



INTRODUCTION

Company Profile

건솔루션(주)

Gunn Solution Co.,LTD.

TEL +82 1899-7487

FAX +82 505-380-7449

Smart Factory System

Engineering & Consulting Company

AGENDA



Overview

- 1.1 Introduction
- 1.2 History
- 1.3 Certification, Patents& Award
- 1.4 Business Area
- 1.5 FACON R&D Center

Define Smart Mafg. Innovation

- 2.1 Define Smart Mafg. Innovation
- 2.2 Gx-MES

Career & Key customer

- 3.1 Project Career
- 3.2 Key customer



Global standard technology for smart factory through the alliance.

Gun Solution is a company with OT and IT technology convergence with various companies

It is a leader in building smart factories.

We applied gun solution technology to international standard technology

It is reborn as a representative of exporting Korean smart manufacturing innovation solutions.

Company Name	건솔루션(주) Gunn Solution Co.,LTD.
Address	[Head / R&D center] 6 F 28, Iljik-ro 94beon-gil, Manan-gu, Anyang-si, Gyeonggi-do, 13901 Korea [Daegu Office] 329, Seongseo-ro, Dalseo-gu, Daegu 42703 Korea [Changwon Office] 36, Yongdong-ro 83beonan-gil, Uichang-gu, Changwon-si, Gyeongsangnam-do 51139 Korea [INDIA branch] Flat No.3, Manohar Apartment, Survey No.5/3, Erandwane, Pune411004,INDIA
Business Area	Service/software development and supply Wholesale and retail / Machine parts, machine tools, measuring instruments, Trade
Contact	TEL +82 1899-7487 FAX +82 505-380-7449
Employees	93
Establishment	2011.07.01

2023

- **Smart Manufacturing Innovation**

Establishment of 7 smart factory construction projects in 2023
[Q-InTech, TTS, Ilsun System, FineDNC, KAEngineering, etc.]

- **R&D Business**

Digital Innovation Mid-sized Enterprise Development Project in 2023
Development of CNC system technology for smart
manufacturing equipment (4th year)

- **Robot Business**

3 manufacturing robot leading distribution demonstration
projects/ 5 manufacturing robot plus businesses in 2023
[Dongwon Parts Co., Ltd., Dong-A Precision Ind., Bizn Mold, SPG]

- **Major Project**

Smart factory in INZI CONTROLS Hungary kft (Factory 3)
NEXPLUS SK s.r.o Smart Factory
NEX VINA CO., LTD. Builds Smart Factory
Education and Training Equipment in Cheongju Campus, Korea Polytechnic University
Construction of Chungnam Techno Park Processing Smartization Demonstration

- **Education Business**

ESG support project for youth-friendly enterprises will be carried out in 2023 [KHRC]
Development of AI convergence talents in the field of intelligent robots by 2023 [MTIE]
2023 Industry-Specified Short-Term Job Competency Certification Course Matchup
Project Progress [Ministry of Education]

- **Certification/ MOU**

Selection of promising small and medium-sized enterprises in Gyeonggi-do in 2023
MOU Agreement for South Incheon Campus of Korea Polytechnic University

2022

- **Smart Manufacturing Innovation**

Establishment of 7 smart factory construction projects in 2023
[Q-InTech, TTS, Ilsun System, FineDNC, KAEngineering, etc.]

- **Education Business**

ESG support project for youth-friendly enterprises [KHRC] / AI convergence talents in the intelligent robot [MTIE]
Industry-Specified Short-Term Job Competency Certification Course Matchup Project Progress [ME]

- **Robot Business**

4 manufacturing robot leading distribution demonstration projects
2 manufacturing robot plus businesses
[Ray Mold Co., Ltd., GNB Co., Seoyeon Top Metal Co., Ltd., Konec Co., Ltd., Cheongsan Kapling Co., Ltd.]

- **Major Project**

Smart factory in INZI CONTROLS Hungary kft (Factory 3)
NEXPLUS SK s.r.o Smart Factory

- **R&D Business**

[MTI] Digital Innovation Mid-sized Enterprise / CNC system technology for smart manufacturing Machine (3rd year)
[Kyungnam University LINC 3.0 Project Group] Industry-academic joint technology project

- **Certification/ MOU**

[Ministry of Employment and Labor]
Selection of Small and Medium-sized Enterprises
MOU Agreement for Seoul Jeongsu Campus of Korea Polytechnic University/ Family Enterprise Agreement of Gachon University

Certification, Patent and Award

Gunn Solution Co., Ltd. currently holds 19 certifications and confirmations, 7 trademark registrations and awards, and 8 patents and copyrights.



