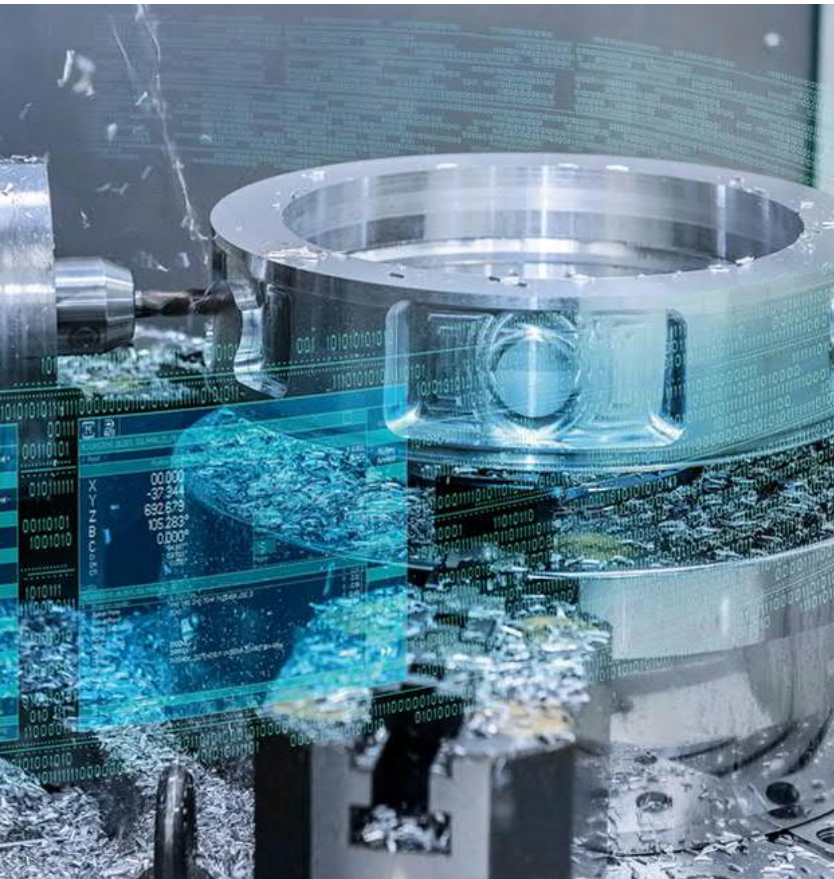


# NX Post Configurator

## 005 – Debugging I

# Content

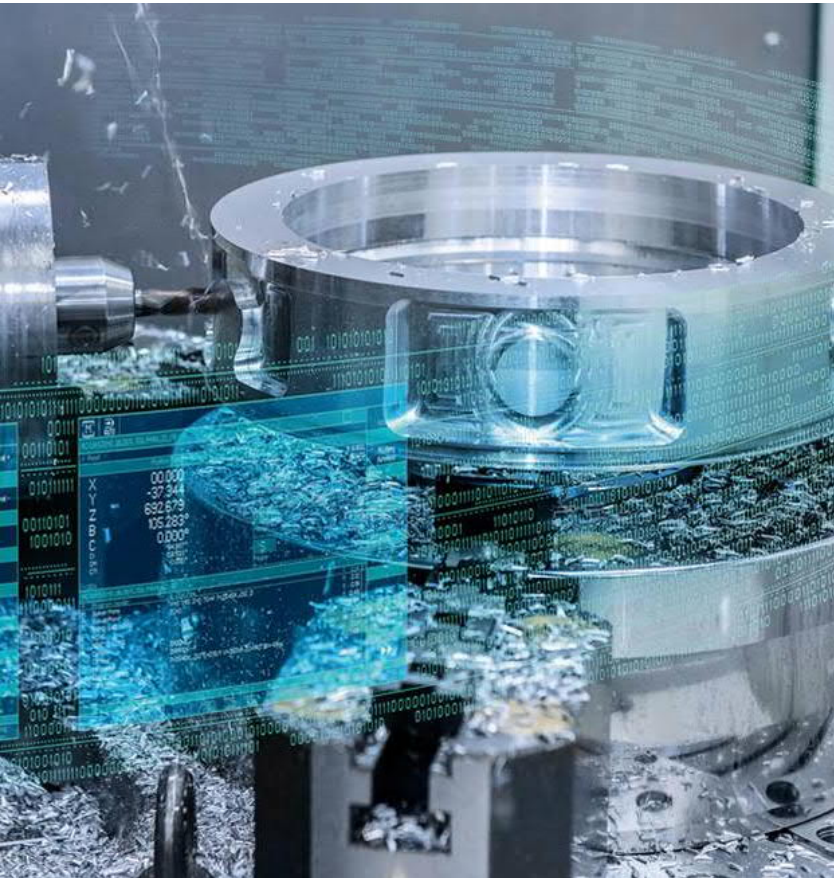
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- Introduction
- NX Review Tool
- Buffers
- Inspect Tool
- Other debugging settings



