



SANMINA

Sanmina

Curso básico
para la
generación de
programas en
AOI VITROX

Parte 6 S-Type

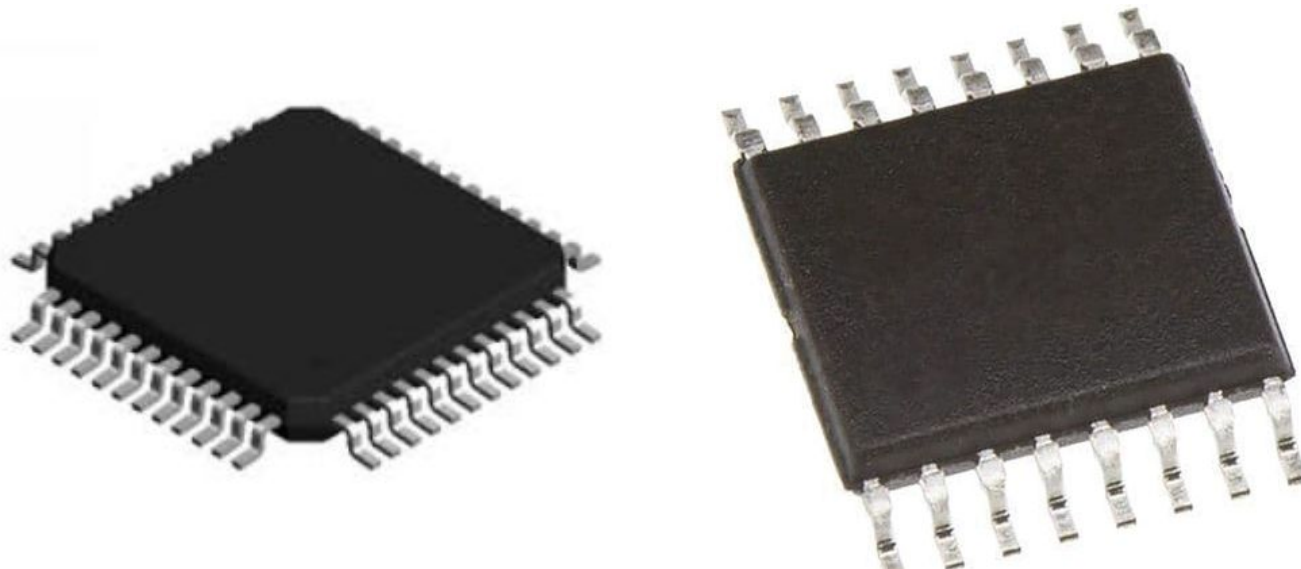
Ing. Ana
Victoria Ramos



WHAT WE MAKE, **MAKES A DIFFERENCE**

Concept to Delivery / Advanced Technology / Manufacturing & Global Supply Chain Solutions / Systems & Intelligence

