



# EMnex

2017. 5

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Home Page : <http://www.emnex.co.kr> 18449 Seoku-dong\_56, Samsung 1-ro 3-gil, Hwaseong-si, Gyeonggi-do, Korea

EMnex : Next Electronics Manufacturing Service

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## 1. Company Summary

- EMNEX is specializing in the manufacture of electronic products that supply customers with best quality and service in the best condition with pleasant production environment.

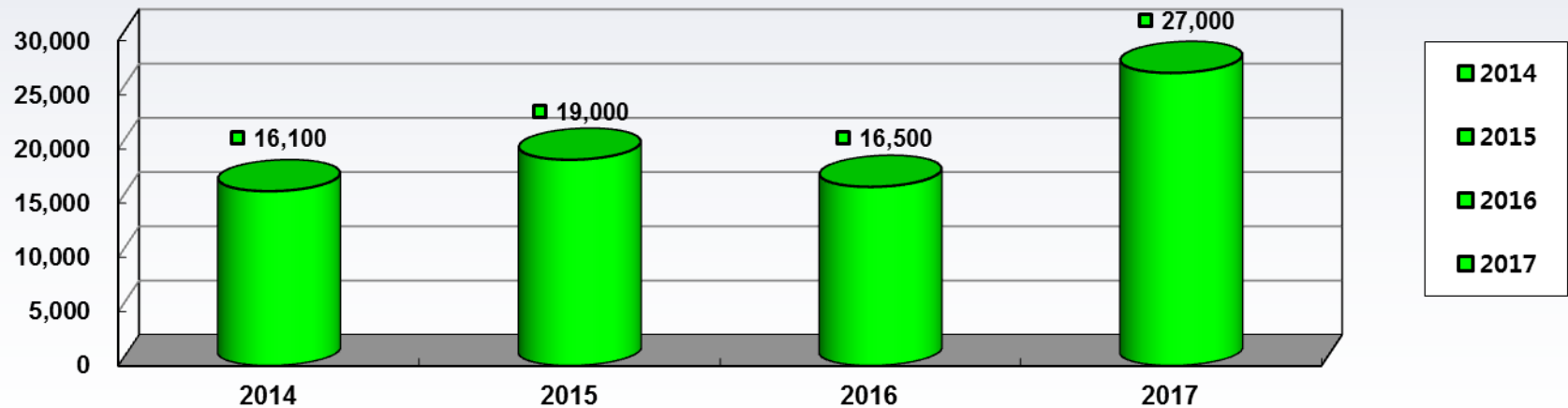


## Company Contents



- Address : Samsung 1-ro 3-gil, Hwaseong-si, Gyeonggi-do, Korea
- Number of employees : 87 people (Now a days)
- Representative : Young Wook Choi
- Business Status : Place\_2,600m<sup>2</sup>, Total floor space is 4,900m<sup>2</sup>  
New build start First basement level up to 4th aboveground Floors
- Turnover : '14yr: \$14,300,000, '15yr: \$16,800,000 '16yr: \$14,600,000 '17yr: \$23,900,000 (goal).
- Main Products : PLC, Controller (robot & elevator & railway vehicle), Driver (Servo, Stepping), X-RAY generator, sensor, Power electronics , Communication , Industrial Camera module .etc
- Home Page : [www.emnex.co.kr](http://www.emnex.co.kr)

(Unit : Millon won, ₩)





## EMNEX Partnership

### Industrial equipment



### Power Electronics & Defense



### Medical



### Others





## 2. Company History

- 1999 yr. Incorporation, Designated as a partner company of Samsung Electronics Co., Ltd. (Manufacturing and PCB Artwork)
- 2008 yr. Establishment of Research Institute (Attached)
- 2009 yr. Selected as a promising medium Company – by Gyeonggi-do Governor  
Selected as an INNOBIZ Company \_ Small and Medium Business Administration a director  
ISO 9001 Certification (2009yr, SAI GLOBAL), KSQ ISO9001 (2009yr) changed
- 2011yr. Enterence New building (2011, 10) basement 1<sup>st</sup>, aboveground floor 4<sup>th</sup> (Total floor space is 4,900m<sup>2</sup>)
- 2012 yr. EMNEX ... Change company name ( 2012, 10. 26 )
- 2013 yr. Parts and material specializing company \_ Ministry of Commerce, Industry and Energy  
Hyundai Rotem, PBA “A grade” Registered as a certified company (GQR-2015)  
ONKYO (Japan), factory and quality examination \_ LED POWER Began exporting (2014yr Top prize of export) ,  
15yr 250 Million dollors export
- 2014 yr. Designated as a military service exemption company \_ Military Manpower Administration  
ERP SYSTEM operation.
- 2015 yr. Hanwha System (before, Samsung Thales), Registered as a defense industry company
- 2016 yr. Hanwha Techwin, QSA/ QPA Pass (quality)  
Factory registration \_ PSE (Japan) , CCC (China), UL (U.S.A), CSA (Canada)



## 3. Main Certification Status



[Research & Development Center ]



[ ISO9001 certification ]



[Parts and material specializing company ]



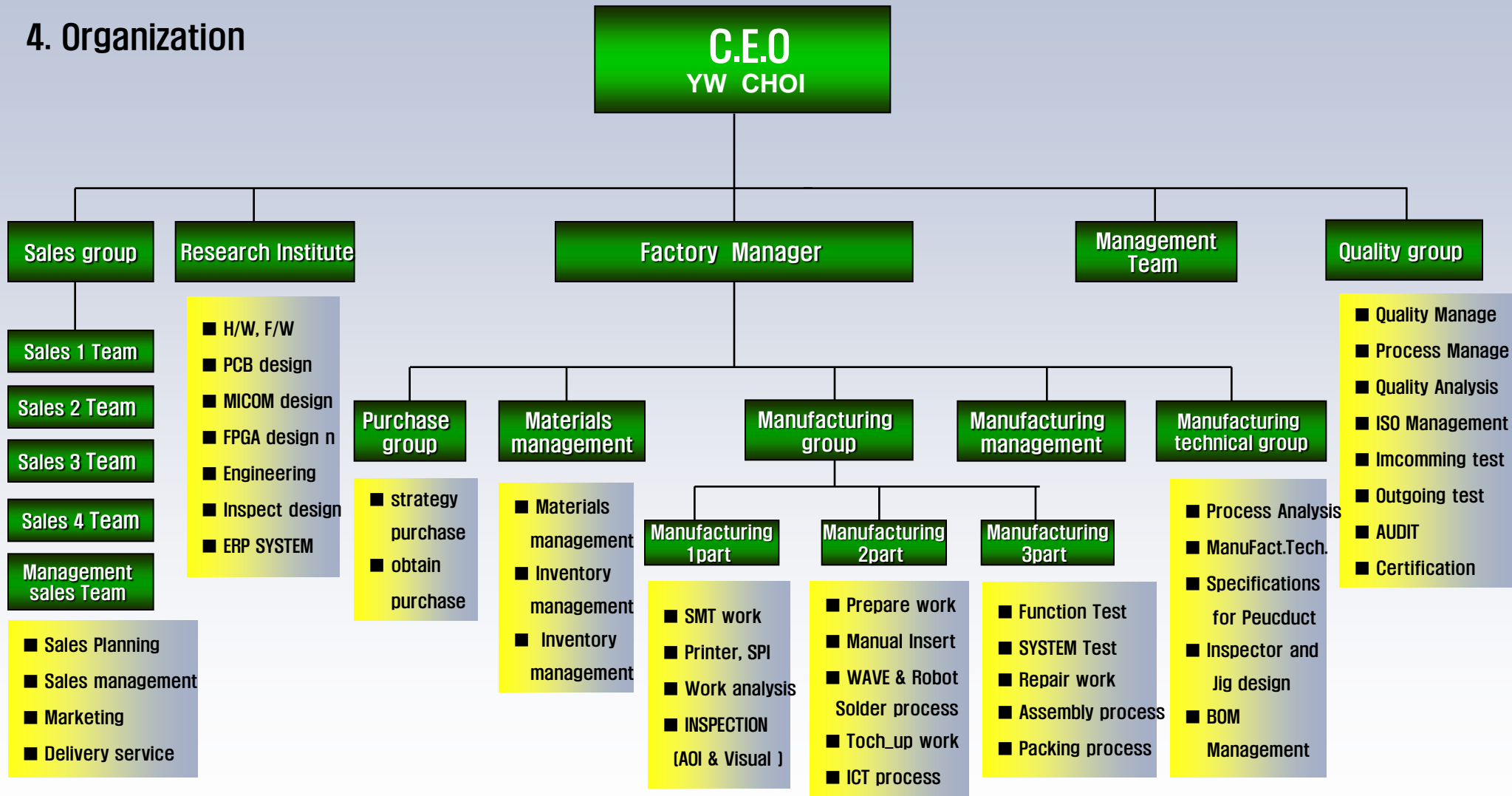
[Promising Small and Medium Business]



