

*Since* **1976**

Introduction Report  
For Further Customer

**UNION**  
INTRODUCTION

**2016**

**“Build a Bridge to Future”**



## Disclaimer

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This Instruction has been created for the convenience and understanding with our customers.

(It based on UNION 2015's business results and manufacturing environment, a general situation the workplace, etc.)

We will promptly reply to you after NDA if your different request or add request.

It happens to fluctuate our products and equipment held by status according to market conditions.

This introduction thereto, intended solely for the named recipient(s), and may contain information that is strictly confidential and may be legally privileged. Any unauthorized review, copying, disclosure, or distribution of any information contained in or attached to this transmission is strictly prohibited and may be against the laws.

*Since 1976*

Based on the results of **40 years,**  
As for the customers and **100 years** Big plan,  
Make **Global EMS** company.

In 2016,

The UNION will grow with all our customer and venders.

And we will spare no efforts in order to go out into  
the bigger company who come to the forefront.

We hope your sustained interest and cheering.

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# 01

## Company overview Report

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ABOUT US

## Company Overview

We are **Global No1** company who supply **Best electronics unit** based on **EMS** process.

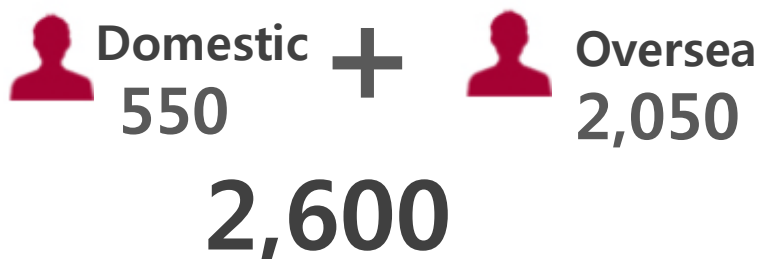
<b>Company</b>	UNION CO.,LTD.( <a href="http://www.union.co.kr">www.union.co.kr</a> )
<b>C.E.O</b>	Kang Dae Chang
<b>Establishment</b>	06.Jul.1976
<b>Business type</b>	Manufacturing
<b>Credit Ratings</b>	BBB- (NICE DNB) / “Normal”
<b>Address</b>	17, Charyong-ro 14beon-gil, Uichang-gu, Changwon-si, Gyeongsangnam-do, Korea
<b>Business Area</b>	KOREA(Chang Won, Chilseo, Chunan, Suwon) CHINA(Tianjin,Dongguan, Shanghai) VIETNAM(Vunh Phuc)
<b>Main Product</b>	Mobile FPCA, Home appliance Display module,  Digital DOORLOCK,  Network module, LED lighting PBA etc



## Section 1

### Employees

(Based on Dec. 2015)



### Growth indicator

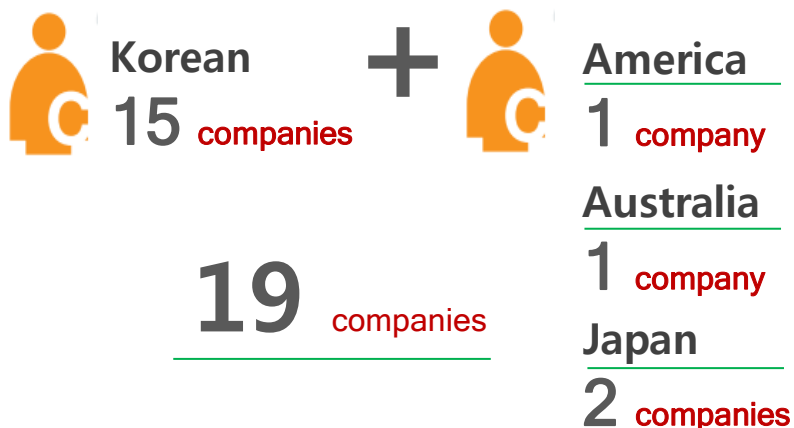
(Based on 2015)



Domestic	136 million \$
Overseas	310 million \$
<b>Total</b>	<b>447 million \$</b>

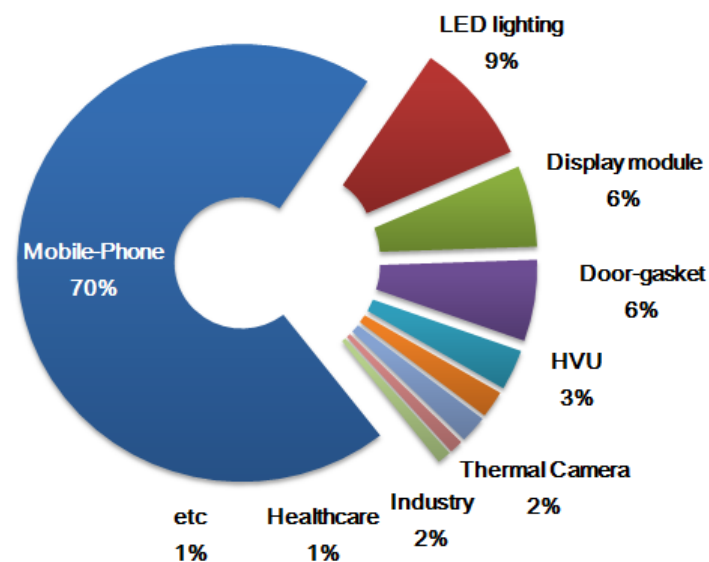
### Customer Status

(Based on Dec. 2015)