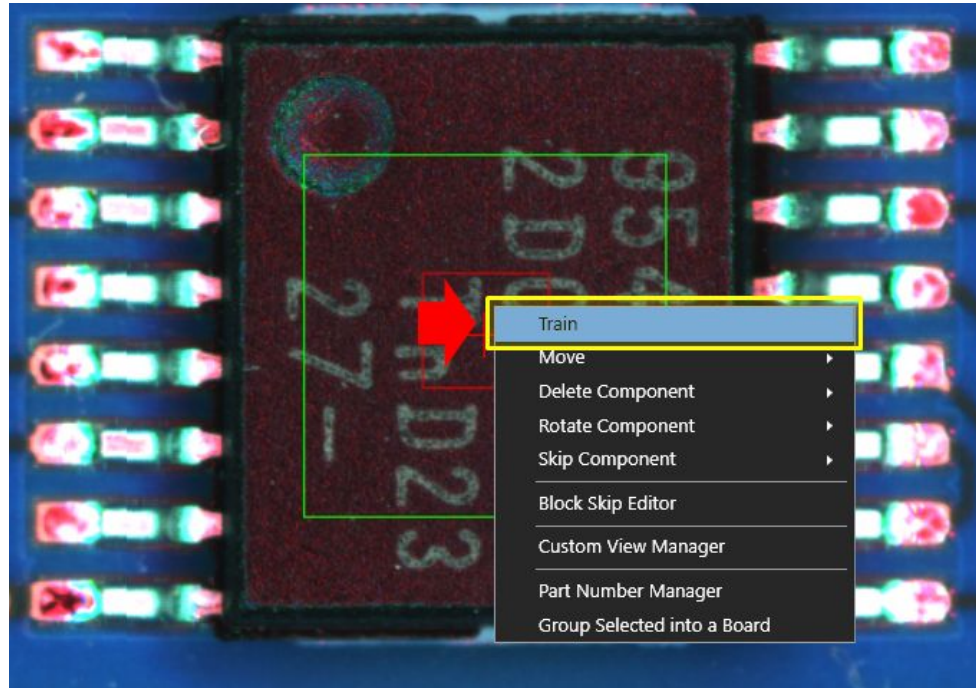
S-Type



1. S-Type

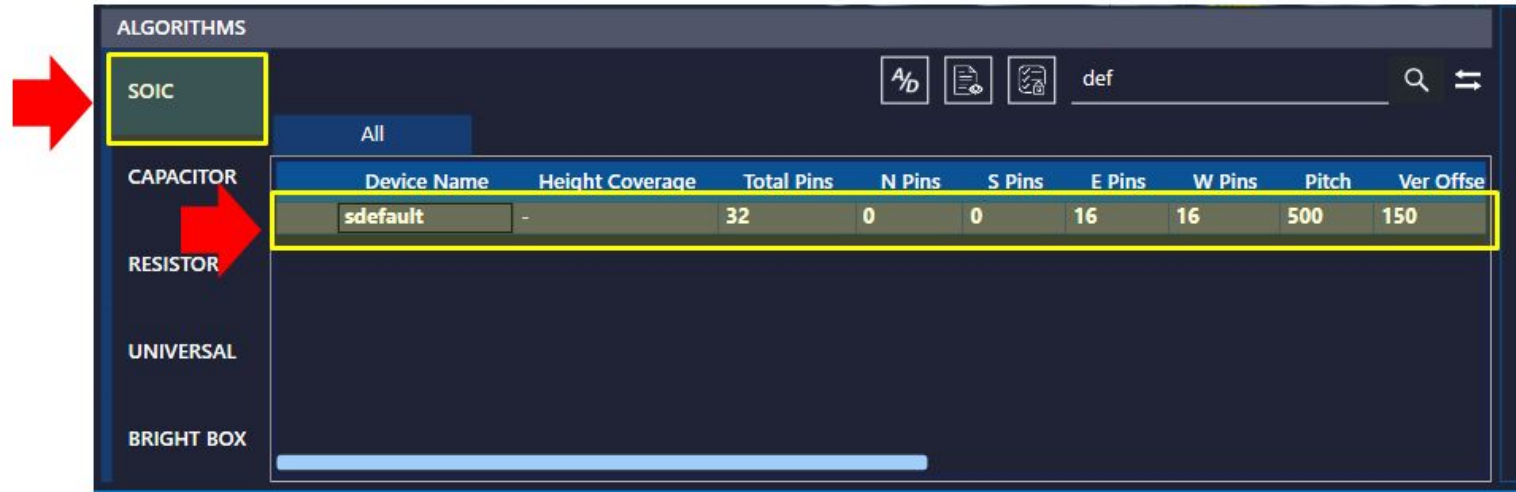
1.1 Posiciónate sobre el componente

1.2 Da Click derecho y selecciona **Train**



1.3 Seleccionar Algoritmo **SOIC**

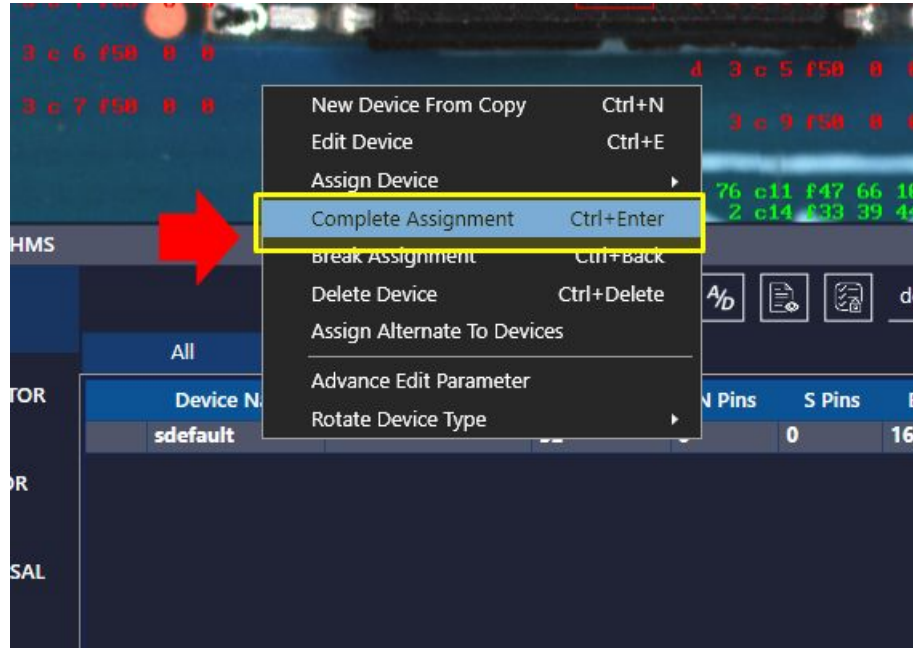
1.4 Seleccionar **sdefault**



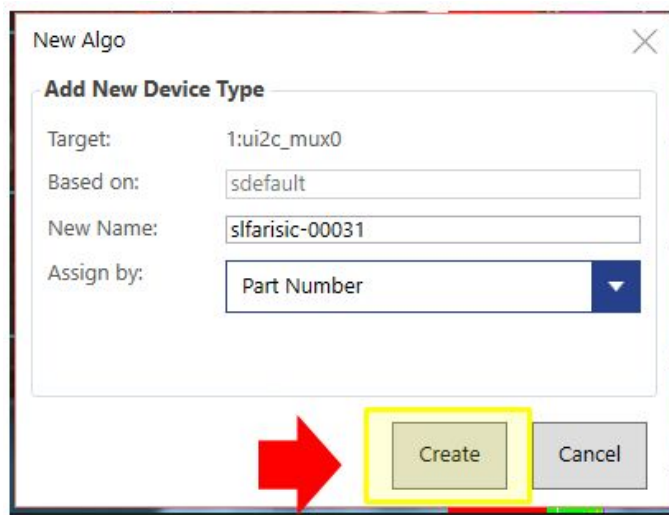
The screenshot shows the 'ALGORITHMS' selection screen. On the left, a sidebar lists categories: SOIC, CAPACITOR, RESISTOR, UNIVERSAL, and BRIGHT BOX. The 'SOIC' category is highlighted with a yellow box and a red arrow. To the right, a table lists various device options. The 'CAPACITOR' section is expanded, showing a table with columns: Device Name, Height Coverage, Total Pins, N Pins, S Pins, E Pins, W Pins, Pitch, and Ver Offse. The 'sdefault' option is highlighted with a yellow box and a red arrow.

