MASTERCAM 2020 FOR SOLIDWORKS® README

April 2019

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Software: Mastercam 2020 for SOLIDWORKS

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Information might have changed or been added since this document was published. The latest version of the document is installed with Mastercam or can be obtained from your local Reseller. A ReadMe file (ReadMe.PDF) – installed with each release – includes the latest information about Mastercam features and enhancements.

INTRODUCTION

Please review this ReadMe for last-minute product information about Mastercam 2020 for SOLIDWORKS. Report any problems to qc@mastercam.com.

MASTERCAM 2020 FOR SOLIDWORKS

Category	Name	Number
General	The processing of commas and periods as decimal separators is not working correctly due to the presence of SOLIDWORKS PDM on the same computer.	R-19769

MASTERCAM 2020 FOR SOLIDWORKS 04/11/2019

Category	Name	Number
Interface	Plane Manager fails to create a plane from part geometry.	R-19288
Mastercam for SOLIDWORKS	Selecting a large number of containment boundaries causes SOLIDWORKS to crash.	R-19357
Mastercam for SOLIDWORKS	SOLIDWORKS crashes when creating stock from Stock Setup's Bounding Box panel.	R-19431
Tooling	Lathe 3D Tools does not output right-hand or left-hand data in NCI.	R-18866
Tooling	Tool holder and insert names do not output to NCI.	R-19076
Toolpaths	Regenerating legacy files with Equal Scallop operations causes Mastercam to crash.	R-19639

MASTERCAM 2020 FOR SOLIDWORKS 03/21/2019

Category	Name	Number
Mill	Mastercam crashes when Connection cylinder direction is set to auto.	R-19070

MASTERCAM 2020 FOR SOLIDWORKS 02/28/2019

Category	Name	Number
General	The plugin fails to load when running Probing from a SOLIDWORKS Mill 3D license.	R-18830
Toolpaths	When hole making is set to Absolute with Calculate incremental values from holes/lines enabled, the hole length is added to the top of the stock.	R-18796

MASTERCAM 2020 FOR SOLIDWORKS 01/17/2019

Category	Name	Number
Backplot/Verify/Simulation	When Cutter comp is set to Control in the toolpath display, moves are incorrect in Classic Backplot.	D-36336
Backplot/Verify/Simulation	Machine simulation is not supporting WCS properly.	D-35311
Backplot/Verify/Simulation	Stock boundary does not update during Simulation in Classic backplot.	D-34594
Lathe	Stock boundary fails, and reports false collisions when using overlap.	R-18050
Posts	MpbinX is deleting .psm/.mcdpost files when target folder is not present.	R-16958
Reports	Lathe grip point is not listed in the XML file.	R-18443
Toolpaths	C-Axis Contour, spindle is reversing direction.	R-18348
Toolpaths	Toolpath location is not updating correctly after a design change.	R-17472
Toolpaths	The trim operation outputs NCI line 999 with no values, causing posting errors.	R-11546

MASTERCAM 2020 FOR SOLIDWORKS 12/27/2018

Category	Name	Number
Backplot/Verify/Simulation	Backplot's Information dialog box displays Lathe coordinates when Mill operations are selected.	D-36216
Backplot/Verify/Simulation	Backplot does not display the final pass of a Ramp.	D-36160
Backplot/Verify/Simulation	Mastercam Simulator does not verify operations that occur after a Stock Model operation.	D-36136
Backplot/Verify/Simulation	Backplot does not display the correct Z coordinate in the Status bar.	D-36004
Backplot/Verify/Simulation	Simulation generates an error when the Filter option is enabled on Rotary 4-Axis or Flow 5-Axis operations.	D-35422
Backplot/Verify/Simulation	Backplot reports an Invalid Feedrate on Contour toolpaths.	R-18282
Backplot/Verify/Simulation	The translucent Stock display option in Verify shows triangles around the edges of the part.	R-17911
Interface	The Tab key does not move the cursor from the Stock to Leave on Walls field on the Cut Parameters page.	R-16916
Interface	The Tool display setting is still in the Edit Common Parameters dialog box.	S-60298
Lathe	PrimeTurning misses depth passes.	R-18110
Lathe	Mastercam reports a stock collision with Left spindle stock when the stock is on the Right spindle.	R-17045
Mastercam for SOLIDWORKS	Wizard Holes does not detect features.	R-18370
Mill	The 3D HST Waterline toolpath creates sharp tool motion when legacy files are regenerated.	R-18315
Tooling	Lathe tool insert radius is not smooth in Backplot.	R-17963
Tooling	Slow loading of 3D tools in Backplot.	S-59873
Toolpaths	Toolpath location does not update correctly after a design change.	R-17472
Toolpaths	Multiaxis Link does not consistently post the 154 marker in NCI output.	R-16875
Toolpaths Manager	Exporting an operation replaces the target operations file (.MCAM-OPERATIONS) with the current part file.	R-18127
Toolpaths Manager	Mirror by Geometry in Toolpath Transform does not chain the complete contour.	R-17425
Toolpaths Manager	The Clearance value in a Thread Mill toolpath does not update when modified with Edit Common Parameters.	R-16591