[ INNOBIZ COMPANY ]



## 4. Organization



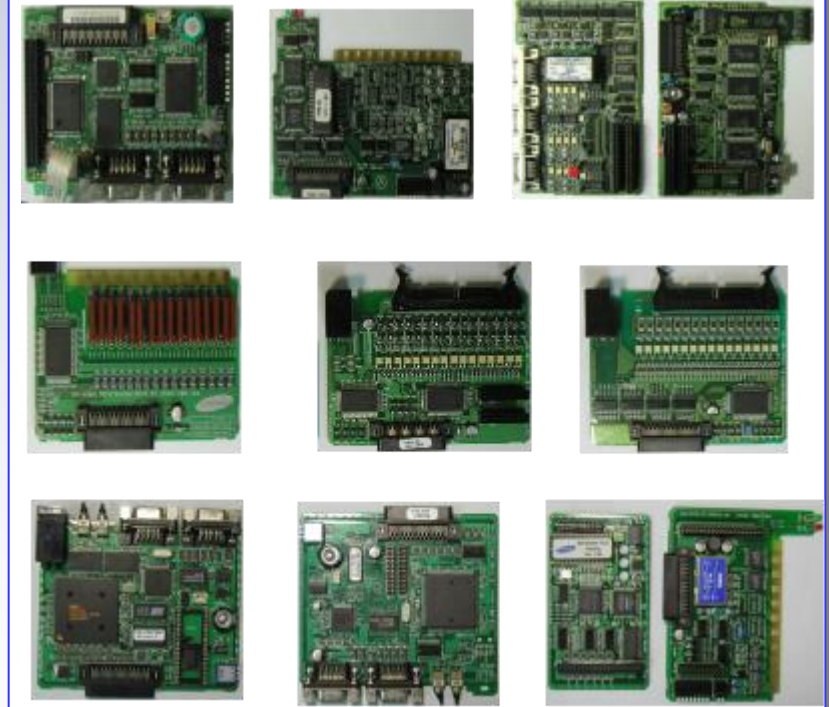
## 5. Main manufacturing items

### Controller & Driver for Industry

#### ■ PLC Series (80s items)



EMNEX supported 80 kinds of OEM/ ODM ( NX70, NX700 series)  
[SET product]



## ■ Robot controller series for Industrial (30 items)



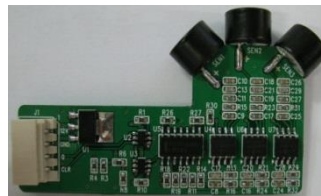
Emex is equipped from Samsung Electronics Co., Ltd (SEC), Samsung Display Co., Ltd. (SDC) with controller and 4 axis servo pack, 6-axis controller, AGV controller, Jetting Driver, etc... (PBA and SET products)

## Application

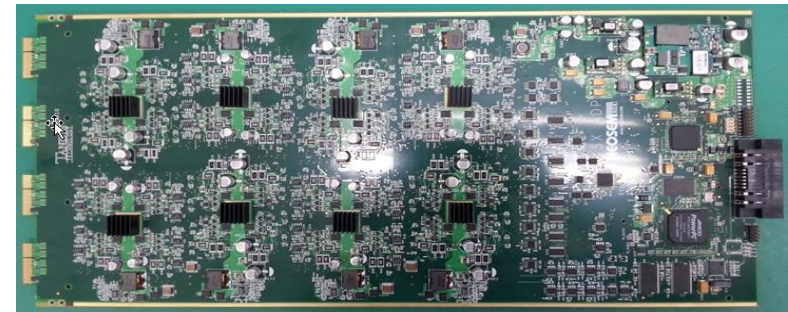




## ■ Motor driver and AGV controller etc..



## ■ Jetting system for display and Semiconductor Wafer Test B'D etc..





## ■ Elevator controller and Railway vehicle control B'D



## Communication

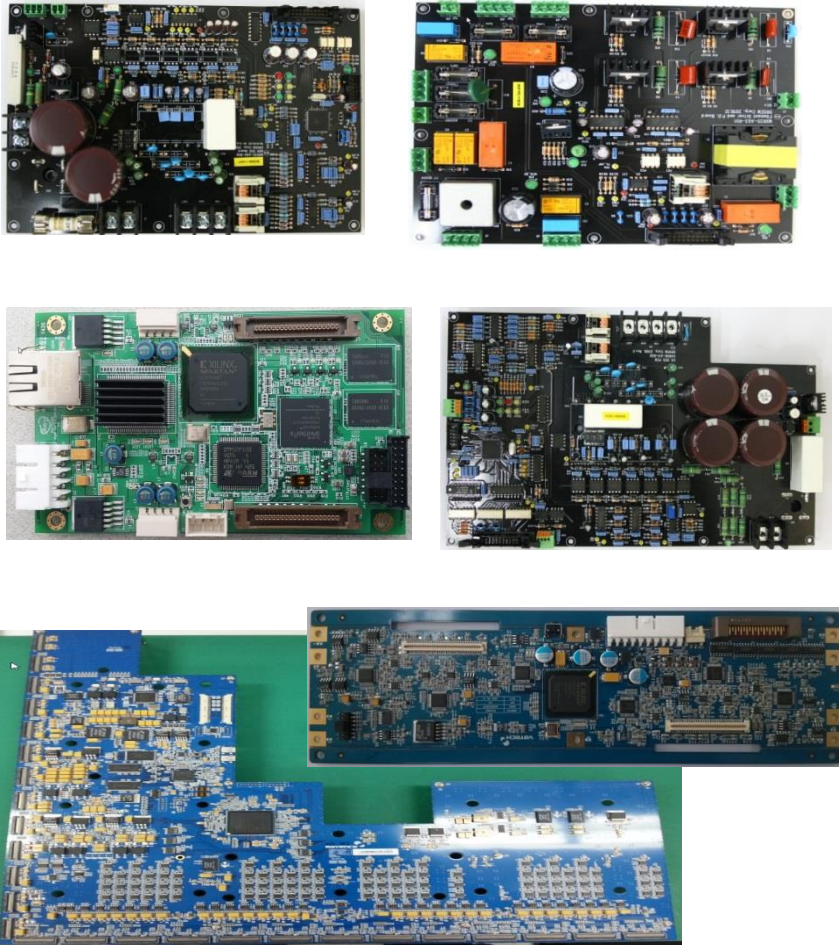
### ■ Optical transmission switching B'D for LTE





## Medical

### ■ X-RAY generator and Sensor B'D



### ■ Battery Management System (BMS) and Medical Measure B'D



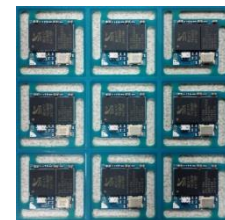
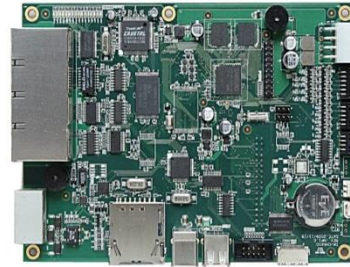