Certification

19



Patent Copyright

8



Trademark Award

7

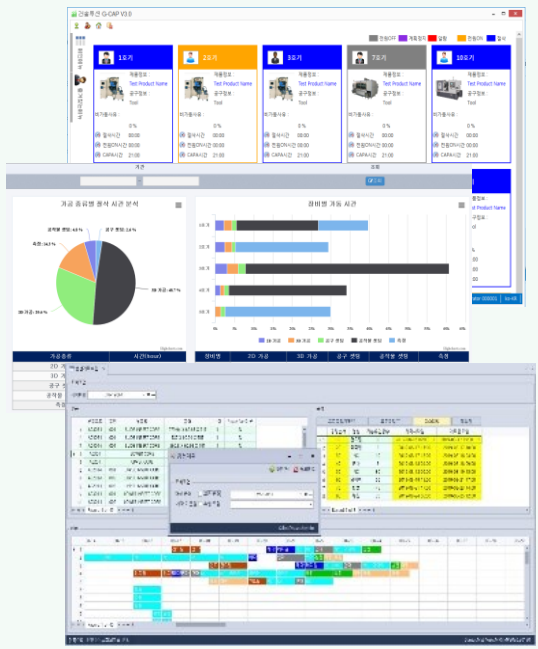


Business Area

Business Area of Gunn Solution Co., Ltd.
We are conducting business in various Area under four categories:
smart factory , education business, 5-axis solution, and Machine Tending.

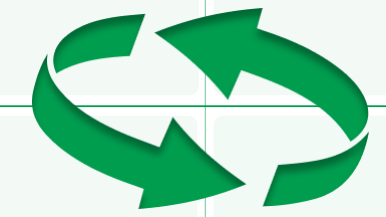
Smart Factory

- MES (Mfg. Execution system)
- POP (Point of Production)
- CAP (Monitoring)
- EIS (Executive Info)
- SPC (Statistical)
- WMS (Warehouse)
- TMS(TOOL)



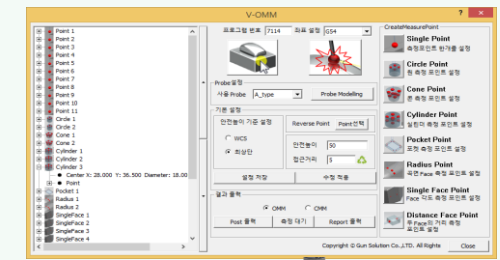
Education

- SmartFactory system
- Robot(ROS/MTS)
- Digital twin
- IIoT& Database
- Machine running



5Axis Machining

- Renishaw H/W
- (Probe/ Ballbar/Equator)
- OMV+ (기상(機上)측정)
- CAD/CAM (Siemens/Autodesk)
- & API develop
- H/W(Zig & vise)



Factory Automation

- ROBOT
- AGV/AMR
- Auto Loader
- Auto Feeder
- Clamp
- TIM



A company full of passion for manufacturing

Business Big 3 categories

1

IT Solution

MES/ CAP(Monitoring for Facilities)
ERP/ CRM/ QMS/ WMS/ TMS/ SPC/ EIS

2

OT Solution

Inspection (OMV+, Renishaw H/W)
Factory Automation
(Machine Tending, Co-Robot & AMR,
TIM/ FEMS/ D.N.A, CAD/ CAM)

3

Educational project

MOM System Training, Robot
Operation (ROS/MTS)
Digital Twin, IIOT&Database,
Machine Learning

FACON R&D Center

Through various Machine of the FACON R&D Center owned by Gunn Solution Co., Ltd
We developed Smart R&D solutions, smart factory system testbed, Renishaw Probe measurement, ROBOT Machine Tending automation system development, MES/POP/CAP/SPC/EIS, AGV, and AMR-linked solutions.

Machines LIST

FM 200 5AX (DNSolutions)	Controller : HEIDENHAIN
RoboDrill D14MiA5	Controller : FANUC 31i B5
SMEX SM400DH	Controller : Mitsubishi M700
DMG MORI CMX-50U	Controller : Simens 840D SL
Mazak VARIAXRX j-500/5X	Controller : SMOOTH
Hwacheon UH 500 32K	Controller : HEIDENHAIN
Hwacheon M2 5AX 20K	Controller : FANUC 31i B5
RoboDrill D14MiB5	Controller : FANUC 31i B5
LYNX 200	Controller : FANUC i-Series
MAGNIX MAG30T2X2	Controller : Brother CNC
COORD3 UNIVERSAL	Controller : CMM



