EUREKA 10.1 – NEWS

Ultima revisione: 2021/05/03

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SIMULATION SNAPSHOT

A simulation snapshot is the state of a simulation session that is copied and stored at a specific time.

This file, allows to restore the machine state and the stock shape to a former state of snapshot creation.

- «*Create simulation snapshot*» icon to save the restore file.

- «*Restore simulation snapshot*» icon to restore the simulation.
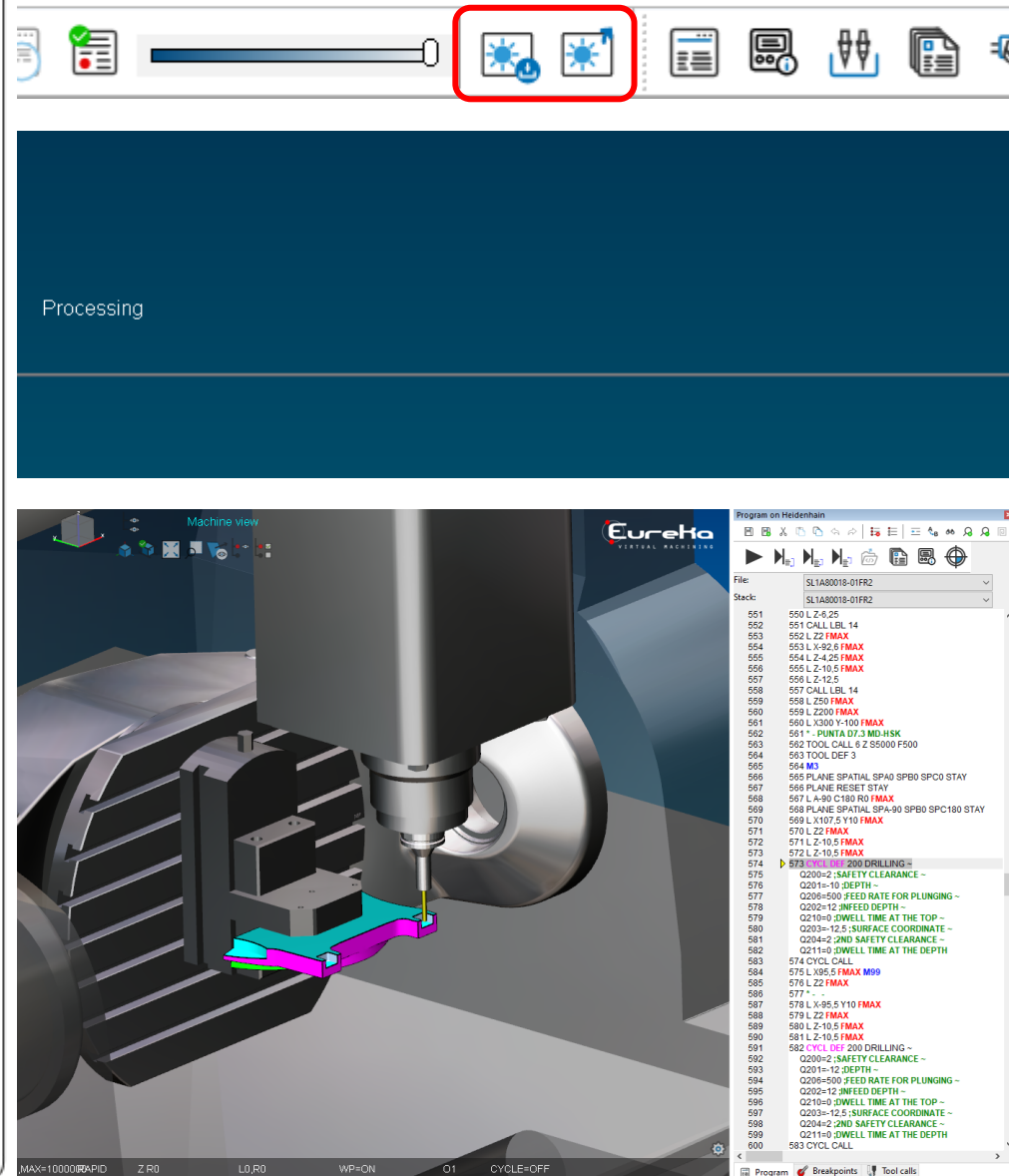
TOOL CALLS

Eureka stores information for each tool call that occurred during a simulation session.