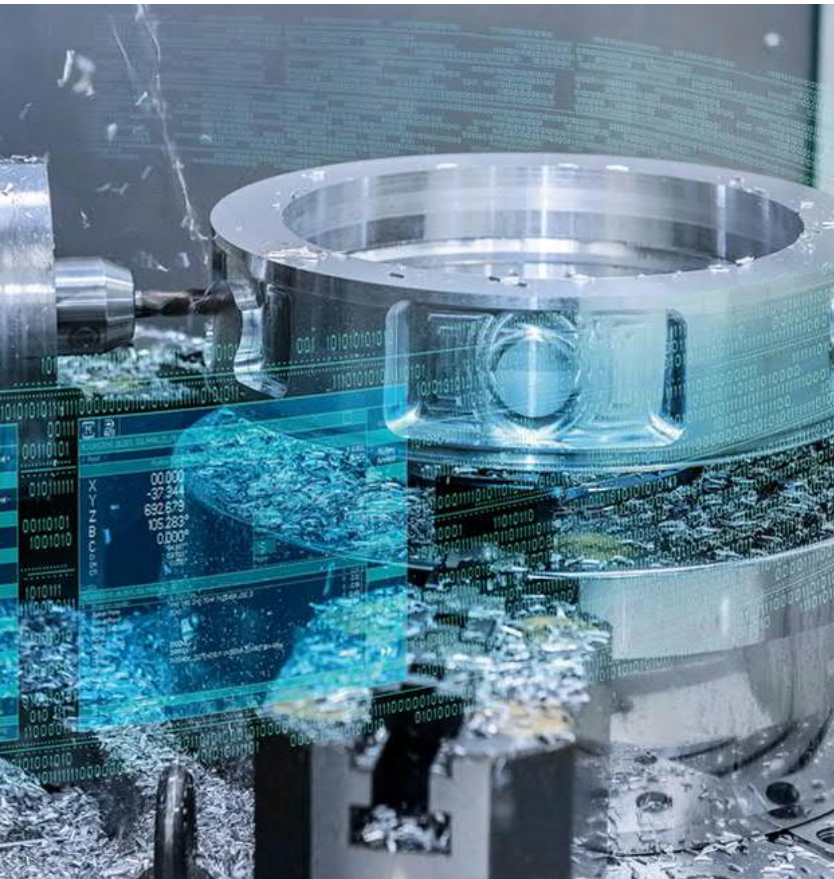
# Debugging the Post Processor



- Standard NX *Review Tool* still works
- Some review output will be suppressed if the Turbo Mode is On
- Overview of MOM Events and MOM Variables
- New debug functionality „*Show where output comes from*“ (UI)
- *Helps to identify what is creating certain output lines*

# Content

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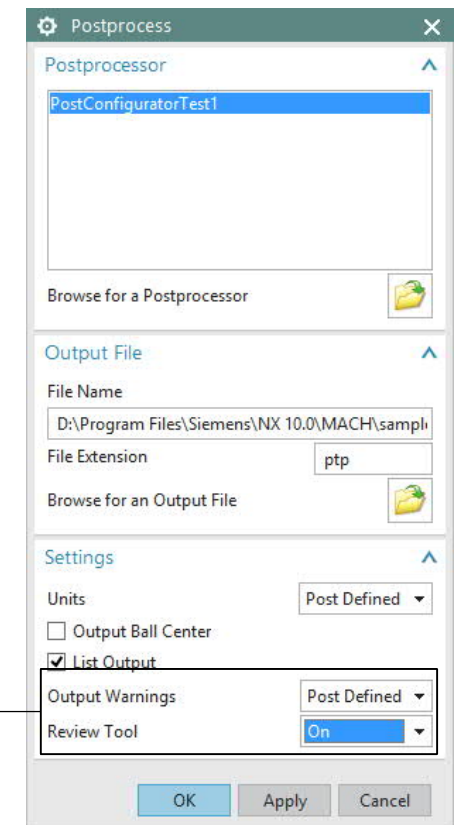
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## NX Review Tool – Turbo Mode ON



1. Turbo Mode is ON
2. Post Process the required Operation with Review Tool ON
3. Turn Turbo Mode OFF
4. Post Process the required Operation with Review Tool ON