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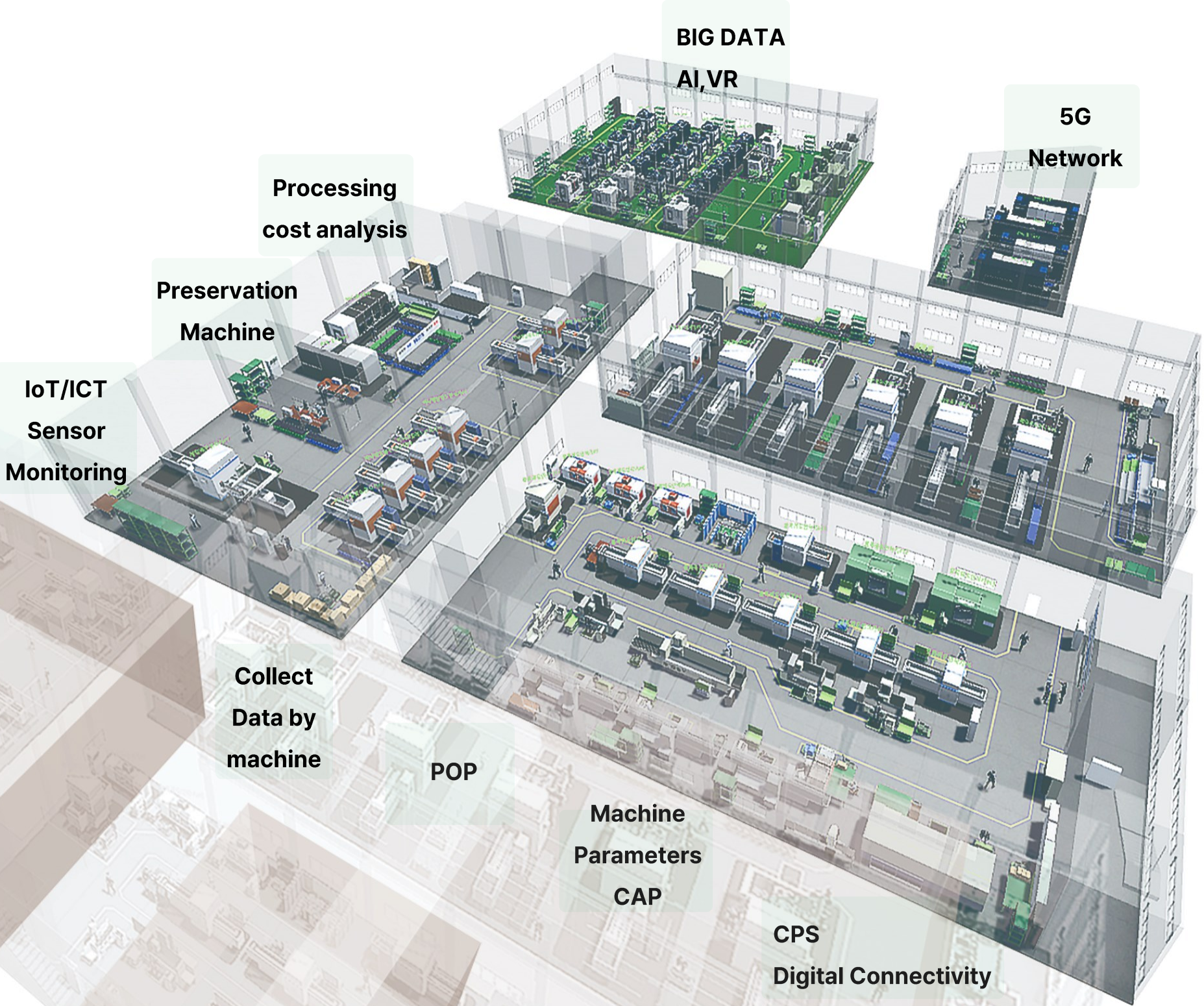
Robots LIST

M1013	Manufacturer : Doosan	Quantity : 6
H2017	Manufacturer : Doosan	Quantity : 1
H2515	Manufacturer : Doosan	Quantity : 1
M1509	Manufacturer : Doosan	Quantity : 2
Indy7	Manufacturer : Neuromeka	Quantity : 4
RB10-1300	Manufacturer : Rainbow	Quantity : 2
ABB	Manufacturer : ABB	Quantity : 1
UR3	Manufacturer : Universal	Quantity : 1
YS140	Manufacturer : HDRobotics	Quantity : 1
GoCart250	Manufacturer : Yujin	Quantity : 1
AGV	Manufacturer : Mostec	Quantity : 1



