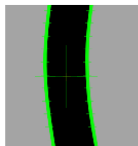# *3 - S13 SEARCH Gap GREYcontour Circle*

- **Description**

Searches the left and right gap border out of the grey intensity image. The gap is visible as a dark band, either vertically linear or with a bow. This gap has more or less sharp edges.

The rectangle of the ROI (**R**egion **O**f **I**nterest) is cut in small horizontal stripes. In each stripe a left and right gap border position is searched.

- **Icon**

3 S13 SEARCH Gap GREYcontour Circle
Detect edge position left and right with CircleFit function.

- **Parameters**

Filters of
3 S13 SEARCH Gap GREYcontour Circle

- 01 EliminateOutliers
- 02 CircleFitContour left
- 03 Gap pos circle left
- 12 CircleFitContour right
- 13 Gap pos circle right

Attributes of
01 EliminateOutliers ◀

Verbosity level

| None | ⇕ |

Variance factor

| 6.000 |

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbo-sity levels offer more overlay information.
Variance factor	Eliminates outliers in the found contour points by comparison with the mean position of all contour points. [Pixel]

Attributes of
02 CircleFitContour left ◀

Verbosity level

| None | ⇕ |

Minimum radius   mm

| 8.000 |

Maximum radius   mm

| 40.000 |

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbo-sity levels offer more overlay information.
Minimum radius	Minimum necessary radius value to be found when fitting a circle with the given left side contour points. If found value is smaller, then there is no "bow" of the gap, it's considered to be a vertical line. [mm]
Maximum radius	Maximum allowed radius value to be found when fitting a circle with the given left side contour points. If found value is bigger, then there is no "bow" of the gap, it's considered to be a vertical line. [mm]

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

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbo-sity levels offer more overlay information.
Minimum radius	Minimum necessary radius value to be found when fitting a circle with the given right side contour points. If found value is smaller, then there is no "bow" of the gap, it's considered to be a vertical line. [mm]
Maximum radius	Maximum allowed radius value to be found when fitting a circle with the given right side contour points. If found value is bigger, then there is no "bow" of the gap, it's considered to be a vertical line. [mm]

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

■ Measured values for plotter

562	0 … 255	Light bright 2

■ Subgraphs interface

IN bridges   **OUT bridges**

◤ image	ROI grey	◤ value	Circle pos left / right
			Is circle
◤ value	NbOfSlices		
	ImageSize		
	Contour left		
	Contour right		

■ Graph block diagram

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