### Sale's APPLICATION

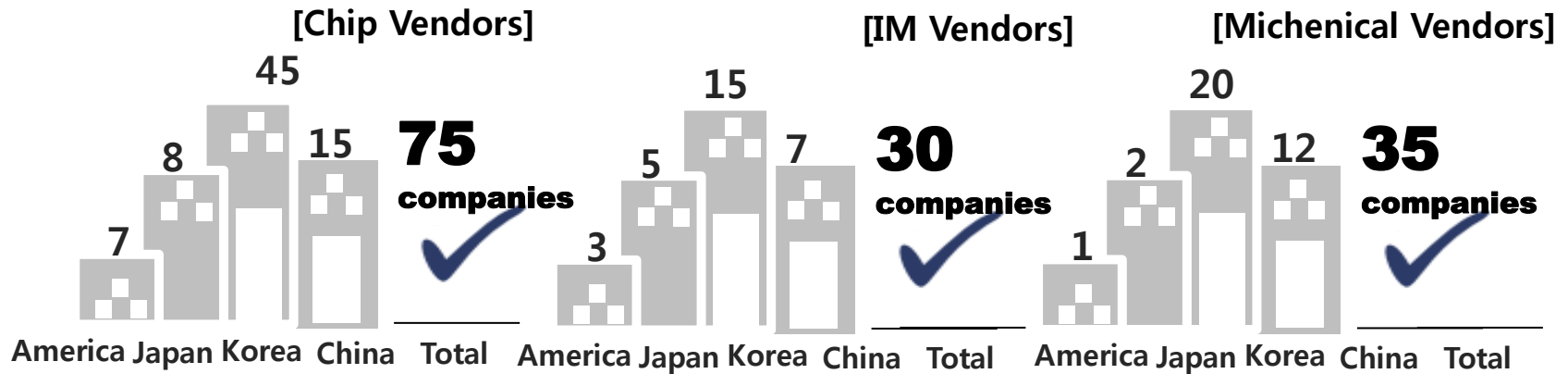
(Based on 2015)



## Section 2

### Global partner status

Win-Win  
Growth with  
Business  
Partners

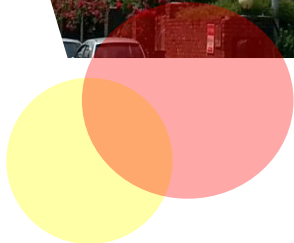


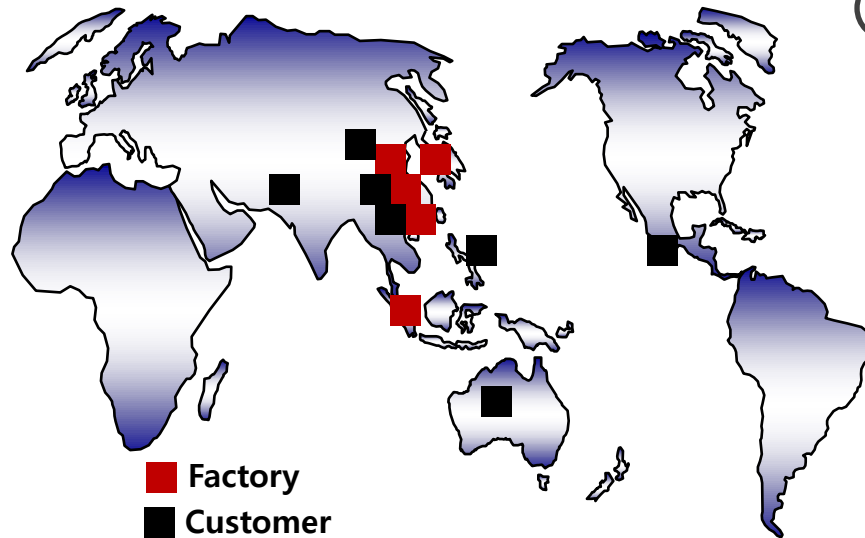


1976~

1985~  
19881996~  
19992000~  
2014

- 1976.07 Establishment UNION ELECTRONICS CO.,LTD
- 1976.09 Production of Door gasket for refrigerator with LG
- 1979.03 Production of Transformer for Inverter
- 1985.01 UNION Incorporated
- 1985.11 Establishment NAMKYUNG CO.,LTD(KOR)
- 1987.03 Establishment DONGJIN CO.,LTD(KOR)
- 1988.05 Production of CAMERA Ass'y with SAMSUNG
- 1996.05 Establishment of SHANGHAI UNION factory(CN)
- 1997.07 Establishment of TIENJIN POONGKWANG factory(CN)
- 1998.06 Production of inverter transformer of LCD
- 1999.10 Production of CCD CAMERA Ass'y with SAMSUNG
- 2000.02 Establishment of SUWON factory(KOR)
- 2000.03 Production of LCD Module for mobile phone with SAMSUNG
- 2003.08 Establishment YUKWANG factory(CN)
- 2006.09 Establishment YUSEONG factory(CN)
- 2009.07 Production of PCM for Note PC with SAMSUNG
- 2011.09 Product LED FPL of ODM
- 2013.05 Establishment of CHEONAN factory(KOR)
- 2014.02 Production NFC Module