Smart Factory System With GUNN Solution

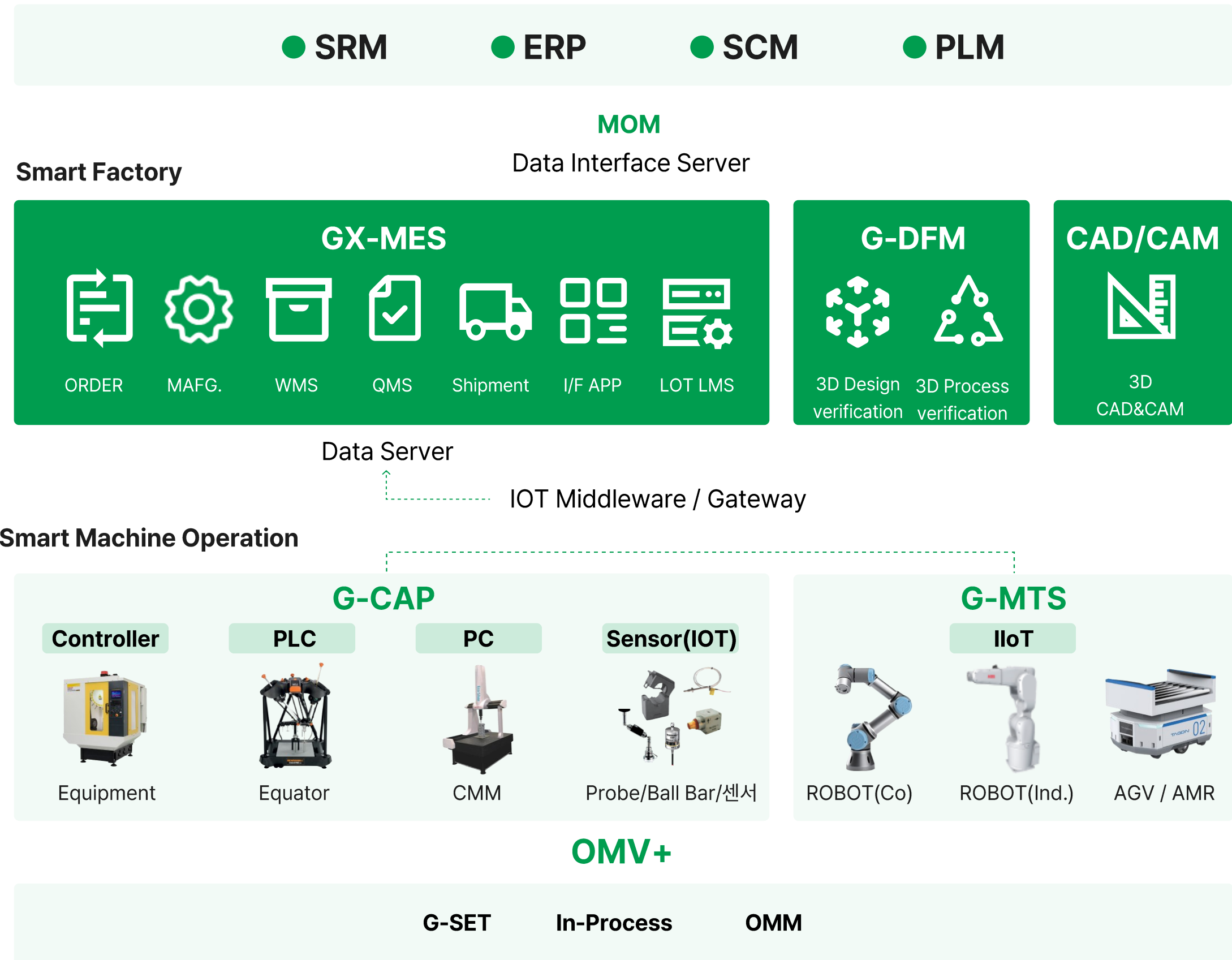
Through Gun Solution Co., Ltd.'s smart manufacturing innovation solution, the production system of small and medium-sized manufacturing companies It can change to a smart factory operating environment. If it changes to a smart factory It can effectively improve chronic problems such as short delivery times and defects of existing production systems, low utilization rates and inefficient work arrangements, as well as open new fields of manufacturing technology based on IT, ICT, and IoT technologies.



Solution of Smart Factory system

Smart Manufacturing Innovation Solutions

It is the most **efficient and optimized** way to achieve maximum manufacturing competitiveness compared to investment.



