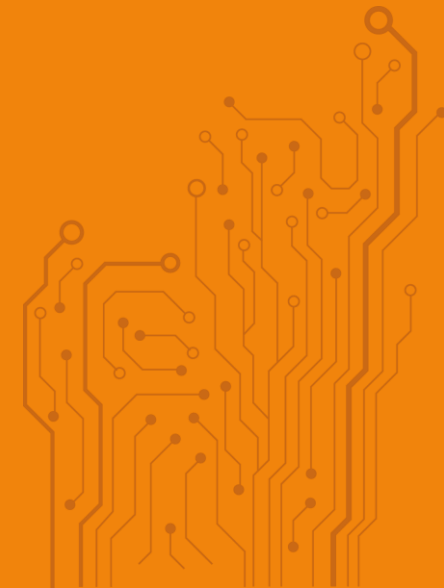




Solutions for Smart Factory



Company Overview

1. Business Area

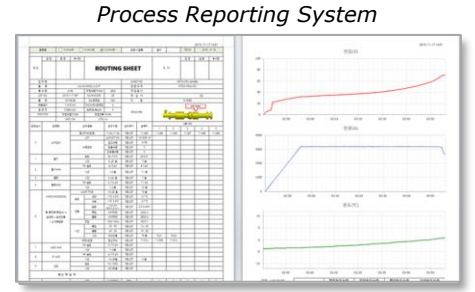
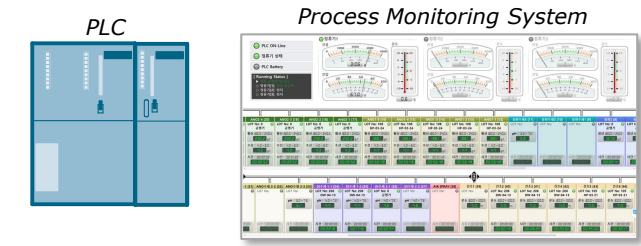
We provide innovative solutions for smart factory projects and automation. We strive to provide best products through various partners and consortiums.

2. Status

Establishment date	2015.10.01
Location	Busan in Republic of Korea
Employees (include parent company)	30
Engineers (include parent company)	16
Major Business	Supply of automated inspection solutions and products
Major Product	Harness Cable Tester, Deep learning-based vision inspection equipment

Smart Inspection Solution

Quality inspection is not the end of production, but the beginning.

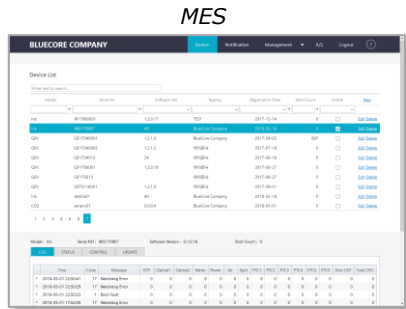


- ❖ Integrated management of process data through organic connection of various equipment and systems in the production process

- ❖ Reduce documentation time and ensure reliability of product by automatically creating reports based on all process data and quality inspection result

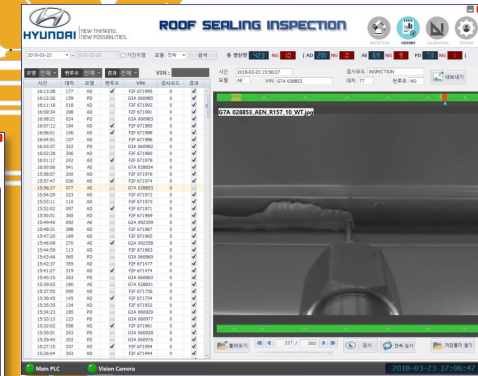
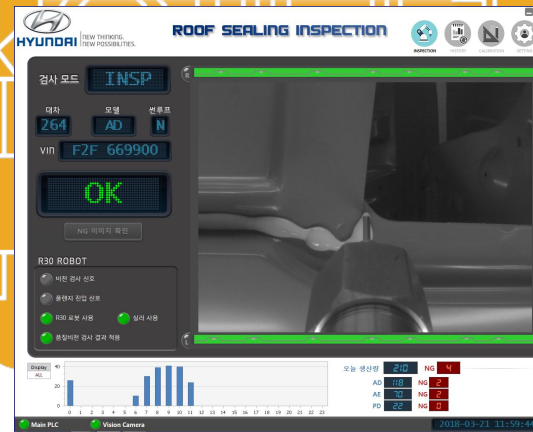
Image acquisition
Dimensional inspection
Visual inspection

Building a reliable and flexible intelligent inspection system that combines deep learning-based appearance inspection and numerical dimensional inspection



- ❖ Establishment of a macroscopic production plan based on production yield through linkage with higher-level systems such as MES and ERP

User-Oriented Smart UI



- ❖ Product quality analysis based on inspection result statistical data through inspection history management