MASTERCAM 2020 FOR SOLIDWORKS 11/29/2018

Category	Name	Number
Interface	SOLIDWORKS crashes when enabling the Mastercam for SOLIDWORKS add-in with a specific file.	R-17634
Lathe	Unable to create a Turn Profile from surfaces.	R-17002
Tooling	When using a 3D tool in an operation, the Constant Surface Speed is incorrectly scaled.	R-17923
Toolpaths	An incorrect Feed rate in the NCI is seen after regeneration of the 2D High Speed Toolpath.	R-17892
Toolpaths	2D Contour Ramp is not working properly.	R-18016
Toolpaths Manager	Operations using the hot key T toggles display off, but not on.	R-17828

MASTERCAM 2020 FOR SOLIDWORKS 11/08/2018

Category	Name	Number
Backplot/Verify/ Simulation	Backplot with Compensation in Control runs extra passes.	R-16711
General	SOLIDWORKS file size grows with each save.	R-16622
General	Unicode regression crashes in Surface Rough Pocket Toolpath.	R-17826
Interface	More Colors option is causing inconsistent crashes.	R-17383
Lathe	Face Toolpath using Use Stock and Corner settings is gouging the part.	R-16253
Lathe	Stock Advance, Use tool stop. does not behave the same as it did in X9.	R-16536
Lathe	There is a Stock collision error on left spindle after working on right spindle.	R-16794
Lathe	Roughing with Break Chip ID tools ignors the Plunge feedrate.	R-17099
Lathe	Dynamic Rough Toolpath is not regenerating after a Stock flip.	R-17171
Lathe	Rough Stock is not updating stock.	R-17687
Mill	Surface Finish Contour crashes Mastercam on regeneration when Detect Under-cuts is enabled.	R-17728
Reports	In Active Reports, NC file name shows .NCI.NC extension.	R-17559
Tooling	Changing the RPM is marking the toolpaths dirty.	R-17751
Toolpaths	Hybrid Z stepdowns are inconsistent.	R-03159
Toolpaths	Changing Lathe C-Axis Toolpath work offsets requires regeneration.	R-15624
Toolpaths	Check Holder does not account for tapered holders correctly.	R-17069
Toolpaths	Surface High Speed Hybrid Toolpath does not cut to the full depth if multiple Tool Containment Boundaries are selected.	D-02977
Toolpaths	A Hybrid Toopath that contain multiple Tool Containment Boundaries is missing some Z slices.	D-13332