Gx-MES

Gx-MES Solution

Provides optimized production management packages

+ Consulting & Customizing

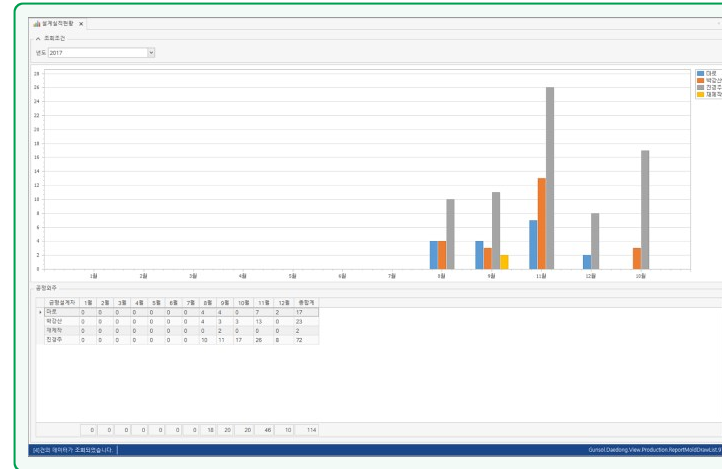
Partmaching (Asembly/ Mass)

Mold& Die(Injection/Stamping)

Industry (semiconductors/automobiles/aircraft/manufacturing)

+ Legacy System과의 DB I/F

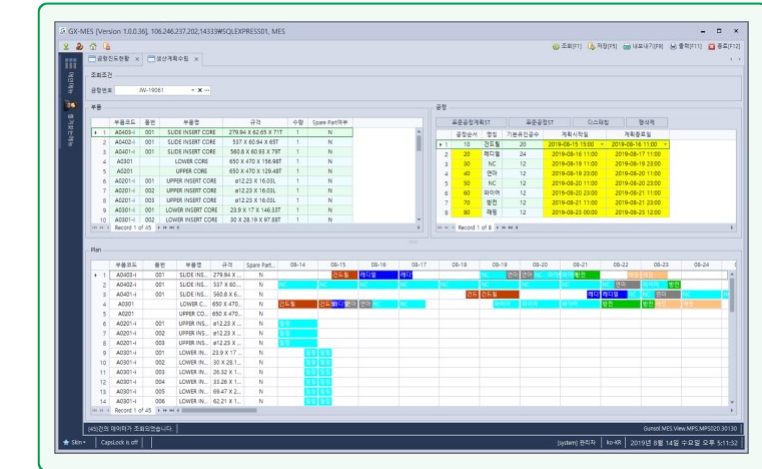
QMS



LoT LMS

출고LOT번호	입장번호	출장번호	출고일	출고수량	
16	OUT-1811-0000	장착용 MTA	PR000002	장착용 MTA	0
17	OUT-1811-0002	장착용 MTA	PR000002	장착용 MTA	0
18	OUT-1811-0006	장착용 MTA	PR000002	장착용 MTA	24
19	OUT-1811-0004	장착용 MTA	PR000002	장착용 MTA	24
20	OUT-1811-0000	장착용 MTA	PR000002	장착용 MTA	2
21	OUT-1811-0015	장착용 MTA	PR000002	장착용 MTA	2
22	OUT-1811-0006	장착용 MTA	PR000002	장착용 MTA	2
23	OUT-1811-0011	장착용 MTA	PR000002	장착용 MTA	2
24	OUT-1811-0012	장착용 MTA	PR000002	장착용 MTA	2
25	OUT-1811-0013	장착용 MTA	PR000002	장착용 MTA	2
26	OUT-1811-0014	장착용 MTA	PR000002	장착용 MTA	2
27	OUT-1811-0000	장착용 MTA	PR000002	장착용 MTA	2
28	OUT-1811-0004	장착용 MTA	PR000002	장착용 MTA	2
29	OUT-1811-0002	장착용 MTA	PR000002	장착용 MTA	2
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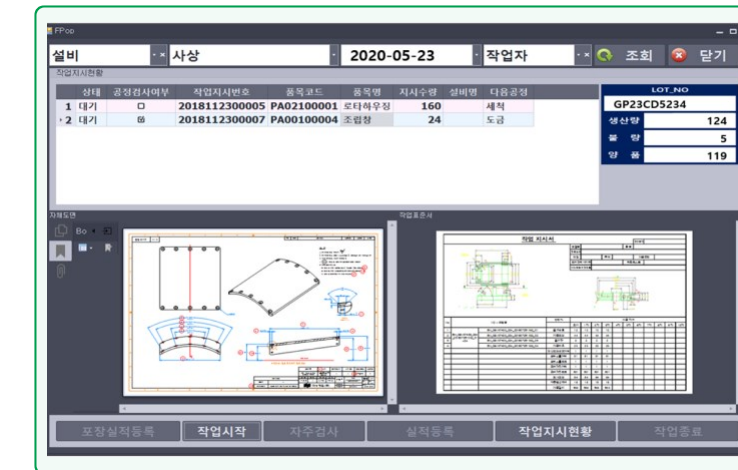
Mfg. Planing