Device Name	Height Coverage	Total Pins	N Pins	S Pins	E Pins	W Pins	Pitch	Ver Offse
sdefault	-	32	0	0	16	16	500	150

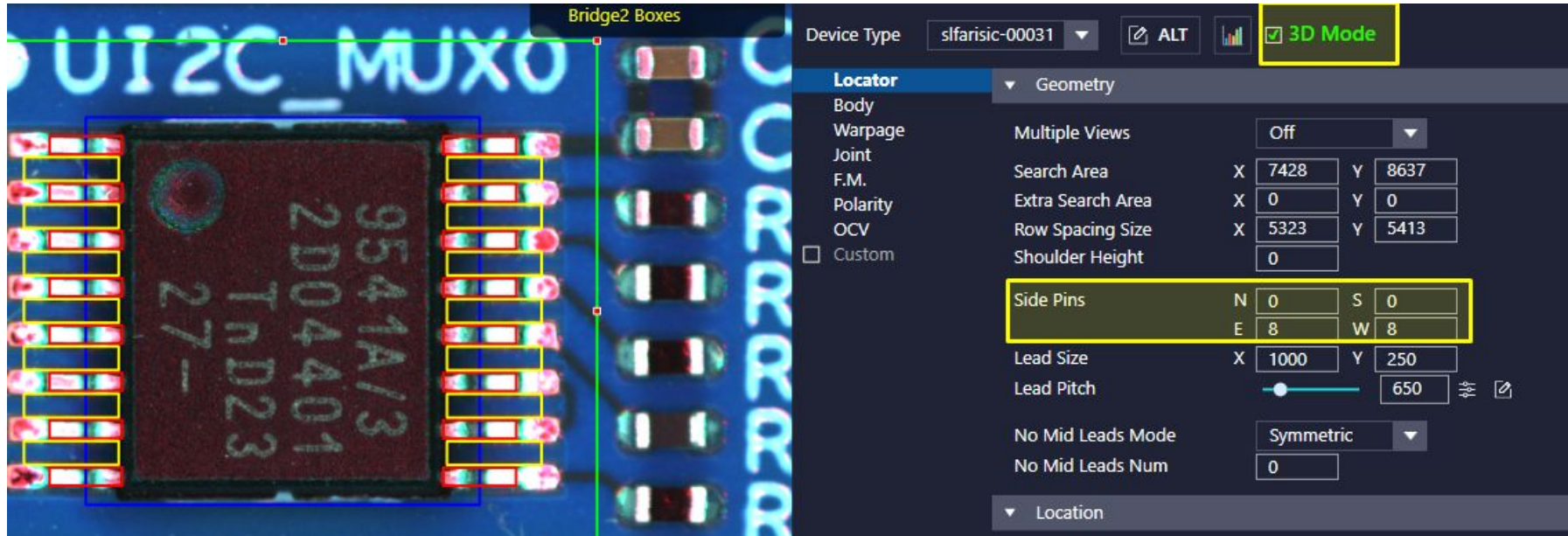
1.5 Da click derecho y selecciona **Complete Assignment**



1.6 Da clic en **Create**, sin modificar el nombre del algoritmo

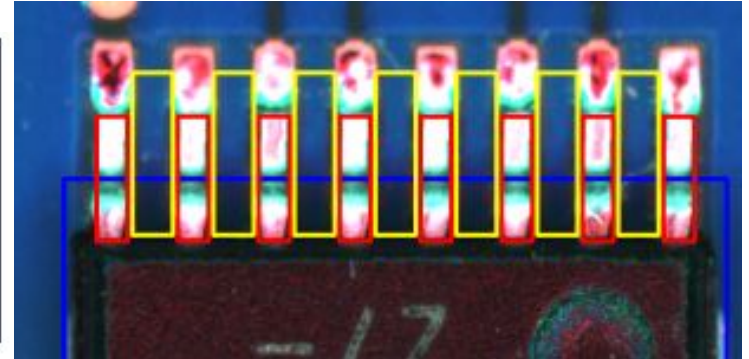
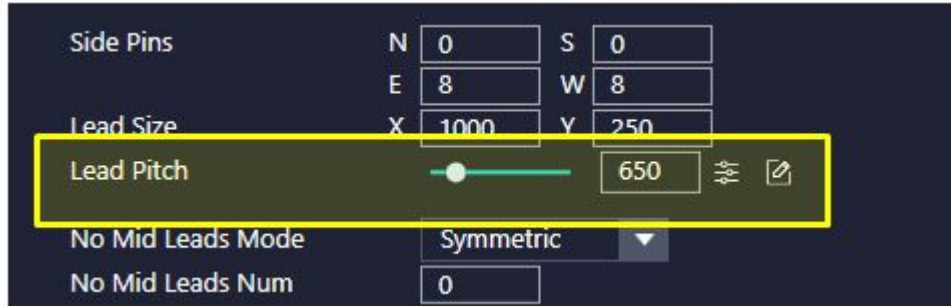


- 1.7 Presiona **Ctrl + E** o da clic derecho sobre el componente y selecciona **Edit Device**
- 1.8 Selecciona la casilla de **3D Mode**
- 1.9 Ajusta el cuerpo del componente
- 1.10 Y el número de terminales