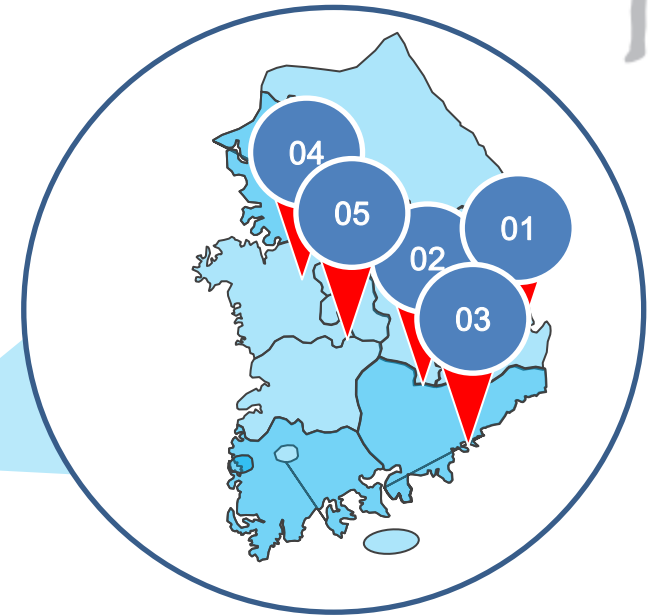
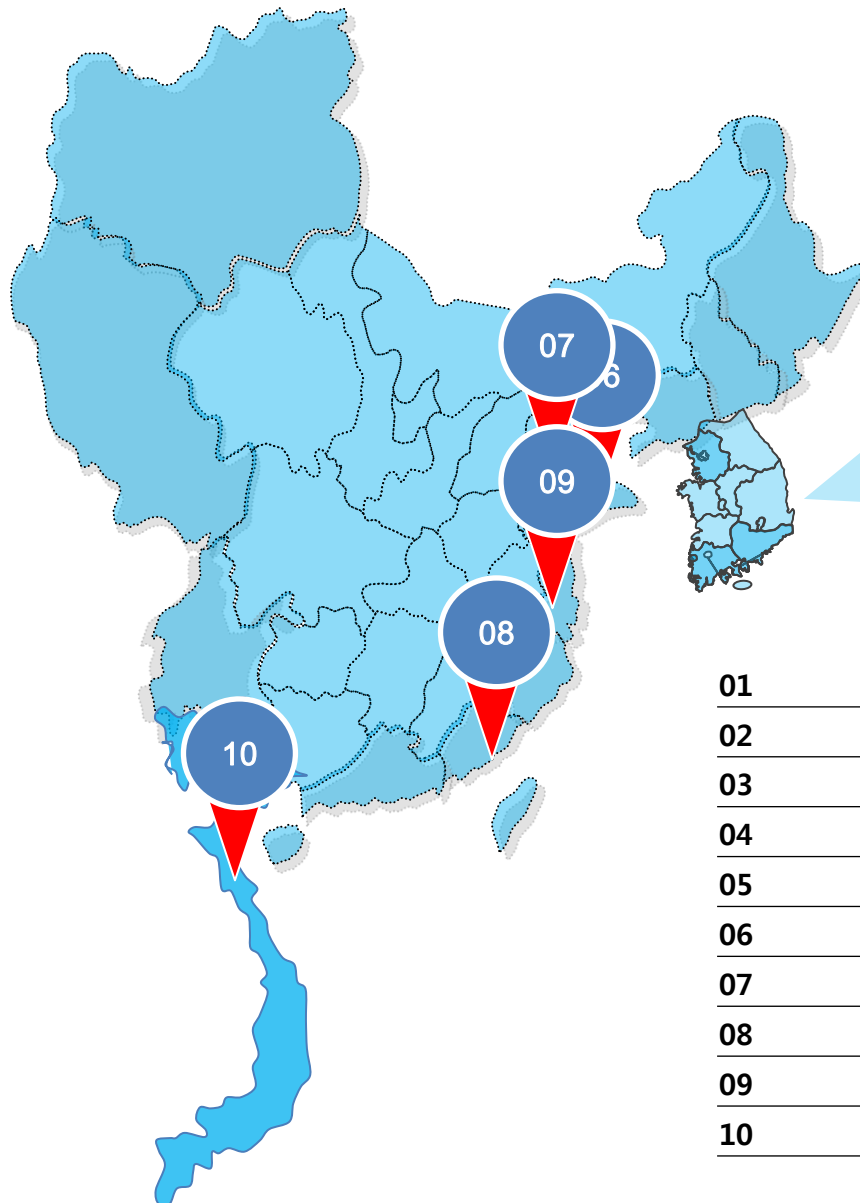


## 1976 y~

- 1998. 06 LCD TV Inverter transformer Biz
- 1998. 01 TFT LCD BLU Biz
- 1995. 08 Camera Flash Shutter & Block Biz
- 1992. 12 SAMSUNG Techwin CCD Biz
- 1988. 10 SAMSUNG Thales Film Camera Biz
- 1986. 05 Japan Minota Camera stobe Biz
- 1982. 12 Silicon & Rubber Biz
- 1979. 03 Japan Tokyo Coil Switching Trans Biz
- 1976. 09 DoorGasket Biz

## 2000 y~

- 2015. 09 Established VINA UNION
- 2015. 07 Built-in SMPS Biz
- 2015. 06 Fingerprint Module PBA Biz
- 2014. 06 SmartPhone OIS FPCA Biz
- 2014. 02 NFC Module Biz
- 2013. 08 Australia Gateway Biz
- 2013. 07 Contactless Charger PBA Biz
- 2013. 04 Japan Camera Lenz PBA Biz
- 2012. 11 Remote control for a massage chair PBA Biz
- 2011. 09 LED Lighting Biz
- 2011. 04 Cordless Power tools Battery Pack Biz
- 2009. 10 SmartPhone FPCA Biz
- 2009. 07 Note PC PCM Biz
- 2009. 04 Canada TTI Wireless Card Reader Biz
- 2008. 09 Phone Key Pad Module Biz
- 2008. 07 Digital Doorlock Asm Biz
- 2006. 07 Japan Cannon Camera Flash Biz
- 2000. 03 Phone LCD Module PBA Biz



01	KR	Chang won	Headquarter
02	KR	Chang won	Chanwon FA
03	KR	Chilseo	Dongjin FA
04	KR	Suwon	Suwon FA.
05	KR	Chunan	Chunan FA.
06	CN	Tianjin	Tienjin Yuseong FA.
07	CN	Tianjin	Tienjin PoongKwang FA.
08	CN	Dongguan	Yukwang FA.
09	CN	Shanghai	Shanghai FA.
10	VIETNAM	Vunh Phuc	VINA UNION FA.

