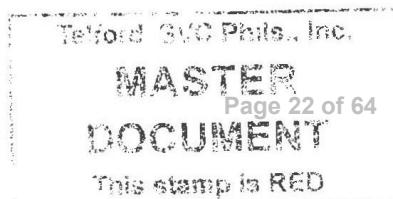


Attachment B2
Positive Control Log Matrix for Turret Based Machine

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	Acceptance 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
		Template Shift	In-track & In-pocket	Pixel	Every set-up	N/A	N/A	N/A	15-25 pixel	N/A	N/A
2	Orientation	Top Mark/ In-pocket	Acceptance Score	Every set-up	N/A	90%	N/A	80%	95%	N/A	N/A
			Rejection Score	Every set-up	N/A	80%	N/A	70%	N/A	N/A	N/A
			Method/ Turret Bottom Vision Set-up	Acceptance Score	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	N/A
			Acceptance Score	Every set-up	N/A	70%	N/A	70%	N/A	N/A	N/A
			Top Mark/ In-pocket	Rejection Score	Every set-up	N/A	60%	N/A	60%	N/A	N/A
		Method	Acceptance Score	Every set-up	N/A	N/A	N/A	Correlation	N/A	N/A	N/A
			Rejection Score	Every set-up	N/A	N/A	N/A	N/A	95%	N/A	N/A
		Vision Table	Acceptance Score	Every set-up	N/A	N/A	N/A	N/A	95%	N/A	N/A
		Bowl / Tube Input - Unit Orientation (Capture Image in Tape) In-pocket	C1, C2, C3 & C4 	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,C3,M1	
3	Taping Assembly	Fixed Region		Every set-up	N/A	N/A	Enable	N/A	N/A	Enable	
		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	23	N/A	
			Reel 250	Start of the shift & Every set-up	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	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	19	N/A	
			Reel 250	Start of the shift & Every set-up	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	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	



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 Page 22 of 64
 This stamp is RED