1.11 Ajusta **Lead Pitch** (distancia entre los pines)

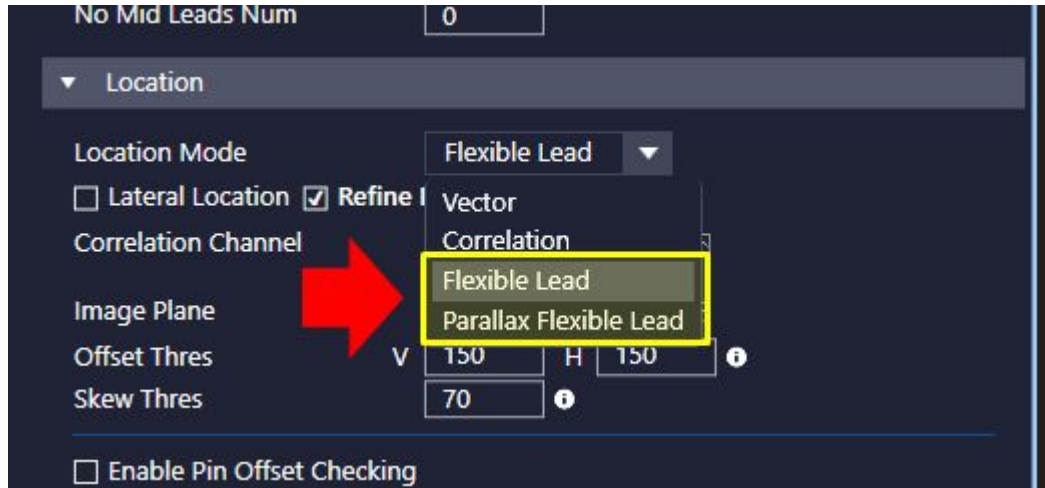
1.12 Asegurate que la **caja roja** se encuentre del mismo tamaño del pin y en perfecta ubicación