## Other

### ■ Power control System and Laser detector



### ■ Industrial camera modules, SMT, AOI, SPI controller, etc...



## 6. Manufacturing place

### Material warehouse





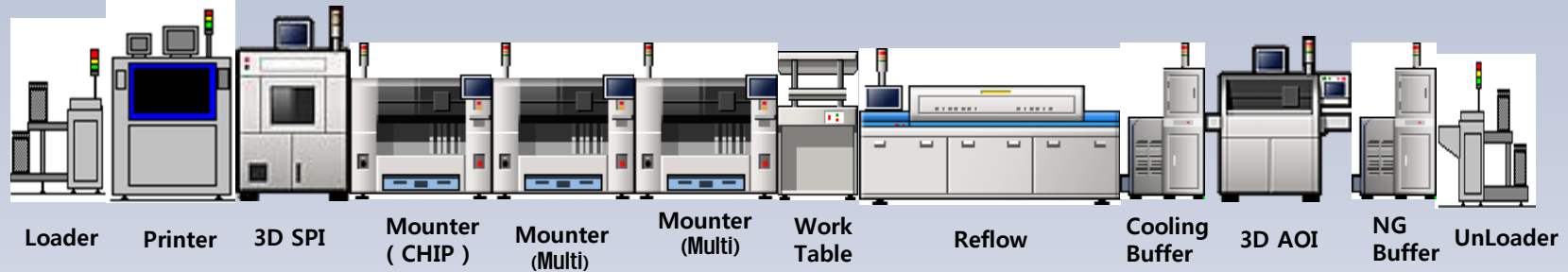
■ SMT Line (4 Line)

For PB\_Free (ROHS)

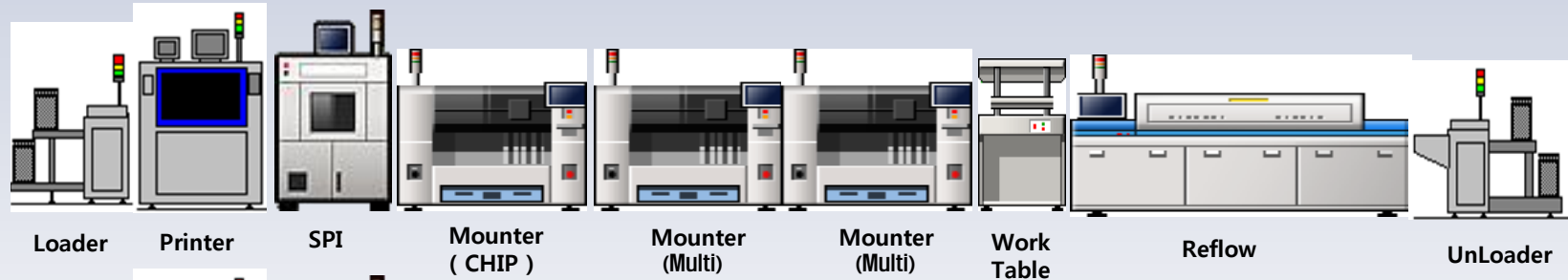


## ■ SMT Line configuration

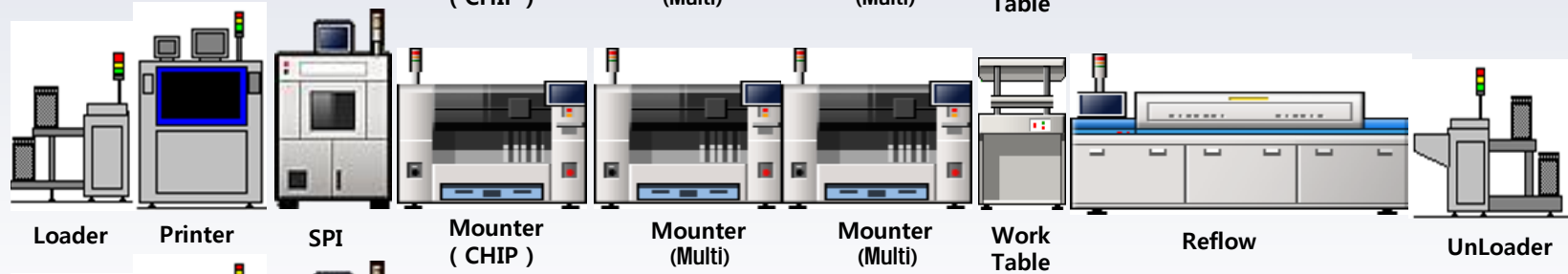
### (1) A\_Line (Standard, FULL)



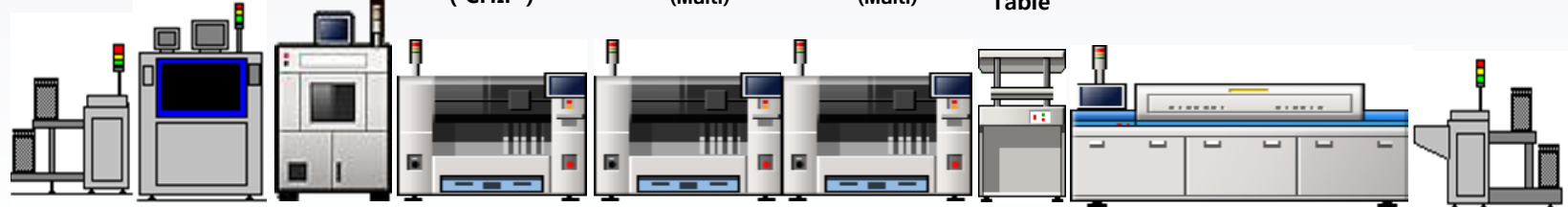
### (2) B\_Line (Larged type)



### (3) C\_Line (Larged type)



### (4) D\_Line (Standard type)





## Manual Insert Line ( Dip 3 Line)

For PB-Free (ROHS)



## Test Line



## Test Line



## Test Line



## Quality Management



< Micro Inspection >

■ Selective Robot Soldering Line



■ Pointer Robot soldering



■ Ceiling type humidifying system



■ Squeeze blade and inspector



■ X-RAY inspection M/C



■ PBA water washing M/C and pure water maker





■ Coating system Line



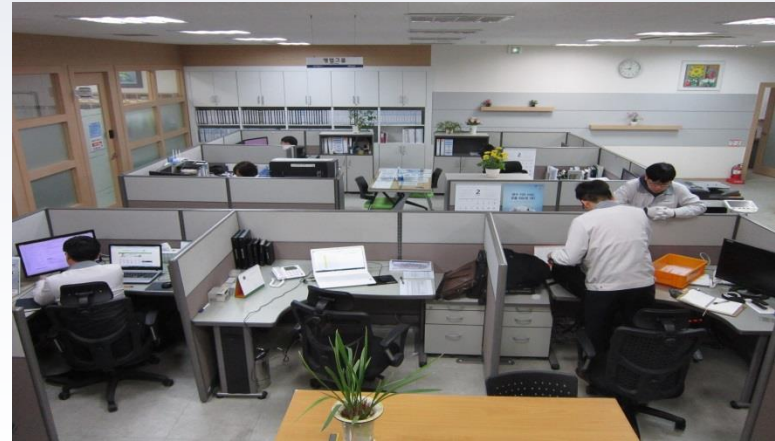
■ Customer Line



■ Customer Line



■ Sales Office



## EMNEX ERP SYSTEM construct and Usage (example) \_ EMNEX own code system of establishing.

The screenshot displays the EMNEX ERP system interface, which is a complex web-based application. The main window is divided into several sections, each representing a different business process. On the left, there is a navigation menu with icons for various functions. The central area shows a list of data entries, such as purchase orders or materials, with columns for dates, status, and other relevant information. On the right, there are detailed views of specific records, including tables and text fields. The interface is designed to be user-friendly, with clear labels and intuitive navigation. The overall layout is professional and functional, typical of enterprise resource planning software.

