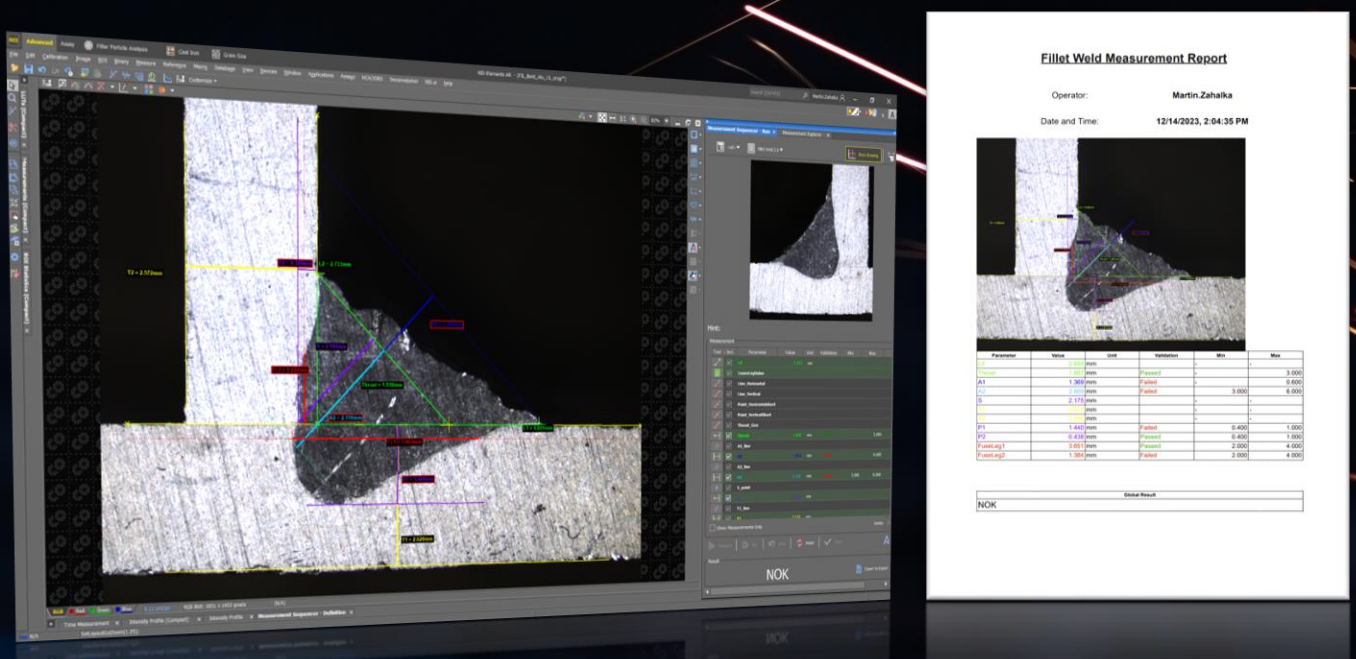
Measurement Sequencer



Discover more about the complete solution for weld measurement

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➢ Automated measurement definitions

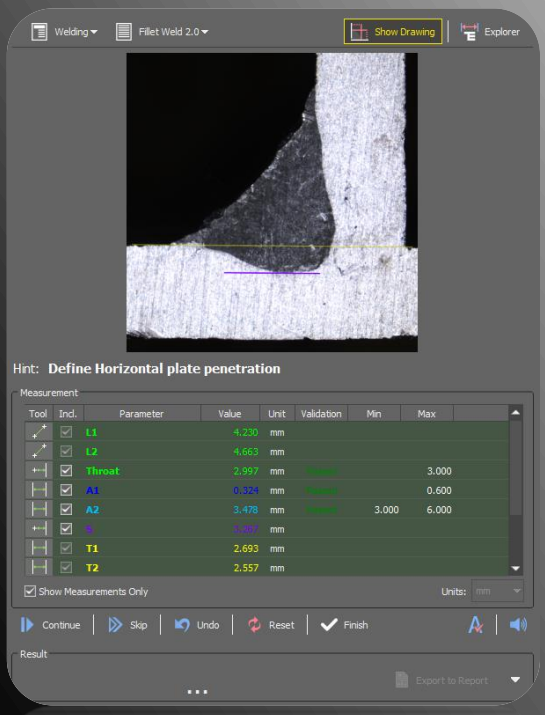
E.g. predefined ISO 5187 Fillet & Butt welds and custom-defined recipes

