CSR-20051 | Toolpath | The 'Optimize Between Groups' option fails to function correctly resulting in repetitive machining of the features. |
| 9. | CW-114820 | CSR-12885 | Simulation | In CAMWorks Virtual Machine, the Tool touch off point does not generate at the center of the tool radius. |
| 10. | CW-114791 | CSR-19952 | Post | For Multiaxis machining operations, the variables MCS_X_OFFSET, MCS_Y_OFFSET and MCS_Z_OFFSET returns "zero" value when posted. |
| 11. | CW-114784 | CSR-19939 | Post | When post header FACE_ARC is set to BOTH then for some face free toolpaths with arcs, the post variable CURRENT_SYSTEM changes to -1 from 512. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|-------------|--|
| 12. | CW-114691 | CSR-19927 | Toolpath | For any mill part, when the retract point is selected (Arc Centre or point) for Contour Mill toolpath with Ramp option checked then it generates incorrect toolpath. The toolpath makes angular move downwards to the setup XY plane and then retract in Z direction. |
| 13. | CW-114623 | CSR-19886 | TechDB | In the customized TechDB, the Default Operation Parameters User Interface Page for Probing tool is blank in Inch mode. |
| 14. | CW-114608 | CSR-19855 | Rebuild | For the specific assembly, the Fixture Coordinate System assigned by the user incorrectly located and doesn't get reset even after multiple Rebuild attempts. |
| 15. | CW-114584 | CSR-19841 | Feature | When the 'Engrave feature' option is selected for Contour Mill operation, the 'Zigzag' option within Depth processing group box is grayed out. However, when the Rest machining option is changed from 'None' to 'Previous tool' and back to 'None', then the 'Zigzag' option gets activated. This is unexpected behavior. |
| 16. | CW-114564 | CSR-19826 | Rebuild | For any 2.5 axis Mill part, when any hole group feature is created, if the option is changed to Through in Hole Parameters dialog box and then if rebuild is executed the group feature dissolves. |
| 17. | CW-114550 | CSR-19008 | TechDB | The parameter "Over Allowance" (negative value input) was renamed to "Min Stock to remove" (positive value input) within the application. This change also needs to be implemented in TechDB. |
| 18. | CW-114526 | CSR-19798 | Toolpath | Toolpath creates gouge in Rough Passes when Contour Mill Single Depth cut check box is selected. |
| 19. | CW-114515 | CSR-19755 | Translation | In Japanese language version of CAMWorks, some of the Japanese text strings under the Feed/Speed tab needs to be modified as they are incorrectly translated. They need to be translated in corresponding TechDB UI as well. |
| 20. | CW-114491 | CSR-19754 | UI | When selecting the "Toolpath center" radio button on the "NC" tab of the contour mill, the parameter images of the NC tab user interface do not change. |
| 21. | CW-114487 | CSR-19746 | Translation | In Japanese language version of CAMWorks, the English string 'Barrel tooling' need to be localized at three locations within the user interface. |
| 22. | CW-114468 | CSR-19713 | Translation | In the Chinese Traditional language version of CAMWorks, the string named 'Retract Dist' under the NC tab of Operation Parameters dialog box is missing. |
| 23. | CW-114437 | CSR-19729 | Feature | The Curve Feature with the 'edge break' strategy for chamfering by the EMF is incorrect. The Feature is correct if added manually. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|-------------|---|
| 24. | CW-114361 | CSR-19684 | Simulation | In Turn mode, when a Prime Turn/Diamond/User Defined Turn tool is assigned to a Turn operation and user assigns Gage Offsets under Station page of Tool tab for CAMWorks Virtual Machine simulation, it is observed that these offset values get reset back to original values. |
| 25. | CW-114333 | CSR-5970 | UI | If the Replace tool option is used in Tool tree tab with assembly tool crib then after selecting the Ok command on Tool Select Filter dialogue box it again opens a new dialogue box listing all the assembly tools which is not necessary. |
| 26. | CW-114310 | CSR-19615 | Translation | In Czech language version of CAMWorks, in Turn module, some of the Czech language text strings under Tool tab UI need to be updated. |
| 27. | CW-114217 | CSR-19521 | Operation | The face milling operation for the specific Mill part with automatic angle, changes the direction of cut along with an error message. This happens only when the avoid area is applied. |
| 28. | CW-114181 | CSR-19541 | Feature | For any Mill part, the lines within the pocket features are not automatically added when shift keys are used to add the feature. |
| 29. | CW-113909 | CSR-19503 | System | When Fixture Coordinate System is defined using the stock vertex and CAMWorks configuration is used then the mill part setup changes its location after saving and reopening the part. |
| 30. | CW-113786 | CSR-10496 | TechDB | The assembly tools do not get replaced when any tool is selected from the TechDB. |
| 31. | CW-113779 | CSR-17682 | Assembly | For any Assembly part, the "Insert Mill Part Setup" option cannot be selected for the second Feature Manager. |
| 32. | CW-113778 | CSR-19439 | Toolpath | In Turn mode, when the depth of an ID feature is changed and the part is Rebuilt, the Drill cycles are not updated to reflect the updated feature depth. |
| 33. | CW-113489 | CSR-19308 | Translation | In the Spanish language version of CAMWorks, some of the Spanish strings under the Geometry tab of Operation Parameters dialog box for 3 Axis operations need to be modified. |
| 34. | CW-113165 | CSR-19234 | Toolpath | For Contour Mill toolpaths generated for hole/circular pocket features, the Retract move out of the hole/pocket becomes angled when the 'Retract between features' is set to 'Use Skim Plane'. |
| 35. | CW-113034 | CSR-19096 | Toolpath | For any Mill part, if the Contour Mill operation is defined for a Curve feature with the lead in point defined at the start point, then it does not calculate correct lead out and the lead in/out overlap moves. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|-------------|--|
| 36. | CW-113027 | CSR-19099 | Toolpath | Error when Turning off all cutter compensation produces varying toolpaths with specific tool |
| 37. | CW-112973 | CSR-19042 | Toolpath | Rough Toolpath generation missing with 0 allowance |
| 38. | CW-112928 | CSR-19003 | Toolpath | Gouge check does not work with avoid areas in place |
| 39. | CW-112879 | CSR-18937 | Toolpath | The wrong toolpath in combination with "Look ahead" and spring passes in contour milling. |
| 40. | CW-112865 | CSR-18924 | Toolpath | Plunge Rough does not generate a correct toolpath when WIP is active. |
| 41. | CW-112163 | CSR-18548 | Toolpath | For the specific assembly, the toolpath generated with full radius comp and ramp as cut amount, directly goes to the feature depth, and then moves up. |
| 42. | CW-112121 | CSR-18516 | Toolpath | The 2.5 Axis rest roughing toolpath issue by WIP on a part perimeter feature. |
| 43. | CW-112059 | CSR-18479 | Assembly | In Assembly mode, the sub-spindle coordinate gets rotated when the stock geometry is changed and the toolpath is regenerated. It gets corrected only when the sub-spindle coordinate is refreshed from the part manager. |
| 44. | CW-111591 | CSR-18116 | Setup Sheet | For any Centre Drill and Bore operation, the Tool ID variable from the Tool tab is not passed into Setup Sheet data. |
| 45. | CW-111568 | CSR-18090 | Toolpath | In the attached part, wrap feature toolpath has some moves with angle rotation greater than 180deg which causes tool to crash through the part because machine follows the shortest path |
| 46. | CW-110761 | CSR-17757 | Rebuild | In the Assembly mode when any changes are done for the stock, the Stock does not update Toolpath automatically unless regeneration is performed consecutively for two times. |
| 47. | CW-110575 | CSR-17628 | Operation | For the specific Mill-Turn part, the work co-ordinate offset defined for some setups change to sub-spindle work offset after doing full GTP. |
| 48. | CW-110260 | CSR-17493 | Assembly | When a Pattern Project operation is imported from a part file into an assembly, it is observed that the directions of the flow line curve sketches are incorrect. |
| 49. | CW-110090 | CSR-17429 | Toolpath | For a specific Mill part, specifying a Contain Area to reduce the number of holes to be machined excessively increases the machining cycle time. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|-----------|---|
| 50. | CW-110074 | CSR-17413 | Toolpath | Multiple Spring passes causes Gouge Check alarm when generating toolpath |
| 51. | CW-109863 | CSR-17222 | Toolpath | For the specific mill part, incorrect Contour Mill toolpath is generated when Leadin and leadout is applied. This happens when the gauge check option is enabled under the NC tab and the entry method is set to 'Spiral'. |
| 52. | CW-109594 | CSR-16999 | API | For CAMWorks Tolerance Based Machining, no API supporting machine-to-mean is available. |
| 53. | CW-109050 | CSR-16809 | System | When user loads CAMWorks 2018 or 2019 version as an add-in within CAMWorks Solids, then a script error message pop up is displayed during launch. |
