


Attachment B2

Positive Control Log Matrix for Turret Based Machine

Revision: 2											
INPUT VARIABLE						PLATFORM (TURRET MACHINE)					
Item	Category	Subcategory	Vision System/ MC Feature-Part/ Item	Control Item	Frequency	V12	AT268	HSI200	AT468	G7	HSI250/ HSI400
1	Mark	Mark Score (Laser)	Top Mark	Acceptance Score	Every set-up	40%	60%	N/A	85%	N/A	N/A
				Rejection Score	Every set-up	N/A	40%	N/A	40%	N/A	N/A
			Vision Table	Acceptance Score	Every set-up	N/A	N/A	N/A	N/A	50%	50%
			In-pocket	Acceptance Score	Every set-up	40%	60%	N/A	85%	40%	40%
				Rejection Score	Every set-up	N/A	40%	N/A	40%	N/A	N/A
		Mismatch	Top Mark/ In-pocket	Missing Area & Excess Area	Every set-up	N/A	4 pixel	N/A	10%	N/A	N/A
		Bowl Input	Top mark (On-the-Fly)	Acceptance Score	Every set-up	N/A	N/A	75%	N/A	N/A	N/A
			In-pocket	Acceptance Score	Every set-up	N/A	N/A	50%	N/A	N/A	N/A
		Tube Input	Top mark (On-the-Fly)	Acceptance Score	Every set-up	N/A	N/A	60%	N/A	N/A	N/A
			In-pocket	Acceptance Score	Every set-up	N/A	N/A	50%	N/A	N/A	N/A
2	Orientation	Top Mark/ In-pocket		Acceptance Score	Every set-up	N/A	90%	N/A	80%	95%	N/A
				Rejection Score	Every set-up	N/A	80%	N/A	70%	N/A	N/A
				Method/ Turret Bottom Vision Set-up	Every set-up	N/A	N/A	N/A	Correlation	Bottom Right	N/A
		Vision Table		Acceptance Score	Every set-up	N/A	N/A	N/A	N/A	95%	N/A
				Acceptance Score	Every set-up	N/A	70%	N/A	70%	N/A	N/A
				Rejection Score	Every set-up	N/A	60%	N/A	60%	N/A	N/A
		Top Mark/ In-pocket		Method	Every set-up	N/A	N/A	N/A	Correlation	N/A	N/A
				Acceptance Score	Every set-up	N/A	N/A	N/A	N/A	95%	N/A
		Bowl / Tube Input - Unit Orientation (Capture Image in Tape) In-pocket			Every set-up	C1,C2,C3,C4,M1	C1,C2,C3,C4,M1	C1,C2,C3,C4,M1	C1,C2,C3,C4,M1	Top Left (C1)	C1,C2,C4,C3,M1
		Fixed Region			Every set-up	N/A	N/A	Enable	N/A	N/A	Enable
3	Taping Assembly	Pick and Place	Drop of Height		Start of the shift & Every set-up	N/A	0.5-1.0 mm	0.5-1.0 mm	0.5-1.0 mm	N/A	0.5-1.0 mm
4	Sealing Assembly	Sealing Temperature			Start of the shift & Every set-up	180°C-220°C	180°C-220°C	180°C-220°C	180-220°C	180-220°C	180-220°C
		Sealing Pressure (Other Packages)			Start of the shift & Every set-up	50-90 Psi	50-90 Psi	50-90 Psi	50-90 Psi	35-90 psi	50-90 psi
		Sealing Pressure (SOT & TSOT packages)			Start of the shift & Every set-up	N/A	N/A	50 ± 10 psi	N/A	N/A	50-90 psi
		Sealing Time			Start of the shift & Every set-up	10-50ms	50-200ms	50-200ms	50-200ms	0.03-0.10 sec	50-200 ms
5	Lead Parameter	Lead Variance (Tube Input)		In-pocket	Every set-up	N/A	N/A	1.5mils	N/A	N/A	N/A
		Lead Variance (Bowl Input)				N/A	N/A	4 mils	N/A	N/A	N/A
		Lead Span	3D Leads Inspection/ Inpocket	Minimum & Maximum Offset	Every set-up	N/A	N/A	N/A	N/A	N/A	+/-0.5 mils
6	Continuous Reeling	Total Set (R13) LFCSP or LCC 3x3/4x4/5x5	Reel 100	Start of the shift & Every set-up	N/A	N/A	N/A	N/A	N/A	23	N/A
			Reel 250	Start of the shift & Every set-up	N/A	N/A	N/A	N/A	N/A	14	N/A
			Reel 500	Start of the shift & Every set-up	N/A	N/A	N/A	N/A	N/A	9	N/A
		Total Set (R13) LFCSP or LCC 6x6	Reel 100	Start of the shift & Every set-up	N/A	N/A	N/A	N/A	N/A	19	N/A
			Reel 250	Start of the shift & Every set-up	N/A	N/A	N/A	N/A	N/A	11	N/A
			Reel 500	Start of the shift & Every set-up	N/A	N/A	N/A	N/A	N/A	6	N/A
7	Binning Set-up	Mark			Start of the shift & Every set-up	N/A	N/A	N/A	N/A	Bin 1	N/A
		Orientation			Start of the shift & Every set-up	N/A	N/A	N/A	N/A	Bin 1	N/A
		Lead			Start of the shift & Every set-up	N/A	N/A	N/A	N/A	Bin 2	N/A
		PVI / USO			Start of the shift & Every set-up	N/A	N/A	N/A	N/A	Bin 3	N/A