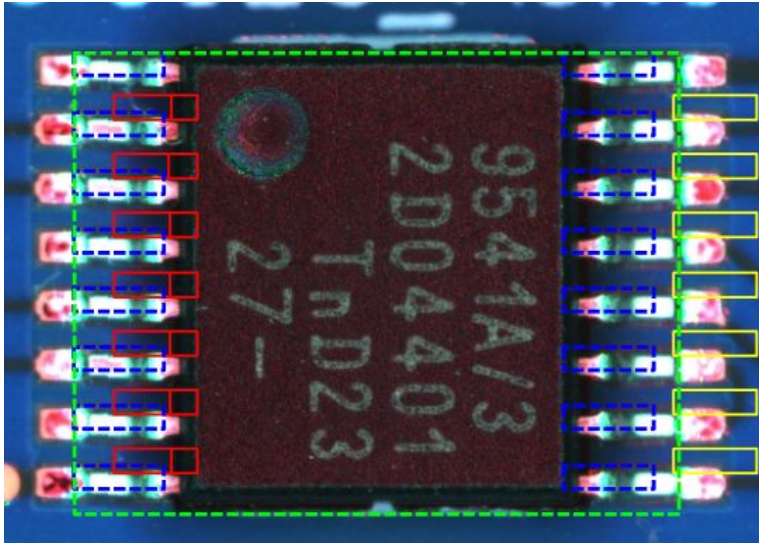
2. En la pestana de **Locator**

2.1 Selecciona el metodo de localizacion de pines

1. Flexible Lead
2. Parallax Flexible Lead



2.2 Configure **Offset Thres** para delimitar el área que vamos a permitir que el componente se desplace



Location Mode Flexible Lead

☐ Lateral Location ☒ Refine Location

Correlation Channel Angle 1 + 2

Image Plane Angle 1

Offset Thres V 150 H 150

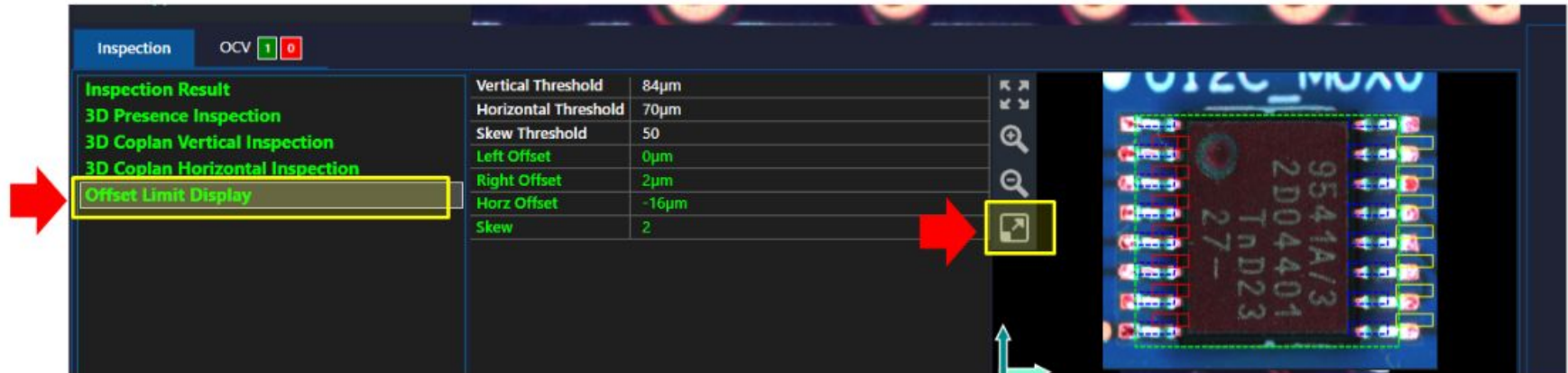
Skew Thres 70

☐ Enable Pin Offset Checking

2.3 Da clic en **Inspect**

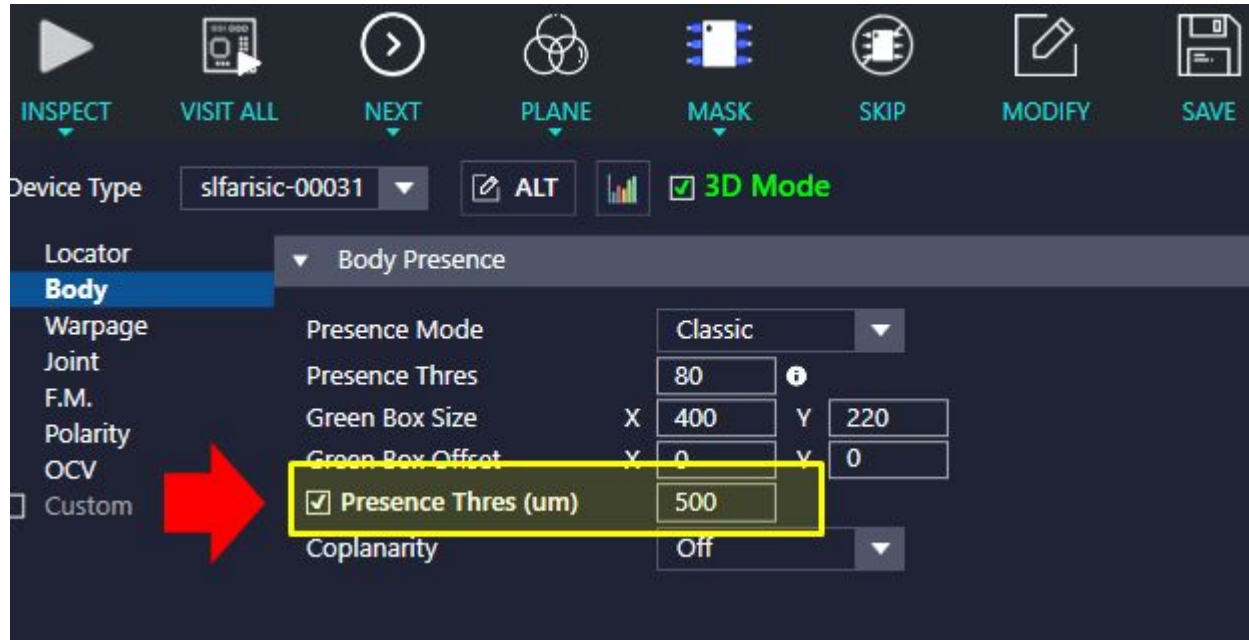
2.4 En la parte posterior Izquierda selecciona **Offset Limit Display**