# Global Network

Build up  
Global site



Headquarter



Vietnam

8,000m<sup>2</sup>  
20,000m<sup>2</sup>

8,917m<sup>2</sup>  
8,527m<sup>2</sup>



Chang won

2,589m<sup>2</sup>  
5,734m<sup>2</sup>



Shang Hai



Suwon

3,268m<sup>2</sup>  
1,664m<sup>2</sup>

11,245m<sup>2</sup>  
18234m<sup>2</sup>



Poongkwang



Chilseo

1,589m<sup>2</sup>  
4,777m<sup>2</sup>



Chunan

8,900m<sup>2</sup>  
11,185m<sup>2</sup>

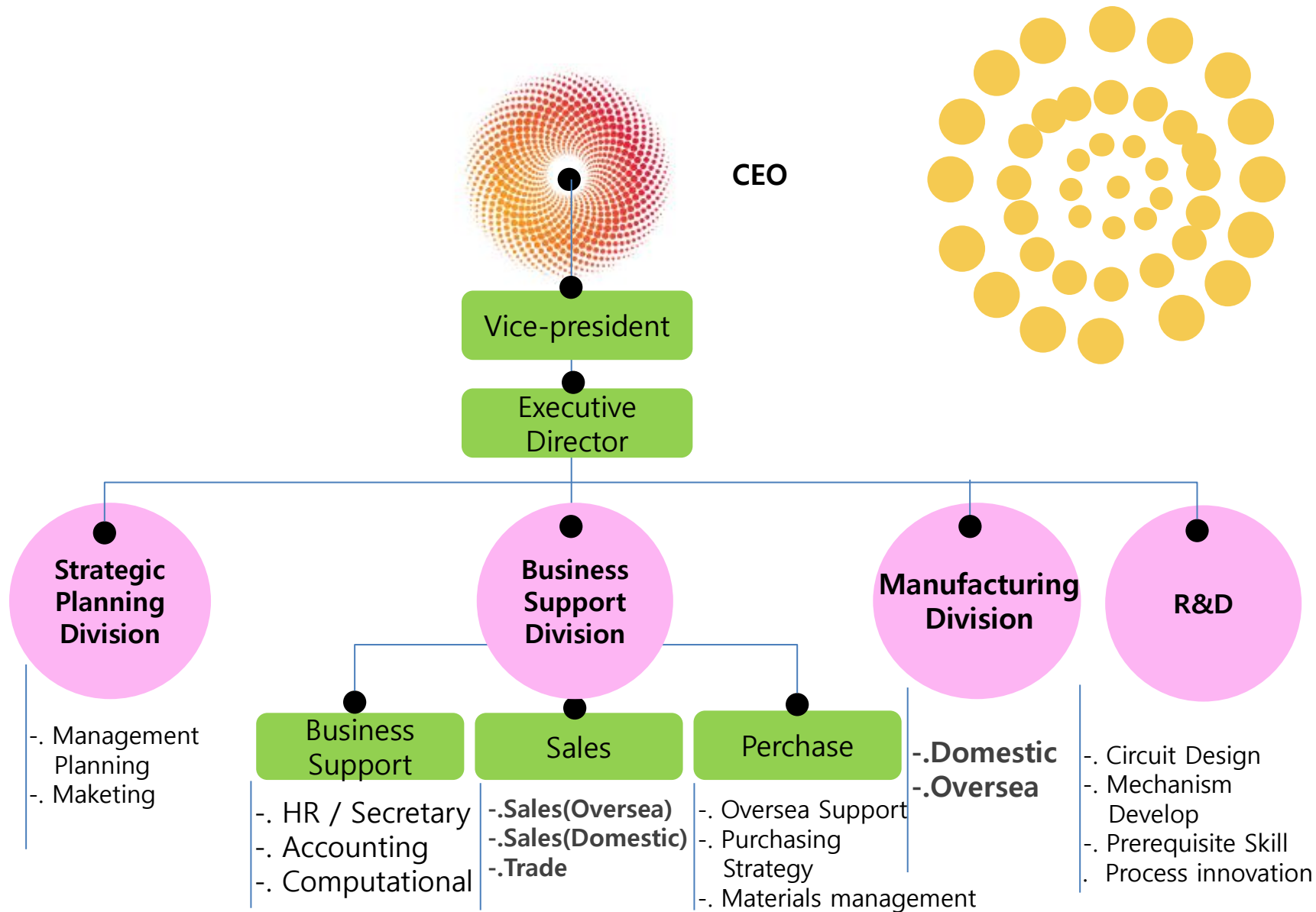


Donggaun

4,860m<sup>2</sup>  
8,488m<sup>2</sup>



Yuseong



# 02

## Company manufacturing Report

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Main Product	<b>7</b>
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Manufacturing System	<b>8</b>
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Product's Traceability System	<b>9</b>
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Manufacturing Facility	<b>10</b>
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Quality Assurance System	<b>11</b>
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Main Certification	<b>12</b>
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Manufacturing environment	<b>13</b>
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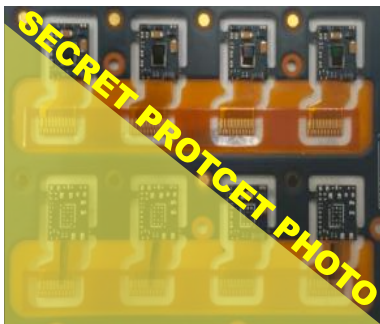
## MOBILE Phone



Name : OIS FPCA

TYPE : FPCA

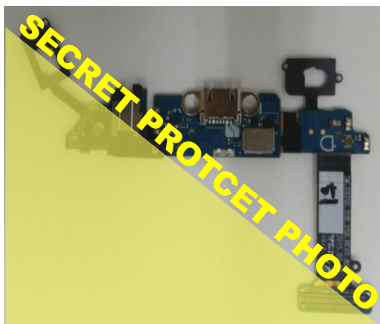
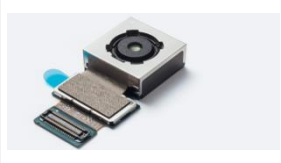
APPLICATION



