FUJIKURA FIBER OPTICS VIETNAM LTD. TECHNICAL REPORT Form: 4-Pr-007-4-Fo-0006 Version: 02 Page: 1/5 4-Pr-007-4-Fo-0006/2 Record No (get by EIC program): 4-Pr-007-4-Fo-0006-5-RC-0014 Report title: Technical report for new rewinding string machine Prepared by: VuiNV Checked by: TuanHT Advisor (if any) Approved by: ThongHN Advisor (if any)

I. Background:

In order to increase demand of rewinding string process in Cleaner line.

--> PTE test and apply Multiplex string to machine: N24MPM0528

II. Conclusion:

- Machine specification:
- + Material: STR0002
- + Speed of machine: 3000 rpm
- + Length: 6500 ± 200 mm and 8500 ± 200 mm
- + Tolerance: ± 200 mm, check by measuring length after rewinding by calibrated ruler.
- + Material: THR0018
- + Speed of machine: 850 rpm
- + Length: 7400 ± 100 mm
- + Tolerance: ± 100 mm, check by measuring length after rewinding by calibrated ruler.
- + Visual checking: String no tangle, string clean follow 4-QC-221-9-PS-012-0008
- -> After test with actual product and all products meet the product requirement .

We can this machine to mass production.

III. Analysis (Yield ratio, Productivity, Cpk, Process Reliability, product's reliability...):

1. Machine requirement

Input:

Application scope: for material THR0018

Voltage: Auto volt (110/220 VAC)

Output:

Length: $6500 \pm 200 \text{ mm}$, $8500 \pm 200 \text{ mm}$, and $7400 \pm 100 \text{ mm}$

Visual checking: String no tangle, string clean follow 4-QC-221-9-PS-012-0008

PTE CONTROLLED

2. Design concept

Cretia	Image	Content		
Overall image				
HMI monitor	Com Too hard can cher the region of the state of the stat	Use HMI to improve user experience, faster setup, and display more information		
Length determine	Encoder	Use encoder to determine length of string		
Tension of string	Magnetic brake	Use magnetic brake to maintain the tension of string		
Multi-channels	Choir foat hang can chish Nectorous as the Nation of the N	Add separate channels for each range of length of products> When change product, OP just need to choose on HMI		
Length check function	Photo-Sin (5500) and Capa respective Scalars (550) and Capa respective Scalars (550) and Capa respective Scalars (550) and Capa des Grace (5, 200) and Capa	Add length check function to HMI to alarm OP when Non-comfirming event occur.		

4. Test result

a. Initial setting

Material: STR0002 Speed: 3000 (rpm)

Value of magnetic brake: 1N

Setting for specification: 6500 ± 200 (mm), 8500 ± 200 (mm)

Material: THR0018 Speed: 850 (rpm)

Value of magnetic brake: 2N

2

Setting for specification: 7400 ± 100 (mm)

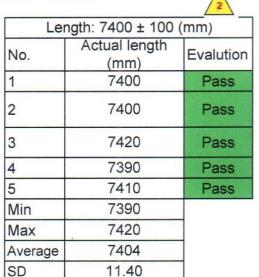
b. Data

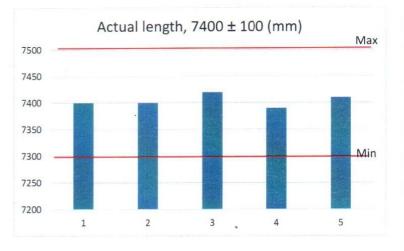
Len	gth: 6500 ± 200	(mm)	
No.	Actual length (mm)	Evalution	
1	6600	Pass	
2	6600	Pass	
3	6640	Pass	
4	6620	Pass	
5	6570	Pass	
Min	6570		
Max	6640		
Average	6606		
SD	· 26.08		

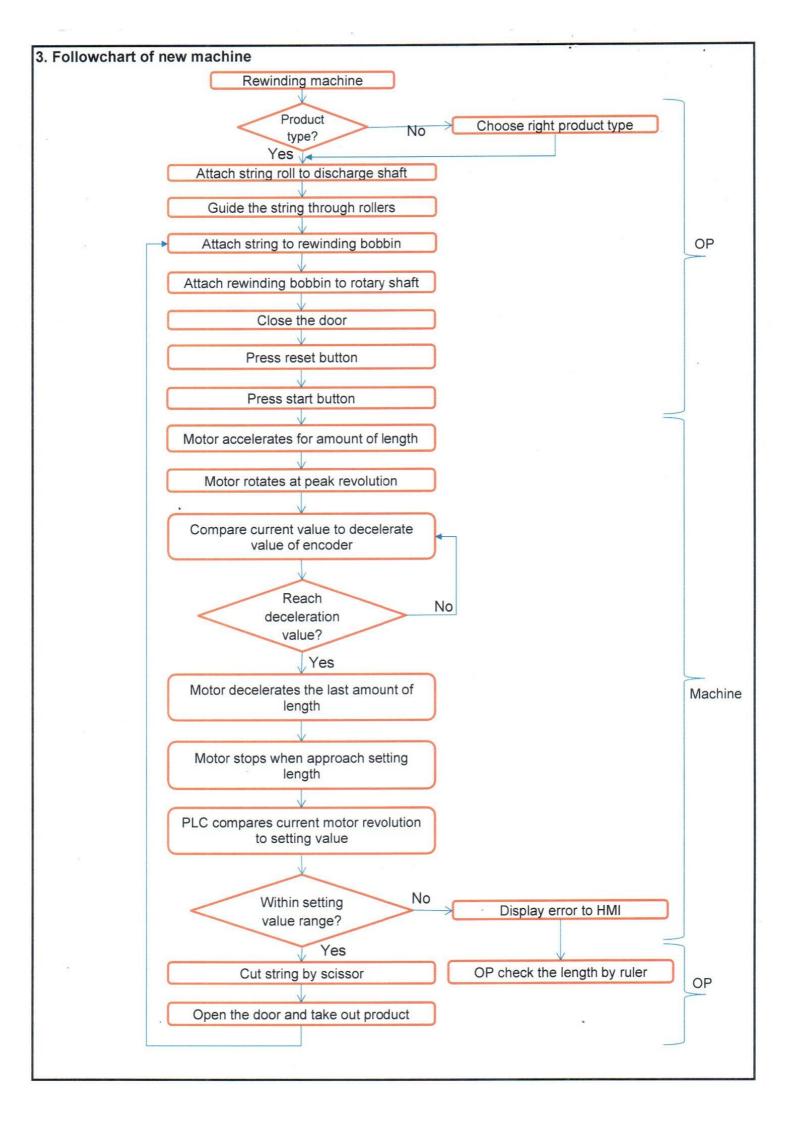
	, , , , , ,		6500 ±	 Max
5700 —				
5650				
5600				
5550		-		
5500				
5450	-			
5400				
5350				Min
5300 -			-	
5250				
5200		18		

Length: 8500 ± 200 (mm)				
No.	Actual length (mm)	Evalution		
1	8600	Pass		
2	8620	Pass		
3	8630	Pass		
4	8620	Pass		
5	8620	Pass		
Min	8600			
Max	8630			
Average	8618			
SD	10.95			

8700 -	A Supplied and a Part of the Control	0 ,	SERVICE CO.	200 (mn	Max
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8350					Min
8300 -					
8250					
8200					







 IV. Appendix standardization (revises - PTE will make WI and CS for a - PRE will make 4M change and 	pply.	
V. Others:		
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j.		
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