

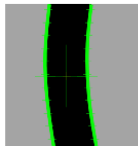
3 - S33 CALC Gap position Linear+Circle GREY

■ Description

Calculates the **gap position**, the **gap width** and the blank's **height difference**, supposing that the gap is bowed or linear.

The rectangle of the ROI (**R**egion **O**f Interest) was cut in small horizontal stripes. Now in each stripe the brightness curves are analyzed.

■ Icon



3 S33 CALC Gap position Linear+Circle GREY

Calculate gap position, gap width and height difference.
Selection of gap position Circle or Linear

■ Parameters

Filter Groups of 3 S33 CALC Gap position Linear+Circl...



G15 Gap Position

G15 Gap Position

Filters of
G15 Gap Position



01 Gap correction thickness



01.1 Gap offset left in Pix



01.2 Gap offset right in Pix



01.4 Fix gap correction reference



02 MaxJump gap position Y in pixel

Attributes of

01 Gap correction thickness

Weighting

–

50

+

Percent

Parameter	Comment
Weighting	<p>Normally, the position of the gap is set to be in the middle of the measured gap (value "Weighting" = 50%). With a smaller percentage value the found position is set near the gap side defined as "Reference" in '01.4 Fix gap correction reference', with a bigger percentage value the found position is set near the gap side opposite to the side defined as "Reference" in '01.4 Fix gap correction reference'.</p> <p>Value 0% sets the position on the "reference" gap border, value 100% sets the position on the gap border opposite to the "reference".</p> <p>[Percent]</p>

Attributes of

01.1 Gap offset left in Pix

Number

0.000

Parameter	Comment
Number	<p>Moves the left found gap position inside the gap.</p> <p>[Pixel]</p>

Attributes of

01.2 Gap offset right in Pix

Number

0.000

Parameter	Comment
Number	<p>Moves the right found gap position inside the gap.</p> <p>[Pixel]</p>



Attributes of
01.4 Fix gap correction reference

Number

Parameter	Comment
Number	Set the reference side for "Weighting" in '01 Gap correction thickness': 0 = Use the thicker blank as reference side. If both have same thickness, use the left side as reference. 1 = Set the left side fix as reference side.

Attributes of
02 Maxjump gap position Y in pixel

Maximum jump width

AddOn per image



Parameter	Comment
Maximum jump width	Horizontal range around the "expected position" where the gap must be found. The <i>expected position</i> is the found gap position of the before image. If the new gap position value is more than "Maximum jump width" away from the expected position, the value of "expected position" is used as output. [Pixel]
AddOn per image	If the new gap position value is more than "Maximum jump width" away from the "expected position", the value of "Maximum jump width" is increased by "AddOn per image". If the new gap position value is inside the actual range of "Maximum jump width", the value for "Maximum jump width" is reset to the given value in "Maximum jump width". [Pixel]

■ Measured values for plotter


504	0 ... xxx	Ypos cam mm
510	0 ... xxx	Zpos cam mm
516	0 ... xxx	Gap width mm
517	0 ... xxx	Mismatch mm
556	0 / 1	Plausibility GEO error
709	-xxx .. +xxx	Height difference