For each item in the list, Eureka shows the tool shape, the tool code, the trace color, the description and/or comment, the total time and the percentage of its use versus the overall machining time.

- Right click on an item and «*Restart from here*» or «*Restart from here (update stock)*»

Program on Heidenhain

	Tool code:	■ 2	
	Comment:	20MD-HSK	
	Total time	0:01:16	8.7
	Tool code:	■ 3	
	Comment:	20MD-HSK	
	Total time	0:01:23	9.4
	Tool code:	■ 2	
	Comment:	20MD-HSK	
	Total time	0:01:10	7.9
	Tool code:	■ 4	Restart from here
	Comment:		Restart from here (update stock)
	Total time		
	Tool code:	■ 5	
	Comment:	5MD-HSK	
	Total time	0:01:00	6.9
	Tool code:	□ 6	
	Comment:	P7.3MD-HSK	
	Total time	0:0:36.59	4.1
	Tool code:	■ 3	
	Comment:	20MD-HSK	
	Total time	0:0:42.49	4.8
	Tool code:	■ 2	
	Comment:	20MD-HSK	
	Total time	0:0:52.21	5.9

Program | Breakpoints | Tool calls

STOCK WINDOW

The stock window is a popup window where a stock part is tracked and shown with a *hi-fidelity graphical representation*.

It will include automatically the tools, the design models and fixture shapes rigidly connected to the stock itself.