MASTERCAM 2020 FOR SOLIDWORKS 10/18/2018

Category	Name	Number
Backplot/Verify/Simulation	Tab motion is not supported in Simulator when compensation is set to control.	D-13451
Backplot/Verify/Simulation	When tool compensation is set to control the tool is cutting to center of insert.	D-35607
Backplot/Verify/Simulation	Incorrect tab motion for compensation type - control.	D-35695
Lathe	Groove multi-plunge is leaving ribs for finish pass.	R-16068
Lathe	Prime Turning requires asecond regeneration to enable extended start of contour.	R-17206
Lathe	Prime Turning - Selecting the Clean up Corners recuts the last roughing pass.	R-17442
Lathe	Prime Turning is exceeding the maximum depth of the cut setting.	R-17482
Lathe	Face Toolpath - Second Feed/Speed option is reversing the spindle direction.	R-17669
Mill	Surface Finish Contour produces gouges in the surface.	R-06010
Mill-Turn	C-axis Contour toolpath cuts geometry in a flat plane instead of following the face.	R-17627
Tooling	Contour with concave tool definition verifies incorrectly unless the shoulder length is equal to the cut length.	D-35556
Toolpaths	Multisurface Rough Pocket generates an Encounter an improper Argument error when Pocket parameters tab is selected.	R-07151
Toolpaths	Surface Rough Pocket skips passes when the spiral inside to outside option is selected.	R-13164
Toolpaths	Lathe multi-plunge toolpath is rapiding into the stock.	R-17175
Toolpaths	Operations are not being marked dirty after re-chaining geometry.	R-17338
Toolpaths	Surface Finish Parallel adds splines instead of arcs.	D-05936
Toolpaths Manager	Surface Finish Contour on a solid model causes tool to violate solid.	D-08230
Toolpaths Manager	Long regeneration times for Finish or Contour toolpaths with slot mill undercutting.	D-15203

MASTERCAM 2020 FOR SOLIDWORKS 09/27/2018

Category	Name	Number
Backplot/Verify/Simulation	Backplot reverses arcs.	D-35557
Backplot/Verify/Simulation	ID Threading tool backplots in an incorrect orientation.	R-17413
Mill	2D Contour using Compensation Control is backplotting twice around a circle.	D-34786

MASTERCAM 2020 FOR SOLIDWORKS 09/06/2018

Category	Name	Number
Mill	Remachining skips depth cuts in some areas with multi passes when the Final depth option is selected	R-04617
Mill	Contour toolpath with negative stock to leave, perpendicular lead in/out and adjust start/end moves set to shorten, the perpendicular lead in/out is removed.	R-05298
Mill	Ball nose endmill causes computation error in Dynamic OptiRough toolpath.	R-06285
Mill	When the cut method is changed to zigzag in parameters, Dynamic OptiRough is missing cuts.	R-07378
Mill	Contour Ramp with External corner break radius not working.	R-07877
Mill	Multi Passes with zero finish spacing does not output the compensation code.	R-08454
Mill	Dynamic OptiRough does not cut to bottom of flat ledge.	R-09096
Mill	2D Blend Mill is giving up-down-back-up retract move when using linking parameters retract set to incremental.	R-09786
Mill	Dynamic OptiRough outputs code before the start of the NCI file.	R-09979
Mill	Surface Rough Project acts oddly in this file the second time the operation is created.	R-10088
Mill	3D High Speed Toolpath, Dynamic OptiRough lead move should be rapid.	R-14389
Mill	Dynamic start point affects the amount of geometry that is cut.	D-08619
Mill	2D Dynamic Mill core rest does not regenerate.	D-13270
Mill	Dynamic OptiRest is generating unnecessary air cuts, based on containment boundary settings.	D-13342
Mill	Dynamic Optirest Z Depth settings affect gouging in one area of the part.	D-15825
Mill	Model Geometry grid with Toolpath/surface selection set to All in System Configuration is adding geometry to the Avoidance Group.	D-35301
Toolpaths	Raster transition settings are causing gouging the flat surfaces.	R-03163
Toolpaths	Adding a chamfer operation between a 2D Contour with tabs, and a separate tab cut off, causes error.	R-04542
Toolpaths	Spindle direction is incorrect in NCI Toolpath file for finish pass.	R-09399
Toolpaths Manager	Editing an in-process multi-threading operation should not be allowed.	R-17360