(EX. Purchase order program)

(EX. Materials management program)

(EX. Quality Management program)

(EX. Manufacturing technology program)

## 7. Major Manufacturing Facilities

[1/2]

Division	Equipment name	Number	Equipment Maker	Etc.. (SPEC)
SMT Line (4 Line)	Standard type mounter (SMT)	4	Hanwha Techwin	SM471 (2 units), SM411 (2 units)
	Multi type mounter (SMT)	8	Hanwha Techwin	SM482 (7 units), SM421 (1 units)
	SCREEN Printer	4	Tenryu Seiki (Japan)	TSP-1200, TSP-600, TSP-550 (2 units)
	Reflow M/C	4	Heller Korea	Heller MK1810 III (4 units), RoHS
	Solder cream checker (3D SPI)	4	Ko Young Technology	Aspire-3 (3D SPI) 1대, KY8020-2L (3 units),
	Vision inspector (Included 3D AOI)	3	Ko Young Technology, MASS (Japan)	Zenith (3D AOI _In-Line), QUEST HDL_350, 650 (2 units)
	Router	1	MS Tech	DPL-T (PCB cutting)
	Nitrogen generator (N2)	1	Kyultron	N2 GENERATOR
	Ceiling injection Humidification system	10	Seil Ricoh	HU-CONSTM System, Humidity maintenance, Installation all the field
	Etc., equipment	24	NC Master, viscometer, squeegee blade washer, squeegee blade tester, Mask washer, LCR Meter system, etc	
IMT (Dip) Line (Auto Soldering) (3 Line)	Auto Soldering Machine	3	Shin Myung	SAS-620 (2units), SAS600 (1 units)
	PCB washer	1	Aqueous (USA)	Pure water maker (DI WATER) and PCB washer
	ICT M/C	2	OKANO(Japan), Samsung Electronics Co.	AT-01 (2 units)
Robot Soldering Line (1 Line)	Selective Robot Soldering	2	InterSelect (Germany)	2 port (Used fuel, Non fuel possible)
	Pointer Robot soldering	1	MEIKO TECH (Japan)	1 point Robot soldering machine
Test / Assembly / Packaging Line	Function Cell Line	10	self-production	Inspection / Simple assembly process
	ROOM for set assembly and Inspection.	6	Customer room	Specified customers room
Automatic coating system (1 Line)	3 Conformal Coated System	1	PVA (USA)	3 Conformal Coated Robot System
	Reflow M/C	1	Heller Korea	7 zone reflow

Division	Equipment name	Number	Equipment Maker	Etc.. (SPEC) [2/2]
Materials warehouse	Baking OVEN	1	Byum jin	Bare PCB dryer
	Micro Dry	6	Seli Richo	Main material dehumidifier
	High speed dehumidifier	6	Seli Richo	Main material dehumidifier (After opening rapidity dehumidification function)
	Vaccum Packaging	1	JS pac	Vacuum packaging equipment
Inspector & Environmental equipment	X-RAY inspection M/C	1	SEC	X-EYE5 100F
	Microscope Inspector	1	SOME TECH	CAMSCOPE
	40 several magnifying microscope system	4	Sehyun Trading	Attach to Monitor function, capture possible
	Radiation measuring instrument	1	SEC	
	Thermal shock tester	1	Byum jin	-20~80 ° c (Medium Chamber)
	Pressure tester	2	Dae Kwang	Withstanding voltage tester
	Digital tensile strength meter	1	Yu Yu	Soldering removable test (component)
	Large high temperature chamber	1	ALL THREE	0 ° c - 80 ° c (Large chamber, 400 x 300 x 250cm )
	Temperature and humidity chamber	1	Byum jin	-20 ° c - 80 ° c (Medium Chamber)
	Thermo-hygrostat	6	Kiturami ( Heating / Cooling / Dehumidification function )	PVU 50T7P1 (6 unit), Lage Type ( 120 m² )
	Static Tester	2	Shinhan High Tech	ESC-670 (Shoe Tester)
	Ion blower	16	DIT	For the removal of static electricity (2P, 3P)
Other measuring instruments	Measuring instrument and etc..	60	BGA REWORK equipment, Calibrator, label printer, AC, DC POWER., Analog Tester, Oscilloscope, illuminometer, surface resistance meter, reel counter, static test (HANDY), etc...	



## 8. Manufacturing Operations Plan

Content		2017 yr.	2018 yr.	2019 yr.	The present
Equipment and Line operation	SMT Line (4 Line)	<ul style="list-style-type: none"> <li>SMT, 4 Line operate</li> <li>1 Shifts</li> </ul>	<ul style="list-style-type: none"> <li>SMT 5 Line review</li> <li>2 Shifts review</li> </ul>	<ul style="list-style-type: none"> <li>SMT 6 Line review</li> <li>2 Shifts operate</li> </ul>	1) A, D Line ; Standard type 2) B, C Line : Large type
	DIP Line (3 Line)_ Wave	<ul style="list-style-type: none"> <li>3 Line operate</li> <li>Pb (2) , Pb free (1)</li> </ul>	<ul style="list-style-type: none"> <li>4 Line review</li> <li>Pb (2) , Pb free (2)</li> </ul>	<ul style="list-style-type: none"> <li>4 Line review</li> <li>Pb (2) , Pb free (2)</li> </ul>	1) A, B Line : Pb Line 2) C Line ; Pb Free (ROHS)
	Robot Solder Line (1 Line )	<ul style="list-style-type: none"> <li>1 Line operate</li> <li>Selective (2), Pointer (1)</li> </ul>	<ul style="list-style-type: none"> <li>2 Line review</li> <li>Selective (4), Pointer (2)</li> </ul>	<ul style="list-style-type: none"> <li>2 Line operate</li> <li>Selective (4), Pointer (2)</li> </ul>	1) Robot solder line operation 2) All used for Pb/ Pb Free
	Function Cell Line (10 Line)	<ul style="list-style-type: none"> <li>Function 10 Cell Line</li> <li>Test &amp; Repair room</li> </ul>	<ul style="list-style-type: none"> <li>Function 14 Line</li> </ul>	<ul style="list-style-type: none"> <li>Function 17 Line</li> </ul>	1) Function design 2) Repair room (BGA Reball)
	Set test & assembly (6)	<ul style="list-style-type: none"> <li>Customer set room (6) [ Set test &amp; assembly ]</li> </ul>	<ul style="list-style-type: none"> <li>Customer set room (9) [ Set test &amp; assembly ]</li> </ul>	<ul style="list-style-type: none"> <li>Customer set room (9) [ Set test &amp; assembly ]</li> </ul>	Customer set room (6) (space : 120 m <sup>2</sup> )
	Automatic coating line	<ul style="list-style-type: none"> <li>Auto coating system [ 1 Line ]</li> </ul>	<ul style="list-style-type: none"> <li>Auto coating system [ 1 Line ]</li> </ul>	<ul style="list-style-type: none"> <li>Auto coating system [ 1 Line ]</li> </ul>	3 Conformal Coated Robot System
Man power operation	Manufacturing	50	60	65	
	Purchase / Materials	9	10	10	
	Quality / Manufactuein Management	8	9	9	
	Manufacturing technology (Eng.)	8	9	9	
Total operation manpower		75	88	93	

## 9. Quality Process

### ■ Quality improvement 150 Operation

#### Quality improvement **150** Operation

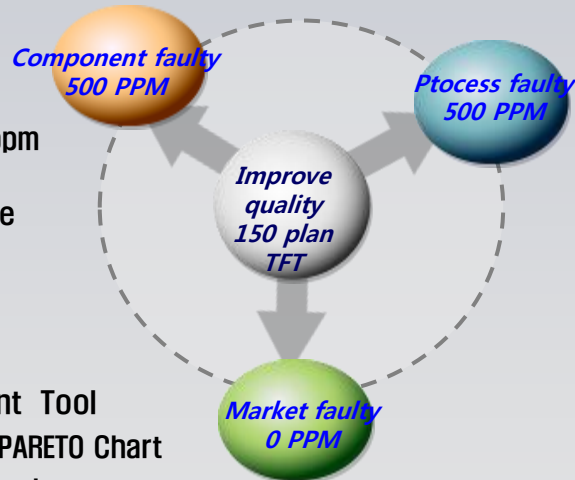
- market faulty zero
- process faulty 150ppm
- component faulty 1500ppm
- Strengthen of preventive activities and follow-up after mass production

#### Analysis & Improvement Tool

- Analysis by type – PARETO Chart
- Management of trend – PPM management day by day

#### Activity Method

- Weekly quality meeting : every Friday
- Progressing check meeting : 1time/ Monthly
- Progressing report : 1time/ Monthly



### ■ Quality improvement strategy

- Customers require, Quality is 'zero defect' levels.

→ There is no defect in LOT but in case of one critical defect, require quality improvement report.

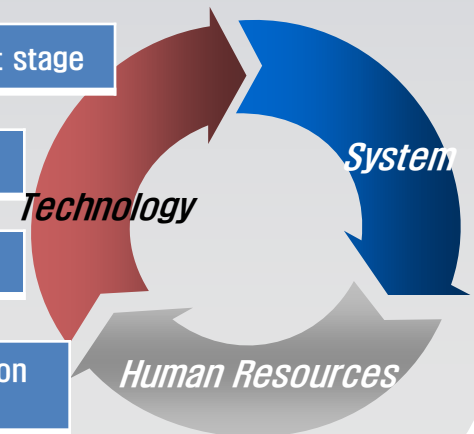
→ In order to meet customer demand rather than simple 'bad reduction' requires uniform manufacturing.