Stock window
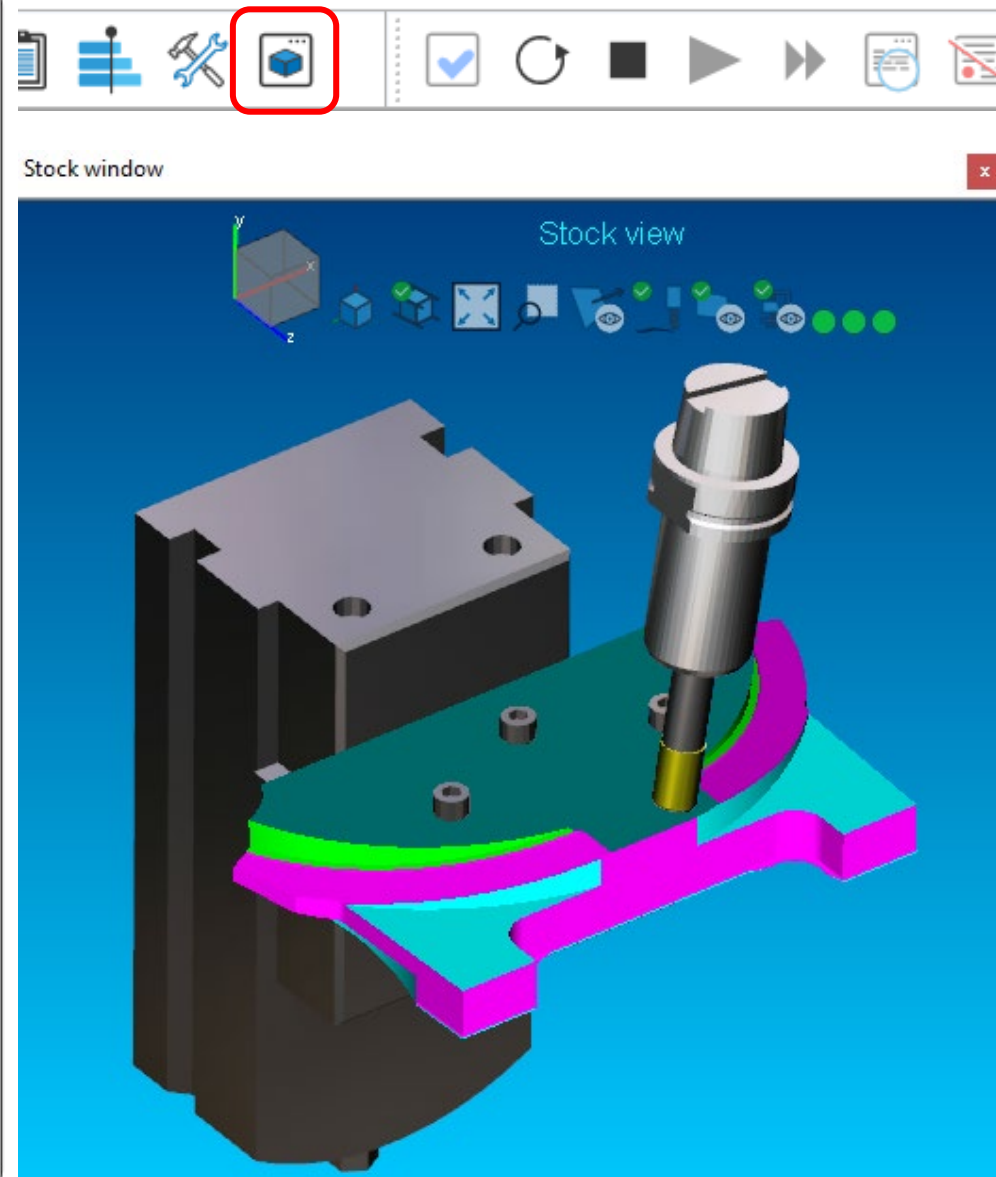
NEW MEASUREMENT TOOLS

The measurement tools have been extended

to the stock view and a new «Circle center»

feature filter is now available for measuring

cylinder or corner radius and axis.

- Move the cursor on the cylinder surface to

  see the vaule.