➢ Guided measurement perfect for mitigating user errors

No more forgotten steps and missing measurements in your reports

➢ Guiding Scheme for measurement drawings

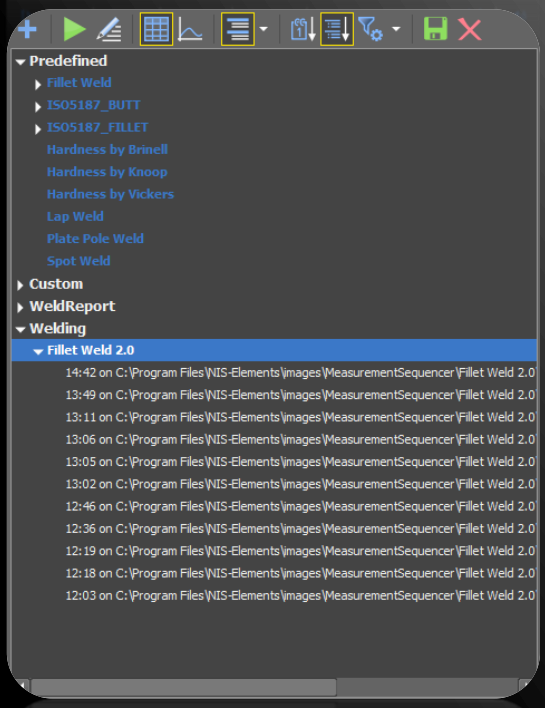
- Follow guidelines shown on scheme and tips for convenient, easy and flawless measurements
- Aim and click to place measurements
- Mitigate forgotten steps during long procedures
- Text to speech guide



➢ Predefined measurement definitions including:

- ISO 5187 Butt weld
- ISO 5187 Fillet weld
- Hardness by Brinell
- Hardness by Knoop
- Hardness by Vickers
- Plate Pole Weld
- Spot Weld
- Lap Weld
- Fillet Weld

- User-defined measurement definitions



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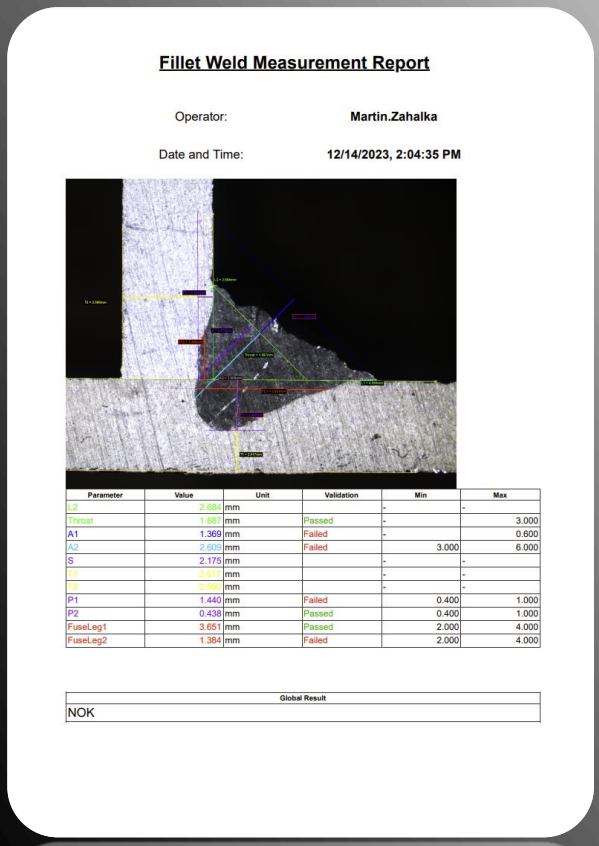
➢ Report

- Complete report including image with geometrical drawings
- Measurement table with limits and validations
- Global Result indication
- Export into PDF, RTF or MS Excel templates
- Image export in TIF,JP2, BMP, JPG
- Define custom report for your definitions



