

Fujikura Fiber Optics Vietnam Ltd.(FOV)

**Training Textbook: 000-1-TT-0012**

**Phiên bản: 1**

# **PRODUCTION LINE INFORMATION FAST CONNECTOR PRODUCTS**

# PRODUCT DESIGN

## ■ Product's Concept:

- ✓ Fast connect: Optimize install time for end user
- ✓ Easy for installing with attached accessories
- ✓ Flexible with any wire length

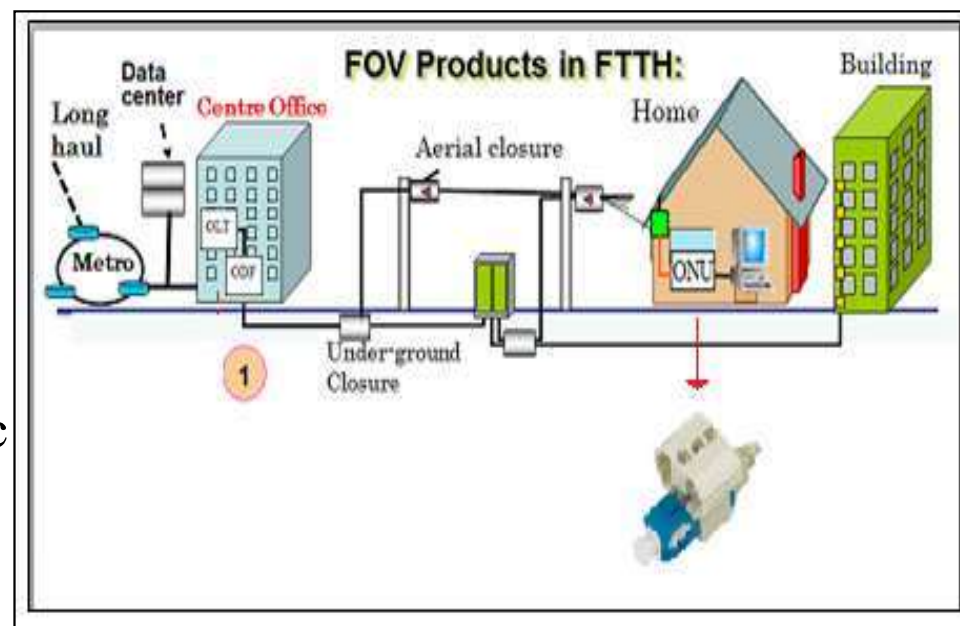


## ■ Application:

- ✓ Connections at the desk for LAN
- ✓ Direct equipment termination
- ✓ FTTH applications
- ✓ Repair and replacement requirements
- ✓ Equipment test leads

## ■ Advantage of FOV

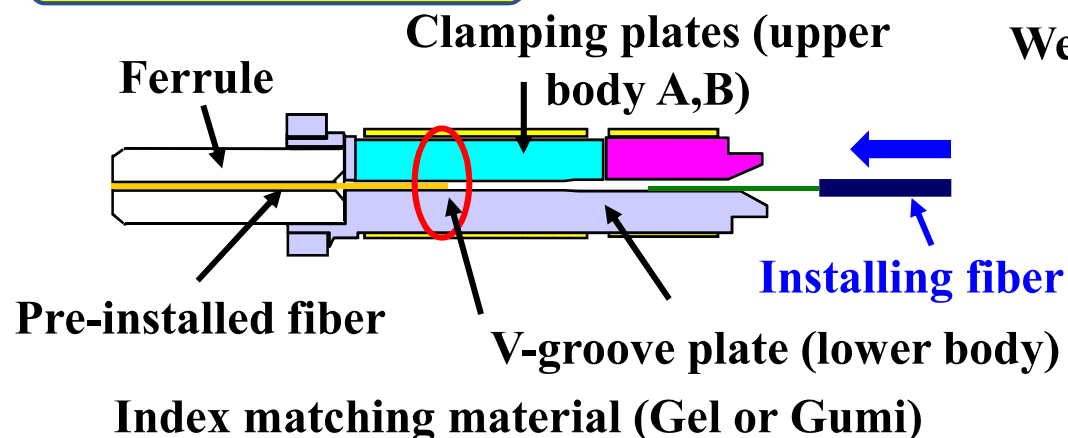
- ✓ It realize low cost to develop domestic supplier and Kaizen activity by GFPS
- ✓ FOV can get good support from CNC