1. Improve quality in development stage

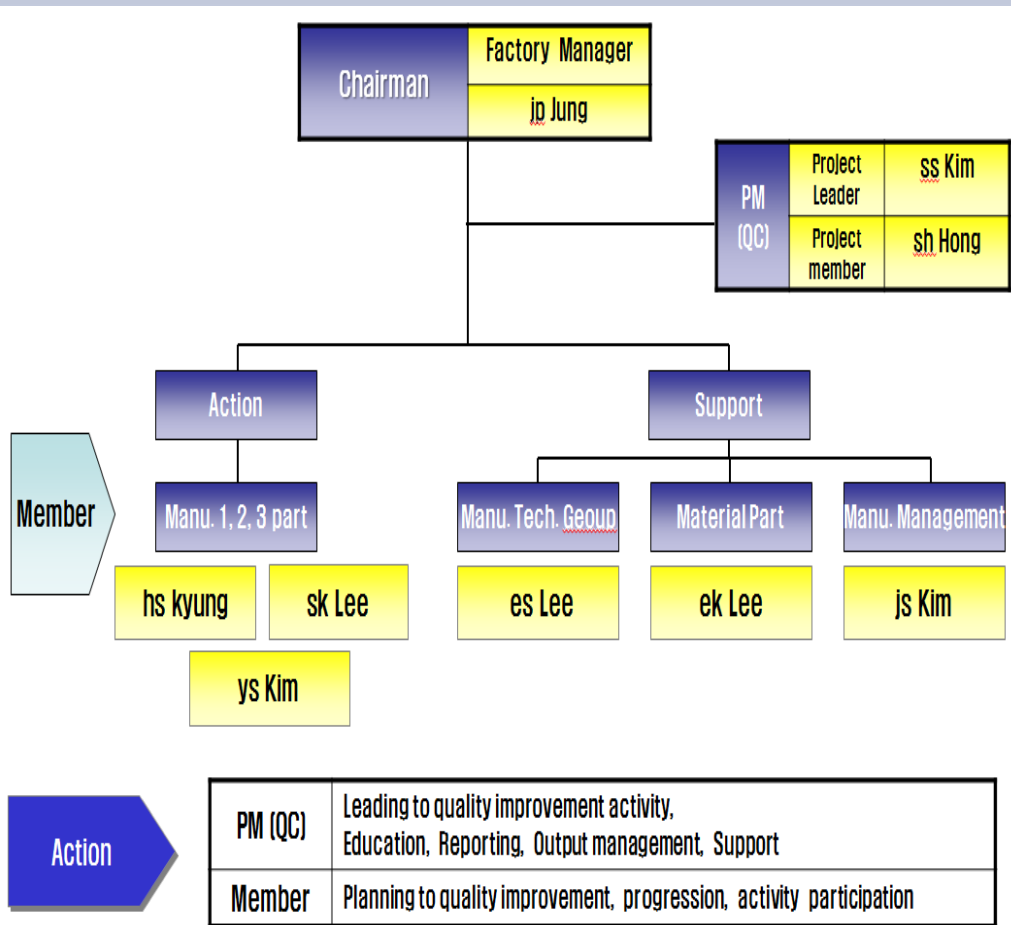
2. Improve manufacturing quality

3. Customer quality satisfaction

4. One Team (strength cooperation among the members)



## Quality Improvement Promotion Organization



## Quality improvement plan

### Development ~ Initial products quality stabilization

#### Initial quality stabilization of manufacturing products

- The time transfer production, Check the history and Issue point
- Share Issue point in development stage [quality, manu. technology, 1/2/3 part]
- When launching of new model products, Concentration for process quality

### Manufacturing quality stabilization

#### Improve process quality

- Establish countermeasure to recurrence prevention from worst failure analysis
- Establish countermeasure after analysis, of the defect of operator error
  - ① Operator quality awareness
  - ② Check the system
  - ③ Operation environment (3-way 5S)
  - ④ Operator's body, psychological state

