

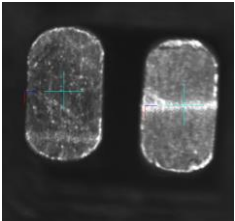
Precitec Macro Documentation

02 Detection Hairpin TemplateMatching

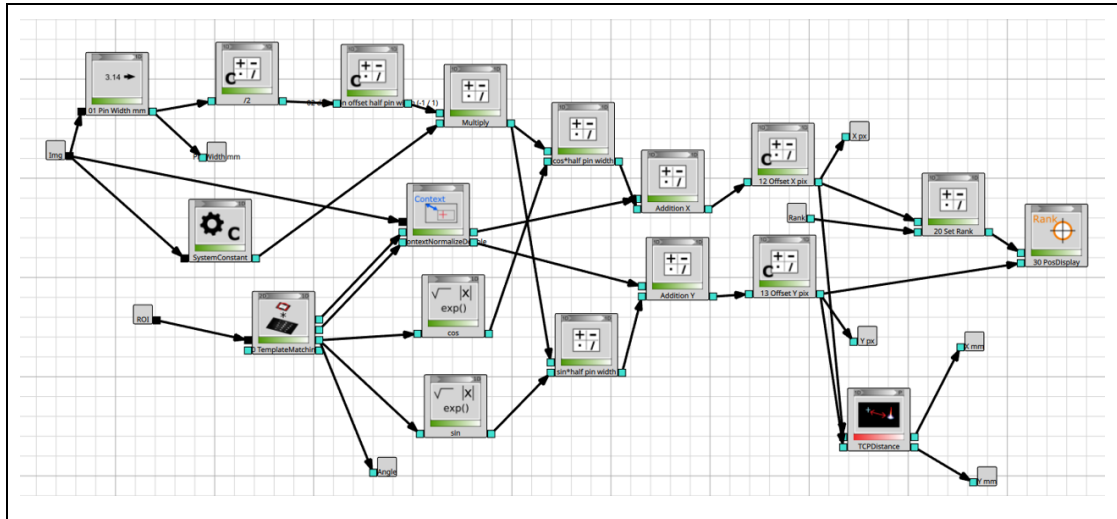
■ Changelog

Date	Version	Autor	Tested on	Description
2023-0227	A	Sca	5.19.13	New documentation

■ Description

	<p>Searches for a Template in the ROI and outputs the position at an offset of half the Pin Width</p> <p>I1: ROI</p> <p>I2: Image</p> <p>I3: Rank</p> <p>O1: Position X in pixel</p> <p>O2: Position Y in pixel</p> <p>O3: Position X for Scanner</p> <p>O4: Position Y for Scanner</p> <p>O5: Angle</p> <p>O6: half Pin Width in mm</p>
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■ Macro structure



Detects a Template inside the ROI. Calculates an Offset of half the Pin width and outputs the position. The position will be displayed according to an input rank. Possibility to add Offsets on the desired Position.

■ Parameter

NAME	VALUE	Description	UserLevel
01 Pin Width mm	2	Pin width in mm	Operator
02 direction offset half pind width (-1 / +1)	1 or -1	Direction from detected pin edge inwards (for use of the same template right and left).	Operator
10 TemplateMatching → Template File Name	.bmp File on System	.bmp which will be used as Template	Admin
10 TemplateMatching → Angle Start	0	Start Angle in degree, by which the template will be rotated	Admin
10 TemplateMatching → Count Step	1	Number of steps the template will be rotated	Admin
10 TemplateMatching → Angle Step	1	Amount of angle in degree the template will be rotated each step	Admin
10 TemplateMatching → Pyramid Levels	0	Downsampling to improve Algorithm process time	Admin

12 Offset X px → Number	0	Offset in X direction in px in order to correct for not symmetrical templates	Operator
13 Offset Y px → Number	0	Offset in X direction in px in order to correct for not symmetrical templates	Operator
30 PosDisplay	0-255 for each colour	Color of crosshair in good or bad condition	Operator