Measuring tools

Measure type | Feature filter

Coordinate system: 5axis_2table

Stock window

Stock view

R 15.001
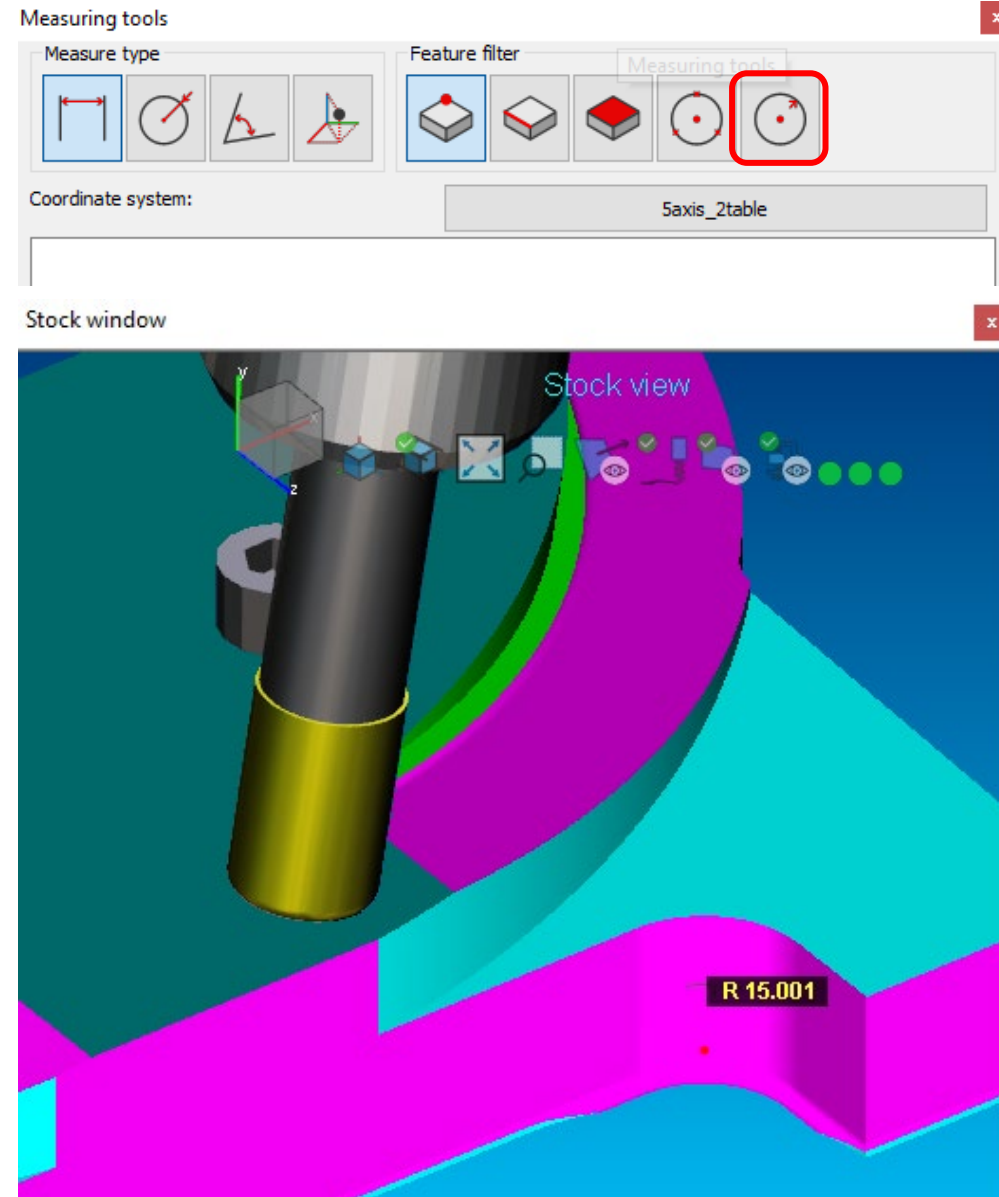
QUICK CHECK

The quick check command executes a fast verification of the program with the aim to find out syntax errors, missing subprograms, errors on cutting conditions and other basic error types.

- Stop the simulation and click on the «*Quick check*» icon.

Quick check

Messages

	When	From	Where	Code	Message
ℹ	Tuesday, May ...			0	Starting simulation...
ℹ	Tuesday, May ...			0	Quick check completed0 Errors0 Warnings
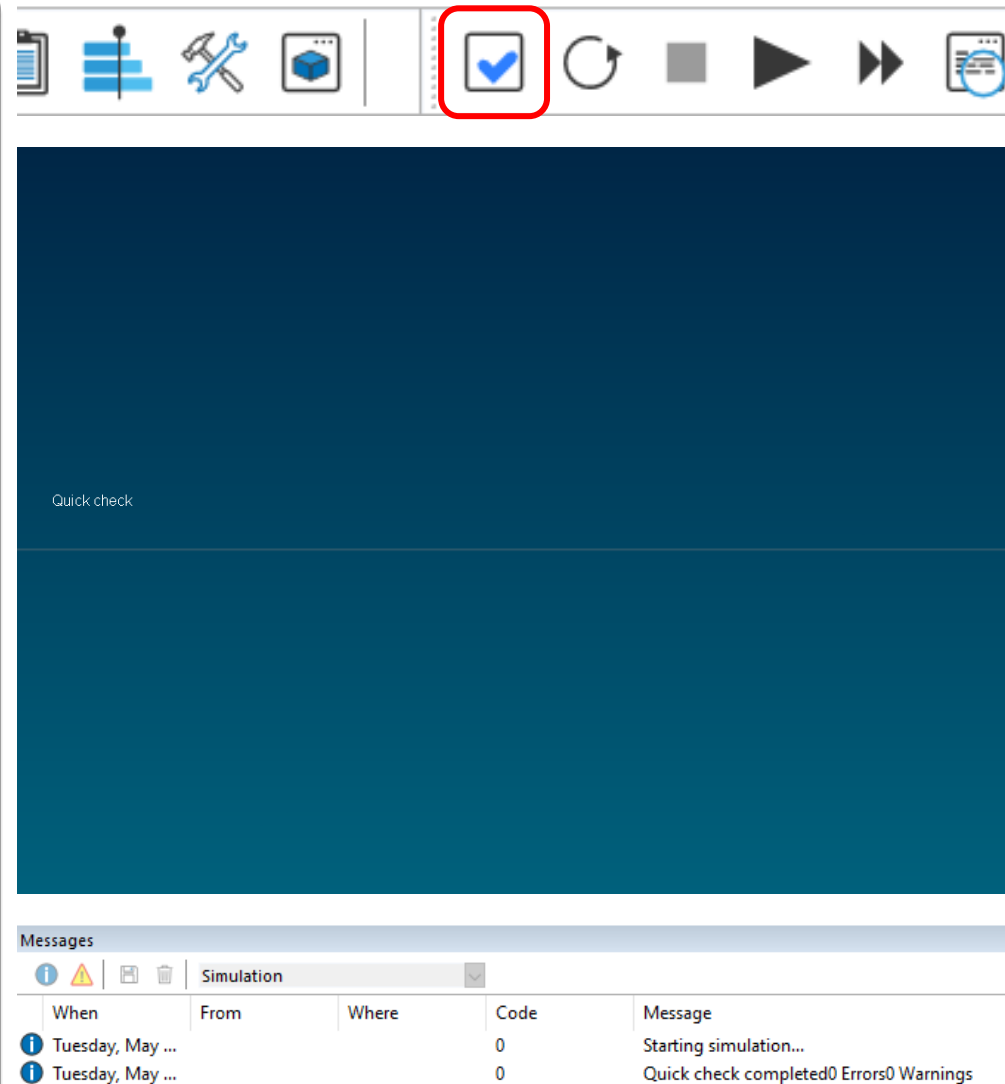
Simulation

PRE-ANALYSIS

Eureka execute a preliminary quick check and analyzes the code in order to collect information that can be used in the simulation for purposes like the execution time estimation.