| 54. | CW-109031 | CSR-16546 | Toolpath | For the specific Turn part, CAMWorks fails to generate toolpath for the Groove Finish operation generated for Face Groove feature when a user-defined turn insert is used. |
| 55. | CW-107505 | CSR-16258 | Toolpath | In the attached part, drill toolpath generated for a group hole feature does not follow the selected optimization method inside to Out |
| 56. | CW-107017 | CSR-16108 | Toolpath | The wrong leadin move is observed for the Contour Mill toolpath during the spring pass move. This happens when the gauge check option under NC tab is enabled with the Toolpath Center set to 'without compensation'. |
| 57. | CW-106919 | CSR-15960 | Toolpath | Contain Area corrupts the ramp toolpath depth cut increments. |
| 58. | CW-106808 | CSR-15887 | Toolpath | For the specific Mill part, the Contour Mill toolpath with Chamfer machining generated for the Curve feature. If the leadin type is set to 'Arc' and a negative leadin overlap is applied, it is observed that the negative overlap doesn't work. |
| 59. | CW-106798 | CSR-12879 | ShopFloor | When a SOILDWORKS file which was saved in any older version is used to Publish a ShopFloor File from the latest version of SOLIDWORKS without first saving it, then such ShopFloor file will not load in the ShopFloor application. |
| 60. | CW-106229 | CSR-15718 | Toolpath | In an Assembly, for the Contour mill toolpath the Chamfer depth is wrong when the Avoid Area is active. |
| 61. | CW-104848 | CSR-15164 | Assembly | In assembly, when SOLIDWORKS configuration is changed and existing CAMWorks configuration is copied then it does not allow to add or work on new SOLIDWORKS configuration part because Feature Manager gets suppressed. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|-------------------------------------|------------|---|
| 62. | CW-104497 | CSR-14968 | Feature | When creating an open contour feature, the direction of cut is not in the correct direction when generated by surfaces. Even after changing it by 'Flip direction to cut' from the feature edit window and save, it returns to the earlier condition. |
| 63. | CW-104296 | CSR-14866 | TechDB | In the TechDB application, the error messages need to be improved when the TechDB application couldn't connect to the TechDB database file. |
| 64. | CW-104170 | CSR-14803 | Simulation | For the specific Mill part, the target part displayed in Simulation mode is incorrect. This results in incorrect Comparison. |
| 65. | CW-102286 | CSR-13919 | Turn | When any Retract option is set (Preset Position/Auto/Retract Point then Reset) under NC tab for a Bore Rough operation generated for the specific Turn part, it crashes the part. |
| 66. | CW-98497 | CSR-12450 | Operation | For Turn and Drill operations, when the Spindle mode is "SMM" and the feed type is "FPR", it is observed that the machining time displayed for the Feed move in Statistics tab is a large incorrect value. |
| 67. | CW-98103 | CSR-12273 CSR-14446 CSR-17648 | Toolpath | Toolpath generated for taper feature does not consider the taper angle and generates toolpath in the opposite angle direction. |
| 68. | CW-98084 | CSR-12274 | Toolpath | For the specific Mill part, the Contour mill toolpath generated for a curve feature seems to correct but when posted it generates some unwanted arc moves that gouges the part. |



CAMWorks 2022 SP2

* Please refer to 'What's New' PDF document for details regarding enhancements in CAMWorks 2022.

| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|-----------|--|
| 1. | CW-114429 | CSR-18857 | System | From CW2022 SP0 version onwards, when CAMWorks is loaded as an Add-In within SOLIDWORKS without a valid license, it causes SOLIDWORKS to crash instead of running in Demo mode. This happens when the language setting is any language other than English. |
| 2. | CW-114351 | CSR-19655 | Operation | Specific Turning operation using Prime turning insert doesn't get posted when the Canned cycle output checkbox is checked. |
| 3. | CW-114301 | CSR-19217 | System | The specific assembly when loaded in CAMWorks causes SOLIDWORKS to crash. |
| 4. | CW-114183 | CSR-19473 | Operation | Difference in machining time for operation with same parameters in CW2019 and CW2022 version. |
| 5. | CW-113871 | CSR-19416 | Tool | Default tool attachment point for custom holder is in the wrong place |
| 6. | CW-113777 | CSR-19407 | TechDB | In TechDB SQLite, if any strategy is created with apostrophe ('), then an error message pops up and will not be able to create the strategy with that. |
| 7. | CW-113699 | CSR-19405 | Features | Problem with Open Pocket feature it ignores Feature Sketch. |
| 8. | CW-113493 | CSR-19327 | Mill | The specific Multiaxis operation is not allowing a scallop value. |
| 9. | CW-113484 | CSR-19226 | TechDB | In TechDB, under tap cutting strategies, the depth criteria condition added for tools from 156 to 215 are wrong, by default it should be (Feature depth - 0). |
| 10. | CW-113482 | CSR-19127 | Feature | In the attached part, on EMF it does not recognize the hole features |
| 11. | CW-113223 | CSR-19271 | Toolpath | Model movement is getting slow in the tool path editing in CAMWorks 2022 shows the performance issue. |
| 12. | CW-113222 | CSR-19227 | Tool | TCP Point not exporting the tip offset with Prime Inserts |
| 13. | CW-113181 | CSR-19250 | UIF | Metric values are used instead of Inch on Entry/Retract Tab/ Clearance when using the up or down arrows. |
| 14. | CW-113173 | CSR-19247 | Stock | For a specific Mill part, the stock is not getting updated correctly. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|-------------|---|
| 15. | CW-113162 | CSR-19225 | Translation | Incorrect translation of few strings for in wrapped feature selection window in Chinese-traditional language. |
| 16. | CW-113161 | CSR-19210 | UI | When Boring Bars are used for a Bore Roughing or Bore Finishing operations, then the Holder orientation image in the user interface is not correct in CW2022 version. |
| 17. | CW-113143 | CSR-19214 | Features | Automatic Feature Recognition is unable to find all MS-Hole instances for the specific part. |
| 18. | CW-113122 | CSR-19185 | TechDB | In the TechDB, for a hognose tool if you enter the end radius same as the flute length then it shows message about effective length which is not available in the UI. |
| 19. | CW-113017 | CSR-19076 | Operation | In an assembly, have a several identical setups, a new operation is always inserted in the first setup or the wrong setup. |
| 20. | CW-113034 | CSR-19096 | Toolpath | In Contour Mill operation defined on a curve feature, if lead in point is defined at the start point, then it does not calculate correct lead out and lead in/out overlap moves. |
| 21. | CW-112993 | CSR-19075 | Stock | For the specific part, if you select the cylindrical stock and change the axis to Y, then it does not calculate the stock and SOLIDWORKS becomes unresponsive. |
| 22. | CW-112902 | CSR-18960 | Translation | Change of the description of toolpath center under CNC finish parameters in German Language. |
| 23. | CW-112864 | CSR-19110 | Toolpath | Step Thru performance has dropped dramatically in CAMWorks 2021Plus SP4 and CAMWorks 2022 SP1. |
| 24. | CW-112855 | CSR-18916 | Translation | Wrong translations in German language. |
| 25. | CW-112843 | CSR-18895 | Operation | Contour Mill operation with tab has a slight offset of 0.1mm from the part thickness. |
| 26. | CW-112817 | CSR-18844 | Setup | The CAMWorks Setup orientation changes after switching configs in SolidWorks assembly. |
| 27. | CW-112809 | CSR-18841 | Toolpath | Canned Cycle: Z Position Error resulting from toolpath calculation issue. |
| 28. | CW-112738 | CSR-18733 | Stock | The stock by STL file with checking the 'Use to create bounding box' is not displaying at the simulation stock. In the latest release, the said checkbox is not saved after exiting the Stock Manager user interface. |
| 29. | CW-112719 | CSR-18645 | TechDB | The incorrect 'Range Overlap' warning message or there is no message warning where required is observed at the Turn Feature and Operations UI of the TechDB. |
| 30. | CW-112692 | CSR-18695 | VoluMill | For the specific part, the VoluMill toolpath is ignoring the Avoid Areas. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|--------------------|--|
| 31. | CW-112681 | CSR-18692 | VoluMill | The VoluMill toolpath generated for the Perimeter Open Pocket feature is not correctly computing stock at the air segment boundary area. Working correctly in CW 2019 release. |
| 32. | CW-112567 | CSR-18681 | Toolpath | For a specific Mill assembly, while generating toolpath using WIP option for Z-level operation, the CAMWorks application crashes. |
| 33. | CW-112514 | CSR-18614 | VoluMill | The specific VoluMill toolpath ignores possible entry points and is unable to create the entry drill operation when the rest machining is set by WIP considering any stock type. |
| 34. | CW-112172 | CSR-18550 | Toolpath | For roughing operation with "plunge rough" pattern, the parameter "final cut amount" is greyed out as per the application. But while generating toolpath it will consider the value which is previously added to that parameter, which is wrong. |
