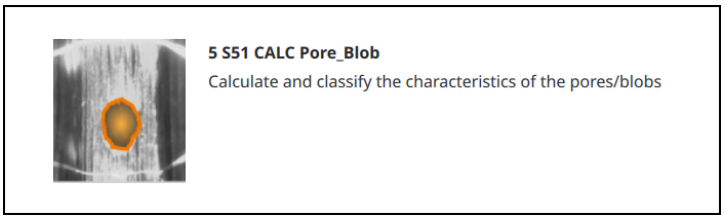
5 - S51 CALC Pore_Blob

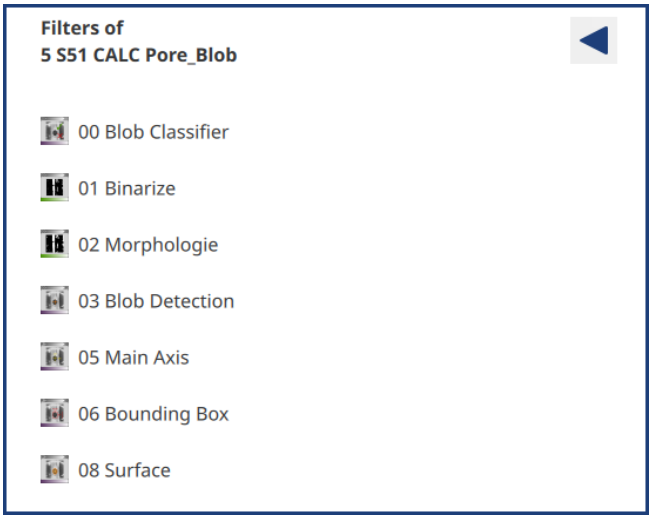
Description

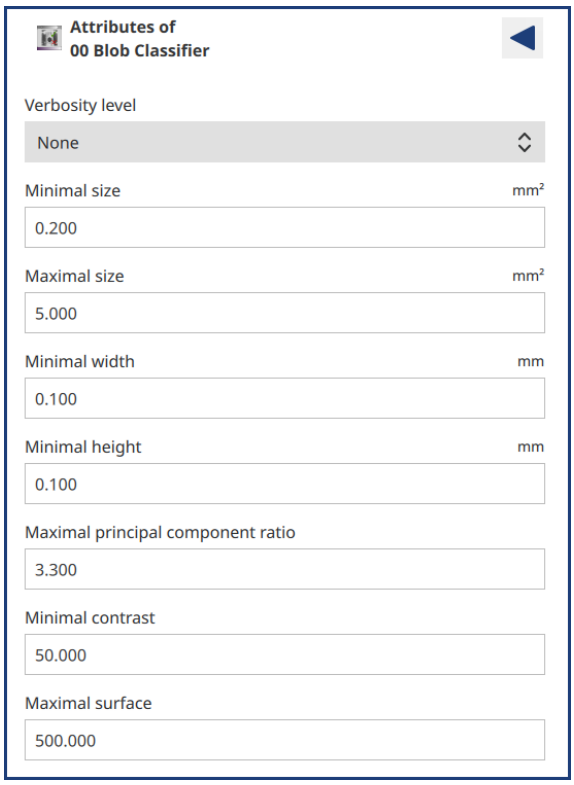
In the found seam area the pore/blob characteristics will be calculated and classified.

Icon

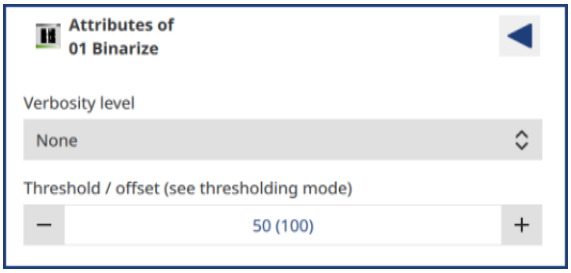


Parameters

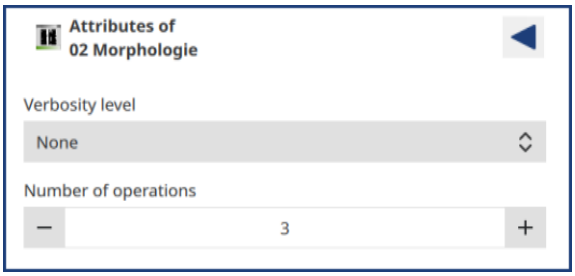




Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Minimal size	Minimum pore area. All smaller areas are for sure no pore. [mm^2]
Maximal size	Maximum pore area. All bigger areas are for sure no pore. [mm^2]
Minimal width	Min. necessary horizontal dimension for a pore. [mm]
Minimal height	Min. necessary vertical dimension for a pore. [mm]
Maximal principal component ratio	Maximum pore shape. The shape is defined by the length ratio of the main axis to the side axis of a pore. With a circle, the length ratio equals 1:1 and results in a value 1. The longitudinaler the shape of the pore, the higher is this value.
Minimal contrast	Minimum brightness difference in the area of a pore compared with the outside area. The darker a pore is, compared with the weld seam, the higher is the contrast value. [Greylevel]
Maximal surface	Maximum brightness variation inside a pore. The uniform the color of a pore, i.e. the less different grey scale values inside the pore, the smaller this value can be selected. [Greylevel]



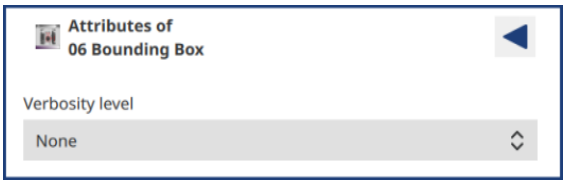
Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Threshold / offset	Binarizing is a dimensioning for the grey scale value of a pore. The higher this value is set, the darker a pore must be, compared to the weld seam. The smaller the value is set, the more pore candidates are extracted from the image. [Greylevel]



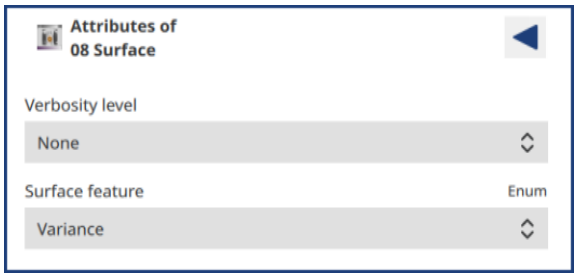
Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Number of operations	Parameter for filtering/smoothing the binarized image.

Parameter	Comment
Minimal blob size	Minimal blob size, which is found. [µm]

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



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



Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Surface feature	Which value is calculated for "Surface": • Variance • Min-max-distance • Gradient X • Gradient Y • Mean intensity

Measured values for plotter

720	0 … xxx	Pore/Blob Size
721	0 … xxx	Pore/Blob Count

Subgraphs interface

IN bridges **OUT bridges**

image	ROI seam	**value**	Pore size
value	ROI grey valid		

Graph block diagram