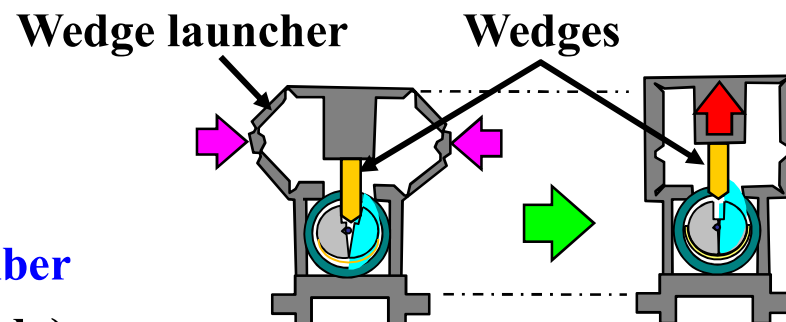
# PRODUCT DESIGN

## ■ Design Concept:

### Cross Section



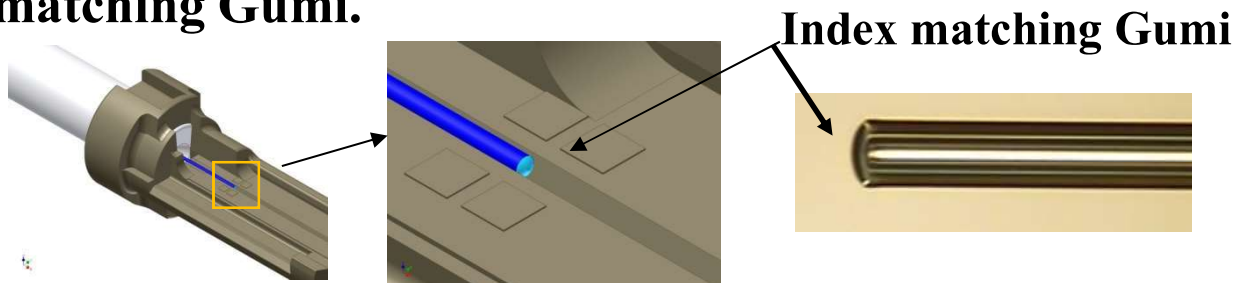
### Splice principle



By wedge is pulled out, to complete the fiber clamp.

## ■ New Technology:

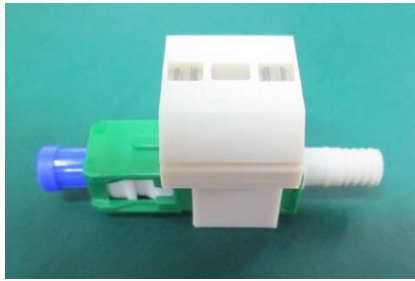
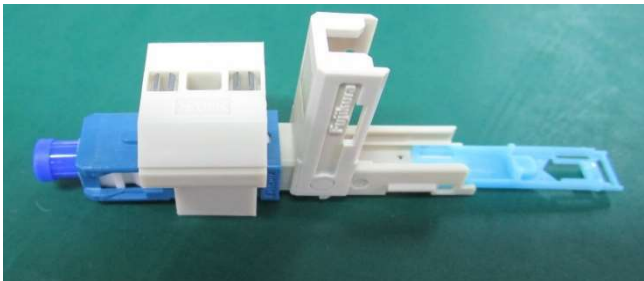
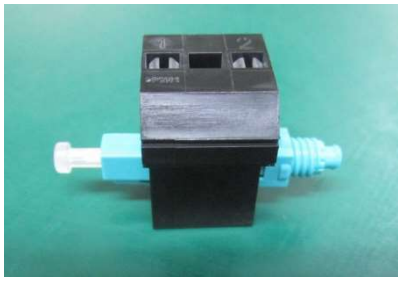
Normal FAST uses Index matching gel. For high performance, it uses Index matching Gumi.