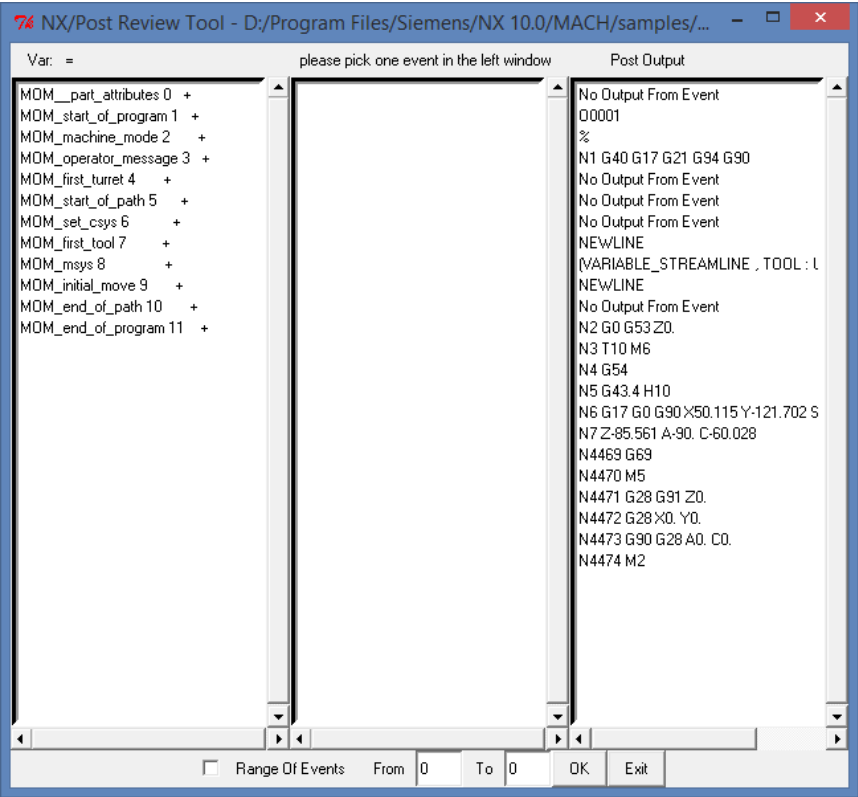
**Note:** Using the review tool will dramatically increase the post processing time.