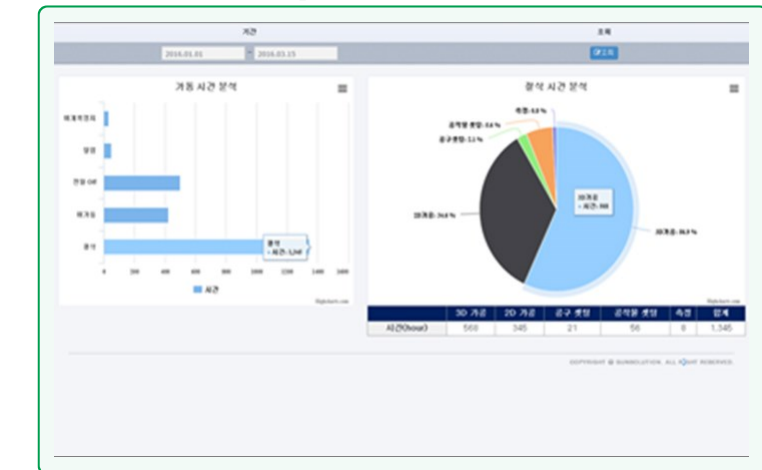
BOM(PL

구분	1	2	3	4	5	6	7	8	9	10
합계	0	0	0	0	0	0	0	0	0	0
불량	0	0	0	0	0	0	0	0	0	0
합계	0	0	0	0	0	0	0	0	0	0