| 35. | CW-112098 | CSR-18491 | Setup Sheet | While outputting the machining time into setup sheet, it calculates only the feed time and rapid time and does not consider the non-cutting time. |
| 36. | CW-111721 | CSR-18165 | Features | For the specific part, wrong feature creation using sketch observed during Automatic Feature Recognition. |
| 37. | CW-111621 | CSR-18142 | Operation | For the attached customer file, the drilling operation displays machining time as 1200 mins which is incorrect. |
| 38. | CW-111505 | CSR-18021 | Simulation | Strange undercut is seen in the attached assembly file during simulation. |
| 39. | CW-111502 | CSR-18068 | Toolpath | In Mill-Turn, editing the Circular Pattern instances and executing the Generate Toolpath is switched the sequential approach to making the alternating move the toolpath considering the pattern. |
| 40. | CW-111477 | CSR-18052 | Machine Simulation | Single Stock/Part STL files created for both Main and Sub Spindles when running CAMWorks Virtual Machine. |
| 41. | CW-111458 | CSR-18014 | Toolpath | The specific Turn Rough Grooving toolpath is making the retract move cause the gauge. This happens when either the radial or axial allowance is making "0" allowance. |
| 42. | CW-111399 | CSR-17996 | Toolpath | A Negative Leadin/Leadout Overlap on a curve feature will produce an incorrect toolpath |
| 43. | CW-111354 | CSR-17921 | ShopFloor | For the attached customer assembly file ShopFloor file is published, but unable to open the file in ShopFloor application. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|-----------|---|
| 44. | CW-111024 | CSR-17885 | Toolpath | The contour mill toolpath on the pocket feature is making the overcut move when the entry method is "spiral" with "Without compensation". This happens when the leading type is either "Parallel" or "Arc". Work correctly with the entry method "None". |
| 45. | CW-110726 | CSR-17748 | VoluMill | The 3 Axis VoluMill toolpath on this part has unneeded toolpath moves at the bottom level of the toolpath. |
| 46. | CW-110725 | CSR-17747 | VoluMill | For the specific Mill part, the toolpath generated using 3Axis VoluMill generates unnecessary additional moves at the top of the stock. |
| 47. | CW-110545 | CSR-17552 | System | Multiaxis: performance Slow opening operations. |
| 48. | CW-110061 | CSR-17385 | VoluMill | 2.5 Axis VoluMill doesn't follow designated leadin point when the Pocket feature has a bottom radius |
| 49. | CW-110064 | CSR-17383 | Operation | Avoid area doesn't work when using "On Center" tool condition |
| 50. | CW-109943 | CSR-17004 | Feedrate | Whenever leadin overlap is added and in link between tab if it is changed to staydown or direct, then the leadin feedrate is not passed to leadin overlap cut and instead XY feedrate is passed which is wrong. |
| 51. | CW-109595 | CSR-17005 | Rebuild | The stepover changes incorrectly for the specific face mill operation up on Rebuild. |
| 52. | CW-109495 | CSR-16957 | Toolpath | When Tab cutting is used with CNC compensation ON and "without compensation" then it generates wrong toolpath when perimeter feature is selected. |
| 53. | CW-109298 | CSR-16959 | Toolpath | Tab Cutting causes Ramping to break up the machining and make air cuts. |
| 54. | CW-106715 | CSR-15920 | Toolpath | In Contour Mill operation, when Ramp is used along with Tab Cutting parameter, then the toolpath generated is incorrect. As it gets machined at incorrect depth and duplicate passes are generated all over the parts. |
| 55. | CW-106213 | CSR-15666 | Toolpath | The specific Chamfer Machining Contour Mill operation generated for an Open Pocket feature is expected to machine external sharp corners using a rounded type move. However, the user-assigned external corner radius value doesn't get reflected in the Corner toolpath move unless it exceeds a certain value. Any valid numerical value input by user needs to be applied corner radius value. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|------------------------|--------------------|--|
| 56. | CW-105894 | CSR-15596 | TechDB | When adding and saving tools from CAMWorks to the TechDB, round off errors occur for tool parameters resulting in failure to find the tools on the basis of their Diameter, Shank and Shoulder Diameter values |
| 57. | CW-104876 | CSR-15196 | Machine Simulation | For the specific Mill-Turn part, the custom Chuck placement defined using a SOLIDWORKS assembly is incorrectly displayed in CAMWorks Virtual Machine. |
| 58. | CW-104298 | CSR-14886 | Turn | Unsuppressing the specific Turn Rough operation with Pinch turning deletes sync code. |
| 59. | CW-102375 | CSR-13992 | Toolpath | For the specific Mill part, the 'Cleanup Pass' of the Rough Mill toolpath generated for its Rectangular pocket feature with an island does not work properly except when the Pattern type is set to 'Spiral'. It makes an unnecessary entry spiral move. |
| 60. | CW-101470 | CSR-13635 | System | The CAM data in specific part file that was programmed using CAMWorks 2019 cannot be restored in CAMWorks 2020 or newer versions. |
| 61. | CW-100232 | CSR-13219 | System | SOLIDWORKS crashes when switching on CAMWorks. |
| 62. | CW-99974 | CSR-13076 | Toolpath | For Mill-Turn parts, when the Step Through command is executed for the Rough Mill toolpath generated for its OD feature, the 'Step through' window displays X0 as the first move in posted output which is incorrect. |
| 63. | CW-99354 | CSR-12946 | Toolpath | The 'Ramp on Leadin' doesn't work correctly in the 2.5 Axis Roughing Entry method. |
| 64. | CW-98952 | CSR-12807 | Simulation | The specific Multiaxis toolpath is slow to simulate. This happens when gauge check against tolerance value is set by '0' value. |
| 65. | CW-98657 | CSR-11036 CSR-11037 | Toolpath | For the specific mill part, the Contour Mill toolpath generated for the Slot feature with Taper machines the Air segment leading to incorrect lead-in and lead-out. |
| 66. | CW-98508 | CSR-12524 | Assembly | Unable to complete associate features operation with the MS feature in assembly mode. After applying the 'Replace' button, the 'OK' doesn't work. Using 'Cancel' to exit the window the application crash. |
| 67. | CW-98199 | CSR-12237 | Features | For the specific part, the feature definition is getting an offset in Z, when editing the feature and changed the end condition value. This happens when the part body is constructed on the XY plane with made extrude on -Z. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|----------|---|
| 68. | CW-98160 | CSR-12292 | Post | For Turn Threading operations generated for Turn/Mill-Turn parts, if the Number of spring passes assigned in the Thread tab is '1' and part is post processed, then on post processing, no spring pass is generated. User has to input a value of '2' in Thread tab to get one spring pass. |
| 69. | CW-97974 | CSR-12033 | Toolpath | For Mill parts and Assemblies with hole features, if an Avoid Area is defined for one of the hole features, then the depth of the Contour Mill toolpaths generated for non-Avoid hole features exceed the chamfering depth resulting in gouging/tool breakage. |
| 70. | CWR-2018 | CSR-19563 | Toolpath | The tool is gauging due to the wrong depth move of the Area Clearance toolpath in a group of pocket features although the link depth processing is set by 'To depth by region'. OK with the Priv. Engine. |
| 71. | CWR-2009 | CSR-19121 | Toolpath | The advanced method Z level toolpath does not consider the rest machining by WIP. The valid toolpath is available by the previous method engine. |
| 72. | CWR-2007 | CSR-19116 | Toolpath | Area clearance toolpath with lace pattern generates some unwanted small moves that can create problem in machining. |
| 73. | CWR-2006 | CSR-19051 | Toolpath | When Reverse stepover is used in the Area clearance operation with Lace pattern, then it does not change the stepover direction. |
| 74. | CWR-1992 | CSR-18326 | Toolpath | The Area Clearance toolpath with WIP rest machining is making the poor performance and also the toolpath quality is not satisfactory when regenerating from the legacy engine CAMWorks 2021. |
| 75. | CWR-1989 | CSR-18172 | System | For the attached customer part, when the Z level operation with contain area is generated then internal crash(Error 105) is observed. |
| 76. | CWR-1916 | CSR-15810 | UIF | Disable Corner Rounding in Z Level Helical in the UI and GTP as it isn't supported |
| 77. | CWR-1880 | CSR-14695 | Toolpath | For the specific Mill part for which a Z Level toolpath bounded by a Contain Area has been generated, the user-defined Z allowance value is not considered. |
| 78. | CWR-1814 | CSR-13452 | Toolpath | For the specific Mill part for which the stock has been defined using an STL file, maintaining the surface finish about X, Y & Z negative allowance is not removing material correctly on the vertical plane. The Z level of the stock has a negative value thus provisioning for material removal but desired removal is not attained. |



CAMWorks 2022 SP1

* Please refer to 'What's New' PDF document for details regarding enhancements in CAMWorks 2022.

| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|----------|---|
| 1. | CW-113051 | CSR-19126 | Post | There seems to be a limit on the number of operations it can post process. CAMWorks is unable to post indexing angles in NC code for Mill parts with numerous operations (200 plus) machined on Multiaxis Mill machines. |
| 2. | CW-113044 | CSR-19112 | Tool | In Polish language version of CAMWorks, when Barrel tools are assigned to any Mill operation, CAMWorks crashes. |
| 3. | CW-113026 | CSR-19103 | Toolpath | For the specific Mill part, the Rough Mill toolpath ends up gouging island features. |
| 4. | CW-113011 | CSR-19077 | TechDB | In the specific customized TechDB, the Save, Copy and Delete buttons available within the Default Operation Parameters user interface for Mill mode remain disabled even after parameters are modified. |
| 5. | CW-113010 | CSR-19063 | TechDB | In the specific customized TechDB, within the 'Features and Operations' user interface, user is unable to delete any newly defined strategies. |
| 6. | CW-112890 | CSR-18971 | Rebuild | For the specific part, when the Fixture Coordinate System defined using SOLIDWORKS Coordinate System is changed, then CAMWorks does not display the Rebuild prompt warning message. |
| 7. | CW-112887 | CSR-18952 | Rebuild | When the Fixture Coordinate System is changed for a part machined on a 5 Axis Mill machine, then after Rebuild, it does not correctly update the indexing angle of the Mill Part Setup until you manually edit the Setup and reselect the Fixture Coordinate System under Axis tab. |
| 8. | CW-112875 | CSR-18953 | TechDB | Within the TechDB App, no data is displayed for Multiaxis Mill operations within the Mill>>Default Operation Parameters user interface. |
| 9. | CW-112835 | CSR-18872 | Post | If an Assembly includes an Assembly Feature, then upon Post Processing with APT output, no NC code will be generated for the Assembly Feature and any subsequent mill operations. |
| 10. | CW-112806 | CSR-18839 | UI | For Contour Mill Operations, under the NC tab of their Operation Parameters UI, the text displayed in all the group boxes is out of order for the Non-English languages. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|----------|--|
| 11. | CW-112773 | CSR-18785 | Post | For Mill-Turn parts, when the circular pattern is selected for a wrap feature and if the first instance is skipped, then the post code generated displays incorrect rotary angle for the remaining instances. |
| 12. | CW-112701 | CSR-18544 | Post | Add a header command SET_FIRST_Z_POS_ON_MILL_TC to set ABS_Z_END at the start of the operation after the tool change. |
| 13. | CW-112676 | CSR-18543 | Post | For the wrap feature toolpath, the output of post variable ABS_Z_END is zero at the start of the operation. |
| 14. | CW-112655 | CSR-10384 | Toolpath | For the specific Mill part, the Contour Mill toolpath ends up gouging the part due to failure to generate retract move when moving from one group feature to another. This happens when 'Use skim plane' is made active for 'Retract between feature' under NC tab for Contour Mill. |
| 15. | CW-112568 | CSR-18663 | Rebuild | When the specific part is opened and its toolpath are generated without rebuilding the CAMWorks data, a new feature is generated without replacing the old feature and no Rebuild Error message is displayed. |
| 16. | CW-112564 | CSR-18672 | Stock | The Stock Manager with Multibody parts is wrong. The Stock Material are not based on all Parts. Was working OK with CW 2020. |
| 17. | CW-112561 | CSR-18675 | Post | Incorrect 5 axis rapid move line in posted code in CW2021Plus with patterned feature. |
| 18. | CW-112550 | CSR-18645 | TechDB | Users can define new Turn Feature conditions based on feature diameter in the TechDB and then proceed to select their TechDB IDs when selecting machining strategies for machining turn features. However, if the diameter of the feature is lesser than the lower range of the diameter defined for the Feature Condition, then the operations generated are incorrect. |
| 19. | CW-112302 | CSR-18585 | Toolpath | For the specific Mill part, the Bottom Finish Contour Mill toolpath is not generated correctly for Irregular Pocket feature. |
| 20. | CW-112162 | CSR-18551 | Post | Output of the Post variable OPR_Z_FEED is incorrect at the start of all 3 Axis Mill operations. |
| 21. | CW-112090 | CSR-18483 | Features | Two MS Hole features on the specific part having identical geometry are recognized from opposite Mill Part Setups |
| 22. | CW-112039 | CSR-18239 | Help | On page 44 of the CAMWorks Installation, the text mentions that "ARPSYSTEMCOMPONENT=0" needs to be included to enable listing of CAMWorks in Add/Remove programs of Control Panel. This text needs to be removed as it is not applicable. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|------------|---|
| 23. | CW-112014 | CSR-18426 | Toolpath | When the 3 Axis Toolpath generation engine is set to Previous Method, it is observed that the Tapered Shank End Mill of Z Axis toolpath ends up gouging the specific part. |
| 24. | CW-112011 | Beta 60096 | TechDB | For part in Inch Mode with a Thread Designation in Metric units, it is observed that the Metric units taps are converted and displayed correctly within the application but the corresponding entries for the tool within the TechDB fails to convert these Metric units to Inches units. |
| 25. | CW-111998 | CSR-18407 | Post | If part is not aligned parallel to the SW plane, then output for post variables STOCK_LENGTH, STOCK_WIDTH & STOCK_HEIGHT is not correct. |
| 26. | CW-111963 | CSR-18345 | Post | Wrong NC output for pattern features in Assembly mode of CW2021Plus SP2 and CW2022 versions. |
| 27. | CW-111950 | CSR-18269 | Turn | For specific Turn part, the Groove Rough and Groove Finish toolpath does not generate properly with a user defined tool insert. |
| 28. | CW-111720 | CSR-18196 | License | On some computers, when the license manager is started in Admin mode, the license information is not written to HKCU and Solids and CW's will fail to find a license. |
| 29. | CW-111565 | CSR-17989 | Toolpath | The Z level toolpath with corners round parameter is showing the overcut at the corner in simulation in the advanced method. OK with either the toolpath in the previous method engine or with a sharp corner in advanced. |
| 30. | CW-111510 | CSR-18055 | TechDB | When starting CAMWorks using the SQL database, if Access is installed on the computer, CAMWorks will issue a warning message about using CAMWorks. |
| 31. | CW-111476 | CSR-18002 | License | On some computers, when the license manager is started in Admin mode, the license information is not written to HKCU and Solids and CW's will fail to find a license. |
| 32. | CW-111429 | CSR-17984 | Feed Speed | If the 64-bit Feed/Speed database "MicroEstimatingMaterials.meb" is relocated from its default location of 'C:\CAMWorksData\MATLIBx64', then CAMWorks fails to find the Feed/Speed library and displays a message indicating the same. |
| 33. | CW-111021 | CSR-17892 | Assembly | In Mill assembly, for linked setups, if work co-ordinate is set for one then it does not set that for all other linked setups. |
| 34. | CW-111008 | CSR-17794 | License | On some computers, when the license manager is started in Admin mode, the license information is not written to HKCU and Solids and CW's will fail to find a license. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|-------------------------|------------|---|
| 35. | CW-110947 | CSR-17580, CSR-18138 | Simulation | The Contour Mill toolpath simulation with toolpath center without compensation is showing overcut in simulation result considering the target part. This happens when the toolpath is simulating by Shift + Simulate. |
| 36. | CW-110890 | CSR-17758 | Toolpath | Incorrect Contour Mill toolpaths (Gouging) after selecting Fixtures when the climb cut method is applied. Working without the collision to the fixtures when the cut method is conventional. |
| 37. | CW-110858 | CSR-17779 | TechDB | In TechDB, under Advance tab of 3 Axis Mill operations, the 'None' option is not available for Automatic Contain Area. |