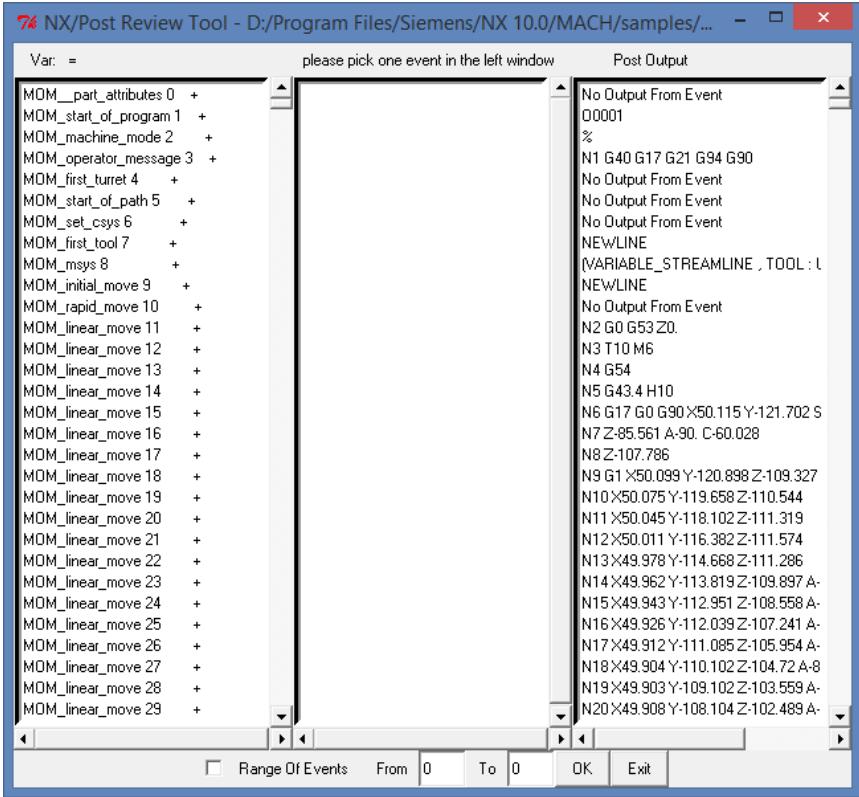
# Using Review Tool



## Turbo Mode ON



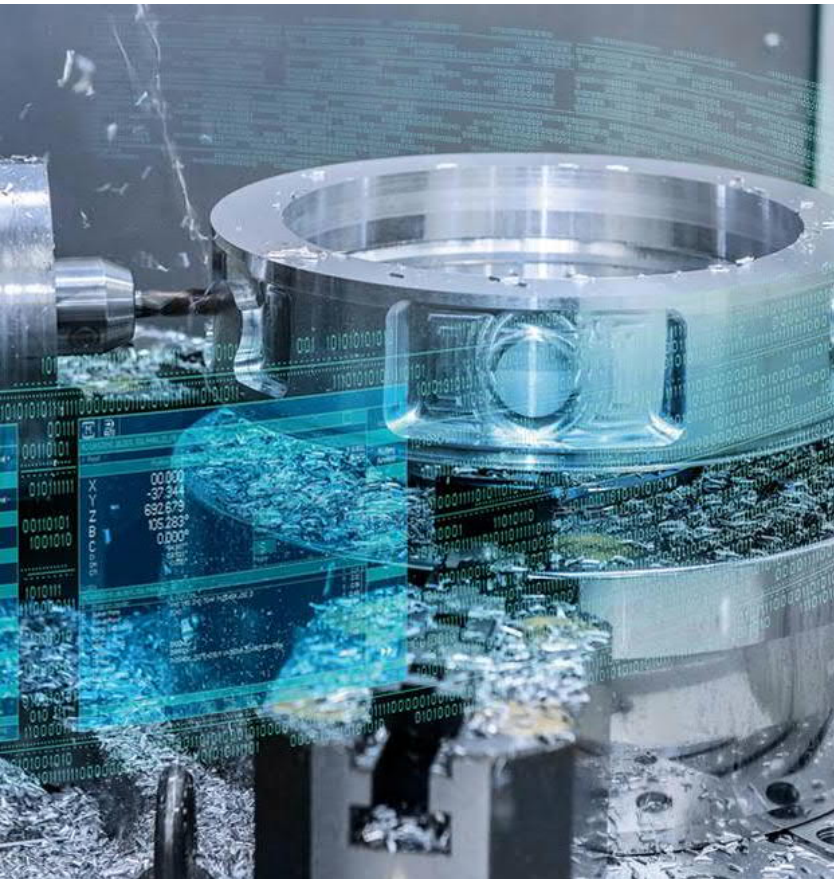
## Turbo Mode OFF





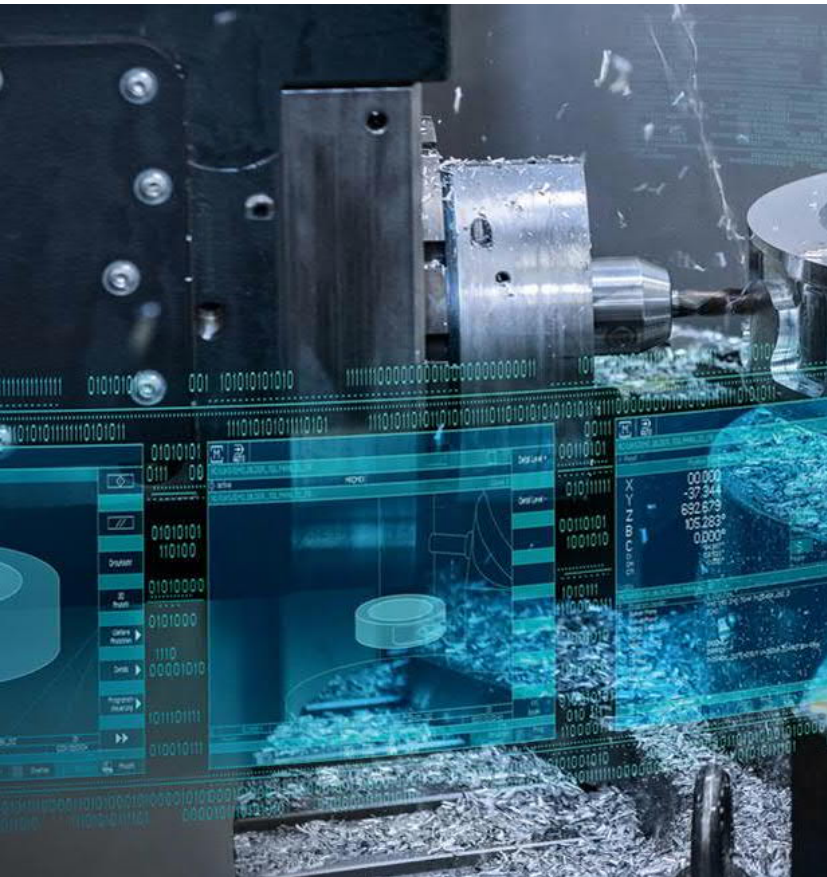
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- Inspect Tool
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# Buffer Handling



New functionality for Post Configurator posts to list

- Which MOM Event generated this line
- Which Library function generated that line
- Buffer and Sequence Information of the Line