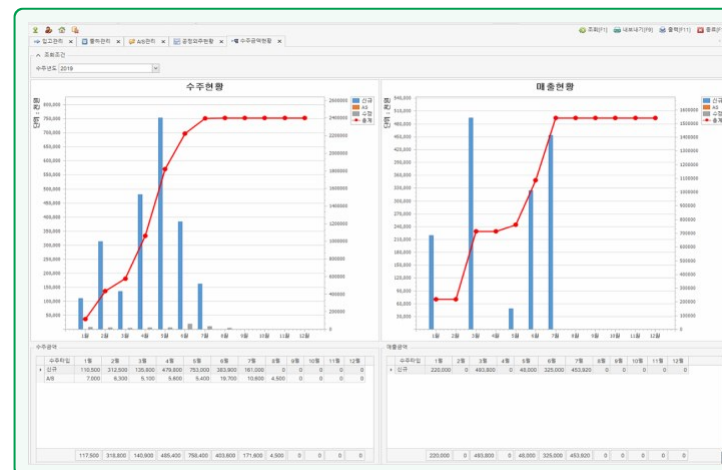
Point of Production



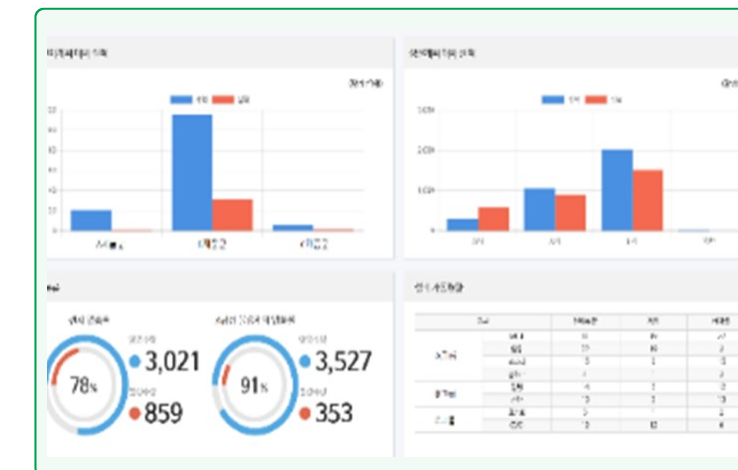
Machine I/F preservation



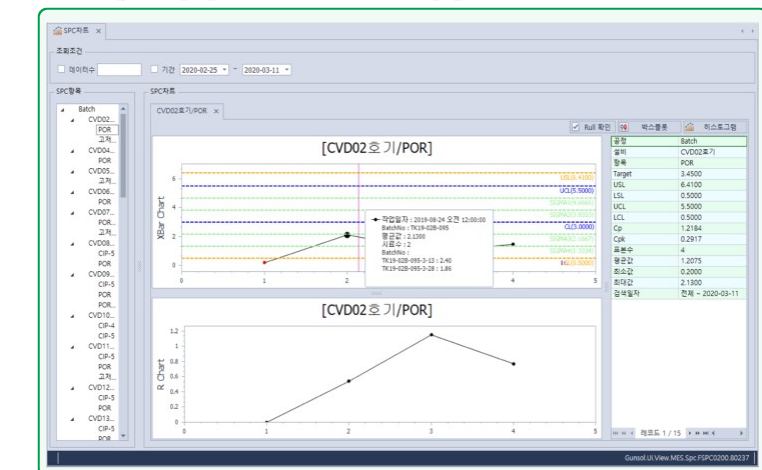
Real-time performance tally



EIS



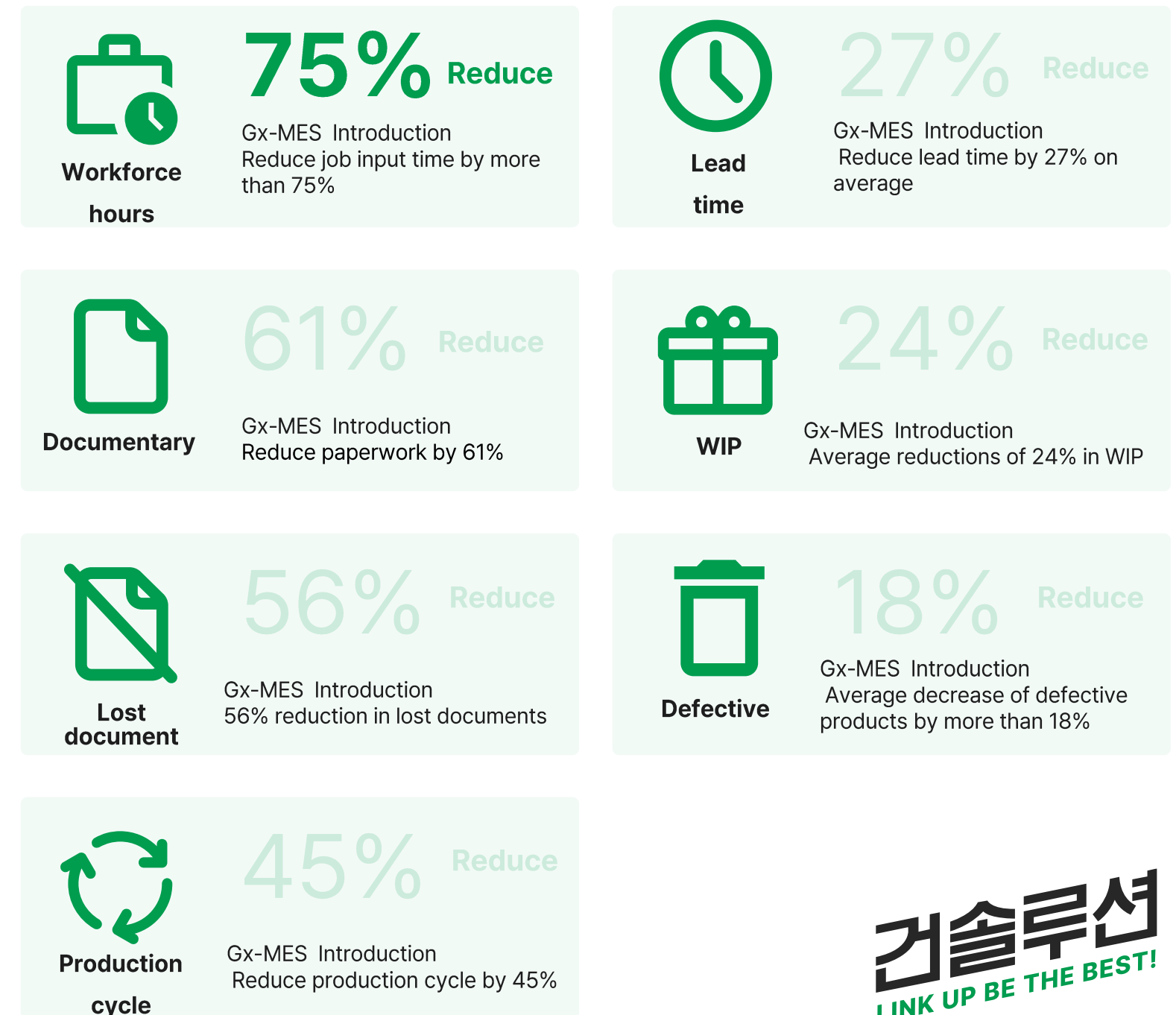
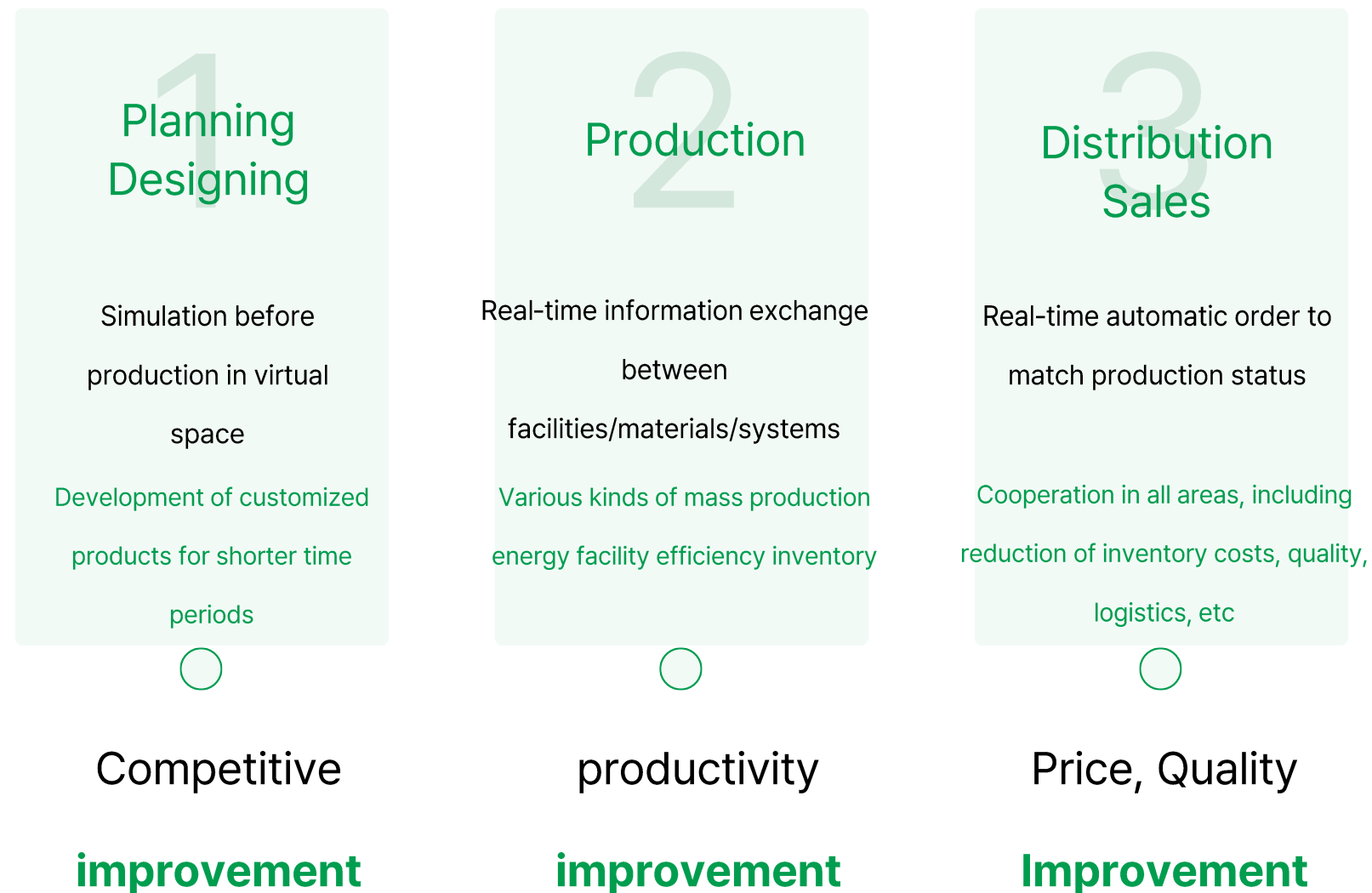
SQ (Supplier Quality)