MASTERCAM 2020 FOR SOLIDWORKS 08/13/2018

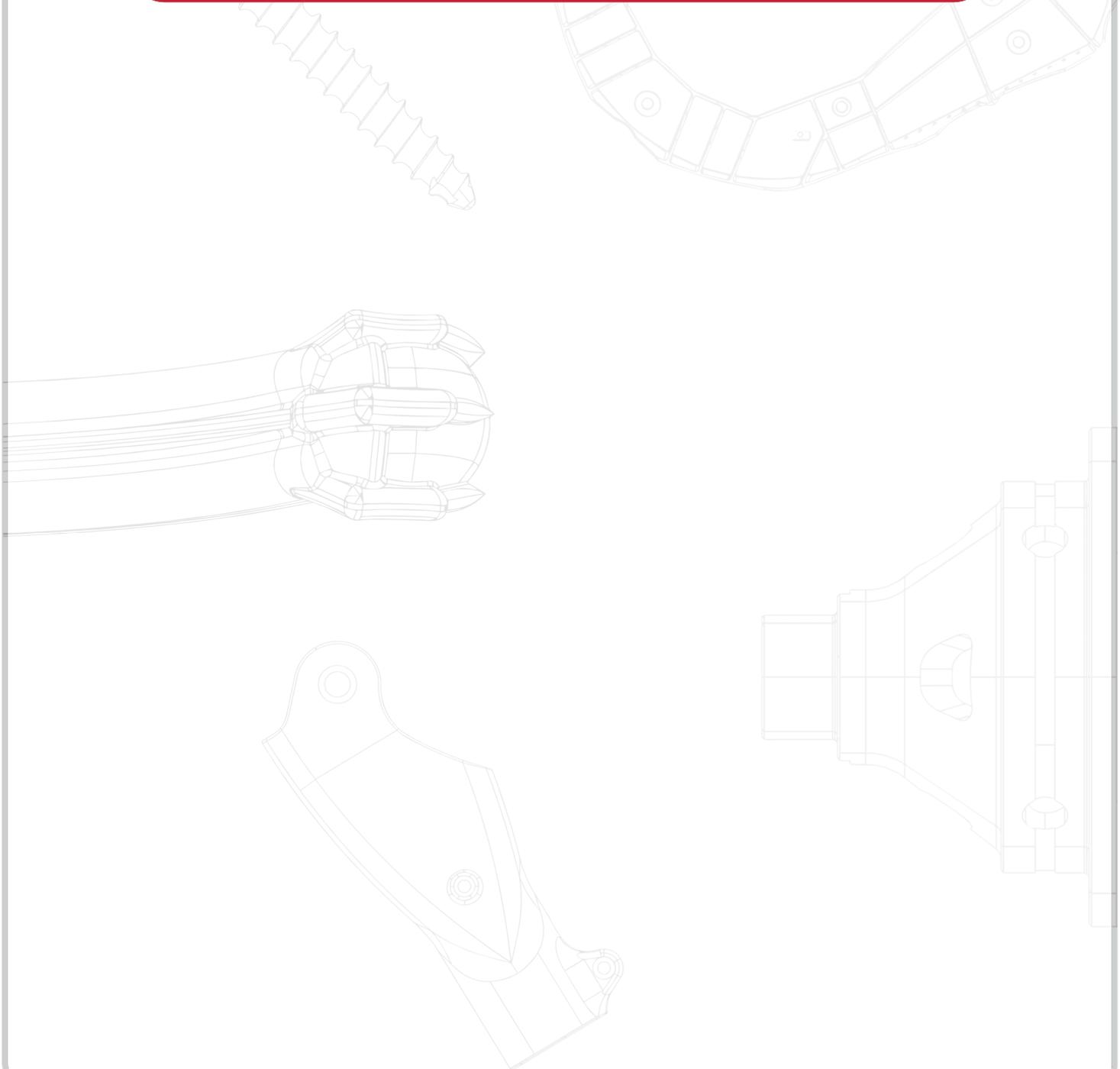| Category	Name	Number
Backplot/Verify/Simulation	Changes to chain order are not being maintained.	R-16948
Backplot/Verify/Simulation	Mastercam Simulator has problems using a metric lathe drill in an inch Mastercam part.	D-35083
Backplot/Verify/Simulation	Verify is not showing a gouge.	D-35124
Mill	Wizard Hole relies on manual selection to allow the user to select a plane for through holes that lie on the top plane.	R-17137
Toolpaths	Mastercam is renumbering tools in hole-making toolpaths that generate sub pro-grams do not work unless the operations are regenerated.	R-16774
Toolpaths	3D Surface High Speed Equal Scallop is crashing Mastercam.	R-17034
Toolpaths	Using a tool with a tip angle of 41 degrees does not create the Model Chamfer toolpath.	R-17041
Toolpaths	Creating a Port Expert toolpath results in it treating the stock as if it were a solid.	D-35174

