



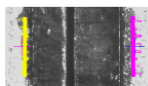
2 - S40 SEARCH Ablation borders Grad Simple

■ Description

Searches the left/right border of the ablation zone inside a given rectangle out of the grey intensity image. The ablation zone is normally visible as a dark vertical band on the blanks.

The rectangle of the ROI (**R**egion **O**f **I**nterest) is cut in small horizontal stripes. In each stripe a left and right ablation border position is searched. The average over all positions gives the final position for the left and for the right border position.

■ Icon



2 S40 SEARCH Ablation borders Grad Simple

Search outside ablation borders on left and right blank side

■ Parameters

Filters of 2 S40 SEARCH Ablation borders Grad Simple



02.1 Height of Stripe



03 Median value of stripe intensity



04 Mean value of stripe intensity



07 Mean value gradient



10 Eliminate gap Outliers



11 Ablation out X used

Number

30.000 (60.000)

Parameter	Comment
Number	Height of each stripe in the ROI where to search for left/right side ablation border position. [Pixel]

Verbosity level

None

Filter length N Pixel

30

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Filter length	The noisier the brightness is, the higher this parameter must be selected (1 - 100). This smoothens the brightness in every stripe before further processing, using a Median filter. [Pixel]

Verbosity level

None

Filter length N Pixel

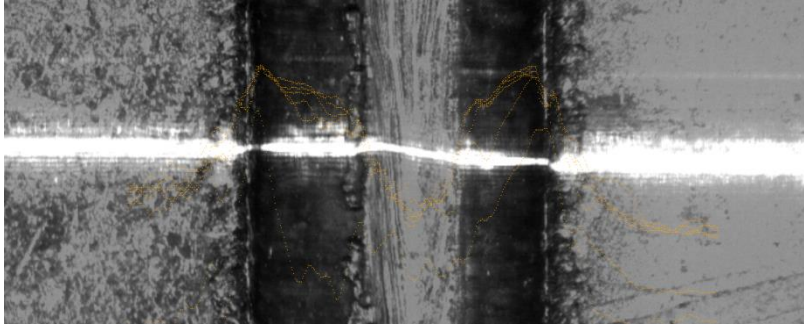
15


Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Filter length	The noisier the brightness is, the higher this parameter must be selected (1 - 100). This smoothens the brightness in every stripe before further processing, using a Mean filter. [Pixel]



Verbosity example:

The orange lines represent the intensity shape in each stripe of the ROI with the upper ablation ROI border as “intensity zero” reference.




Attributes of
07 Mean value gradient

Verbosity level
 None

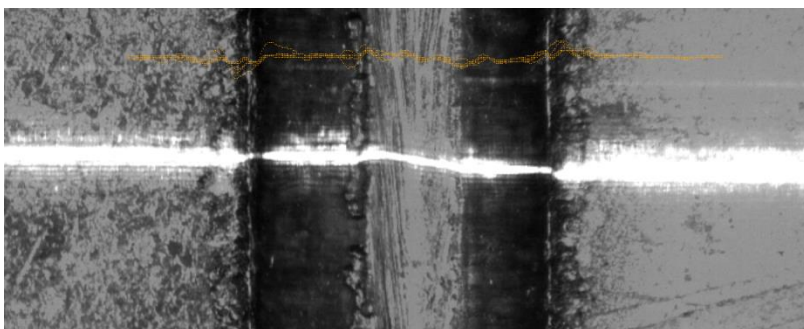
Filter length
 8 (5)

N Pixel
 +

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Filter length	Filter length for the gradients in each stripe, to be averaged on. [Pixel]

Verbosity example:

The orange lines represent the intensity changes (gradients) in each stripe of the ROI with the upper ablation ROI border as “Gradient zero” reference.





Attributes of

10 Eliminate gap Outliers



Verbosity level

None

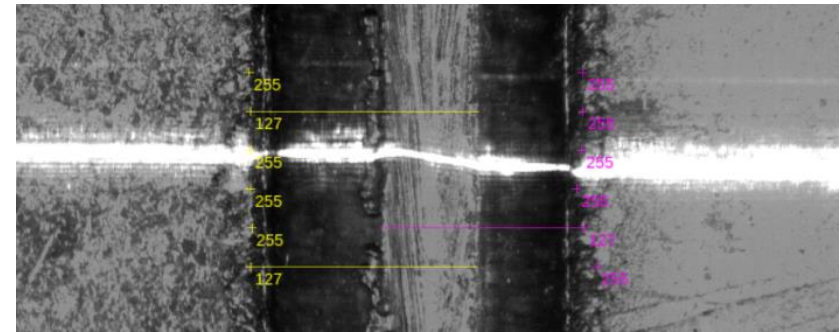
⌵

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.

Verbosity example:

Yellow crosses mark the found left ablation border position in every stripe of the ROI. Yellow lines mark found points that were changed/eliminated.

Magenta crosses mark the found right ablation border position in every stripe of the ROI. Magenta lines mark found points that were changed/eliminated.





Attributes of

11 Ablation out X used



Verbosity level

None

⌵




Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.

■ Measured values for plotter

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IN bridges

OUT bridges

 image	Img ROI ablation	 value	Ablation out X left Ablation out X right
 value	ROI ablation Y ROI ablation H		

- **Graph block diagram**