Name : Actuator FPCA

TYPE : FPCA

APPLICATION



Name : USB PBA

TYPE : FPCA

APPLICATION



Name : TSP FPCA

TYPE : FPCA

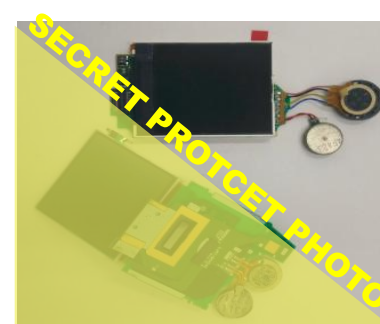
APPLICATION



Name : LCD module

TYPE : FPCA

APPLICATION



Name : LCD ASM

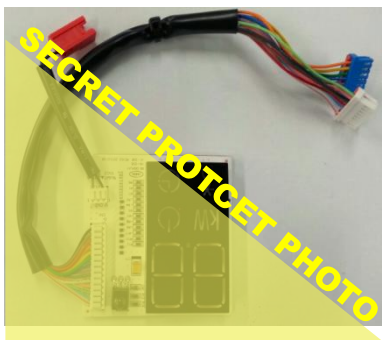
TYPE : ASM

APPLICATION





## Refrigerator Display Module



Name : Display Module

TYPE : PBA

APPLICATION



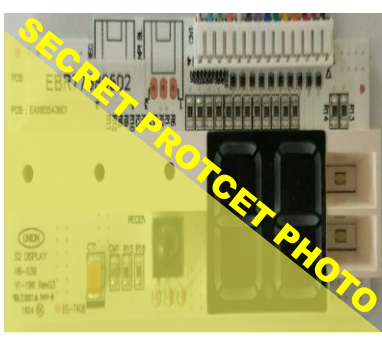
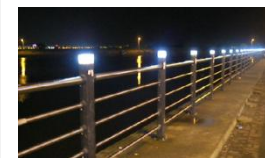
## LED Lighting



Name : LED모듈

TYPE : PBA

APPLICATION



Name : Display Module

TYPE : PBA

APPLICATION



Name : LED BAR

TYPE : PBA

APPLICATION



Name : Display Module

TYPE : PBA

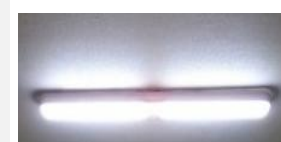
APPLICATION



Name : FPL

TYPE : ASM

APPLICATION





## Industry Circuit Board



**Name : CNC Board**

**TYPE : PBA**

**APPLICATION**



**Name : AC subdriver**

**TYPE : PBA**

**APPLICATION**



**Name : CNC Board**

**TYPE : PBA**

**APPLICATION**



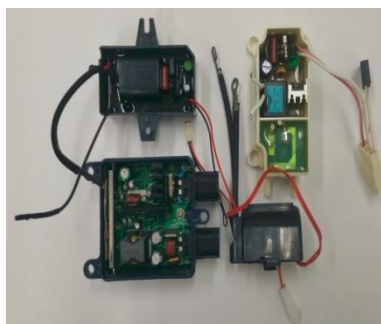
## HVU( High Voltage Unit)