| 38. | CW-110535 | CSR-17577 | Help | The License Activation Guide of CAMWorks needs to be updated to indicate that generation of a License Request file can be done via Remote Access and that physical access to the system is not compulsory. |
| 39. | CW-110490 | CSR-17553 | Toolpath | A negative leadin/leadout overlap on a curve feature will produce an incorrect toolpath. |
| 40. | CW-110091 | CSR-17427 | Simulation | The simulation doesn't match the toolpath at the part contains the 2.5 axis toolpath. When simulating from the beginning it gouges the part, if you do shift simulate it does not. |
| 41. | CW-109867 | CSR-16854, CSR-17441 | Post | In the attached multi turret part, when canned cycle is used for lathe drill operations then some of the operations are not posted. |
| 42. | CW-109567 | CSR-17059 | TechDB | Problem with Tapping Tools comments. When changing the Tool comment of the Tapping Tool and save. While opening the part the tool comment is changed and it retains the old comments. |
| 43. | CW-109526 | CSR-17040 | Assembly | If adding a second part to the part manager in Assembly mode, after the first part is machined, does not allow menu commands to be active on the Feature Manager. |
| 44. | CW-109236 | CSR-16950 | Setup | For the specific Mill part machined on a Multiaxis machine, an "Out of limits" warning message is displayed for one of the Mill Part Setups though no selectable angle pair is available in the Indexing tab. |
| 45. | CW-109186 | CSR-16906 | TechDB | When user saves different Thread Conditions in the TechDB by executing the 'Save Operation Plan' command and using a copy of an existing Thread Condition, then the desired outcome is not achieved. The intended copies are emptied of Thread condition data and the original Thread Condition (from which copies were created) gets over-written. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|-------------------------|------------|---|
| 46. | CW-108547 | CSR-16736 | Setup | For the specific Mill part being programmed, when user interactively inserts an operation, the operations get listed under the wrong split Mill Part Setup. |
| 47. | CW-108318 | CSR-16573 | UIF | Isometric view generated with respect to a Mill Part Setup is not correct and does not provide correct orientation of part/stock on the machine. |
| 48. | CW-108260 | CSR-16591 | Feature | For corner slot features, the segment radius of the Open Air Edge rather than that of the Vertical wall is considered as the Finish Radius resulting in incorrect tool selection on executing the 'Generate Operation Plan' command. |
| 49. | CW-107935 | CSR-16424 | Toolpath | For a group of Circular Pocket features, if a Chamfer Machining Contour Mill operation with an Avoid Area defined to skip one of the circular pockets is generated, then it is observed that CAMWorks generates an incorrect toolpath for this operation. |
| 50. | CW-107774 | CSR-16348 | Simulation | For the specific assembly, after simulating the toolpath, when the 'Compare' command is executed, CAMWorks crashes. |
| 51. | CW-107705 | CSR-16372 | Setup | For the specific assembly programmed to be machined on a 5-Axis Mill machine, when operations and toolpaths are generated for its slot feature, it is observed that the Y axis direction of the Coordinate system is incorrect, resulting in incorrect orientation. |
| 52. | CW-107527 | CSR-16290, CSR-16302 | Stock | For the specific Mill part, the dimensions of the Bounding Box Stock don't get updated. |
| 53. | CW-107000 | CSR-16088 | Toolpath | For Contour Mill toolpaths, if the Mirror Toolpath option is executed and the 'Keep Original' option is unchecked, it is observed that the mirrored toolpath shifts towards the original feature area rather than adhering to the Mirror Line. |
| 54. | CW-106409 | ----- | Toolpath | For the Contour Mill operation generated for the Circular Pocket feature of specific mill part, in its Contour tab, when the Depth parameter is set to 'Equal' and the Ramp value is set to 'Angle', then toolpath fails to generate. |
| 55. | CW-106003 | CSR-15616 | Mill-Turn | The Sub spindle fixture is not displayed in the correct location for Sub Spindle operations. |
| 56. | CW-105992 | CSR-15608 | Simulation | For Mill-Turn parts with Probing operations, none of the Turn operations in the Turn Setup listed after the Probe Setup get simulated. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|------------|--|
| 57. | CW-105436 | CSR-15415 | System | For any part being programmed using CAMWorks, if the tool crib contains too many tools and the user attempts to delete multiple tools from the tool crib, then CAMWorks takes an excessive amount of time to delete the selected tools. |
| 58. | CW-105320 | CSR-15307 | VoluMill | For a VoluMill Roughing operation, when user executes the 'Save Operation Plan' command to save the Machining strategy to TechDB, it is observed that TechDB fails to save the user assigned VoluMill Ramp angle parametric value. Instead, the default value is retained. |
| 59. | CW-105043 | CSR-11142 | Toolpath | For toolpaths that have CNC Compensation set to True and the Toolpath Offset set to False, if the leadin is an arc with a tangent line, then the uncompensated toolpath should be created such that the resultant moves too maintains tangency. |
| 60. | CW-104492 | CSR-14992 | Turn | In Turn mode, two consecutive Groove operations share the same tool and have Approach/Retract set to 'Auto'. The retract point of the first operation serves as the beginning of the second toolpath. However, when tool assigned to the second operation is changed, then Retract point of previous operation is not updated though 'Auto' option is enabled. |
| 61. | CW-103348 | CSR-14312 | Toolpath | Continuous B Axis Turning toolpaths are not generated for Face Finish operations. |
| 62. | CW-102437 | CSR-13963 | Toolpath | For specific assembly comprising nested parts, if some of Contour Mill operations are combined into a single operation and the 'Optimize between groups' option is selected under 'Optimization' tab, then the resultant toolpath shifts away from the part. |
| 63. | CW-101844 | CSR-13815 | Simulation | For Mill parts, if some of Contour Mill operations generated for Rectangular Boss Features are combined into a single operation and "Last closest" from Start point option under Optimize tab is unchecked, then during simulation, erroneous toolpath moves are observed for the boss features. |
| 64. | CW-101841 | CSR-13063 | Simulation | Legacy Machine Simulation doesn't work correctly when the only CAMWorks license module active is the 4 Axis Mill license and the Rotary and Tilt angles are output automatically with 'Override' option is disabled. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|----------------|---|
| 65. | CW-100226 | CSR-13227 | UIF | For Probe operations, in the UI section of 'Update the WCS', if the 'Use Setup Definition' is disabled, then the option to define the WCS using Fixture, Work Coordinate, and Work and Sub Coordinate becomes active with Fixture being the default. However, this option doesn't become active unless user toggles to one of the other two options and reverts to this option. It affects post processed code in case user doesn't intervene as mentioned. |
| 66. | CW-99899 | CSR-13100 | System | When CAMWorks is loaded as an Add-In in the SOLIDWORKS environment where a specific Assembly file containing CAM data is already loaded, it causes SOLIDWORKS to crash. |
| 67. | CW-99733 | CSR-13063 | Toolpath | For the specific Mill part, an incorrect Contour Chamfer Mill toolpath is generated for a group hole feature that has an Avoid Area defined using a sketch not aligned with the Z axis of the Mill Part Setup. |
| 68. | CW-99279 | CSR-12932 | Toolpath | For Mill part with an irregular pocket feature of specific geometry, the Feature Finish Radius computed for the Roughing and Finishing toolpaths is incorrect as CAMWorks is incorrectly based on the Convex arc of the feature rather than its concave arc. |