Harness Cable Testing Equipment

The software interface for the HARNESS CABLE & LEAK TESTER (KYUNGRIM TECH) features a dark theme. At the top left, the model number is 00246107. The main workspace displays a detailed wiring harness diagram with numerous pins and connectors, each labeled with a number (e.g., 1-136, 137-141, 1-40, 41-42, 43-82, 83-84, 87-102, 103-104, 105-116, 117-128, 129-130). On the right side, there are control panels for '오늘의 검사량' (Today's inspection quantity) and '기밀검사 1' (Secret inspection 1), both showing 0.0 MPa for '부압 누설' (Backpressure leakage) and '정압 누설' (Static pressure leakage). A '기밀검사 2' (Secret inspection 2) panel is also present. At the bottom, '기밀검사 기준' (Secret inspection standard) is set to 0.5 MPa for '부압' (Backpressure) and 0.7 MPa for '정압' (Static pressure). The interface includes icons for '검사' (Inspection), '이력' (History), and '설정' (Settings). The APPSO logo is visible at the bottom right.



PCB Design
Smart Inspection Equipment



Cylindrical battery quality inspection equipment

LT정밀
CAN Vision Inspection CVI-21
M48F

INSPECTION
 HISTORY
 SETTING
 LANGUAGE

总数 **234870**
良品 **154778**
次品 **80092**
次品比率(%) **34.1**

内底部

CAN: 24, 8

14:00:31.076

上部

CAN: 24, 8

14:00:31.217

底部

CAN: 22, 8

14:00:33.149

侧面 #01

CAN: 21, 3

14:00:38.678

侧面 #02

CAN: 21, 7

14:00:38.391

侧面 #03

CAN: 22, 4

侧面 #04

CAN: 22, 8

cassette

LT정밀
CAN Vision Inspection CVI-21
M48F

INSPECTION
 HISTORY
 SETTING
 LANGUAGE

型号名称

开始日期 2022-01-06

结束日期 2022-01-06

搜索

发送

工作时间	型号名称	良品	次品	内底部	上部	内侧面	底部	侧面
2022-01-06 14:53:56	M48F	185	87	12	12	4	31	28
2022-01-06 15:09:49	M48F	147	125	11	9	4	85	16
2022-01-06 16:12:26	M48F	202	70	17	12	4	23	14
2022-01-06 17:14:00	M48F	117	155	62	21	4	22	46
2022-01-06 17:29:20	M48F	55	58	31	4	4	8	11
2022-01-06 18:01:01	M48F	138	134	31	17	4	57	25
2022-01-06 18:15:49	M48F	202	70	13	15	4	21	17
2022-01-06 18:23:39	M48F	176	96	35	22	4	6	29
2022-01-06 18:42:16	M48F	215	57	14	6	4	12	21
2022-01-06 20:01:25	M48F	208	64	9	9	4	13	29
2022-01-06 20:44:30	M48F	114	158	48	12	5	17	76

摘要

盒式数量 **342**

总检查数量 **91482**

不合格率(%) **33.2**

详情

良品数量 **61084**

次品数量 **30398**

内底部 **7498**

上部 **4952**

内侧面 **976**

底部 **6406**

侧面 **10566**

Cognex ViDi, Codsys-Motion, Deep-Learning

控制器
上部相机
内底部相机
内侧面相机
下部相机
侧面相机#01
侧面相机#02
侧面相机#03
侧面相机#04
图像处理

HYUNDAI Motors Roof Sealing Inspection System

The screenshot displays the Hyundai Roof Sealing Inspection System interface, which includes a control panel, a data table, a video feed, and a production summary.

Control Panel (Left):

- 검사 모드: INSP
- 대차: 264, 모델: AD, 써루프: N
- VIN: FZF 669900
- OK button
- NG 이미지 확인 button
- R30 ROBOT status: 비전 검사 신호, 플랜지 진입 신호, R30 로봇 사용, 실러 사용, 품질비전 검사 결과 적용

Data Table (Center):