## Using the sequences (Postlibraries <4.2.2)

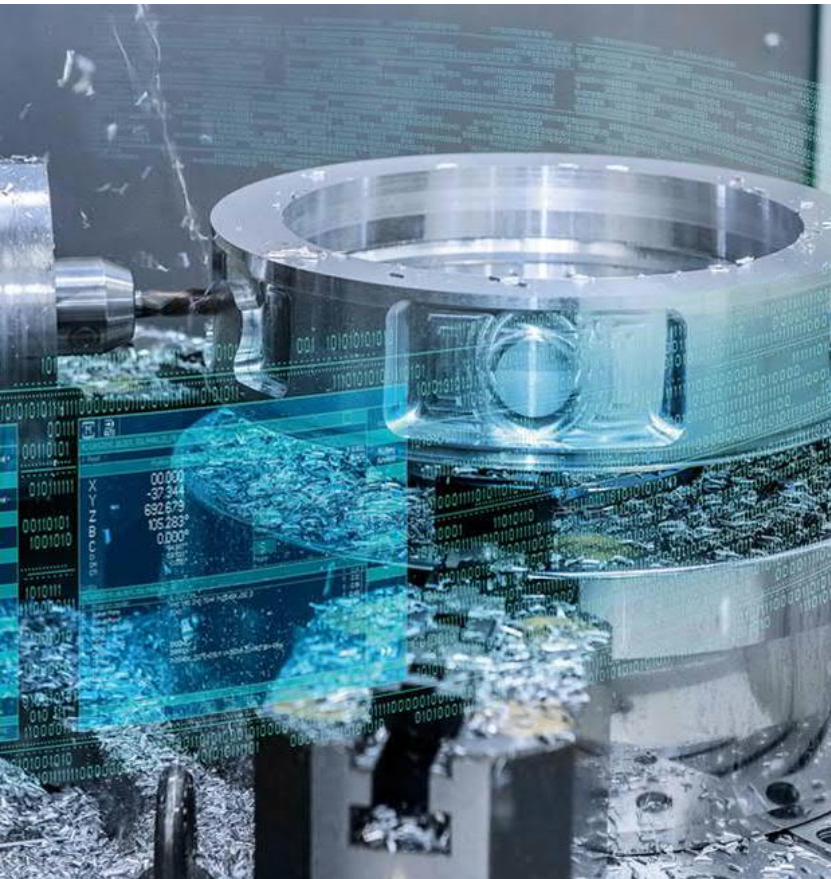


### What is the OutputBuffer:

- Within a buffer sequence tags are assigned to NC-lines
- Output can be reordered within the same buffer
- Additional output can be added to the buffer sequence
- Output can be suppressed from buffer sequence
- A template of the command to manipulate the buffer will be displayed if „Show where output comes from“ is activated
- LIB\_GE\_command\_buffer\_seq LIB\_SPF\_operation\_header\_comment HEADER\_COMMENT {@NEWLINE1 @INFOLINE @NEWLINE2}

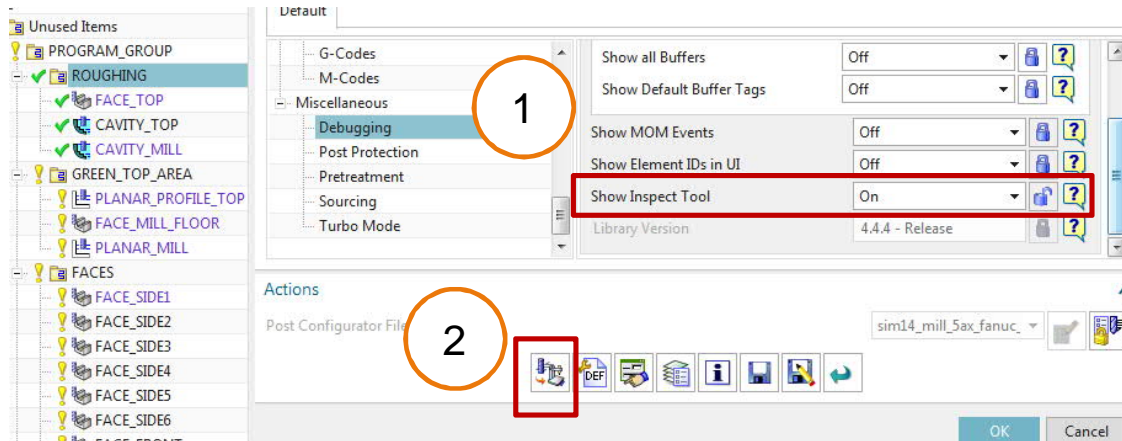
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# Working with the Inspect Tool – NC Output View