Gumi application machine

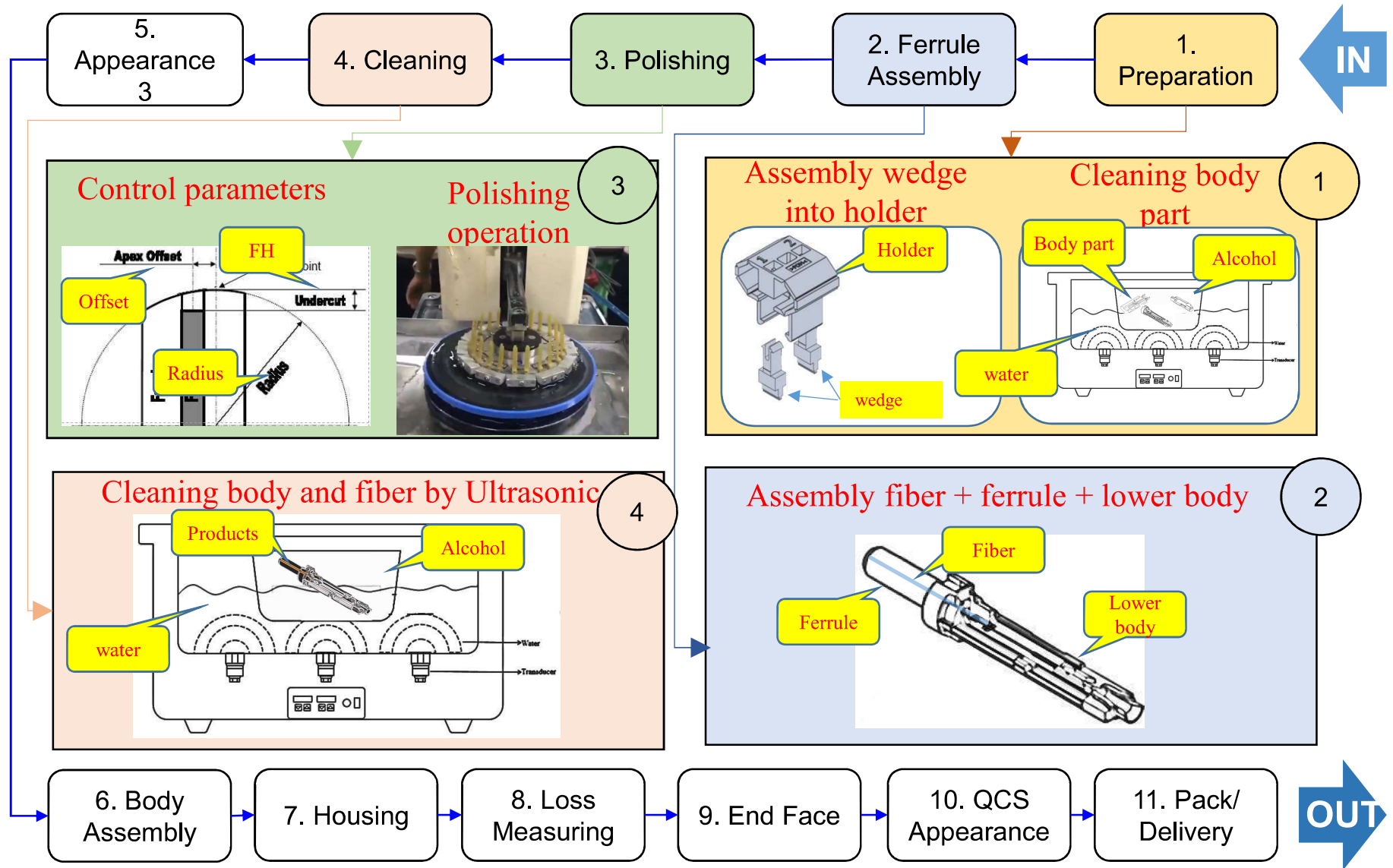
# GENERAL INFORMATION

Main Customer	CNC/AFL	Developed by	CNC
Final Customer	NTT, VNPT, Viettel, Huawei	Key Technology	High Precision Mold