**Name : Igniter**

**TYPE : ASM**

**APPLICATION**



**Name : Ozonizer**

**TYPE : ASM**

**APPLICATION**



**Name : Ionizer**

**TYPE : ASM**

**APPLICATION**



## Section 6 Main PRODUCT High light



**Name : CCD**

**TYPE : ASM**

**APPLICATION**



**Name : Bluetooth for car**

**TYPE : ASM**

**APPLICATION**



**Name : Homenetwork**

**TYPE : ASM**

**APPLICATION**



**Name : External Flash**

**TYPE : ASM**

**APPLICATION**



**Name : Battery Pack**

**TYPE : ASM**

**APPLICATION**



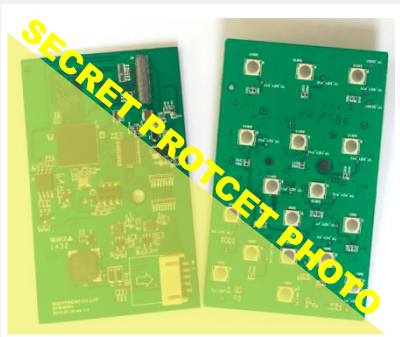
**Name : Temperature Sensor**

**TYPE : ASM**

**APPLICATION**



## Section 6 Main PRODUCT High light



**Name : Remote For  
Massager**

**TYPE : PBA**

**APPLICATION**



**Name : Camera lens PBA**

**TYPE : PBA**

**APPLICATION**



**Name : Distal Doorlock PBA**

**TYPE : PBA**

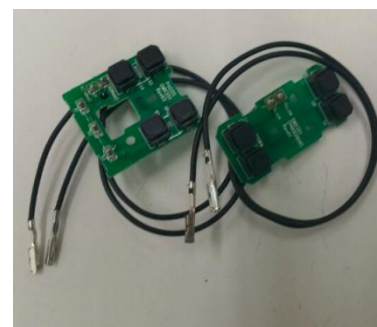
**APPLICATION**



**제품명 : Camera Strobe**

**TYPE : Module**

**APPLICATION**



**Name : Gear Shifter Knob**

**TYPE : PBA**

**APPLICATION**



**Name : FingerPrint PBA**

**TYPE : ASM**

**APPLICATION**





## Section 6 Main PRODUCT High light



**Name : Electric Scale PBA**

**TYPE : PBA**

**APPLICATION**



**Name : Rainsensor**

**TYPE : ASM**

**APPLICATION**



**Name : MissilePBA**

**TYPE : PBA**

**APPLICATION**



**Name : Network Adaptor**

**TYPE : ASM**

**APPLICATION**

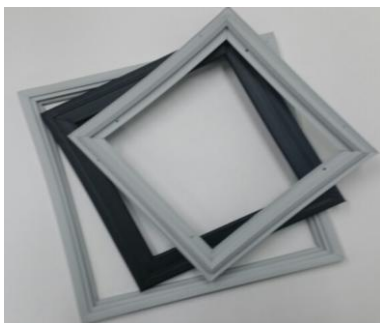