MASTERCAM 2020 FOR SOLIDWORKS 07/05/2018

Category	Name	Number
Backplot/Verify/ Simulation	Parking arm operations with no tool change should show collision with machine housing.	S-54576
Backplot/Verify/ Simulation	Simulating a lathe Pull/Cutoff operation leaves parted stock model behind.	D-18780
Backplot/Verify/ Simulation	Lathe Cutoff/Pickoff operations simulating in Verify does not show stock in the subspindle.	D-19287
Backplot/Verify/ Simulation	Verify of Stock Flip using non-Top WCS is incorrect.	D-23290
Backplot/Verify/ Simulation	Mastercam Simulator, custom lathe tool geometry produced infinity points errors and Verify fails.	D-26725
Backplot/Verify/ Simulation	C-axis Face Drill operations are not displayed as rotary moves.	D-33024
Backplot/Verify/ Simulation	Classic Backplot, Display with color codes not working.	D-33705
Backplot/Verify/ Simulation	Classic Backplot, Show Mill/Router position option not working.	D-33796
Backplot/Verify/ Simulation	Mastercam Simulator Lathe thread operation causes a crash when verified along with other operations.	D-33800
Backplot/Verify/ Simulation	Simulation, Lathe, C-axis Face Contour with Ramp is not complete	D-33825
Backplot/Verify/ Simulation	Mastercam Simulator C-Axis Face Contour operation chaining direction not followed.	D-33850
Backplot/Verify/ Simulation	Lathe C-axis Contour is incorrect.	D-34045
Backplot/Verify/ Simulation	Verify not displaying radius cut correctly.	D-34521
Backplot/Verify/ Simulation	The first position incorrect when Verifying Lathe Stock Advance.	D-34799
Configuration	Change Display surface/plane intersections default to off.	S-56728
Configuration	When System Configuration is migrated, third-party Editor path is not kept.	R-16159
Configuration	Moving `shared MCAM` folder is setting tokenized paths to APP_DIR_INSTALL.	R-16817
General	Add Windows operating system build information to system report for Zip2Go.	R-15528
General	Unicode produced file read errors using a Japanese operating system part.	R-15619

Category	Name	Number
General	Nesting Toolpath Result naming option allows user to specify underscore instead of hyphen.	R-15845
General	Referenced tool geometry files are causing performance issues.	R-16083
General	Mastercam for SOLIDWORKS, Mill2D, Mill3D, Lathe software license does not work.	R-16103
General	Model Chamfer in is not allowing multiple edge selection.	R-16352
General	ActiveReports, View preserve last file name when saving.	R-16667
General	Error after deleting operation.	D-33835
Geometry	Bounding Box creates a large boundary.	R-15291
Geometry	A cylindrical bounding box does not follow the geometry.	R-15515
Interface	SOLIDWORKS 2018 generates a crash dump on close, if any version of Mastercam is loaded.	R-15014
Interface	Selected plane changes after regeneration.	R-15726
Interface	Setup Sheet does not display operation comment.	R-16071
Lathe	Stock model is incorrect with Facing operations.	R-04316
Lathe	Drill tools are not reporting the correct insert material in setup sheet.	R-15132
Lathe	Groove toolpath is not respecting Ignore undercuts on all undercuts.	R-15974
Lathe	Face toolpaths spindle direction changes for second speed.	R-16279
Lathe	Reference point values from coordinates of a point are not applied.	R-16343
Lathe	Add ability for lathe to automatically retract to clear part after ID toolpaths.	R-16356
Lathe	The small icons display mode is calculating the incorrect width for full radius tools.	R-16564
Mill	Peel Mill Finish pass causes Mastercam to crash.	R-03717
Mill	High Speed Waterline is showing zero toolpath size when regenerating.	R-03756
Mill	Surface Finish Contour with a radius slot mill results in a bad toolpath.	R-04585
Mill	Dynamic Contour using Enter/exit at midpoint on closed contour and with a non-zero Helix height causes a gouge.	R-06148
Mill	Scallop toolpaths has small spikes that are not allowed on machine.	R-15429
Mill	Dynamic OptiRough with Drive set to All will add extra groups when selecting machining geometry.	R-15461
Mill	Contour tab cut off is using the wrong Compensation direction.	R-15658
Mill	Contour set to Remachining and using Reverse Wear is outputting incorrectly.	R-15961
Mill	Dynamic OptiRough is gouging on back feed moves.	R-16233
Mill	3D High Speed toolpath operation incorrectly marked dirty.	D-06476
Mill	Surface Finish Parallel toolpath parameters are not sticking.	D-07119
Mill	The left and right arrows in the Adjust start of contour in the Lead In/Out Page do not work if Adjust end of contour is selected, and Adjust start of contour is	D-07428