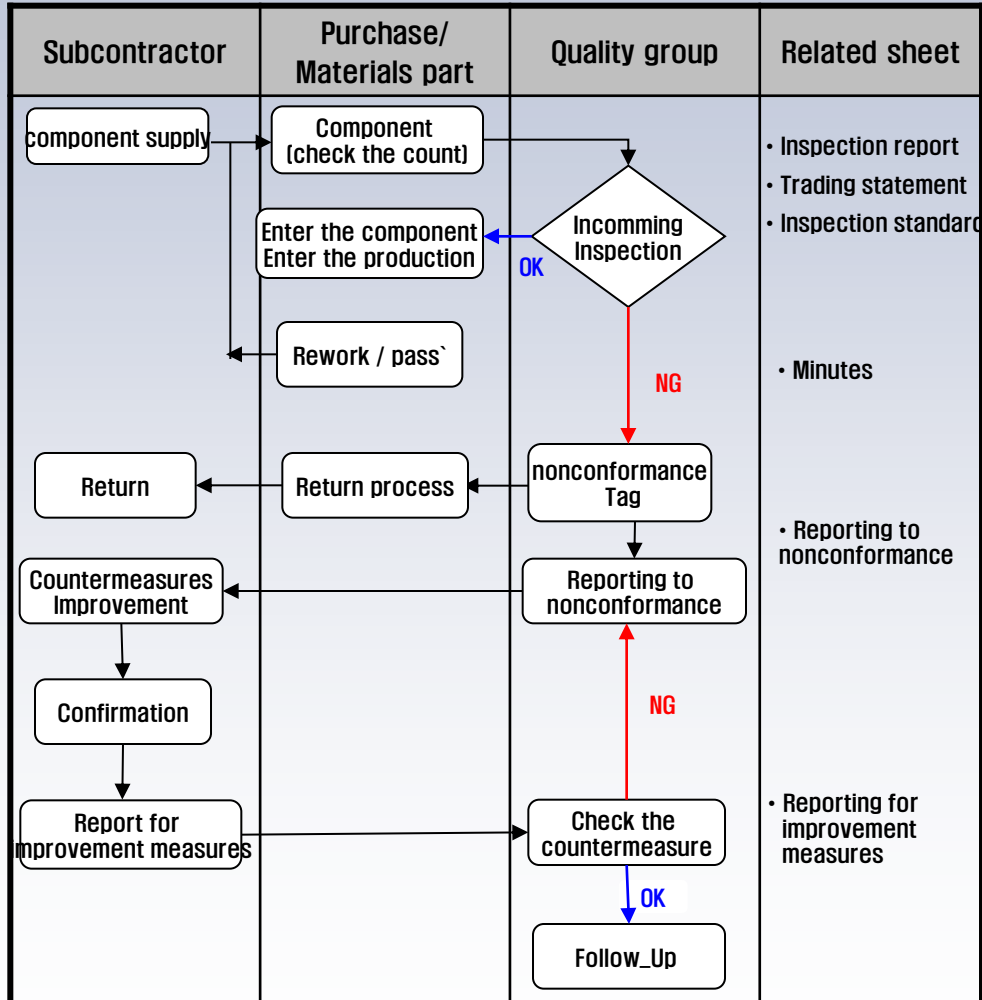
### Customer Satisfaction

#### Establish a customer satisfaction process

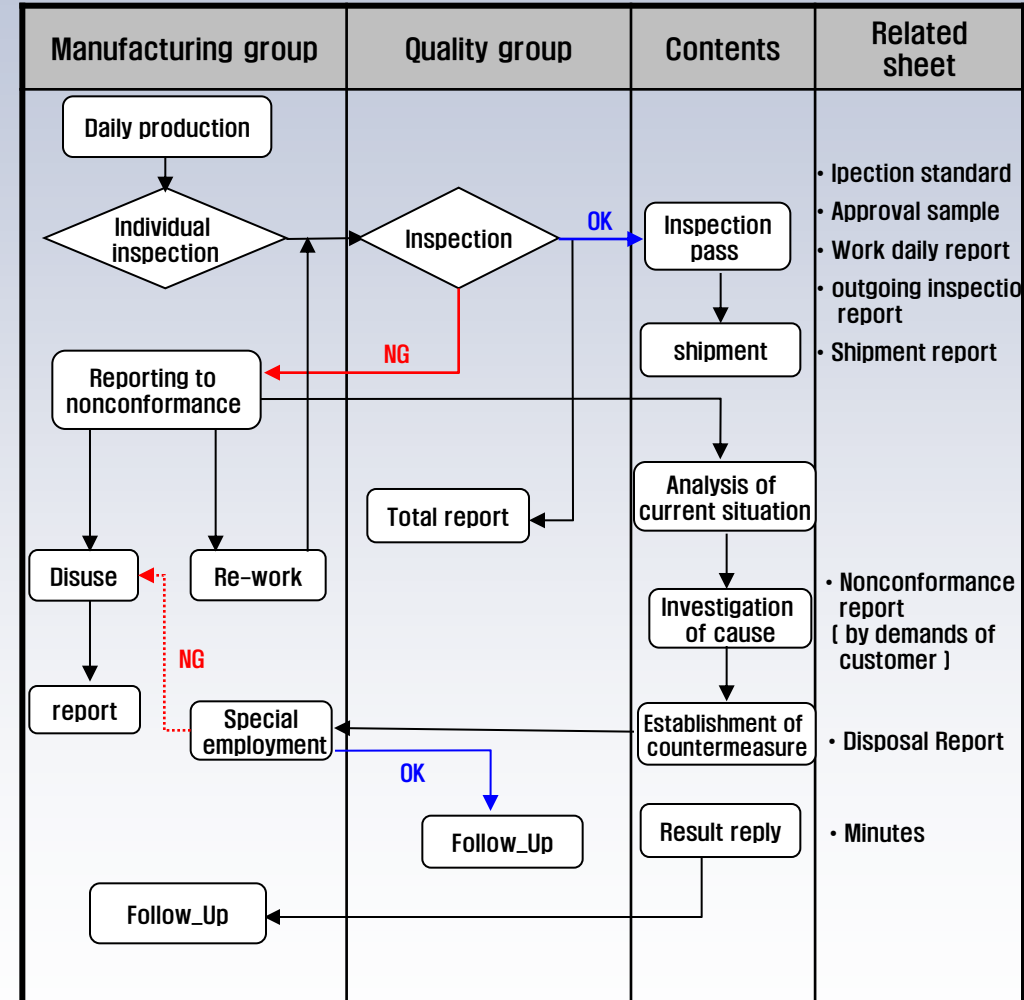
- Establishing a plan and improve problems by surveying customer satisfaction.
- Establishing quality differentiation plan to applied to manufacturing line
- Establishing 3-way 5S operation plan to maintain manufacturing line need to ask the customer .



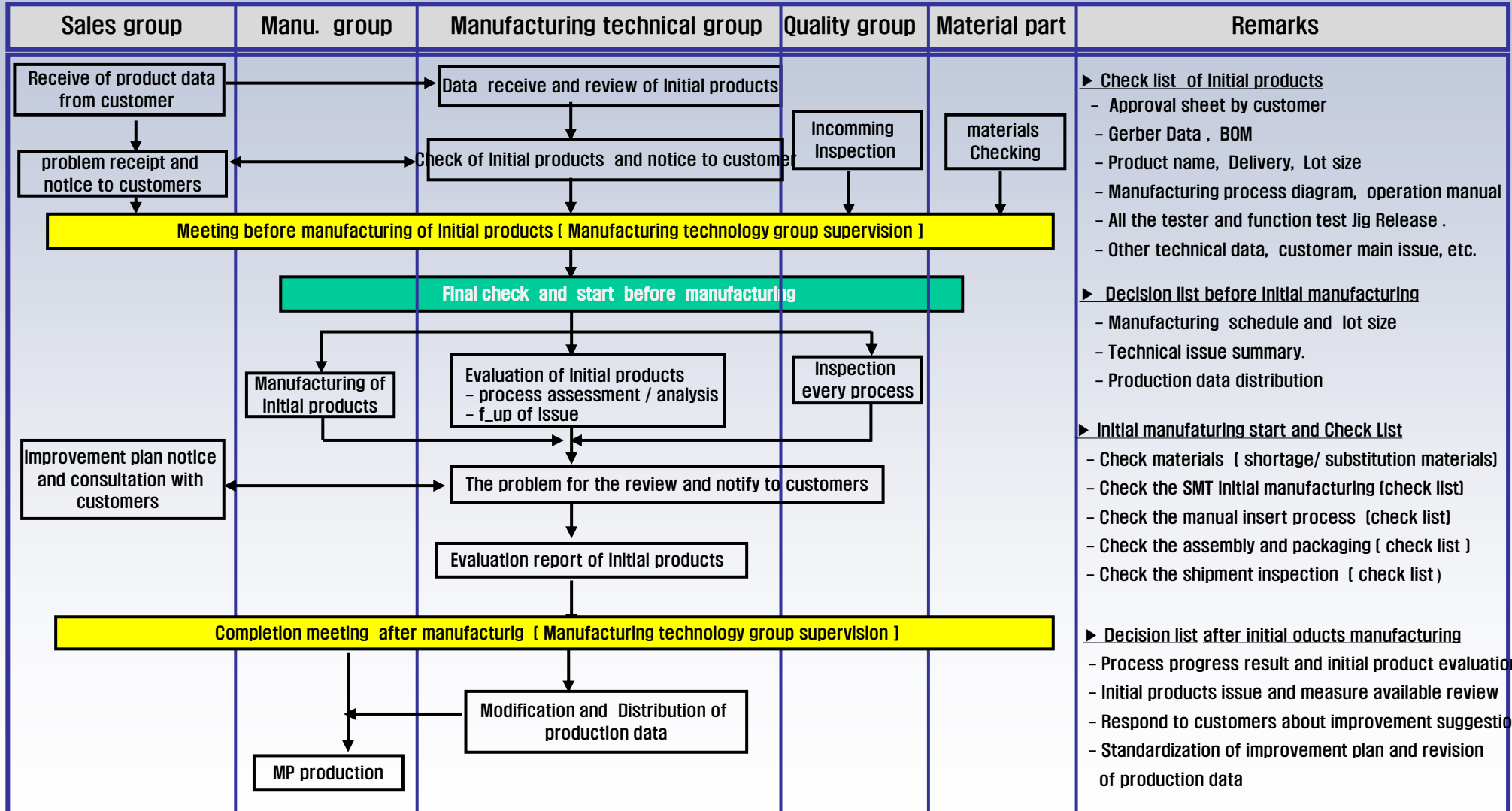
## Incomming Inspection Process



## Outgoing Inspection Process



## Quality process of Initial products





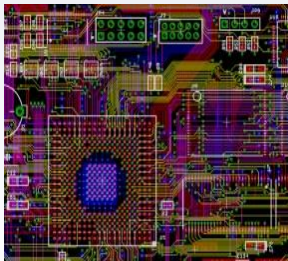
## Check sheet for process flow (every lot)

Ray Affiliate of SAMSUNG				공정이동관리표				용 질		승 인	
모델명		ALPHA_MCU		LOT수		160		납사양		유연납	
구 분		시작 일시		종료 일시		LOT수		불량수		폐기	
공정명		완료 일시		종소요 시간(분)		검사수		자주 검사 확인			
자재 불출		2014. 11. 12		12:18:50 ~ 19:10		150		이진호			
S M T						150		조영진			
SMT초도품 검사 (비전+육안)		12. 18:50				150		장영진			
A O I 검사		11. 13 08:20		10:05		150		조영진			
SMT VISUAL		11. 12 10:40		12:05		150		서 승애			
수 상		11. 15. 15:45		10:05		150		이해진 장영진 (1/16)			
후 작 업		11. 16 09:20		11:15		150		전 만수			
수상 VISUAL		11/19 14:40		19:00		150		이 수리			
조 립											
기능 검사		11/18 02:40		11:00		150		이 수리			
포장 검사		11/19 11:50		12:00		150		김창호			
1) 불량내역 : U10,U11 : Vendor 확인할 것 (2014.07 초도생산 시, 오삽발생) MCU모델 ▶ C151-0035-63, SPIEX,SP3232EEA-L 2) 로트번호를 주의 !!! 고객사 검사 지그 특성으로 인해 TLP185사용불가 (고객사 검토중) ▶ TLP181 or LTV-3567로한 사용 할 것!!! (한정, 각그림서 Saturation Voltage가 0.2V 대일수록 나쁜 공차에 속 함을 의미함) 그 이상으로 나쁜 공차에 속 함이 Fail 되어 한자의 부작할 상황이 발생함)											
구분		공정 문제점 및 개선 요구사항								작성자	
자재 불출		PCB : 160 EA REV. ( 1.00 )								이진호	
S M T		A line								조영진	
SMT VISUAL		U10,U11 오삽(MAXIM)				U10,U11 앞쪽(SPIEX)					
수 상										장영진 (1/16)	
후 작 업											
수상 VISUAL											
검 사											
포 장											
출 하 검사											