- Stop the simulation and click on «*Pre-Analysis*» icon.

The messages resulting from the pre-analysis are listed in the separated message list which is accessible in the message window, switching the message filter from «*Simulation*» to «*Pre-analysis*».
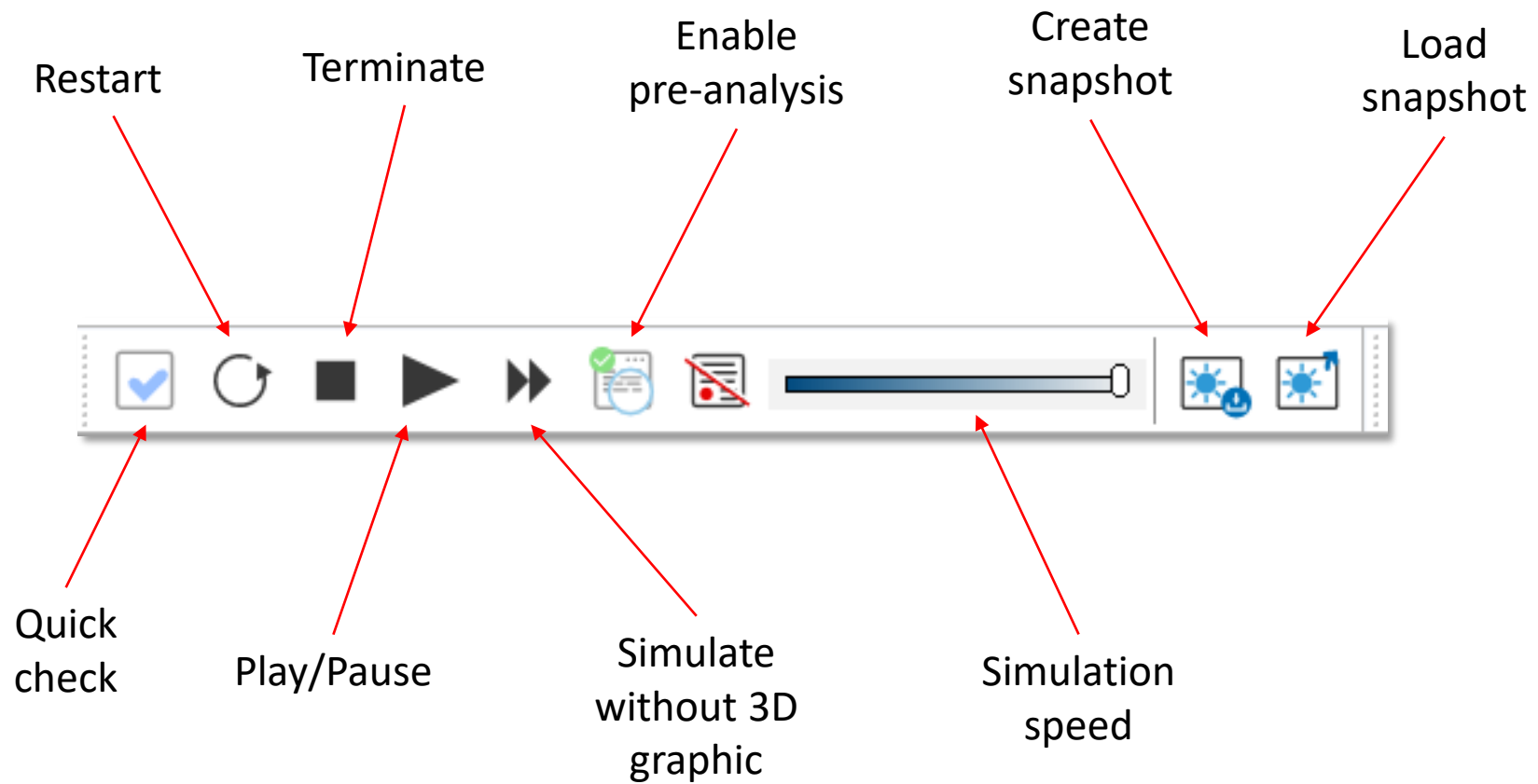

Pre-analysis

Messages				
When	From	Where	Code	Message
Tuesday, May 04, 2021 - 20:57:32			0	Starting simulation...
Tuesday, May 04, 2021 - 20:57:33	Heiden...	[SL1A800...	10	Subprogram M17 not found
Tuesday, May 04, 2021 - 20:57:33	Heiden...	[SL1A800...	10	Subprogram M18 not found
Tuesday, May 04, 2021 - 20:57:33	Heiden...	[SL1A8C...	10	Subprogram M62 not found

Add missing subprogram...