Category	Name	Number
	deselected.	
Mill	Contour with negative stock to leave on walls and floors, and Gouge check selected gouges.	D-07781
Mill	Dynamic Mill entry point was dropped.	D-08402
Mill	Pencil toolpath does not cut the fillet at the bottom of the vertical wall.	D-08607
Mill	Countour toolpath, Tab Cutoff operation outputting the incorrect plunge feedrate in NCI.	D-09594
Mill	Keep tool down is not being used in the high speed toolpath operation defaults.	D-09686
Mill	In Dynamic Mill toolpaths, micro lift feed rate not changed until regeneration.	D-09823
Mill	Area Roughing gouges using Create arcs in XY.	D-09968
Mill	When using a ramp lead out, it plunges down before retracting between cuts with incremental feed plane.	D-13485
Mill	Issue outputting a micro lift feed rate with Dynamic OptiRough.	D-13561
Mill	2D High Speed toolpath retracts are not outputting on regeneration of multiple operation.	D-13853
Mill	Contour with Remachining was not regenerating.	D-14006
Mill	Surface Finish Blend Toolpath has bad moves.	D-14322
Mill	Scallop reports that the tool holder gouges the part.	D-14368
Mill	Dynamic OptiRough causing issues with plunge feed rates.	D-14534
Mill	Surface Finish Contour cuts the inner side of the face when the fillet is included in the solid.	D-14796
Mill	Dynamic Mill is not respecting the avoidance regions.	D-14901
Mill	Horizontal Area is plunging through the surface it is cutting.	D-15054
Mill	Horizontal Area with geometry violations results in negative stock to leave.	D-15378
Mill	Dynamic Mill will not regenerate with micro lifts.	D-15393
Mill	Surface Finish Contour using a lollipop tool is leaving too much material.	D-15425
Tooling	Tool Manager is renumbering tools creating odd results.	R-11422
Toolpaths	Trim toolpath does not retract between operations selected to trim.	R-04170
Toolpaths	Changing miscellaneous values will inconsistently marks toolpaths dirty and changes posts.	R-04813
Toolpaths	Toolpath Transform operation was dirty on File, Open.	R-14986
Toolpaths	Sketch created in part is not chaining correctly in assembly.	R-15655
Toolpaths	Running Toolpath or Geometry nesting is resetting file paths.	R-15957
Toolpaths	When chaining, the start point is not always respecting the selected entity.	R-16543
Toolpaths	Cutter compensation not successful warning spawned in the attached file.	D-06837

Category	Name	Number
Toolpaths	Setting the lead out Ramp is altering the retract moves.	D-07328
Toolpaths	Copying the toolpath after itself and re-assigning a new boundary yields no creation of toolpath.	D-07685
Toolpaths	Toolpaths are ignoring the metric flag in inch configurations.	D-07738
Toolpaths	Feed rate override for Helix entry is not output.	D-14157
Toolpaths	User defined cutting parameters cannot be over ridden by the user.	D-14428
Toolpaths	Regeneration flattens or removes toolpaths.	D-15271
Toolpaths Manager	Add support for Selected only to Toolpath Manager, Reports, Operations list.	R-15067
Toolpaths Manager	Surface Finish Contour is hanging Mastercam when deselecting geometry through the geometry icon in the Toolpaths Manager.	R-15815
Toolpaths Manager	Only display associative geometry supports solid features.	R-16011
Toolpaths Manager	Posting an Nesting operation causes error and then crashes.	R-16248
Toolpaths Manager	When importing operations, the tool or the geometry branches do not display.	R-16782

CNC Software, Inc.
671 Old Post Road
Tolland, CT 06084

www.mastercam.com

Mastercam®