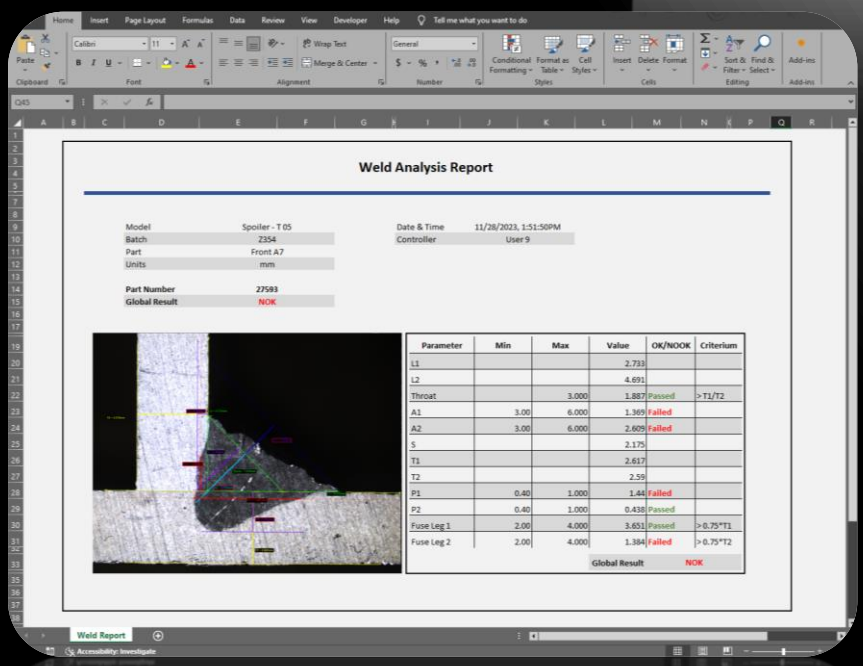
Fillet Weld Measurement Report

Operator: **Martin.Zahalka**

Date and Time: **12/14/2023, 2:04:35 PM**

Parameter	Value	Unit	Validation	Min	Max
L2	2.684	mm		-	-
Throat	1.887	mm	Passed	-	3.000
A1	1.369	mm	Failed	-	0.600
A2	2.609	mm	Failed	3.000	6.000
S	2.175	mm		-	-
T1	2.617	mm		-	-
T2	2.590	mm		-	-
P1	1.440	mm	Failed	0.400	1.000
P2	0.438	mm	Passed	0.400	1.000
FuseLeg1	3.651	mm	Passed	2.000	4.000
FuseLeg2	1.384	mm	Failed	2.000	4.000

Global Result
NOK



Weld Analysis Report

Model	Spoiler - T 05	Date & Time	11/28/2023, 1:51:50PM
Batch	2354	Controller	User 9
Part	Front A7		
Units	mm		
Part Number	27593		
Global Result	NOK		

Parameter	Min	Max	Value	OK/NOK	Criterium
L1			2.733		
L2			4.691		
Throat		3.000	1.887	Passed	>T1/T2
A1	3.00	6.000	1.369	Failed	
A2	3.00	6.000	2.609	Failed	
S			2.175		
T1			2.617		
T2			2.59		
P1	0.40	1.000	1.44	Failed	
P2	0.40	1.000	0.438	Passed	
Fuse Leg 1	2.00	4.000	3.651	Passed	>0.75*T1
Fuse Leg 2	2.00	4.000	1.384	Failed	>0.75*T2
			Global Result	NOK	

Weld Report

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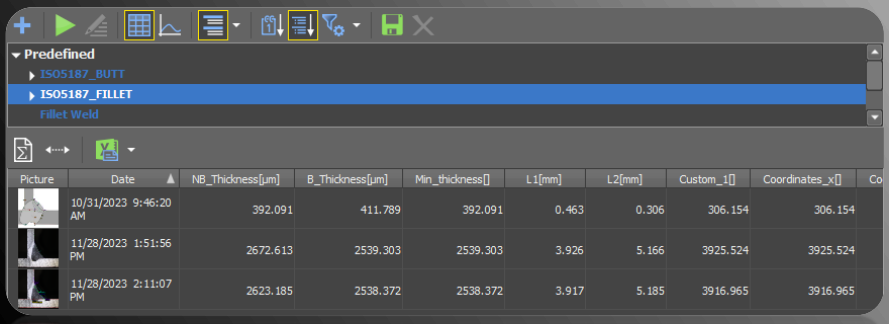
➢ Parameter control and its progress over time