Effect of application

Gx-MES

Gx-MES increase work efficiency and enterprise value.
Manufacturing process becomes smarter.



기술루션
LINK UP BE THE BEST!



CA Case

Customer &
Application
Case.

History of government R&D tasks

Project Career

The performance history and major performance of Gunn Solution Co., Ltd.'s government R&D project.

2021~2023 Total 21 cases

Major performance of project

Development of a real-time monitoring system for production of battery parts for eco-friendly cars
Advanced processing quality measurement process for high weight, large size mold parts
Development of In Line Messaging System Using Robot & Vision
AI robot-based bin-picking capable of responding to atypical objects in machine-tending (Bin Picking)
Process Smartization Solution Technology Development
Digital twin that can analyze/utilize small and medium enterprises' precision processing machine big data
3D monitoring SaaS development and commercialization
Development of Demand-Customized Smart HMI System Technology

2023



Fostering Digital Transformation Mid-sized Enterprises
For Smart Manufacturing Equipment
CNC System Technology Development (HMI)

2022



Process Quality Development
Innovative R&D



ICT R&D Innovation Voucher

2021



Fostering Global SaaS
Smart Manufacturing R&D



Major Customers

Major Customers

Part



Mold& Die



Mass



CAD/CAM





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Smart Factory System

Engineering & Consulting Company

Smart Factory System
with Gunn Solution Co., Ltd.

Thank You.