NEW SIMULATION TOOLBAR

Restart

Terminate

Enable pre-analysis

Create snapshot

Load snapshot

Quick check

Play/Pause

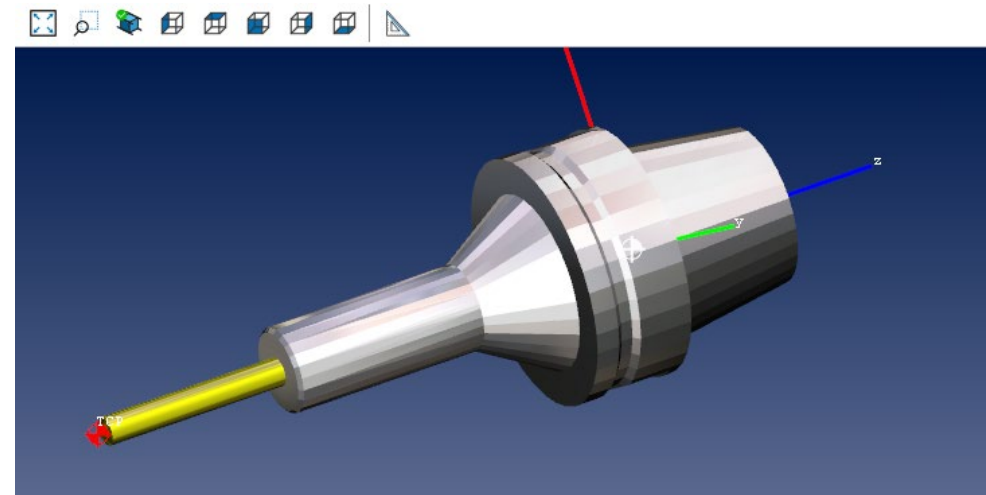Simulate without 3D graphic

Simulation speed

SANDVIK COROPLUS TOOL LIBRARY

A specific tool importer is now available for the CoroPlus Tool Library (previously called Adveon) through the GTC format.

- Export the GTC package from **CoroPlus** as a «.zip» file.

- Import the «.zip» file, using the command button ⊕

- Select the tools to import.

Code	Type	LZ	LX	LY	D	Description	Unit	Color
1	Mill	118	0	0	62.99		mm	
10	Mill	129	0	0	6		mm	
12	Drill	138	0	0	4.3		mm	
13	Mill	108	0	0	2		mm	
2	Mill	175	0	0	20		mm	
3	Mill	170	0	0	20		mm	
4	Mill	140	0	0	12		mm	
5	Mill	118	0	0	5		mm	
6	Drill	148	0	0	7.3		mm	
7	Mill	145	0	0	16		mm	
8	Drill	138	0	0	5.5		mm	
9	Drill	138	0	0	6.8		mm	

AUTOMATIC SHAPE PLACEMENT RECOVERY

Configuring a machine with part transfer is no more a complicated task.

Eureka stores the shape placement before starting the simulation and automatically restores it at every simulation restart.

The shape placement is written in the machine project and is modified each time the shape position is either changed by the user or by the APIs.

INTERFACES WITH CAM AND TOOL MANAGEMENT SYSTEM

Interfaces developed and supported directly by Roboris:

- EDGECAM 2021.1
- FEATURECAM 2021
- POWERMILL 2021
- FUSION 360 2.0.9719 , 2021
- HSM WORKS 2.0.9719 , 2021
- HYPERMILL 2021 SP1
- ESPRIT 2020
- ESPRIT TNG 20.406.2.19291 2021
- TDM Global Line 2020
- WINTOOL 2019.1
- ZOLLER 2020

Other interfaces developed by third party:

- ALPHACAM
- CAMWORKS
- TOPSOLID
- SOLIDCAM
- CATIA V5
- GO2CAM
- SIEMENS NX 10 and NX 1863
- SPERONI
- MASTERCAM
- COSCOM
- ZW3D
- VISI
- GIBBSCAM
- CIMATRON
- RTM

NEW CONTROLLERS

BWO controller.