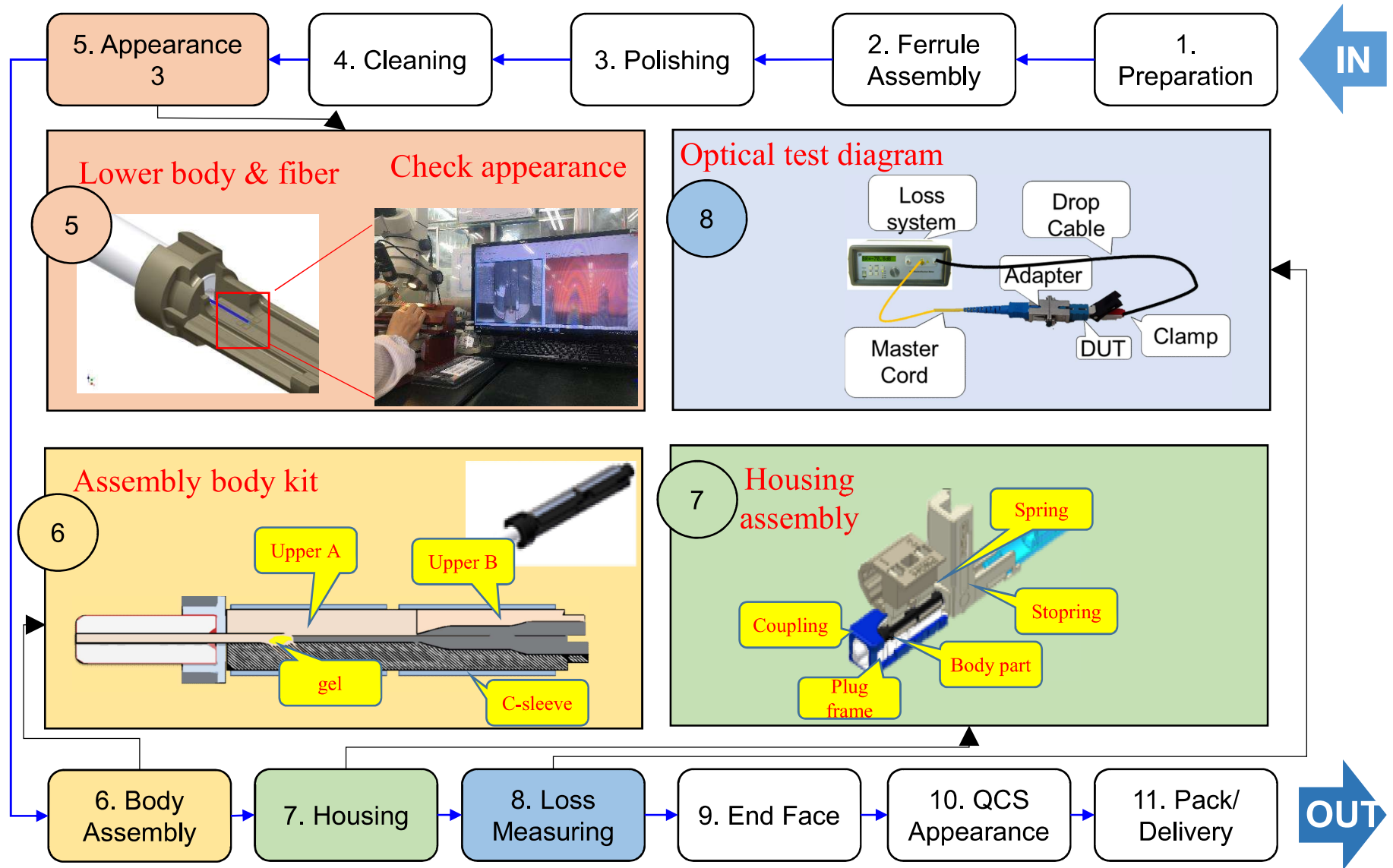
View			
Product	FAST-SC-APC-SM	FAST-SC-SM-0.25/GT	FAST-LC-10G-09

	2016	2017	2018	2019		
Max capacity (pcs/day)	35,000	42,000	49,000	54,000 <Limit by Optical Inspection>		
				SC /APC	SC /UPC	LC /UPC
				18,000	20,000	16,000
Plan (pcs/day)	-			5,000	19,000	10,000
Man Power (direct operator)	-			256 (OP)	Shift 1	164
					Shift 2	92