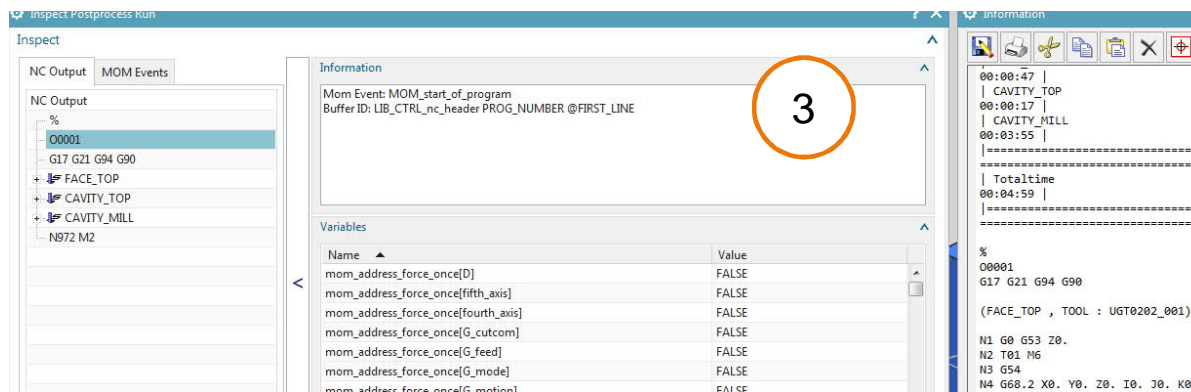


1. Activate Inspect Tool and select operation
2. Press Postprocess button
3. Inspect Tool is now visible. NC output will be done normally in the listing window.

## Additional background:

List contains all NC code items

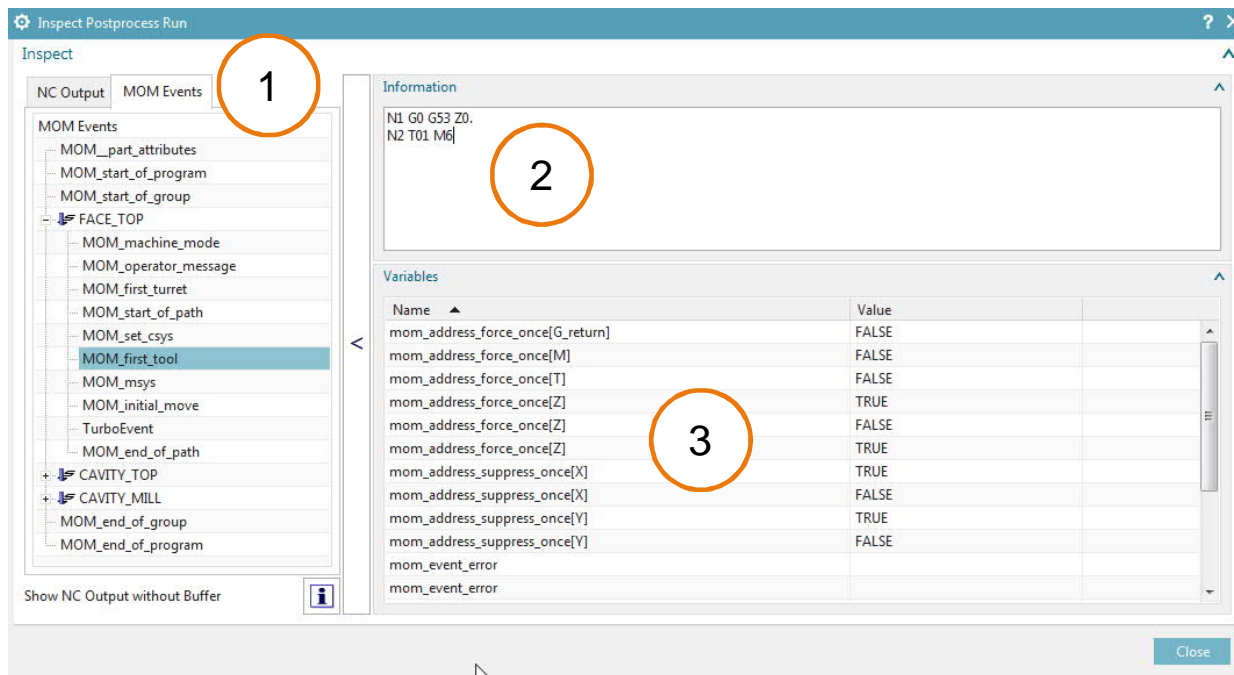
Selecting an item will bring more information like mom-variables from the event and information about the buffer