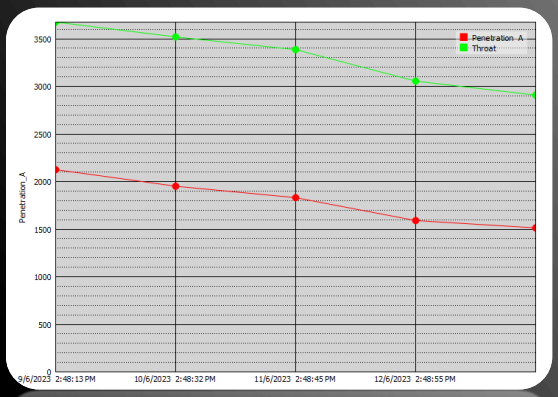
➢ Image Organizer

- Browse through all measured images and their results by clicking on any of the definitions



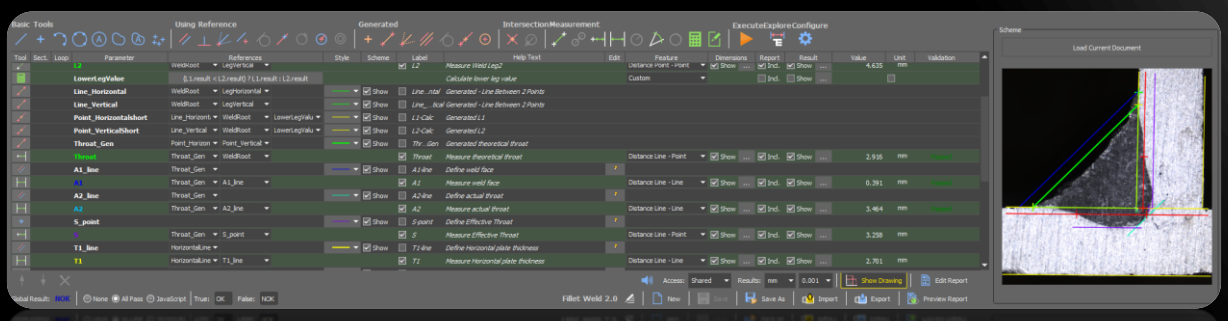
Picture	Date	NB_Thickness[µm]	B_Thickness[µm]	Min_thickness[]	L1[mm]	L2[mm]	Custom_1[]	Coordinates_x[]
	10/31/2023 9:46:20 AM	392.091	411.789	392.091	0.463	0.306	306.154	306.154
	11/28/2023 1:51:56 PM	2672.613	2539.303	2539.303	3.926	5.166	3925.524	3925.524
	11/28/2023 2:11:07 PM	2623.185	2538.372	2538.372	3.917	5.185	3916.965	3916.965

- Compare measured parameters and their progress over time using graphs



➢ Build and customize your own definition

- Create once, execute repeatedly
- Build without programming knowledge
- Complete geometrical options for various measurements
- Add hints for simple run execution
- Specify custom calculations, validations and limits (even using JavaScript)
- Load custom image for your guiding scheme
- Data including measured image as output



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➢ Products required for this application

Module

Measurement Sequencer

Measurement Sequencer

\+

Any of the software packages below

NIS-Elements Advanced Research

Optimized for advanced research applications. Nikon's flagship software package features fully automated image acquisition, advanced device control and powerful analysis and visualization tools

NIS-Elements Basic Research

Developed for standard research applications such as analysis and photo-documentation of fluorescent imaging, NIS-Elements BR features up to four-dimensional acquisition and advanced device control capabilities

NIS-Elements D

Software package for photo-documentation. Includes basic measuring and reporting tools.

➢ Contact us

For more information about our solutions, please contact your local Nikon representative at

- www.industry.nikon.com/

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