CoroPlus[®] Machining Foresight

- Enable fact-based decisions
- Track and control cost
- Automate process and quality traceability
- Gain overview of resources

Connecting the workshop



CoroPlus® Machining Foresight generates real-time and historic process reports based on data from machine tools and cutting tools , providing analysis throughout the whole manufacturing value chain:

- Design and planning
- Preparation
- Machining
- Verification

CoroPlus Insights Tool breakage detail NC program details	
2020-11-24 17:39:46.367 564 G53 0 si 2020-11-24 17:39:45.863 558 N558 G00 2020-11-24 17:39:45.863 558 N558 G00	SBOCK SGS YO MS #1105=0(LASER AUSSCHALTEN,SCHMUTZBLENDEN SCHLISSEN) Hig100AEC01GOTO24 #3=#3+1(0k) Fig3LE#13(GOTO22 If#1E0E03GOTO30) GGS3Y#15 N20GS32[#14+#27] G4P250 #3=0 Fig4BEQ3[GOTO30 N2C353 G4 G4 G4 G4 G1603C030] GGS3Y#15 N20GS32[#14+#27] G4P250 #3=0 Fig4BEQ3[GOTO30] M102G GGS3Y#15 N20GS32[#14+#27] G4P250 GGS3Y#15 N20GS32[#10_0_7] M102G GGS3Y#15 N20G GG3Y#15 N20G GG3Y#15 N20GS32[#10_0_7] M102G GGS3Y#15 N20G GG3Y#15 N20GS32[#10_0_0_0_0_0_0_0_0_0_0_0_0_0_0_0_0_0_0_
5 0 17:39:15 17:39:30	Axis Z servo load



Selected features

	Tool breakage cycle	e information			Number of tool breakages av
Alla				_productName	_machine
		2020-11-26 12:44:15.840	315 00636310	TM870.1-668971	Stama:734:11_2 26,32%
Alla 🗸 🗸		2020-11-25 08:05:36.370	315 00553681	870-3000-30L32-5	
	Stama:734:11_2_2	2020-11-24 22:53:22.720	315 00558018	870-1500-15L20-3	(19)
Alla	Stama:734:11_2_2	2020-11-24 17:39:54.223	315 00558018	870-1500-15L20-3	
Date	Stama:734:11_2_2	2020-11-23 20:40:28.007	315 00534247	870-1000-6L16-5	
2020-11-01 2020-12-31	Stama:734:11_2_2	2020-11-23 06:42:01.427	315 00534247	870-1000-6L16-5	Stama:734:11_2_2
	Stama:734:11_2_2	2020-11-20 15:32:57.170	651 00593874	870-1050-7LX063	73,68%
	Stama:734:11_2_1	2020-11-19 22:33:14.720	1525 00589949	DS20-D3100L40-05	
Reset filters	Stama:734:11_2_1	2020-11-19 16:24:11.133	1525 00573859	DS20-D3200L40-04	Number of tool breakages av _machine
	Stama:734:11_2_1	2020-11-19 13:59:13.670	1525 00573859	DS20+D3200L40+04	
	Stama:734:11_2_2	2020-11-19 09:07:48.063	315 00589935	870-1500-15L20-5	Stama:734:11_2_2
					Stama:734:11_2_1 5
	Number of tool bre	akages av Date			Number of tool breakages av _tool
					315 1525 3
		·····			1513 📃 1
		_ 1111_ 11			210 1

Tool breakage

Review when and where individual tool breakages occurred. BANDVIK

	In cycle %						Components Manufacturing Customer
All	19%			85%			Stockholm-18 Factory
Machine	$\overline{}$		• In	cycle [%] ●ldle [%]			Stamac734:11_2_1 Machine Milling [T]
							Machine operation
12/1/2020 12/31/2	Detailed cycle info					Cycle time [min]	2020-12-01 00:00:00
	Stama:734:11_2_2	N/A	N/A	2020-12-18 08:22:21.547	2020-12-18 08:22:58.697	0.6	Date from 2020-12-31 23:59:59
Reset filters	Stama:734:11_2_2	00638212	870-2300-23L	2020-12-18 08:16:07.030	2020-12-18 08:22:18:537	6.2	Date to
	Stama:734:11_2_1	N/A	N/A	2020-12-18 08:17:48.407	2020-12-18 08:18:29.357	0.7	
	Stama:734:11_2_1	00633835	DS20-D3300L	2020-12-18 07:47:51.130	2020-12-18 08:17:45.970	29.9	14.66%
	Stama:734:11_2_2	N/A	N/A	2020-12-18 08:15:27.870	2020-12-18 08:16:05.020	0.6	In cycle [%] 13.086.2
	Stama:734:11_2_2	N/A	N/A	2020-12-18 08:08:34.687	2020-12-18 08:09:11.840	0.6	In cycle [min]
	Stama:734:11_2_2	00638212	870-2300-23L	2020-12-18 08:02:22.173	2020-12-18 08:08:32.177	6.2	2,710 Number of cycles
	Stama:734:11_2_2	N/A	N/A	2020-12-18 08:01:43.010	2020-12-18 08:02:19.663	0.6	1.015
	Stama:734:11_2_2	00638212	870-2300-23L	2020-12-18 07:55:29.997	2020-12-18 08:01:39.997	6.2	Number of parts
							28 Number of alarms
	List of alarms						
	Stama:734:11_2_2		2020-12-18 05:40	49.207 PROBE*FAIL			
	Stama:734:11_2_2		2020-12-10 18:56	39.857 PROBE*FAIL			
	Stama:734:11_2_2		2020-12-10 16:42	58.787 PROBE*FAIL			

Machine utilization

View details of overall equipment effectiveness.



Cycle time analytics

Compare cycle times when producing a component. Drill down for information on what machine, tool and methods where used.

Key application areas

Traceability

- Trace how components are made
- Access technical details and method data to help fine tune the machining method

Quality and waste

- Trace machining operations and the manufactured parts, as well as the tool and the material used
- Predictively adjust or change a tool based on historical breakage data and usage in different machines and operations to identify anomalies early

Tool usage and prediction

- Study tool breakage details
- Predict estimated remaining tool life
- Plan inventory and understand tool pattern

Utilization

- Gain understanding of the overall equipment effectiveness
- Identify the gaps that cause low utilization figures
- Analyze cycle time on each work order to optimize the machining operations



Annual subscription

CoroPlus® Machining Foresight is billed yearly. Subscribers get access to full software training and support.



Will you benefit from CoroPlus® Machining Foresight?

Tool breakages that cause production halts is a recurring problem.

Cutting tool frozen capital is high, or it is challenging to get an accurate overview of tool usage.

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Comparing batch history or tracking production quality is an overwhelming task

Contact your Sandvik Coromant sales representative today.

Or find out more about CoroPlus® on sandvik.coromant.com/digitalmachining

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