| 69. | CW-98964 | CSR-12822 | UIF | When user uses the 'Go To' command available in the CAMWorks NC Manager to searching for a specific operation and edit it, the UI doesn't allow the user to edit the operation unless the Search window is closed. However, the UI jumps back to the CAMWorks NC Manager item the moment the window is closed, thereby negating the whole purpose of the 'Go To' command. |
| 70. | CW-98790 | CSR-12699 | Feeds & Speeds | For Mill parts, when Feed/Speed parameter is defined by tool, if the XY RPM is higher than Max RPM, then it must get auto reassigned to the Max RPM value. This behavior is not observed for the specific Mill part resulting in user having to manually change it for every operation. |
| 71. | CW-98768 | CSR-12719 | Toolpath | For the specific Mill part, the tool used for the Rough Mill operation executes a full diameter cut during machining resulting in damage to the tool or machine. |
| 72. | CW-98352 | CSR-12460 | UI | When Display tool tip option is enabled in CAMWorks, the value displayed in the tool tip for Lead In feed under F/S tab for a Multiaxis Mill operation doesn't match the actual Lead In feed parametric value. |
| 73. | CW-98315 | CSR-10075 | TechDB | When using the customized TechDB, in the Mill Tool Select Filter UI of CAMWorks, the Holder designation description is incorrectly displaying 'Null' value when attempting to add a Tool Assembly from the TechDB library. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|-----------|--|
| 74. | CW-98002 | CSR-12220 | Assembly | When an Assemble Face feature is defined for an assembly with a common stock, then after the Rebuild command is executed, the Face feature gets limited to a single part instance rather than covering the common stock. |
| 75. | CW-97587 | CSR-11941 | Rebuild | Once the Rebuild command is executed for the specific Mill part (for which a Fixture Coordinate System was defined using as Stock Vortex) and the Mill machine select is changed, it is observed that toolpaths shift away from the feature. |
| 76. | CW-96373 | CSR-11372 | UIF | For Mill parts, when the Coordinate system is modified and toolpaths are regenerated, the checkbox option for Fixture Coordinate System parameter under Axis tab of the Mill Part Setup disappears for the second Mill Part Setup in the Operation tree. |
| 77. | CW-95196 | CSR-10959 | Feature | If the stock is a sheet metal part and the Feature Recognition method is set to 'MfgView' and the Max hole diameter is set to a small value, then circular shapes are not recognized as Circular Pockets on executing the 'Extract Machinable Features' command. |
| 78. | CW-92540 | CSR-10460 | Feature | For any Mill part with a Perimeter- Open Pocket feature, if the default End Condition value is changed to any other value less than the part depth, then it is observed that CAMWorks fails to retain the newly saved value. |
| 79. | CW-86451 | CSR-8491 | Post | For the specific Turn part, the correct NC code is not output for the start point for front turret for Pinch turning Rough Canned Cycle operation. |
| 80. | CWR-2003 | CSR-18886 | Toolpath | For the specific Mill part, the Adaptive Area Clearance toolpaths doesn't get generated when the Toolpath Generation Engine is set to 'Advanced Method'. |
| 81. | CWR-1993 | CSR-18290 | Toolpath | Pencil Mill toolpaths created in CAMWorks 2020 with the Previous Engine will not generate in CAMWorks 2021 or later with the Advanced engine. |
| 82. | CWR-1988 | CSR-18189 | Toolpath | The Z Level Helical Issue is found at the Z level toolpath. Here at the toolpath, the last two lines are being made as normal Z level and not Helical. |
| 83. | CWR-1982 | CSR-17926 | Operation | Slope Angle is not observed for the Radial pattern. |
| 84. | CWR-1980 | CSR-17716 | Toolpath | The number of line move deviation point at the horizontal lead in/out move is not increase considering the mech. deviation value in an advanced method. By the same parameter the line points are increase with previous engine. |



CAMWorks 2022 SP0

* Please refer to 'What's New' PDF document for details regarding enhancements in CAMWorks 2022.

| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------------------|------------------------|--------------------|--|
| 1. | CW-111624 | CSR-18140 | Machine Simulation | In CAMWorks Virtual Machine, incorrect tool shape is displayed if the shank type is set to Neck. |
| 2. | CW-111615 | CSR-18139 | Operation | For the specific part, when edit definition is performed on Face Rough operation, then it is observed that the display of the Turn Holder is incorrect. |
| 3. | CW-111605 | CSR-18120 | Post | Incorrect value is output for the retract plane of a drill operation generated for a linear pattern of hole features which are at different planes. |
| 4. | CW-111595 | CSR-18071 | Post | In Mill-Turn mode, when the toolpath for a pattern of features is posted where the first instance is suppressed then, the posted NC code will include the co-ordinates of the suppressed instance. As the feature instance is suppressed then, the co-ordinates of the suppressed instance should not be post processed. |
| 5. | CW-111521 | CSR-18083 | Post | Incorrect values are observed in a posted output for Multi axis mill operation generated on patterned multi surface feature. |
| 6. | CW-111514 | CSR-17920 | API | Add API declarations for CWMillMachine. |
| 7. | CW-111389 | CSR-17973 | Operation | With the customized TechDB, a crash of CAMWorks is observed when the user does Save Operation Plan on the features machined in the specific part. |
| 8. | CW-111074 CW-110718 | CSR-17888 CSR-17727 | API | Add an API to set the option of selecting 'Fixture Coordinate system' under X machining direction in the Mill Part setup parameters. |
| 9. | CW-111004 | CSR-17852 | Post | In Assembly mode, when output subroutines are set to 'On' then, extra sub programs are posted which is not required. |
| 10. | CW-110983 | CSR-17654 | TechDB | A crash of CAMWorks is seen while opening any part or assembly in inch mode with the specific TechDB. |
| 11. | CW-110960 | CSR-17808 | Rebuild | For the specific assembly file, a crash of CAMWorks is seen when rebuild is performed in the existing CAM data. |
| 12. | CW-110945 | CSR-17796 | Rebuild | For the specific assembly file, a crash in CAMWorks is seen upon performing Rebuild after changing the end condition of multi stepped holes from Through to Blind. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|-----------------------|--|--------------------|--|
| 13. | CW-110754 | CSR-17163 | Machine Simulation | Add a new header command "USE_COMBINATION_ID_AS_NAME_WHEN_AVAILABLE" to pass the combination id as the tool name to CAMWorks virtual machine. |
| 14. | CW-110639 | CSR-17686 CSR-17699 CSR-17836 CSR-17615 | UIF | When the 3 axis Mill toolpaths are regenerated then, the process manager dialog box does not close automatically. |
| 15. | CW-110607 | CSR-17669 | Operation | In 3 axis operations, when the option of "Convert to 5 axis" is selected then, the commands of step through, simulation and posting in the CAMWorks command manager get disabled. |
| 16. | CW-110600 | CSR-17620 | Feature | For the specific part, when a face feature is created using a sketch then, it is flipped by 180 degrees rendering the feature unusable. |
| 17. | CW-110558 | CSR-17594 | TechDB | In TechDB, the user set option for "Use Feed/Speed library for mill" doesn't affect the Face mill operations. |
| 18. | CW-110487 | CSR-17549 | Operation | In Contour Mill operations on combined features, the leadin and lead outs are not same on all features even though the option of apply leadin/outs to all is set to True. |
| 19. | CW-110359 CW-99329 | CSR-17511 CSR-12948 | Feature | The part edges identified for chamfering through the option of "Auto select edge for chamfering" should consider the part setup direction so that the toolpath doesn't gouge the target part. |
| 20. | CW-110352 | CSR-16946 | TechDB | In Polish language version of CAMWorks, when the user defined holder namely "Użytkownika" is saved in TechDB, then the string is replaced with "Uzytkownika" ignoring the second letter ("ż"). |
| 21. | CW-110259 | CSR-17488 | Toolpath | For the specific part, the toolpath generated for Rough Mill operation with pattern type set to offset roughing, ignores the user defined avoid area. |
