

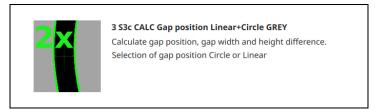
3 - S3c CALC Gap position Linear+Circle GREY

Description

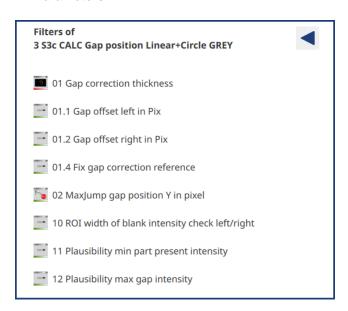
Calculates the **gap position** out from the chosen subgraph (S13 or S1h), supposing that the gap is bowed or vertical linear.

The rectangle of the ROI (Region Of Interest) was cut in small horizontal stripes. Now in each stripe the brightness curves are analyzed.

Icon



Parameters





Parameter	Comment		
Weighting	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'. Value 0% sets the position on the "reference" gap border, value 100% sets the position on the gap border opposite to the "reference". [Percent]		

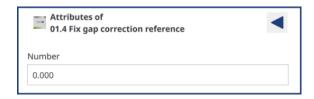


Parameter	Comment	
Number	Moves the left found gap position inside the gap. [Pixel]	

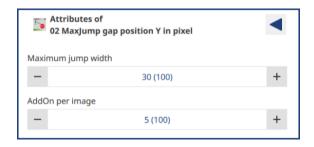


Parameter	Comment	
Number	Moves the right found gap position inside the gap. [Pixel]	





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.	



Parameter	Comment
Maximum jump width Horizontal range around the "expected position" where the gap m The expected position is the found gap position of the before ima If the new gap position value is more than "Maximum jump width' the expected position, the value of "expected position" is used as [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]



Parameter	Comment		
Number	The number of pixels in direction to the gap, starting at the left/right border of the grey scale ROI, serving for calculating the left/right reference brightness in the corresponding stripe. [Pixel]		



Parameter	Comment	
Number	Minimum mean intensity value for 'part present' check left and right in the corresponding stripe. [Greylevel]	



Parameter	Comment	
Number	Maximum allowed intensity value in the gap. [Greylevel]	

Measured values for plotter

504	0 xxx	Ypos cam mm		
510	0 xxx	Zpos cam mm		
558	0/1	Plausibility Intensity error		
575	0 255	Intensity Part left		
576	0 255	Intensity Part right		
577	0 255	Intensity Gap		
581	-xxx +xxx	TCP_x		
582	-xxx +xxx	TCP_y		
583	0 xxx	HWROI_x		
584	0 xxx	HWROI_y		



Subgraphs interface

IN bridges OUT bridges

 image	Img	Intensity ROI left / right
		Intensity ROI gap
 ✓ value	ROI grey X / Y	Gap pos X left / right
	ROI grey W / H	Gap pos X / Y corr
	Gap pos X left / right	Plaus error gapPos
	Gap pos Y left / right	Ypos cam mm
	Circle pos left / right	Zpos cam mm
	Circle pos left / right	
	Is circle	

■ Graph block diagram