**Name : Cardleader**

**TYPE : ASM**

**APPLICATION**





**Name : Door Gasket**

**TYPE : ASM**

**APPLICATION**



**Name : Rubber Magnet**

**TYPE : ASM**

**APPLICATION**



**Name : PC COVER**

**TYPE : ASM**

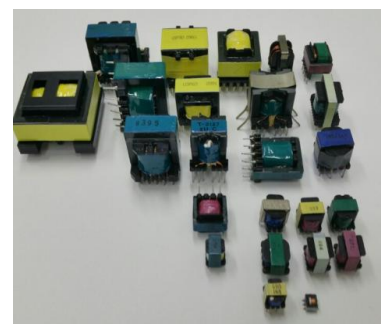
**APPLICATION**



**Name : Inverter Trans**

**TYPE : ASM**

**APPLICATION**



**Name : Switching Trans**

**TYPE : ASM**

**APPLICATION**



**Name : Solenoid**

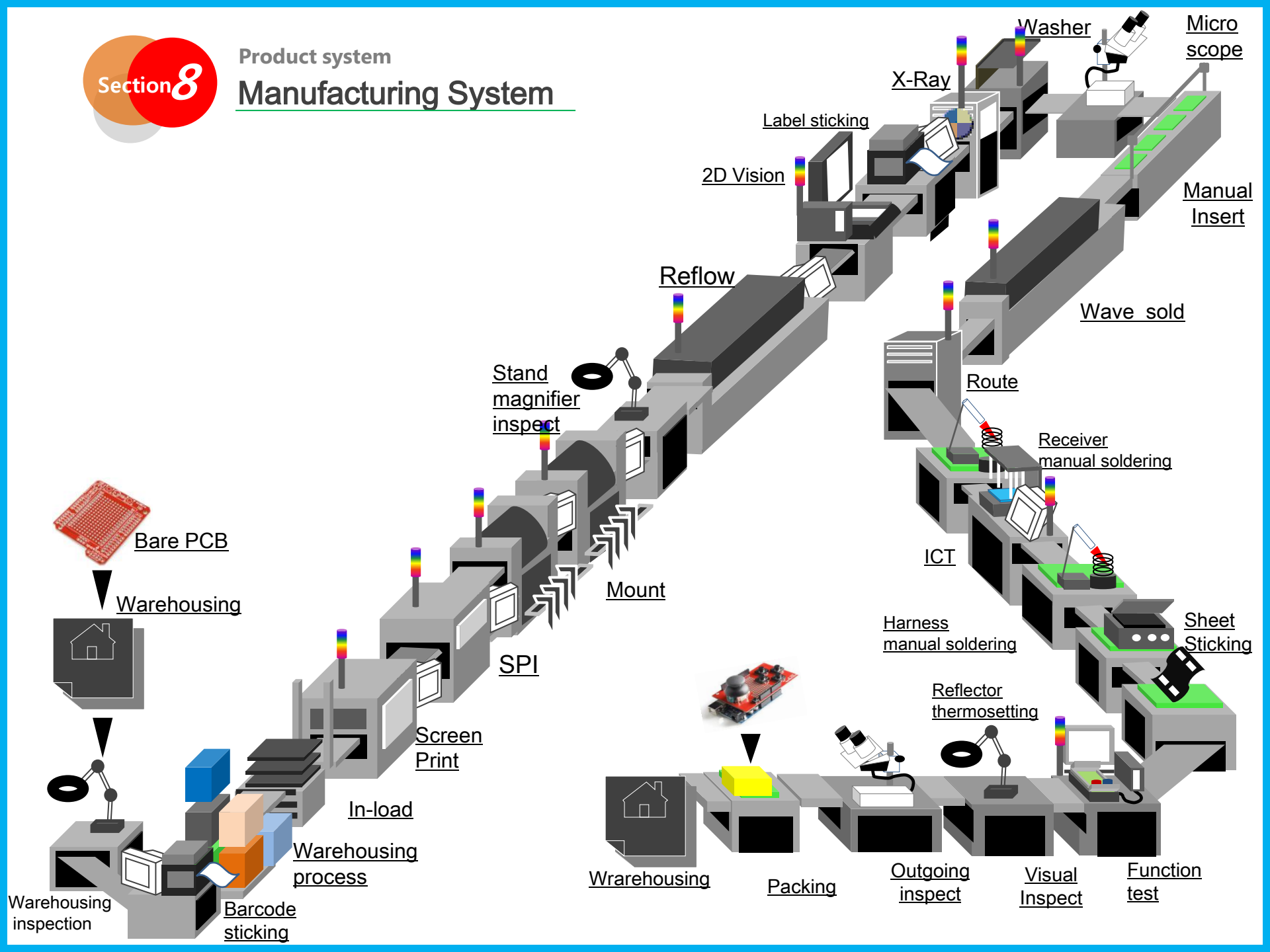
**TYPE : ASM**

**APPLICATION**





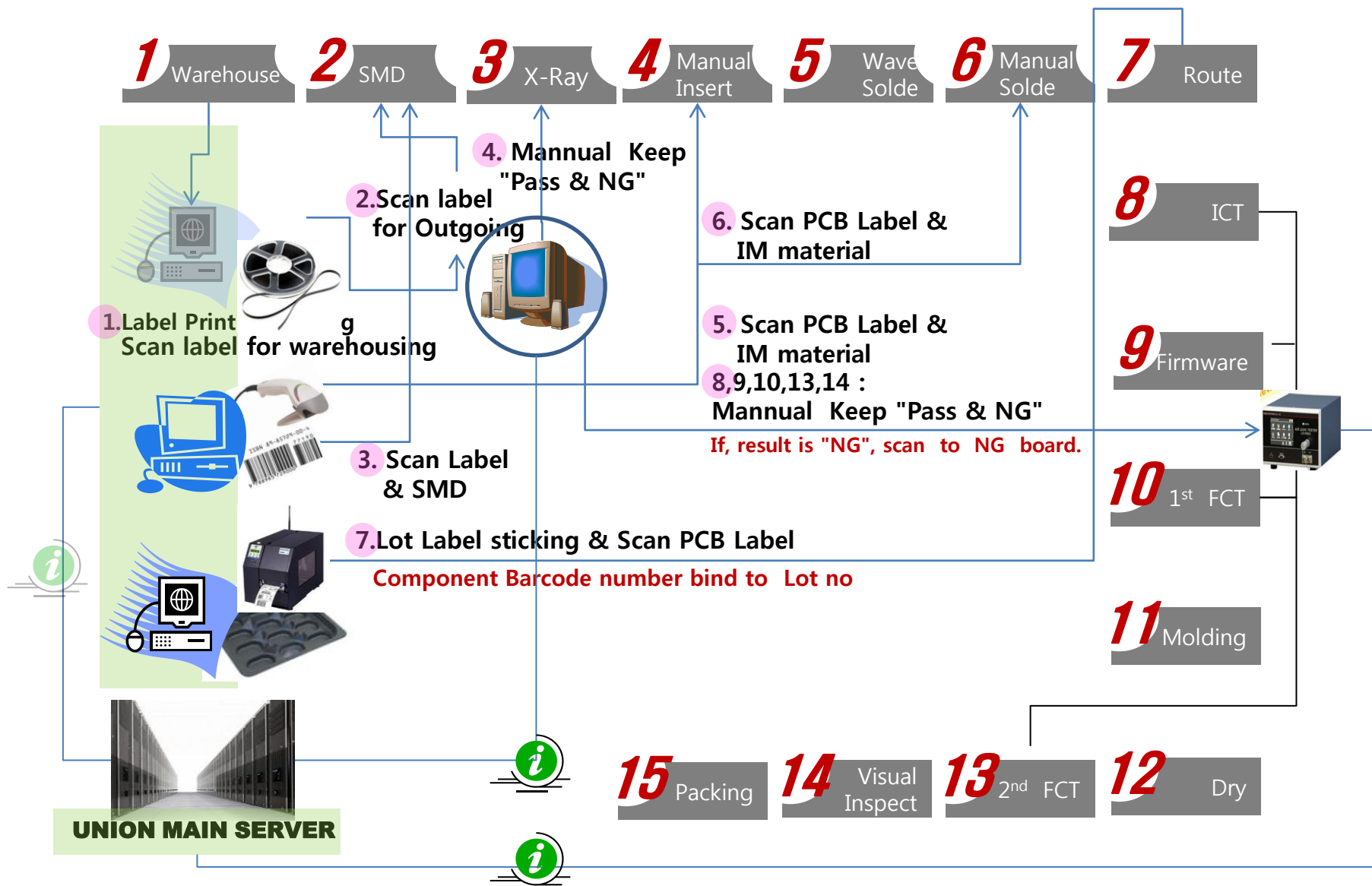
# Product system Manufacturing System



# Section 9

Lot trace

## Product's Traceability System





Name of Facility	Div	(Q/T)	Utilizing
SMT	Line	105	Chip mount on Bare PCB
2(3D)VISION	Unit	80	2(3D) inspect about mounted bard
X-Ray	Unit	50	Inspect to Chip by X-Ray
Wave solder	Unit	18	Wave soldering for IM component
Route(V-Cutter)	Unit	12	Cut Array PCB
Robot Bonder	Unit	45	Auto bond to PCB, Chip
Integrating sphere	Unit	4	Exam lighting size & volume of LED lighting
SPI	Unit	64	Exam of cream solder thick & size

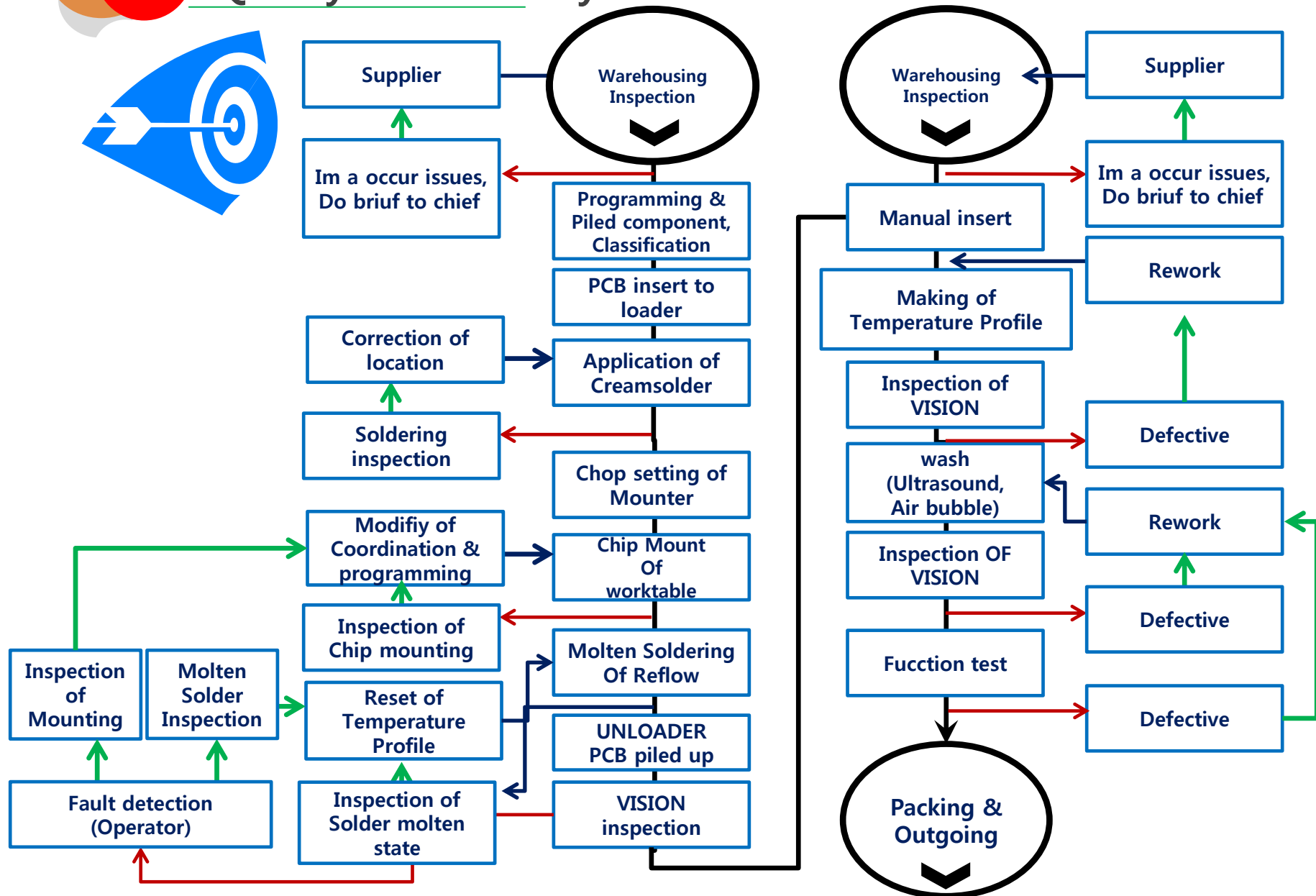
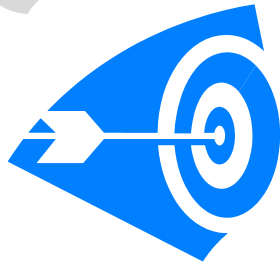