2.5 Verifica que el desplazamiento permitido sea el correcto



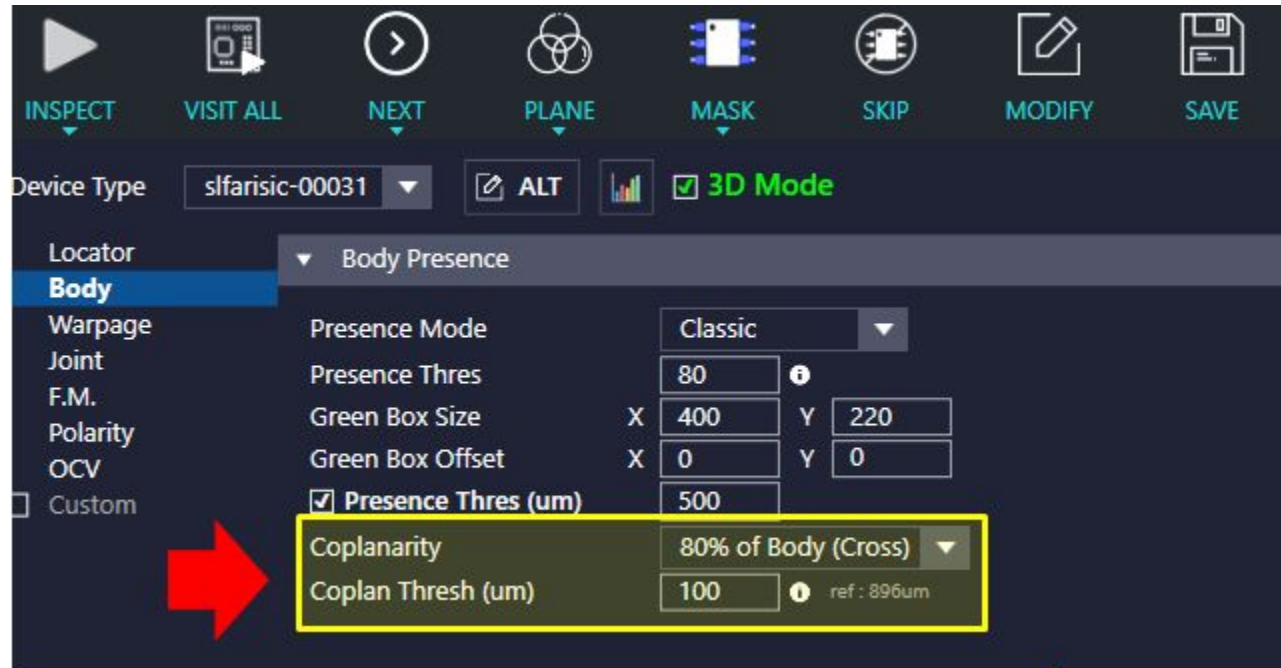
3 Configuración **BODY**

3.1 Habilita **Presence Thres (um)**, para detectar cuando el componente se encuentre faltante



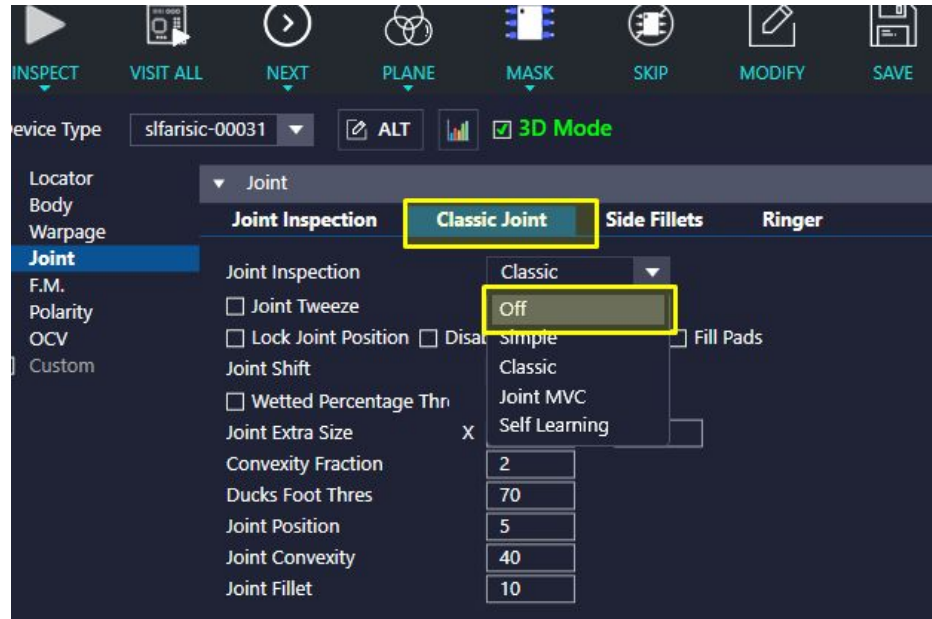
3.2 Configura Coplanarity

Coplan Thresh (μm) 80 a 100 μm



4. Configuración de JOINTS

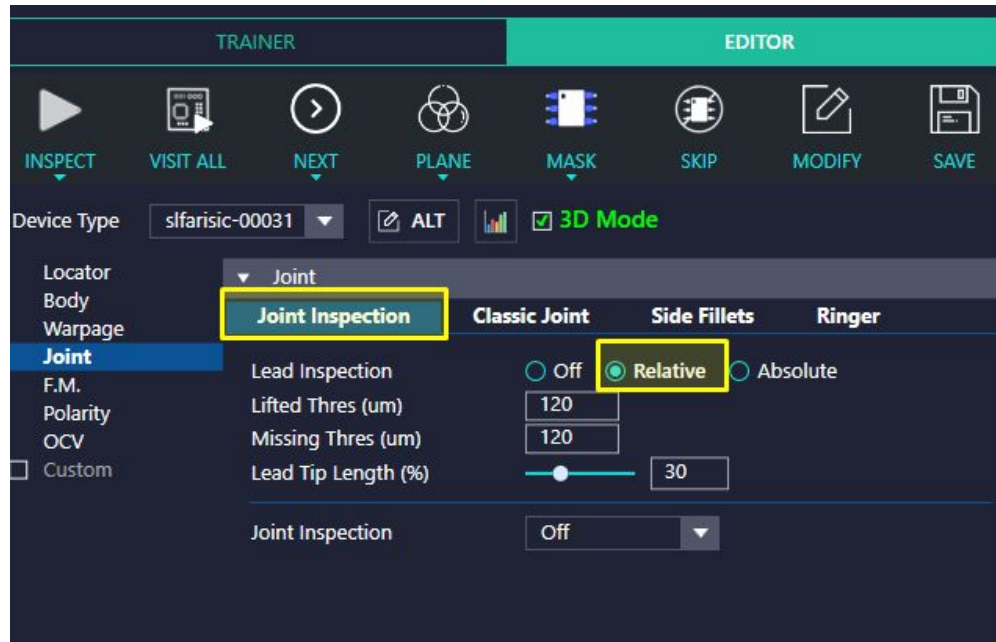
4.1 Deshabilita **Classic Joint** seleccionando **OFF**



4.2 Seleccione **Joint Inspection**

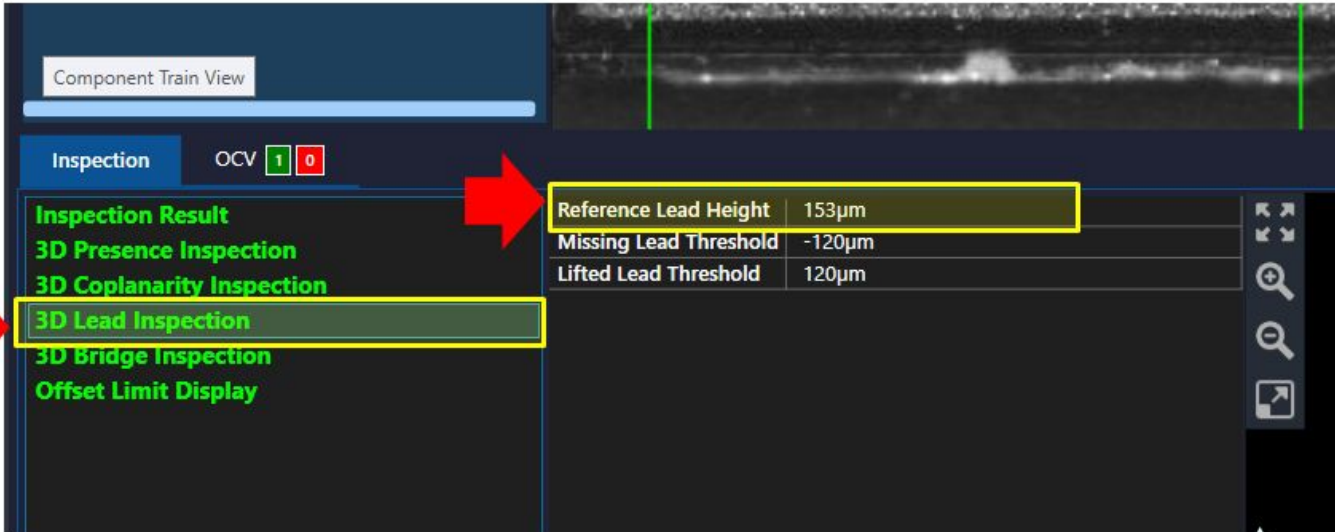
4.3 Selecciona **Relative**

4.4 Da clic en **INSPECT**



4.3 Selecciona 3D Lead Inspection

Reference Lead Height: Es el promedio de la altura de los pines, este valor lo usaremos más adelante recordalo