# Working with the Inspect Tool – MOM Events View

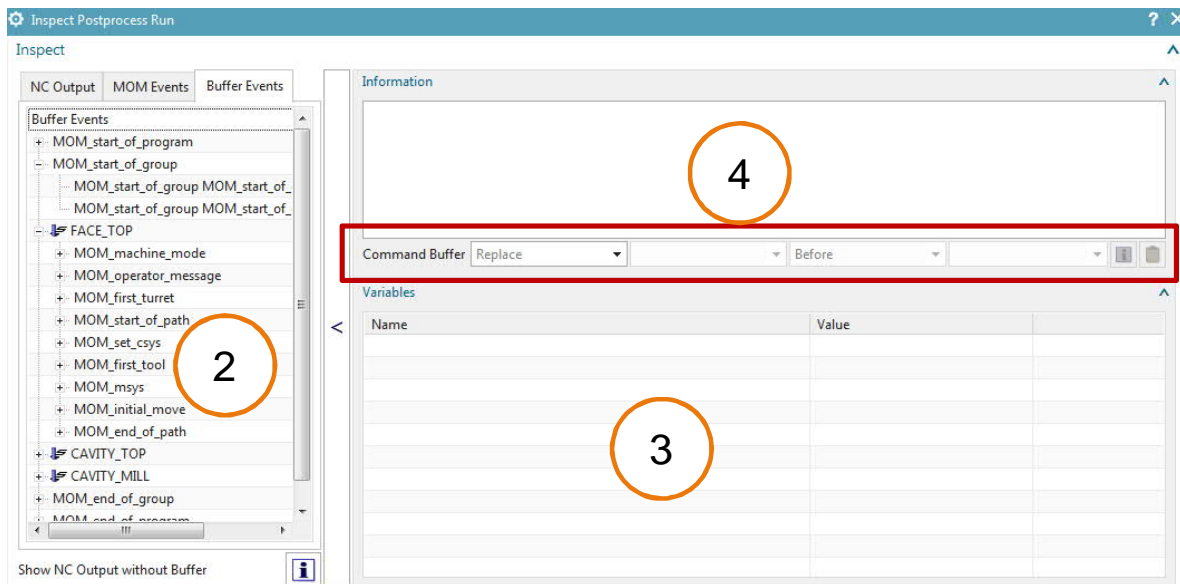
1. MOM events view is a visualization of the post structure
2. Selecting a MOM event will show the NC code which was generated in the Information
3. Similar to NC Output view all mom-variables will be shown which are used/available in the MOM event



# Working with the Inspect Tool – Buffer View (ENV)

1

set UGII\_CAM\_POST\_CONFIGURATOR\_INSPECT\_TOOL\_PREVIEW=1

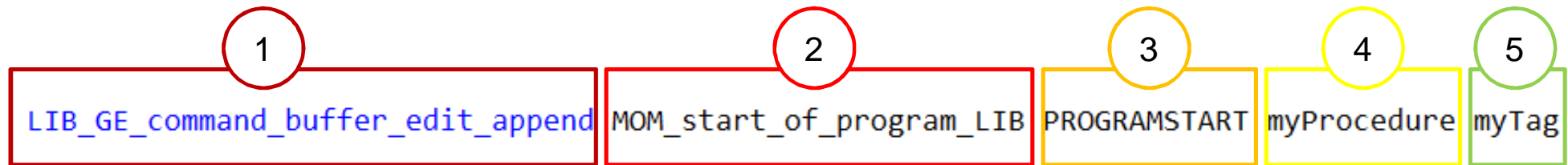


1. To use the new Buffer view use environment variable to activate
2. Buffer view contains all buffers which are called in MOM events
3. Similar to NC Output view all mom-variables will be shown which are used/available in the Buffer event
4. Snippet code functionality

## Customer Benefits:

- **Modify easily buffers**
- **Visualization of commands in Post Configurator**

## How to read a buffer command



- 1 ➤ Post Configurator library buffer command name for append, prepend, insert, move, replace
- 2 ➤ Procedure name where the Buffer is created and the code executed
- 3 ➤ Buffer name, must be unique in calling procedure, created by post developer or from standard libraries
- 4 ➤ The name of the procedure which is created by the user and executed in this buffer
- 5 ➤ Unique Tag (string) to identify, e.g. this can be used to reorder the output of a buffer