■ Subgraphs interface

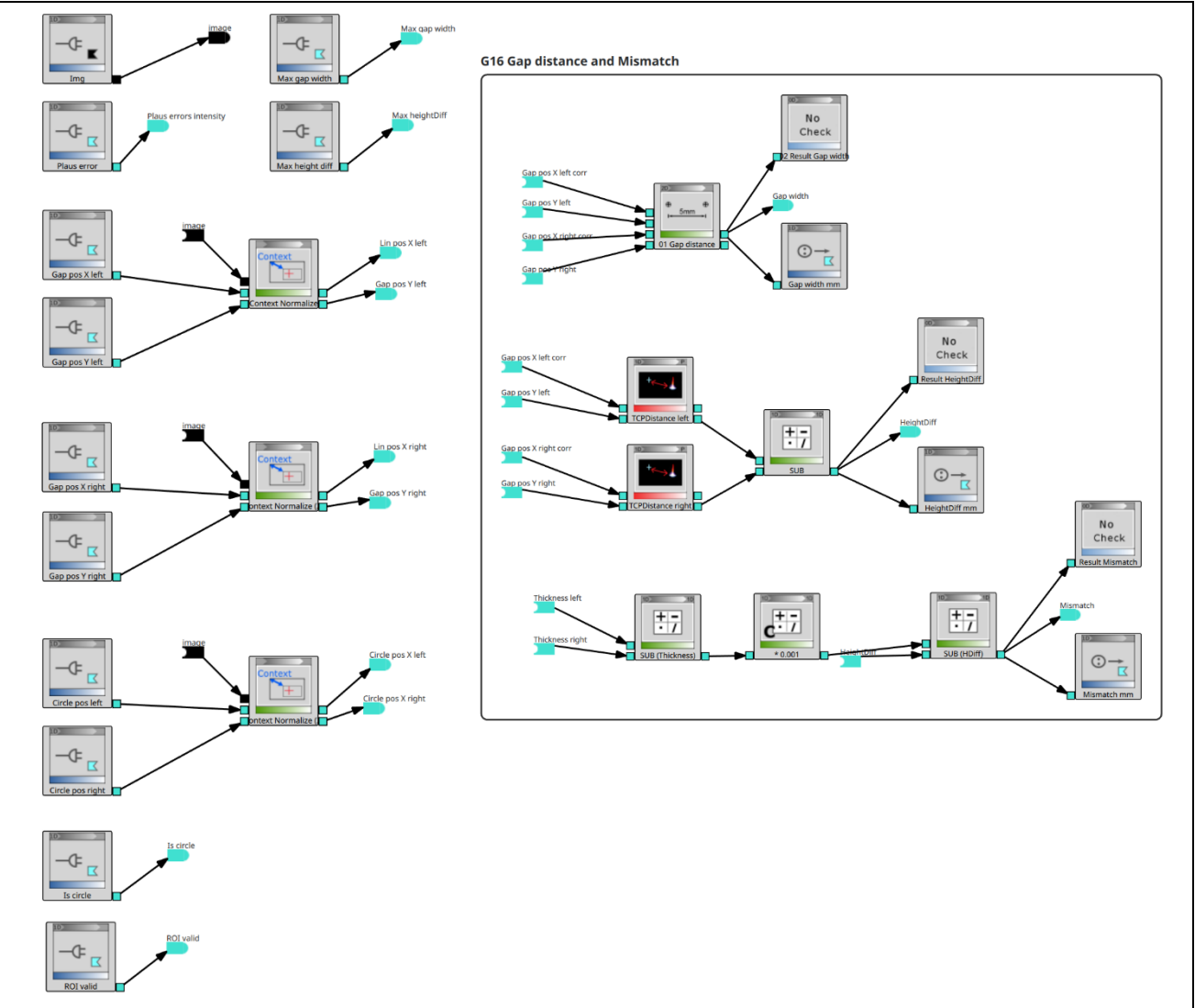
IN bridges

 image	Img
 value	Gap pos X left / right Gap pos Y left / right Circle pos left / right Is circle Max gap width Max height diff Plaus error

OUT bridges

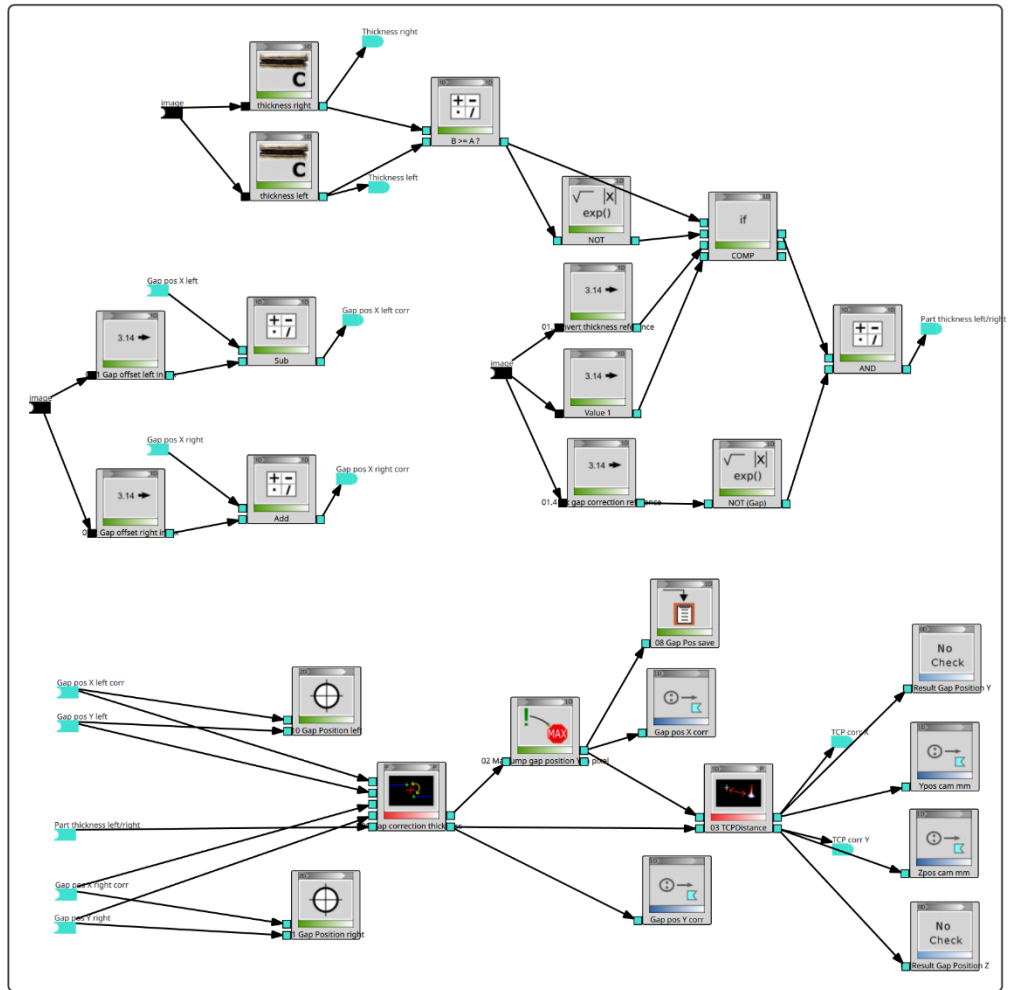
 value	Gap pos X / Y corr Ypos cam mm Zpos cam mm Gap width mm HeightDiff mm Mismatch mm Rank
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■ Graph block diagram

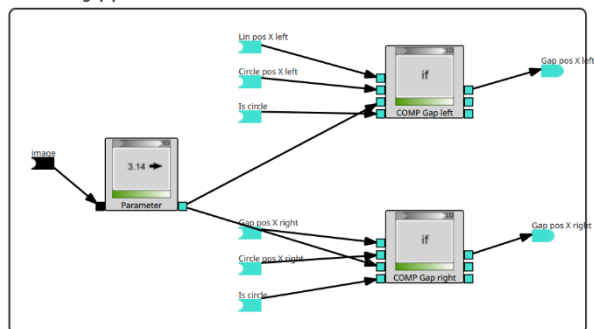




G15 Gap Position



G20 Select gap position



G61 Plausibility Logic an Rank