## Check sheet for Initial products

[주] 한티기술		초도품 성적서		신규 생산		용 질		승 인	
검사일자		2014-11-26		11월 26일		11월 26일			
모델명		HTMC502J-MVB-Rev.B		LOT수		46		납사양	
고객사		한티기술		Line		B-Line		검사자	
								김상준	
NO		Check 사항		OK		NG		비고	
1		기술변경 및 생산자료 (PL, 작업지도서) 최신VER 확인		○				VER: ( HTMC502J-MVB-Rev.B )	
2		PCB 외관불량(패턴 벗겨짐, 뒬, 오염) 없을 것		○					
3		PCB 피팅설 마크, Guide V-Cut 누락 없을 것		○					
4		PCB 극성 Silk Print 오류 없을 것		○					
5		SPI 과납, 소납, 틀어짐 등 없을 것		○					
6		부품 미출 시 고객사 승인 여부 확인		○		○			
7		부품 Package 오류 없을 것		○					
8		부품 Spec 오류 없을 것		○					
9		SMT 미삽 이상 없을 것		○				23핀 (TOP - R1,R17,R31,R53,R54, R55,R56,R57,R58,R62,R64,R66, BOTTOM - C40,R83,R84,R85,R89,R90, R93,R101,R106,R108,R111)	
10		SMT 오삽(핀더검사) 이상 없을 것		○					
11		SMT 역삽(극성) 이상 없을 것		○					
12		PCB 랜드 대비 자재 Package 오류 없을 것 (납땜 상태)		○					
13		마스크 개구부 사이즈 대비 랜드 오류 없을 것		○					
14		핸들링(수합) 실장 POINT 이상 없을 것 (중점관리 POINT)		○					
15		컨베이어 통과 후 PSR 벗겨짐, 오염등 PCB상태 이상없을 것		○					
16		BGA 오삽, 역삽, 미삽, 들뜸 등 없을 것		○				XC3S1400AN-4FGG676I (U4) AT91SAM9260B-CU (U5)	
17		BGA 외관상태 (땀점 및 IC 갈라짐) 이상 없을 것		○				XC3S1400AN-4FGG676I (U4) AT91SAM9260B-CU (U5)	
18		QFP 부위 소납, 소트, 납땜불성 이상 없을 것		○		○			
19		Oscillator 극성 이상 없을 것		○				SCO-103A 24MHz, 3.3VDC (OSC1)	
20		LED 점등, 색상, 납땜 상태 이상 없을 것		○				SSC-GR101 ; Green (LD1,LD2,LD3,LD4,LD5,LD6,LD7,LD8)	
21		부품 리드 부식 없을 것 -> 존재 시 냉면 여부 확인		○					
22		매거진 간섭으로 인한 PCB 파손 없을 것		○					
23		HEADER PIN 부품 리드 평탄도 이상 없을 것(냉면 확인)		○				A2-6PA-2.54-DSA 2.54mm (HD1) A2-2PA-2.54-DSA 2.54mm (HD2) A1-20PA-2.54DSA,2.54mm (HD3)	
중점관리항목 (고객사 요구사항)		2. 유사 부품 주의. TP578601DCQ [Ref] U2 TP578618DCQ [Ref] U1							
NO		문제점		임시조치		개선 요청사항		담당자	
1		AT91SAM9260B-CU (U5)		Mouser 실물 확인후 실장 진행		정품소재 인지 확인 필요.		김상준	
2		Crystal SSP-T7-F, 32.768KHz (XT1)		사급자재		현품표 부착 및 용량값등 정확한 정보 기입 요청.		김상준	

## 10. Design & Technology



### ● PCB artwork (design)

- ☐ NX7/ NX70/ NX700 PLC PCB ARTWORK
- ☐ ROBOT Controller PCB ARTWORK
- ☐ Servo Driver PCB ARTWORK
- ☐ OLED Encapsulation Inkjet driver (SG1024)
- ☐ LCD Encapsulation Inkjet driver ( V1, V2, V3)
- ☐ Elevator controller board
- ☐ SMART GLASS Controller

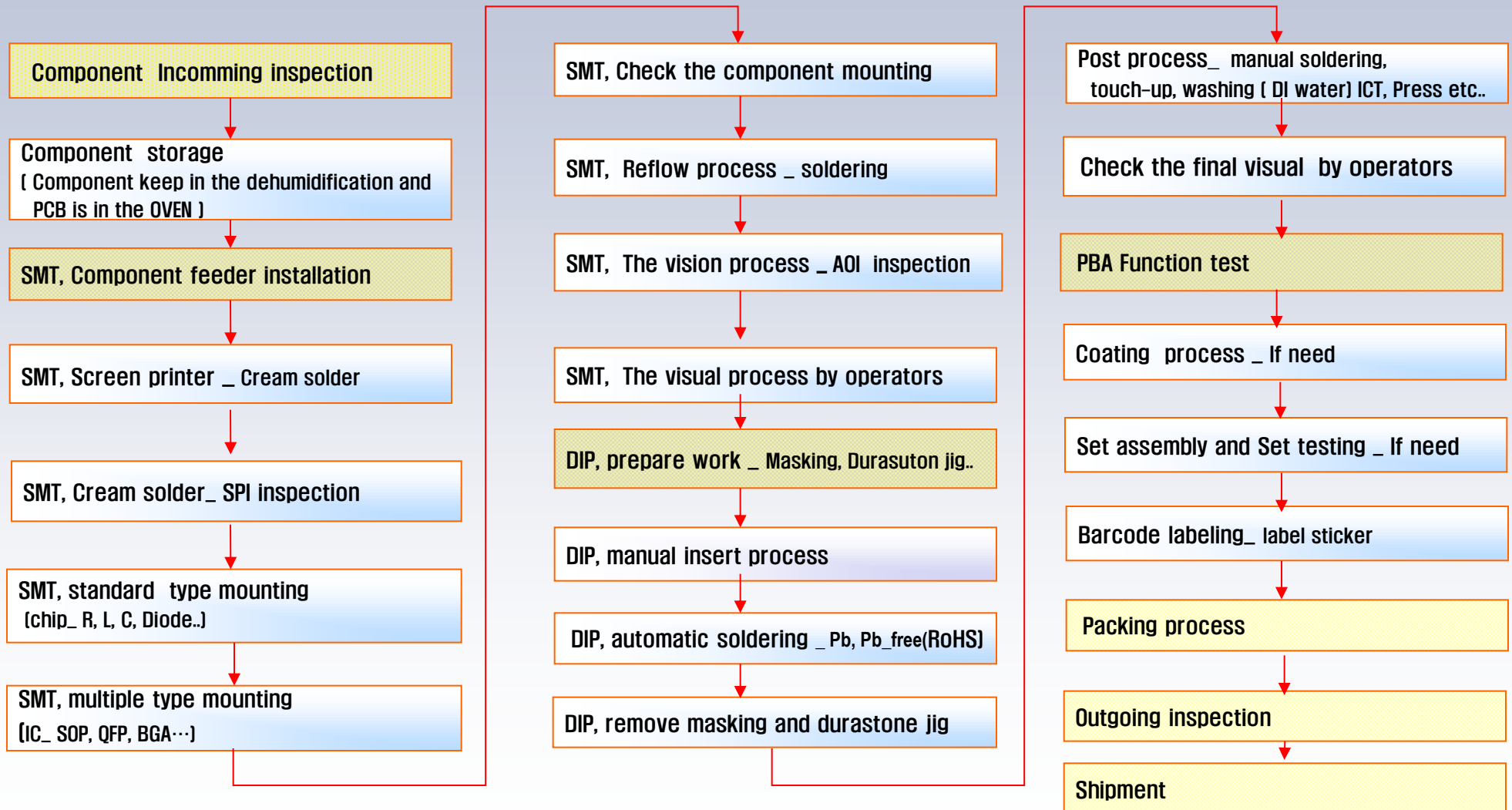
### ● Inspection equipment and function jig