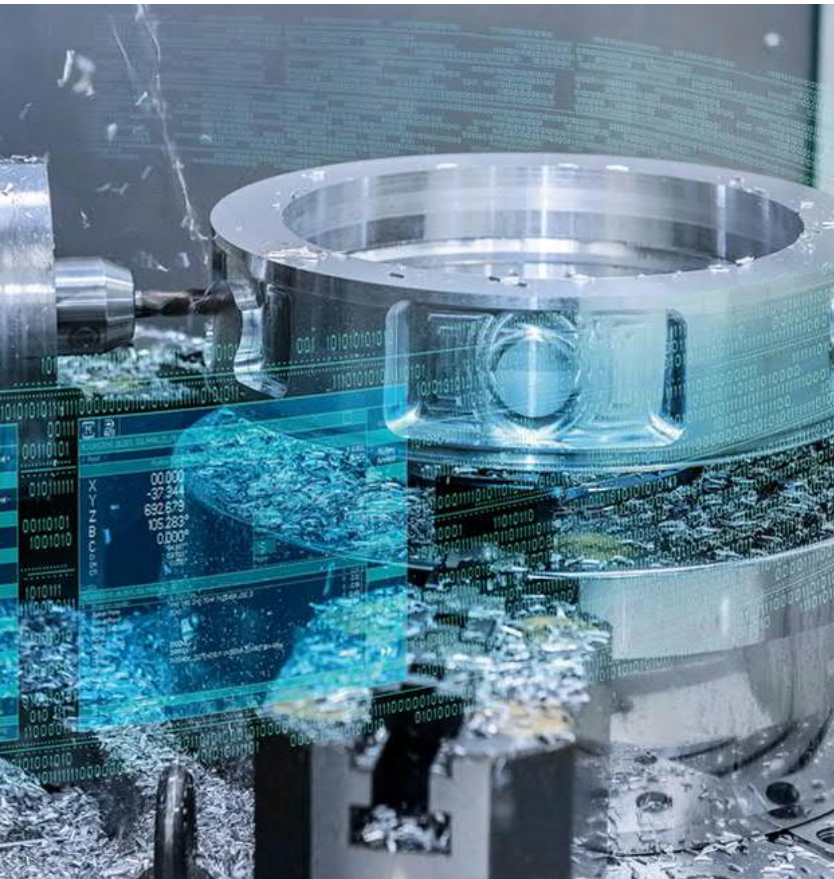
## Using new Buffer commands introduced with v4.2.2



- With v4.2.2 new Buffer commands are available
- LIB\_GE\_command\_buffer\_seq is still available
- We recommend to use the new commands to get more flexibility
  - LIB\_GE\_command\_buffer\_edit\_append
  - LIB\_GE\_command\_buffer\_edit\_insert
  - LIB\_GE\_command\_buffer\_edit\_move
  - LIB\_GE\_command\_buffer\_edit\_prepend
  - LIB\_GE\_command\_buffer\_edit\_remove
  - LIB\_GE\_command\_buffer\_edit\_replace

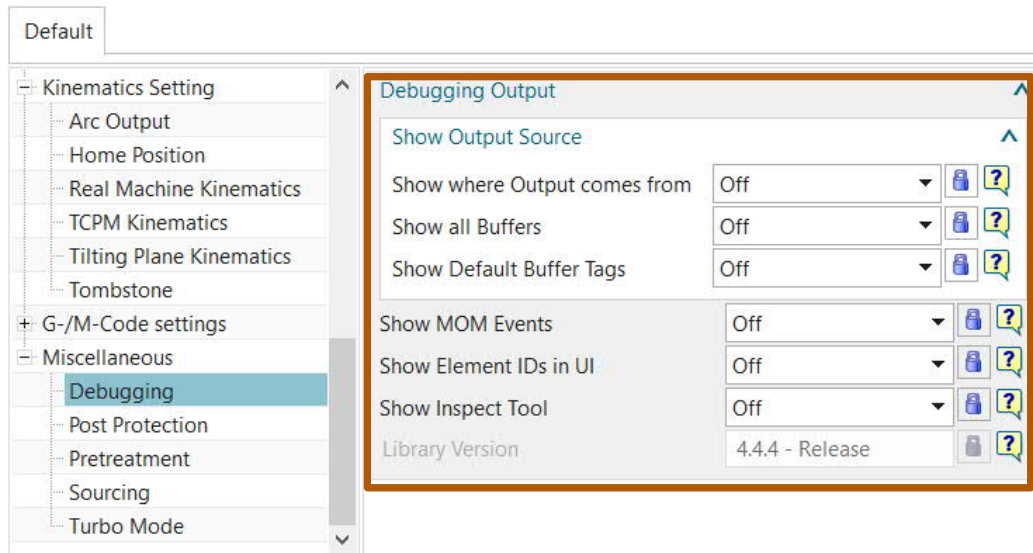
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# Important Debugging settings



## Show Inspect Tool

- Open the Inspect Tool during a post process run
- **When using Inspect Tool Show Output Source is obsolete**

## Show where Output comes from:

- Adds debugging information to the information window
- Shows which Tcl commands generated NC code lines
- Is needed to use Entry points and change buffers

## Show all Buffers

- Show also empty buffers which are not called

## Show Default Buffer Tags

- if a buffer is changed in different buffers this will show up all changes

## Show MOM Events

- List called MOM events

## Show Element Ids in UI:

- Activates debugging information for elements in the UI
- With this information new property can create in the UI



## Q&A

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