시간	대차	모델	써루프	VIN	검사모드	결과
16:13:38	177	AD		FZF 671995	0	✓
16:12:26	159	PD		G3A 060985	0	✓
16:11:18	818	AD		FZF 671993	0	✓
16:09:34	298	AD		FZF 671991	0	✓
16:08:21	024	PD		G3A 060983	0	✓
16:07:12	194	AD		FZF 671985	0	✓
16:06:01	106	AD		FZF 671988	0	✓
16:04:51	107	AD		FZF 671986	0	✓
16:03:37	322	PD		G3A 060982	0	✓
16:02:28	306	AD		FZF 671980	0	✓
16:01:17	242	AD		FZF 671978	0	✓
16:00:06	041	AE		G7A 028854	0	✓
15:58:37	200	AD		FZF 671976	0	✓
15:57:47	036	AD		FZF 671974	0	✓
15:56:27	077	AE		G7A 028853	0	✓
15:54:25	223	AD		FZF 671972	0	✓
15:53:11	110	AD		FZF 671970	0	✓
15:52:02	097	AD		FZF 671971	0	✓
15:50:51	365	AD		FZF 671969	0	✓
15:49:49	092	AE		G2A 092359	0	✓
15:48:31	288	AD		FZF 671967	0	✓
15:47:20	169	AD		FZF 671965	0	✓
15:46:09	270	AE		G2A 092358	0	✓
15:44:59	113	AD		FZF 671963	0	✓
15:43:46	065	PD		G3A 060969	0	✓
15:42:37	355	AD		FZF 671477	0	✓
15:41:27	319	AD		FZF 671474	0	✓
15:40:15	263	PD		G3A 060863	0	✓
15:39:05	180	AE		G7A 028831	0	✓
15:37:35	095	AD		FZF 671756	0	✓
15:36:45	145	AD		FZF 671754	0	✓
15:35:35	134	AD		FZF 671932	0	✓
15:34:23	185	PD		G3A 060929	0	✓
15:33:13	123	PD		G3A 060977	0	✓
15:32:02	058	AD		FZF 671961	0	✓
15:30:51	243	PD		G3A 060928	0	✓
15:29:40	202	AD		G3A 060976	0	✓
15:27:15	337	AD		FZF 671954	0	✓
15:26:04	303	AD		FZF 671944	0	✓

Video Feed (Right): Shows a close-up of the roof sealing process with a green bounding box around the sealant application point.

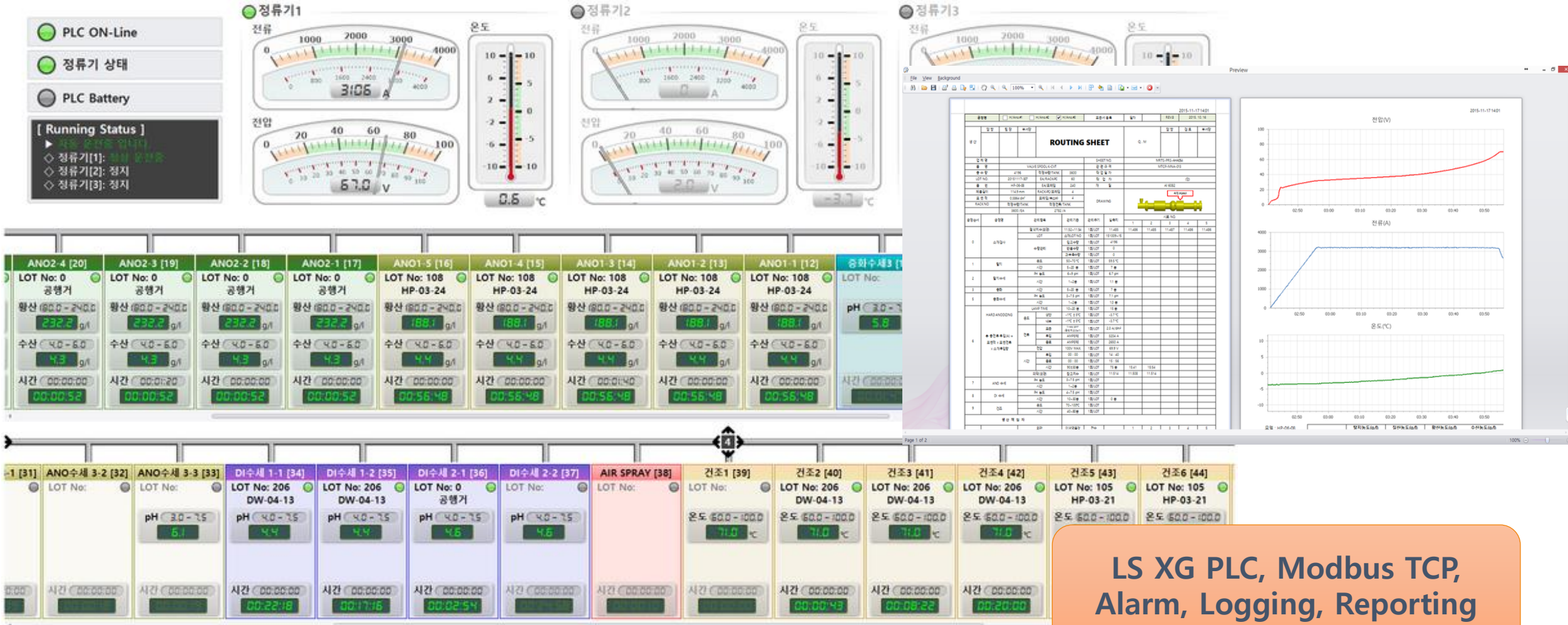
Production Summary (Bottom Right):

- 오늘 생산량: 208 (NG: 4)
- AD: 118 (NG: 2)
- AE: 69 (NG: 2)
- PD: 22 (NG: 0)

Bar Chart (Bottom Left): Shows production volume over 24 hours, with a peak around 10:00.

FAUNC Robot, Cognex, Deep-Learning

Plating Process Monitoring & Reporting



LS XG PLC, Modbus TCP, Alarm, Logging, Reporting