# MANUFACTURING PROCESS

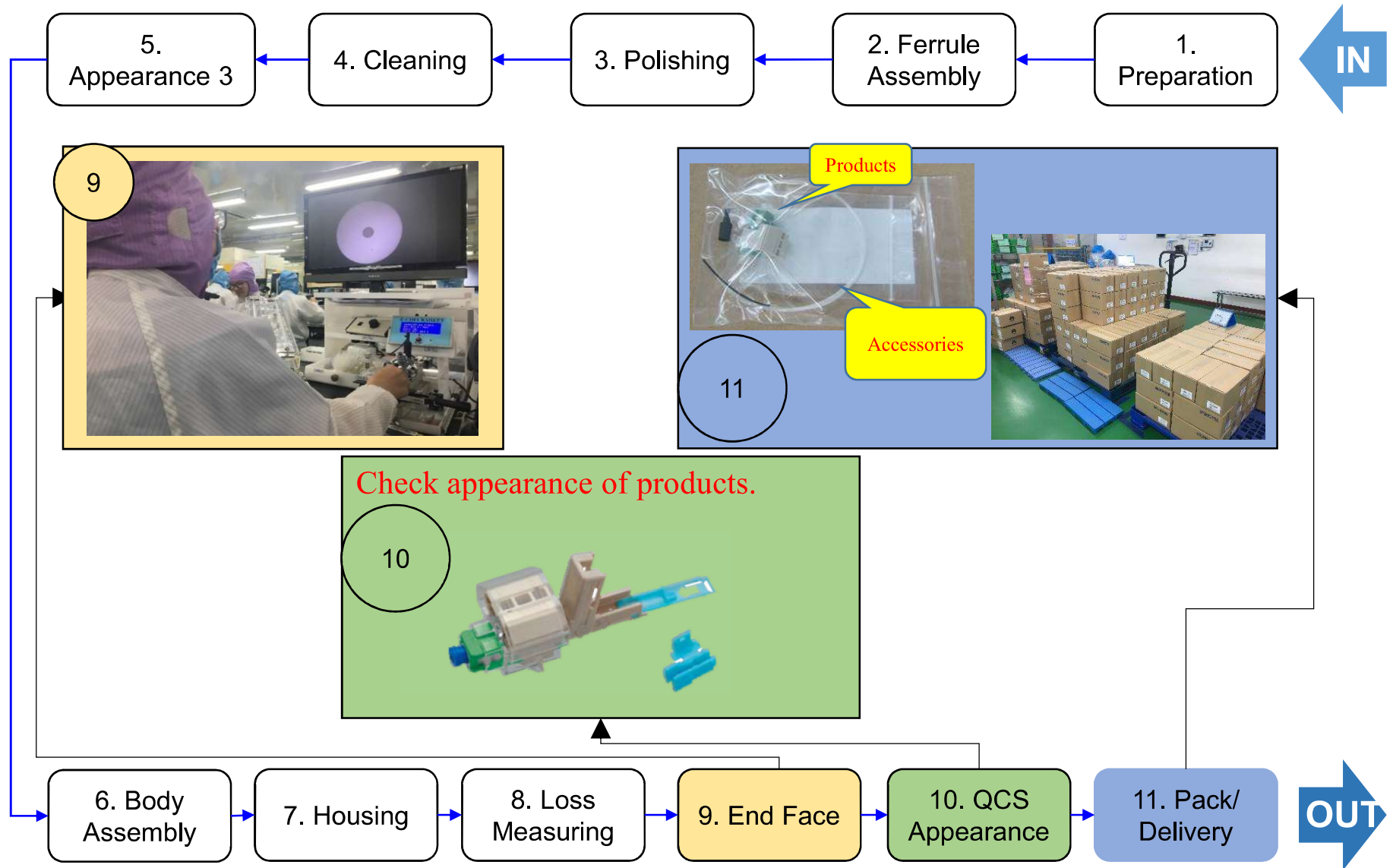


# MANUFACTURING PROCESS





# MANUFACTURING PROCESS



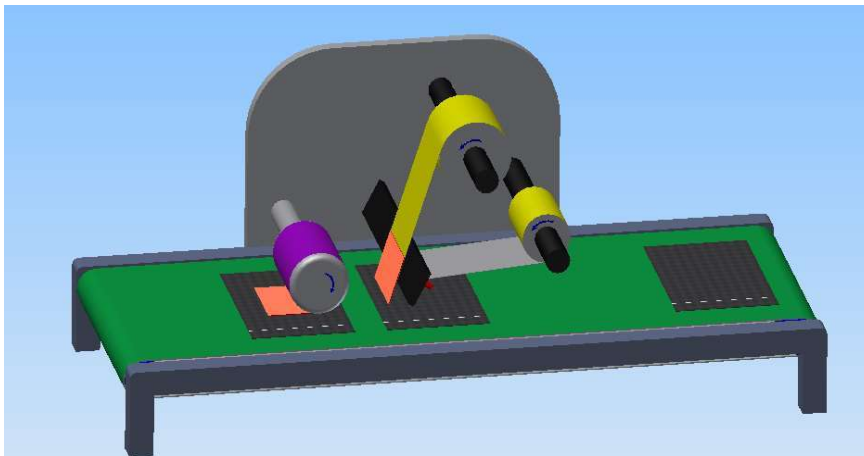
# REMARKABLE KAIZEN

## ■ Applied auto machine for attaching label at preparation line

**【BEFORE】** attach label into PE bag by manual



**【AFTER】** Applied auto machine



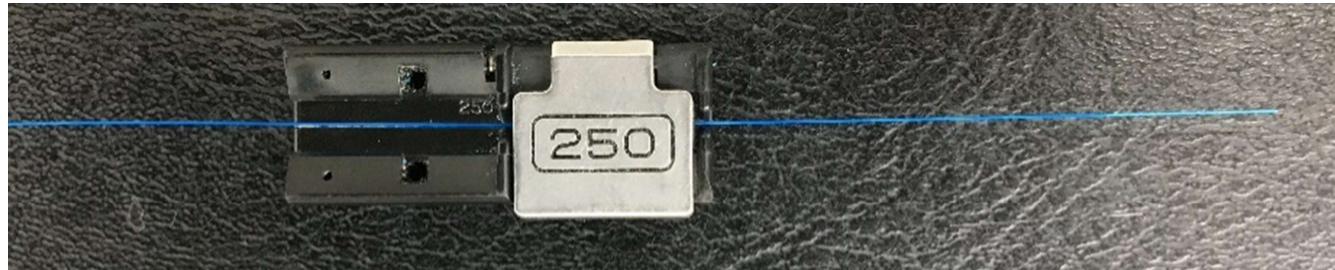
- ▶ Investment cost: 700 USD
- ▶ ROI: 3.3 months
- ▶ Save: 2 OP/day (Plan 20k/day)



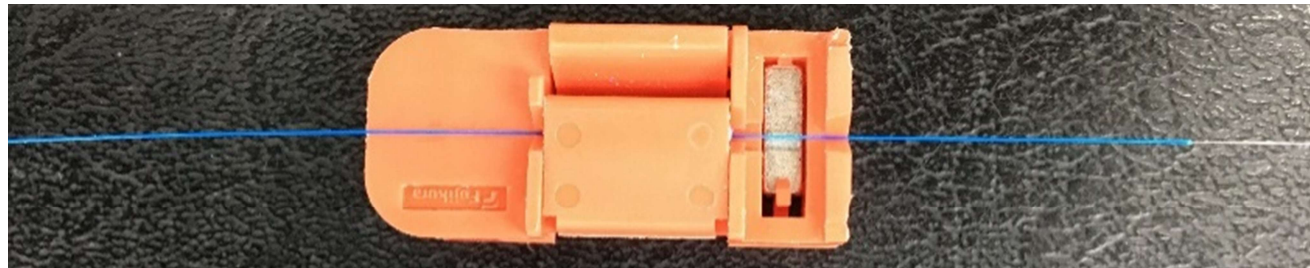
# REMARKABLE KAIZEN

- Change Holder 250 to FAS SOCKET Holder at Ferrule Assembly process:

**【BEFORE】** Use Holder 250 to clamp fiber at Ferrule Assembly process



**【AFTER】** Modify FAS SOCKET Holder to use for Ferrule Assembly

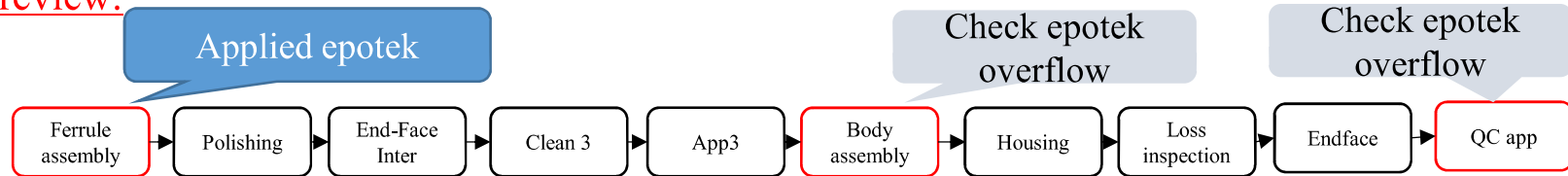


▶ Reduce consumption cost: 785 USD/month

# REMARKABLE KAIZEN

## ■ Modify CT-30 for Ferrule Assembly process to reduce LC Huawei defect:

Process review:



Step	Action
1	Apply epotek to ferrule by machine
2	Apply stycast to lower body
3	Assemble ferrule to lower body
4	Fiber cutting
5	Insert fiber
6	Clean ferrule by dusper
7	Push fiber in 4marks and app2
8	Apply epotek to ferrule tip
9	Heating
10	Ringauge checking

Cause defect

Why we need applied epotek after insert fiber?



