FUJIKURA FIBER OPTICS VIETNAM LTD.					
N.	TECH	INICAL REP	ORT		
Form: 4-Pr-007	7-4-Fo-0006	Version: 02	Page: 1/4	4-Pr-00	7-4-Fo-0006/2
Record No (get by EIC p	rogram): 4-Pr-007-4-F	Fo-0006-5-RC-001	14	Date:	19-Aug-2024
Report title: Technical re	port for new rewinding	Singleplex string	g machine		
Prepared by: VuiNV	Checked by: Tuank	27 Advisor (if any)	ed by Tech		oved by: ThongHN
I. Background:					/ //

# 1. Current

In order to increase demand of rewinding string process in Clearner line for Singleplex product --> PTE make a new rewinding machine

#### 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.
- + 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 STR0002

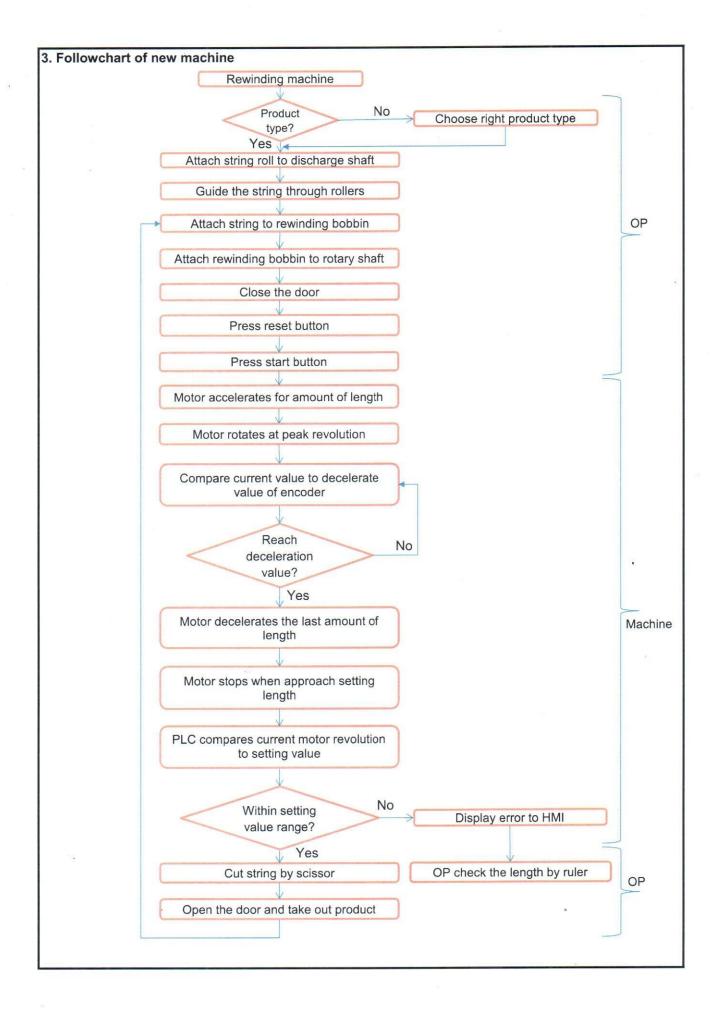
Voltage: Auto volt (110/220 VAC)

Length: 6500 ± 200 mm and 8500 ± 200 mm

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

Overall image		
HMI monitor	Chon Insi hang can chey can	Use HMI to improve user experienc setup, and display more information
Length determine	Encoder	Use encoder to determine length of str
Tension of string	Magnetic brake	Use magnetic brake to maintain the testring
Multi-channels	Chan feel long can chiab was as barg any as last lang to the start of	Add separate channels for each rar length of products> When change product, OP just choose on HMI
Length check function	Chevida (500) and Low Singleton 2 to 1 to	Add length check function to HMI to OP when Non-comfirming event oc

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### 4. Test result

# a. Initial setting

Machine: N24MPM0528 Speed: 3000 (rpm)

Value of magnetic brake: 1N

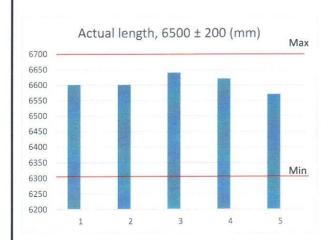
Setting for specification: 6500 ± 200 (mm) and 8500 ± 200 (mm)

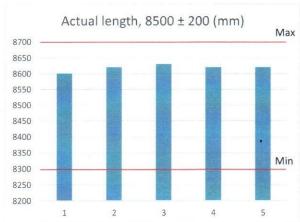
Material: STR0002

# b. Data

Length: 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			

Len	igth: 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	1	
Average	8618	1	
SD	10.95	1	





# IV. Appendix standardization (revised quality documentation):

- PTE will make WI and CS for apply.
- PRE will make 4M change and initial control for mass production.

# V. Others:

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