| 22. | CW-110065 | CSR-17399 CSR-17369 | Post | When a newly compiled post processor is used to post the Mill toolpath then, the values output for arc moves are incorrect. Instead of outputting the incremental values, the post processor posts the absolute values. |
| 23. | CW-110047 | CSR-17364 | UIF | When the 3 Axis toolpath generation method is set to Advanced then, then on the rest tab of the operation parameters the controls within the "Boundaries" group box should be disabled if the Rest method is not set to 'Previous Tool'. |
| 24. | CW-110036 | CSR-17345 | Toolpath | For the customer specific part, a crash of CAMWorks is seen upon generating the toolpaths. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------|--------------|--------------------|--|
| 25. | CW-110002 | CSR-17315 | Post | Add new variables in Universal Post Generator to output values for "CANNED_CYCLE_FIRST_CUT" and "CANNED_CYCLE_FINAL_CUT" for turn rough operations. |
| 26. | CW-109994 | CSR-17314 | Post | If the post operation is positioned at the end of the operation tree, then upon post processing the codes of the last post operation are incorrectly output. |
| 27. | CW-109975 | CSR-17152 | Machine Simulation | Update the machinedef.exe file of the CAMWorks Virtual Machine simulation to support the multi turret machines. |
| 28. | CW-109859 | CSR-17205 | Post | Add a new post variable 'RUNNING_VERSION' that identifies the version and service pack of the CAMWorks that is running. |
| 29. | CW-109830 | CSR-17176 | Feed & Speed | In Feed and Speed library, for face mill operation parameters the label of "Depth of Cut" should be "Radial depth of cut". |
| 30. | CW-109825 | CSR-17154 | Help | In Universal Post Generator help file, a note stating that 'OPR_Z_RAPID_PLANE' variable should not be used for Multiaxis operations needs to be added. |
| 31. | CW-109753 | CSR-16973 | Feed & Speed | In CAMWorks Feed and Speed library, if more than one material is imported at the same time then, the data gets corrupted. |
| 32. | CW-109734 | CSR-17154 | UIF | In a Multi Axis operation, when the Clearance Plane is defined from a selected point, the UI does not get updated and incorrect value gets posted in the G code. |
| 33. | CW-109651 | CSR-17082 | Post | Incorrect tool numbers are observed in posted output for toolpaths using tools from same station but belonging to different sub stations. |
| 34. | CW-109572 | CSR-17053 | Feed & Speed | In the Feed and Speed library, on the bottom left of the Feed and Speed table a handle is observed, when dragged allows to have multiple copies of the table visible which is confusing to the user. |
| 35. | CW-109571 | CSR-17053 | Feed & Speed | Remove the unwanted entities from the user interface of CAMWorks feed and speed library which create duplicate columns in the table. |
| 36. | CW-109570 | CSR-17053 | Feed & Speed | In the CAMWorks Feed and Speed library, when any row is copied and saved then no notification is displayed regarding the changes. |
| 37. | CW-109442 | CSR-16917 | Feature | A crash of CAMWorks is seen while interactively inserting a hole feature in an assembly file using SOLIDWORKS 2021 SP3. |
| 38. | CW-109336 | CSR-16962 | Toolpath | For the specific part, incorrect toolpath is generated for Contour Mill operation machining a slot feature having an island with chamfer on the top face. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------------------|------------------------|--------------------|--|
| 39. | CW-109301 | CSR-16983 | Translation | In Chinese Language version of CAMWorks, the labels in the VoluMill Settings dialog box are incorrectly translated. |
| 40. | CW-109299 CW-106672 | CSR-16979 CSR-15869 | Machine Simulation | If a gang tool is used in a Turn or Mill-Turn machine then, the same is incorrectly displayed in CAMWorks Virtual Machine. |
| 41. | CW-109211 | CSR-16937 | Feature | On a Mill-Turn machine the user is not able to assign spindle attribute to a mill feature created after doing a rebuild. |
| 42. | CW-109209 | CSR-16918 | Assembly | When specific assembly files saved in earlier version of CAMWorks are opened in CAMWorks 2022 then, upon doing a rebuild, a message is displayed indicating that CAMWorks is unable to recognize features automatically. |
| 43. | CW-109184 | CSR-16909 | UIF | Under Additional Probe Parameters, the user can't add negative values for tolerance parameters. |
| 44. | CW-109169 | CSR-16878 | Feature | On Turn machines having dual spindles, when the user edits the dialog for Main spindle co-ordinate system then, the direction of the Sub spindle co-ordinate system gets changed. |
| 45. | CW-109159 | CSR-16874 | Simulation | User is not able to simulate the toolpaths generated with tools set as non-center cutting as some of the dimensions result in incorrect tool geometry. |
| 46. | CW-109154 | CSR-16679 | Post | Add a new query command "QUERY_FEATURE_NAME" to post. |
| 47. | CW-109118 | CSR-16831 | Toolpath | For circular pocket or hole feature, cutter compensation code is not posted for side passes of Contour Mill toolpath when hole center is selected for entry and exit. |
| 48. | CW-109068 | CSR-16776 CSR16856 | Feature | For the customer specific part, user is not able to insert a new feature interactively as CAMWorks becomes unresponsive. |
| 49. | CW-109042 | CSR-16807 | Toolpath | For the specific part, the toolpath generated for a Rough Mill operation with pattern type set to Offset roughing does not machine the feature completely. |
| 50. | CW-108823 | CSR-16353 | System | With new UPG installed on the system, the user gets an error message as the system fails to trace the installed post folder. |
| 51. | CW-108524 | CSR-16720 | Toolpath | For the specific part, the toolpath for a Rough Mill operation with pattern type set to Volumill gouges the feature as the location of the entry hole is incorrect. |
| 52. | CW-108488 | CSR-16718 | Toolpath | For the specific part with stock set by using a STL file, the rapid plane, clearance plane and Z start depths of 3 axis toolpath are incorrect. |



| Sr. No. | CPR Number | Help Desk ID | Area | Description |
|---------|------------------------|--|--------------|--|
| 53. | CW-108286 CW-108128 | CSR-16609 CSR-17124 CSR-16513 CSR-17077 | Feature | With SOLIDWORKS 2021 SP3 a crash of CAMWorks is seen whenever the user does rebuild on the existing CAM data. |
| 54. | CW-108242 | CSR-16578 | Toolpath | For the specific part, an extra pass gets generated when the existing toolpath of Contour Mill operation is regenerated. |
| 55. | CW-108237 | CSR-16549 | Post | If canned cycle is used for Turn threading operation, then incorrect values of X and Z start points are posted in the G code. |
| 56. | CW-108069 | CSR-16371 | Feed & Speed | In Feed and Speed library, when 'Delete Tool Material' is selected then, 'Add Tool Material' dialog box is launched instead of delete tool material dialog box. |
| 57. | CW-108056 | CSR-16371 | Feed & Speed | In the German version of Material library, the string ASTM number is incorrectly translated. |
| 58. | CW-107814 CW-107813 | CSR-16371 | Feed & Speed | In the 64-bit Feed and Speed library, the delete tool command invokes the dialog for Add new material. |
| 59. | CW-107811 | CSR-16362 | Toolpath | For the specific part, the toolpath for a curve project operation cannot be generated |
| 60. | CW-107771 | CSR-16408 | Operation | When the toolpath of a Rough Mill operation with pattern type set to Volumill and entry method set to Entry drill is mirrored then, the position of the entry drill is not mirrored accordingly. |
| 61. | CW-107491 | CSR-16239 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part the user is unable to generate toolpath for Z level operation. |
| 62. | CW-107378 | CSR-16204 | Assembly | For the specific assembly the user defined FCS from a sketch point is not retained upon closing and reopening the assembly. |
| 63. | CW-106941 | CSR-16018 | TechDB | In TechDB, the Mill-Turn tool crib for Turn assembly tools allows to select Mill holder. It should not be active when Turn insert-holder combination is selected. |