Component Train View

Inspection OCV 1 0

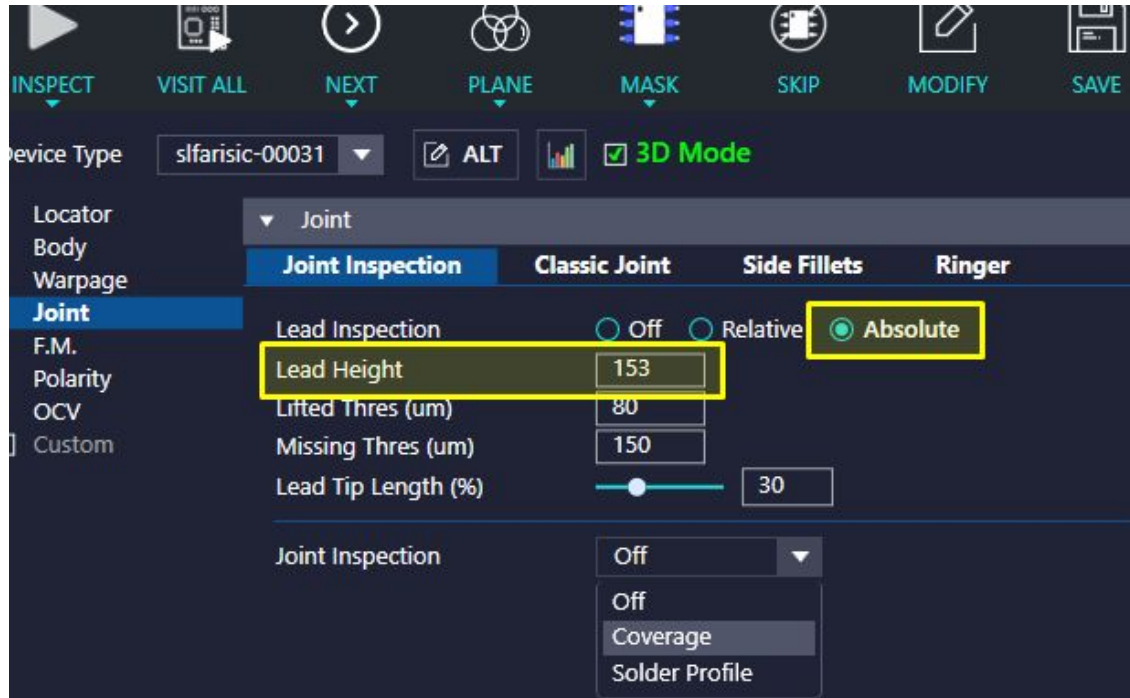
Inspection Result

- 3D Presence Inspection
- 3D Coplanarity Inspection
- 3D Lead Inspection**
- 3D Bridge Inspection
- Offset Limit Display

Reference Lead Height	153μm
Missing Lead Threshold	-120μm
Lifted Lead Threshold	120μm

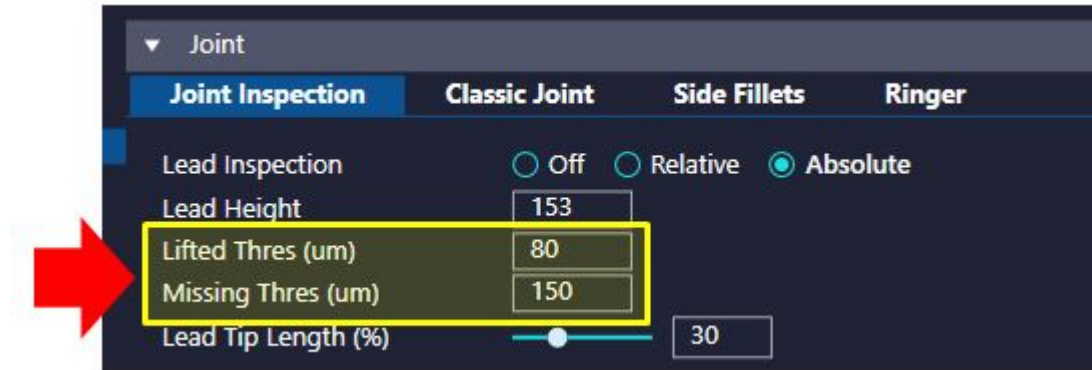
4.4 Selecciona **Absolute**

4.5 Coloca el promedio de la altura obtenido en **Lead Height**



4. 7 Configura Lifted Thres (um): **60-80**

Missing Thres: puede ser un valor alto, no importa ya que lo que garantizamos es que no se encuentre elevado