Because: fiber push epotek from ferrule move out → lack of epotek



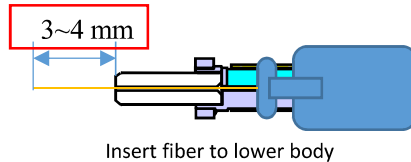
**Applied epotek for polishing**  
It cause defect epotek attach.

**How to cancel applied epotek after insert fiber?**

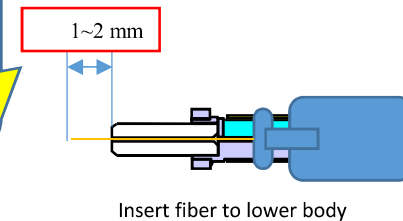
# REMARKABLE KAIZEN

## ■ Modify CT-30 for Ferrule Assembly process to reduce LC Huawei defect:

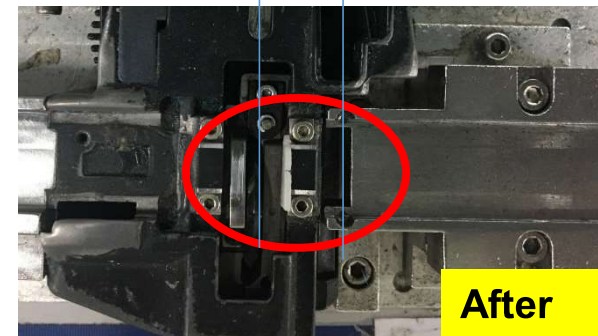
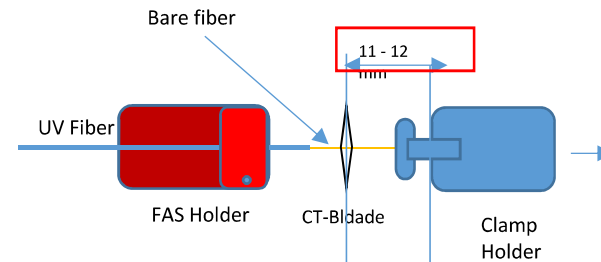
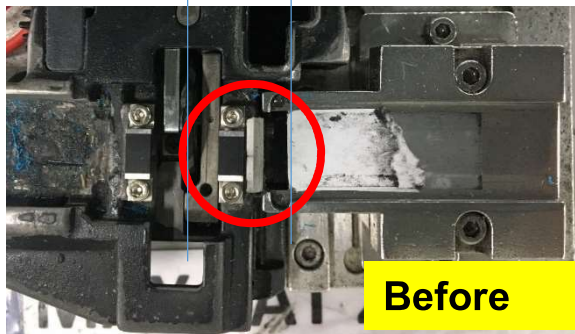
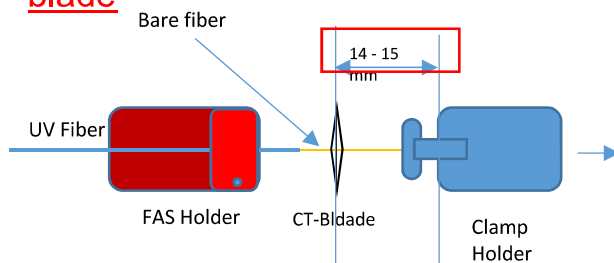
### Analysis: Reducing fiber protrusion



With this protrusion, no need applied epotek



### Action: Modify CT-30 to reducing distance of Clamp holder to blade



+ We can save \$985/month (plan 11k/day)  
+ Defect reducing: -48%

# REMARKABLE KAIZEN

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- Modify CT-30 for Ferrule Assembly process to reduce LC Huawei defect:



# THANK YOU FOR YOUR ATTENTION

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Ngày	Người thay đổi	Phiên bản	Mô tả		Lý do thay đổi	Người yêu cầu thay đổi
			Nội dung cũ	Nội dung mới		
11/10/2024	TyBH	1		Ban hành mới	Tách code khóa học CPC000000000574	ĐẹpNV- HRM Executive