| 64. | CW-106938 | CSR-16003 | Simulation | For the specific part setting low variable allowances in Turn operations results in incorrect display of simulation and the part appears to be overcut. |
| 65. | CW-106933 | CSR-106933 | Operation | In Turn operations the user defined values of Z end in the Turn operation setup are not applied unless the user edits the operations and generates the toolpath again. |
| 66. | CW-106809 | CSR-10781 | Toolpath | For the specific part, some of the user defined values for corner rounding are not applied to the Contour Mill toolpath and this results in incorrect toolpath. |



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|---------|------------|--------------|--------------------|---|
| 67. | CW-106672 | CSR-15869 | Machine Simulation | In CAMWorks Virtual Machine, the gang tools set in a Mill-Turn tool crib are incorrectly positioned. |
| 68. | CW-106354 | CSR-15800 | License | Modify the dongle Key Manager program to be able to view COD file so that the resellers can verify the modules included in the COD file. |
| 69. | CW-106258 | CSR-15751 | Operation | Upon doing a rebuild on a Mill part, the dimensions of the Face feature are not updated and because of this the corresponding operations of the feature are not updated. |
| 70. | CW-106042 | CSR-15568 | Simulation | When Wire EDM is added as an active add-in along with the CAMWorks add-in then, while simulating the mill toolpaths the flute length of the tool is not displayed. |
| 71. | CW-105995 | CSR-15606 | Toolpath | For the specific assembly, the orientation of the Mill part setup gets changed to an incorrect direction when the corresponding feature setup is edited. |
| 72. | CW-105399 | CSR-15264 | Toolpath | For the specific assembly file, the toolpath generated for Contour Mill operation with toolpath center set to with compensation on a curve feature doesn't generate any cut moves. |
| 73. | CW-105348 | CSR-15297 | Simulation | Incorrect results are seen when a Contour Mill toolpath with toolpath center set to without compensation is simulated. |
| 74. | CW-105184 | CSR-15220 | Feed & Speed | In CAMWorks Feeds and Speeds library, the resized dialogs are not retained upon restarting the application. |
| 75. | CW-105104 | CSR-15186 | Operation | User should not be able to select STL files to define the user defined Mill holder. |
| 76. | CW-104634 | CSR-15045 | Operation | The time taken to open the "Operation Parameter" dialog box is significantly more when the tool crib contains more number tools even though they are not assigned to any operation. |
| 77. | CW-104621 | CSR-15004 | Toolpath | For the specific part, the turn toolpaths display an incorrect warning message saying that the toolpath is not computed because of a collision. |
| 78. | CW-104154 | CSR-14796 | Toolpath | The toolpath of a Rough mill operation with pattern type set to Volumill doesn't consider the multiple avoid areas defined using a single sketch and instead considers only a single closed contour. |
| 79. | CW-103903 | CSR-14710 | Rebuild | For an Assembly file, when the Fixture Coordinate System is defined using the part vertex and when the part is shifted by changing the distance, it is observed that the Fixture Coordinate System does not get updated with respect to part. |



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|---------|-----------------------------------|-------------------------------------|--------------------|--|
| 80. | CW-102460 | CSR-14072 | TechDB | The value set for the spiral ramp angle of a Volumill toolpath is not written to corresponding TechDB field when Save Operation Plan is done on the feature in CAMWorks. |
| 81. | CW-102394 CW-99329 CW-94636 | CSR-14049 CSR-12948 | Feature | In some specific parts, the time taken to identify curve features for chamfering is significantly high and, unwanted edges are selected as curve features. |
| 82. | CW-102325 | CSR-13957 | Toolpath | For the specific assembly, the toolpath for Rough Mill operation ignores the defined fixtures and collides with the fixture bodies. |
| 83. | CW-100896 | CSR-13390 | Operation | When Mill Part setup is manually inserted then, it does not calculate correct rotary and tilt axis under indexing tab of mill part setup if machine is saved with predefined rotary or tilt direction in TechDB. |
| 84. | CW-100891 | CSR-13308 | Feeds & Speed | In Feed and Speeds library the "Axial depth of cut" option remains disabled unless dialog is refreshed toggling with another operation type. |
| 85. | CW-99223 | CSR-12909 | Simulation | For the specific part, the stock defined using an extruded sketch is not being set correctly in simulation. |
| 86. | CW-99164 | CSR-12871 | Toolpath | For the specific part, the toolpath is not generated for Face mill operation. |
| 87. | CW-98683 | CSR-12602 | UIF | The tool description in the operation name when using a user defined tool is incorrect. |
| 88. | CW-97991 | CSR-12174 | Toolpath | For the specific part, incorrect toolpath is generated for a Turn Rough operation. |
| 89. | CW-97821 | CSR-12111 CSR-12637 | Simulation | For the specific assemblies, in simulation the tool makes unwanted moves in space which are not present in the toolpath generated for the features. |
| 90. | CW-95796 | CSR-11240 | Toolpath | For the specific assembly, the toolpath for rough mill operation with pattern type set to Offset roughing gouges the parts defined as fixtures. |
| 91. | CW-95792 | CSR-11157 | Feature | For the specific assembly, incorrect depth of the perimeter feature is calculated when the features are recognized through Extract Machinable Feature command. |
| 92. | CW-93545 | CSR-10653 CSR-10891 CSR-16504 | UIF | The CAMWorks command manager toolbar of Additive Manufacturing gets activated upon restarting CAMWorks even when the user disables it. |
| 93. | CW-92580 | CSR-17795 | Machine Simulation | The letters used to define the path of CAMWorks virtual machine should not be case sensitive. |



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|---------|------------|--------------|----------|--|
| 94. | CW-88314 | CSR-9682 | Toolpath | For the specific part, incomplete toolpath is generated for the Rough Mill operation on an open pocket feature having islands. |
| 95. | CW-85059 | CSR-7534 | Feature | For the specific assembly, the depth of the part perimeter feature becomes incorrect after a rebuild. |
| 96. | CWR-1986 | CSR-18004 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part, the toolpath for the Z level operation with rest machining results in error and no toolpath is generated. |
| 97. | CWR-1985 | CSR-17968 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part the toolpath generated for Z level operation does not consider the holder avoidance. |
| 98. | CWR-1954 | CSR-17296 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part the toolpath for the Z level operation gouges the part. |
| 99. | CWR-1953 | CSR-17300 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part incorrect toolpath is generated for Flat area operation |
| 100. | CWR-1948 | CSR-17110 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part incorrect toolpath is generated for Flat area operation. |
| 101. | CWR-1945 | CSR-17098 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part the toolpath generated for the Pencil Mill operation displays unwanted moves. |
| 102. | CWR-1918 | CSR-15866 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part the toolpath generated for Z level operation does not adhere to user defined allowances. |
| 103. | CWR-1915 | CSR-15945 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part the toolpath for Z Level operation is not generated. |
| 104. | CWR-1910 | CSR-15671 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then for the specific part incorrect toolpath is generated for the Z level operation as it does not adhere to the user defined values for the slope angle. |
| 105. | CWR-1862 | CSR-14253 | Toolpath | When the 3 Axis toolpath generation method is set to Advanced then, for the specific part incorrect toolpath is generated for Z Level operation as the user defined avoid features are ignored. |