# Section 1

Quality Controll

## Quality Assurance System



# Section 12

## Main Certification



ISO9001



ISO14001



SINGGLE PPM



TS16949



IM Soldering



SMD

*Since* **40**

Surface Mount Device  
LCD module Assembly  
Transformer, Gasket Biz



Assembly



Clean Manufacturing



Transformer



Clean Room

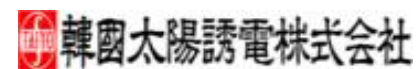
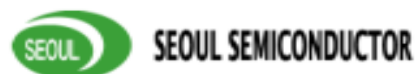


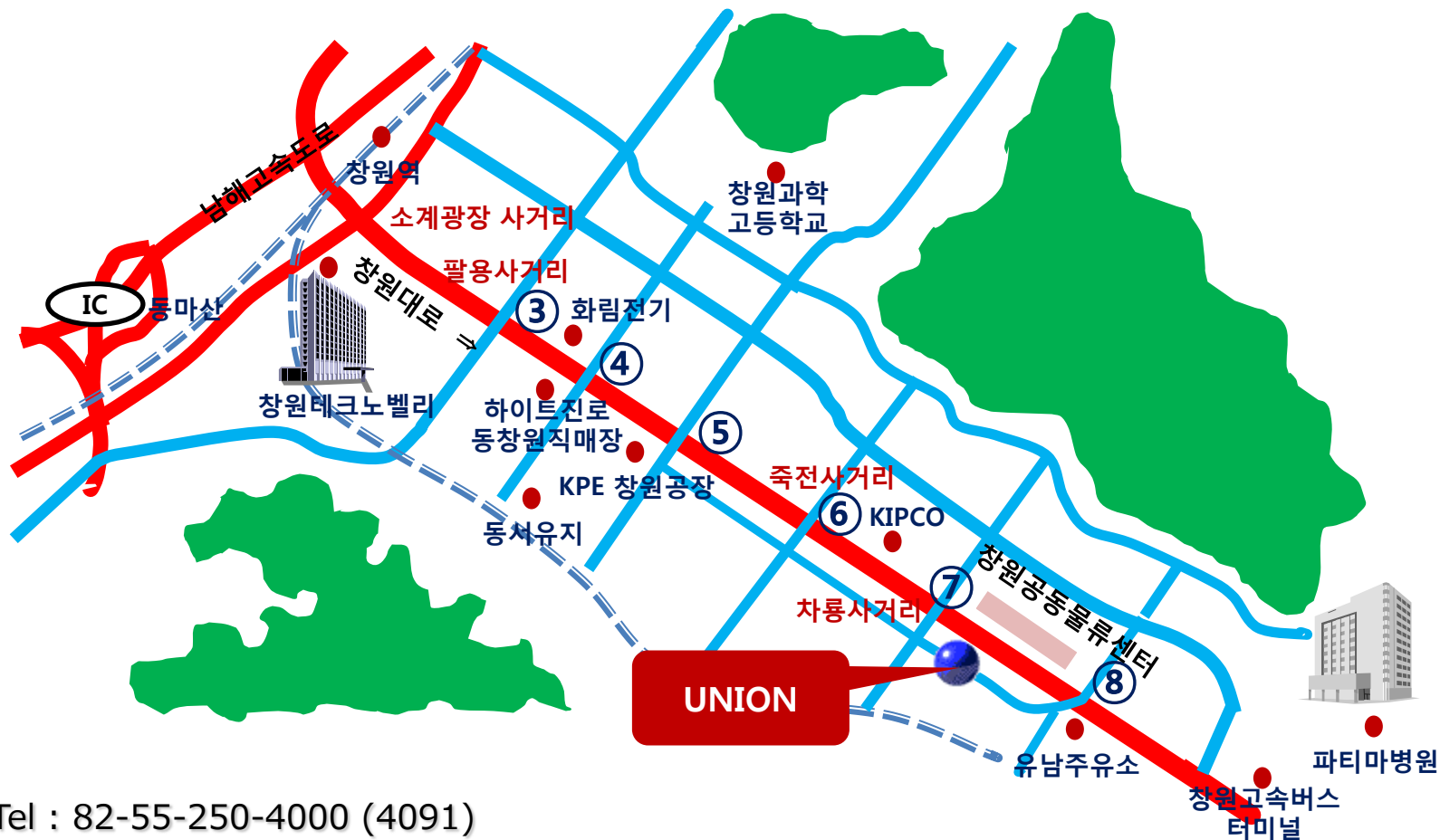
Gasket & Rubber magnet



# Section 14

## Customer Customer





- ▶ Tel : 82-55-250-4000 (4091)
- ▶ FAX : 82-55-293-1472. M. 81-10-4167-0392
- ▶ ADD: 17, Charyong-ro 14beon-gil, Uichang-gu, Changwon-si, Gyeongsangnam-do, Korea

*Since 1976*

Based on the results of **40 years,**  
As for the customers and **100 years** big plan,  
Make **Global EMS** company.

Thank you.

UNION ELECTRONICS