4. 8 Configura

Joint Inspection: Coverage

Joint Image Plane: Angle 3

Habilita Joint Follow Locator

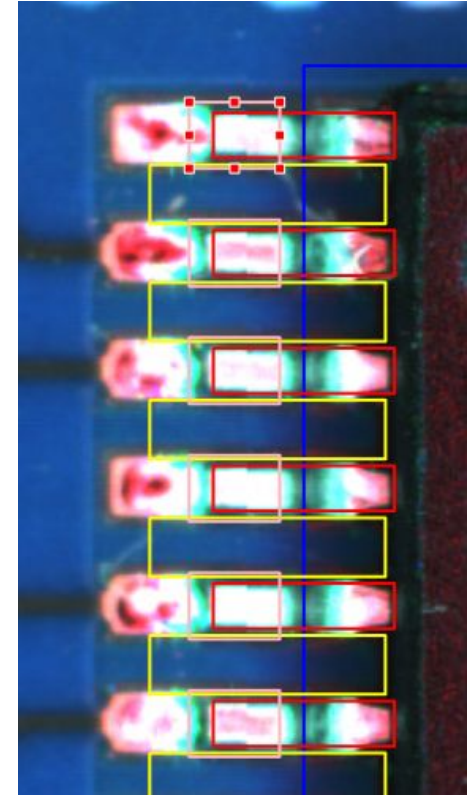
Joint Grey Thres: 120-160

Joint Height Thres: 50- 80

Joint Coverage Thres: 50

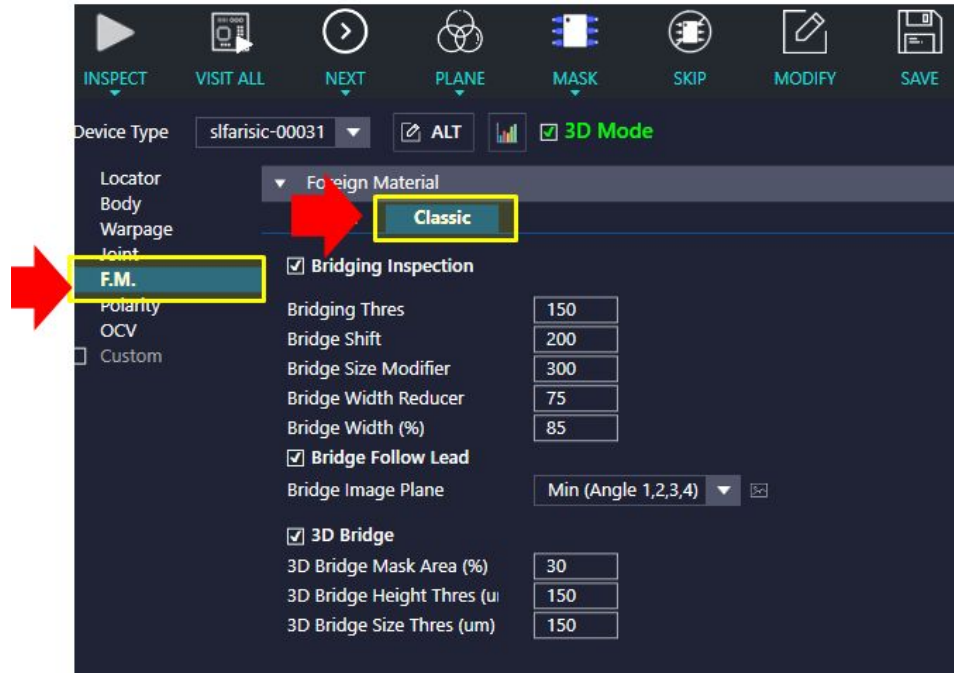
AJUSTA LA **CAJA ROSA** AL ÁREA DE INSPECCIÓN

Joint Inspection	Coverage	▼
Joint Offset	0	
Joint Size	X 500 Y 500	
<input checked="" type="checkbox"/> Joint Follow Locator		
Joint Image Plane	Angle 3	▼
Joint Grey Thres	160	🔍
3D Mode	<input type="radio"/> % <input checked="" type="radio"/> um	
Joint Height Thres (um)	80	
Joint Coverage Thres	50	



4.9 Habilita **F.M**

4.10 Selecciona **Classic**

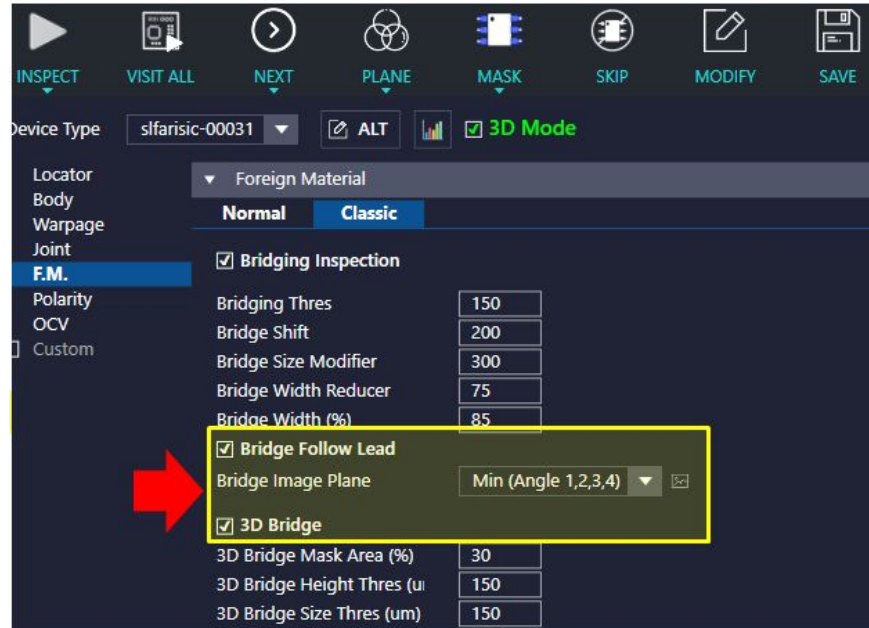


4.10 Configura

Bridge Follow Lead; Habilitado

Bridge Image Plane: Min (Angle 1,2,3,4)

Bridge Mode 3D : habilitado



5. Polaridad

5.1 Para polaridad usando círculo negro o Círculo blanco Ver:

https://docs.google.com/presentation/d/1IAmydVdg2H7fVQ9ZjcSelwmFQeJXBePGgs_2cXwnUSg/edit?usp=sharing

5.2 Polaridad por altura ver

https://docs.google.com/presentation/d/1ZPIBkE-Ps4zpn5P-l8_BWbqKFH2ZJXnAVyJYVRpcbIA/edit?usp=drive_link



5. OCV OCR VER

https://docs.google.com/presentation/d/17mNAvgC1StAv0wahlSeGmr3gMitqEbZJbflsUkYNwo/edit?usp=drive_link