

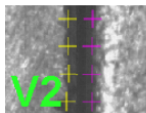


3 - S31 CALC Gap position+width Linear ALL V2

■ Description

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

■ Icon



3 S31 CALC Gap position+width Linear ALL V2

Calculate gap position, gap width and height difference.

■ Parameters

Filter Groups of 3 S31 CALC Gap position+width Linea...



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


Percent

–

50

+

| 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

OUT bridges

|  image | Img |  value | |
|---|---|---|--|
|  value | Gap pos X left / right Gap pos Y left / right Max gap width Max height diff Plaus error | | Ypos cam mm Zpos cam mm Gap pos X / Y corr Gap width mm HeightDiff mm Mismatch mm Rank |

- **Graph block diagram**