- ☐ PLC positioning module inspection equipment
- ☐ Firmware download Jig design
- ☐ Inkjet driver function jig design
- ☐ Elevator controller function jig design
- ☐ LED Power mass production process jig design

### ● Plan and Engineering (technology)

- ☐ NX70/ NX700 PLC Engineering and CE/ UL approval
- ☐ I/O ASIC Development (circuit -> FPGA -> ASIC)
- ☐ Ultrasonic docking control module development.
- ☐ EtherCAT I/F & SERCOS module engineering
- ☐ Phase control B'D engineering
- ☐ AGV control system engineering
- ☐ Laser detector control system engineering
- ☐ Ultrasound Docking B'D development.
- ☐ OLED Inkjet driver ( SG1024 driver ) engineering
- ☐ LCD Inkjet driver ( Jet driver V1, V2 ) engineering
- ☐ OLED Inkjet driver ( Jet driver V3 ) engineering
- ☐ Elevator controller board development.
- ☐ SMART GLASS Controller development.
- ☐ LED Power module development.
- ☐ OLED KM Driver (KM V1,V2,V3) engineering
- ☐ Pulse DC Generator development .
- ☐ etc .....

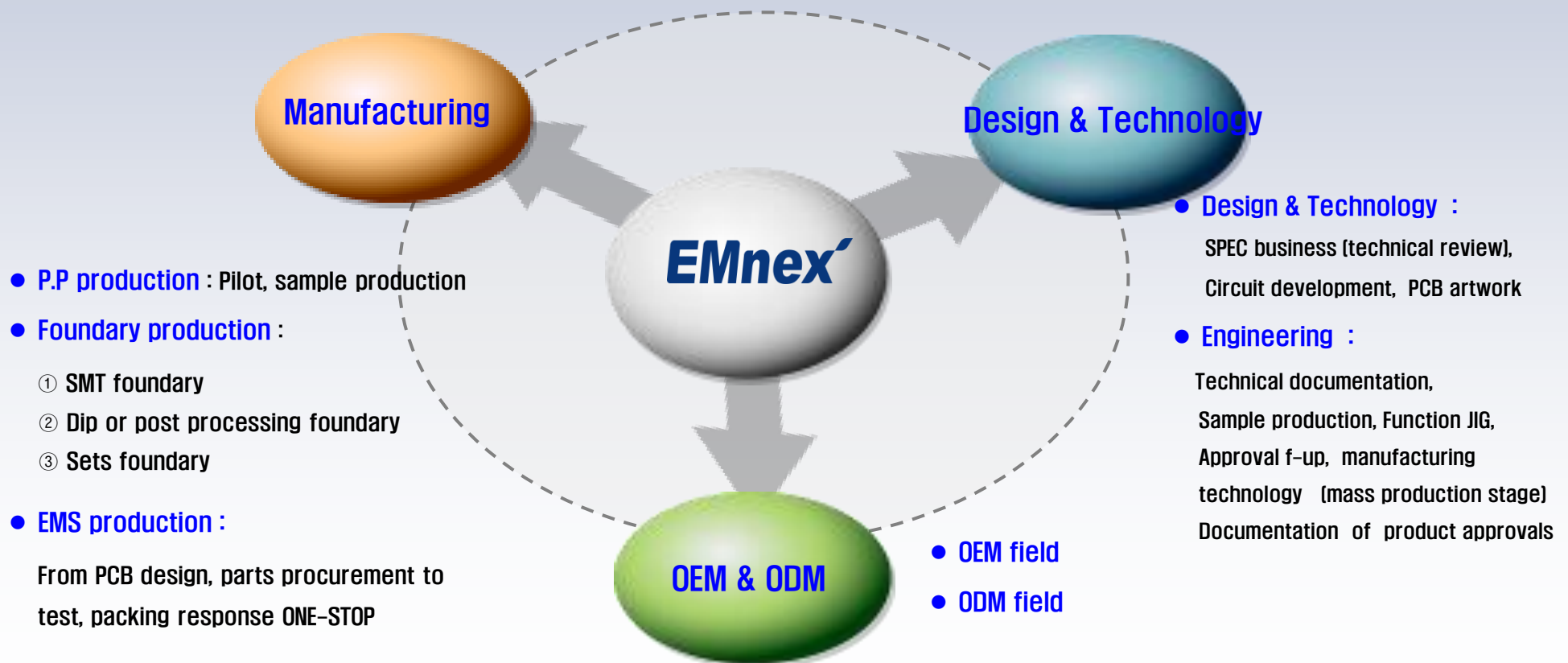
## 11. Manufacturing process diagram





## 12. EMNEX Business

EMNEX is capable of handling PCB artwork, parts purchase, assembly (SMT\_ DIP process), testing, set assembly, packaging, and it supports from small lot production to mass production as below.



■ etc.. ( subsidiary facility )

3<sup>rd</sup> rest ground



Cafeteria



Table tennis court



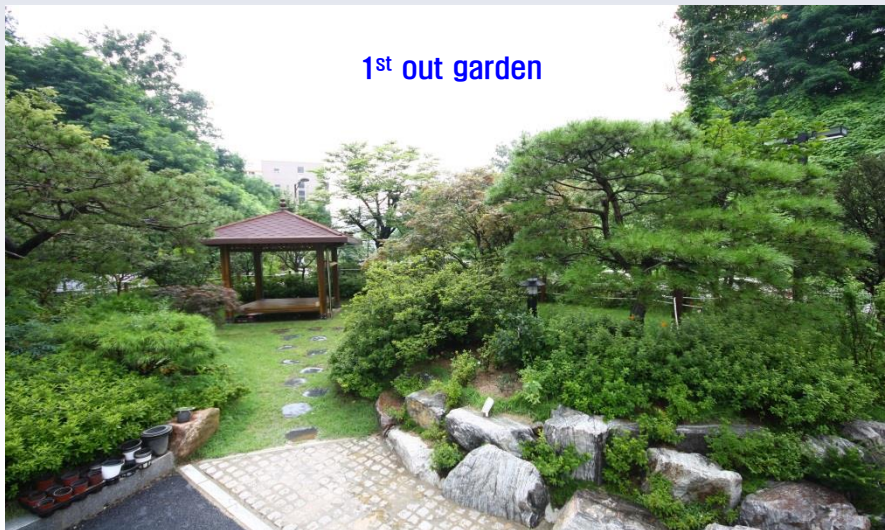
Place of education



Women's rounge









# EMnex

(주)이엠넥스



(주) 이엠넥스

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FAX: 031-8003-4715

## 찾아오시는 길

\* 고속도로 이용시

경부고속도로(서울방면) ▶ 기흥IC ▶ 기흥단지로 42m 직진 ▶ 기흥TG 앞  
사거리(삼성2로 수원,오산(서울)방면으로 우회전 후 1.7Km이동 ▶ 삼성2로  
지하차도 진입 후 1.1Km이동 ▶ 고가도로 진입전 우측방향(동탄방향)  
▶ 반월삼거리(삼성1로 동탄 신도시(오산)방면으로 좌회전 후 142m 이동  
▶ 삼성1로 5길 우회전 후 688m이동 ▶ 이엠넥스

경부고속도로(부산방면) ▶ 기흥동탄IC ▶ 기흥 동탄 방면으로 우측 고속도로 출구  
▶ 수원기흥 방면으로 좌측 방향 ▶ 지하차도 우측 옆 ▶ 이마트 사거리에서 우회전  
▶ 삼성화성캠퍼스(반월삼거리방면) ▶ 삼성 1로 500m직진 ▶ IT단지(변전소)에서  
좌회전 ▶ 삼성1로 2길 566m 직진  
▶ 우회전 후 166m 이동 ▶ 이엠넥스

\*국도 이용시

수원방면 ▶ 매폐사거리 오산 동탄 방면으로 우회전 ▶ 약 800m 직진  
▶ 반월교차로 (빅마트) 동탄 방면으로 좌회전(삼성1로)약792m 직진  
▶ 고가도로 진입전 우측방향 (동탄방향)  
▶ 반월삼거리 동탄신도시(오산) 방면으로 우측방향 ▶ 약 180m이동  
▶ 삼성 1로 5길 우회전 후 688m 이동 ▶ 이엠넥스



# Thank you!

