COMPANY PROFILE

JOYFACTORY| www.joyfactory.kr

JOYFACTORY CO.

 Zip Code : 08381
C-510, 70 Dusan-ro, Geumcheon-gu, Seoul, Korea
Tel : +82-2-6952-0351   Fax : +82-2-6952-0355
Cell : +82-10-3302-6217

JOYFACTORY

LIST

JOYFACTORY
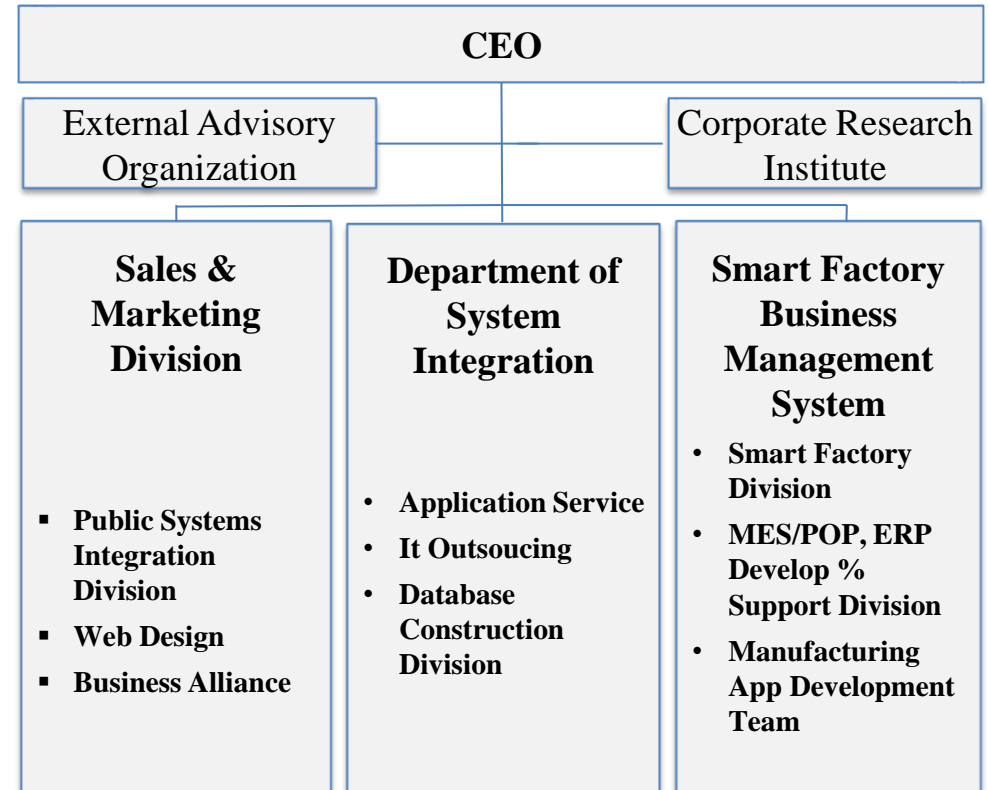SMART TOMORROW

JOYFACTORY Co., Ltd. focuses on one of the core areas of the Fourth Industrial Revolution: the smart factory, leveraging our accumulated IT capabilities and operational know-how.
We have developed and implemented numerous products and projects including ERP, MES/POP, POS systems, and applications.
Currently, we provide RT_FACTORY, a smart factory solution designed to optimize the production activities of enterprises, to numerous companies.

Providing high-quality, technology-intensive solutions that satisfy both businesses and people is the ultimate value and goal pursued by Joy Factory Co., Ltd.

•	**COMPANY**	**JOYFACTORY Co., Ltd.**
•	**CEO**	**Byeong Min, Lee**
•	**Business Areas**	• Smart Factory (MES/POP) • Information System Software Development • WEB / App • Warehouse Management System (WMS) • Procurement, Production, and Quality Management System (JKTSP) • SI, SM (Order, Membership Management, Logistics, Payment System) • Smart HACCP
•	**Address**	**Zip Code : 08381** **70 Dusan-ro, Geumcheon-gu, Seoul**
•	Phone Number	**TEL +82-2-6952-0354 FAX. +82-2-6952-0355**
•	Established Date	November 1, 2016
•	Personnel Status	**Advanced Expert:** 4, **Expert:** 4, **Intermediate:** 2, **Junior:** 3

CEO

External Advisory Organization

Corporate Research Institute

Sales & Marketing Division
- ▪ **Public Systems Integration Division**
- ▪ **Web Design**
- ▪ **Business Alliance**

Department of System Integration
- • **Application Service**
- • **It Outsoucing**
- • **Database Construction Division**

Smart Factory Business Management System
- • **Smart Factory Division**
- • **MES/POP, ERP Develop % Support Division**
- • **Manufacturing App Development Team**

JOYFACTORY
SMART TOMORROW

2022.11 Participated in SMATEC2022 Smart Factory Exhibition

2022.09 Launched Manufacturing Execution System course at Samsung Electronics Win-Win Cooperation Academy

2021.01 Delivered educational solutions to the Korea SMEs and Startups Agency

2020.10 Certified as an R&D Center

2020.09 Certified as a Venture Business (Korea Technology Finance Corporation)

2020.07 Operated Long-Term Advanced Training Program (MES) for employees at the Korea SMEs and Startups Agency

2020.01 Delivered educational solutions (RT_FACTORY) to the Korea SMEs and Startups Agency

2020.01 Appointed Technical Director of the Supplier Association at Gyeonggi Technopark

2020.01 Renamed the company to Joy Factory Co., Ltd.

2018.04 Registered as an excellent IT partner with Hanwha Corporation

2017.03 Registered as a supplier in the Smart Factory Public-Private Joint Promotion Pool

2017.01 Acquired Technology Evaluation Certification from the Korea Technology Finance Corporation

(Certification Number: 20170106733)

2016.11 Established the Smart Factory Business Division at JNK Infotech Co., Ltd.
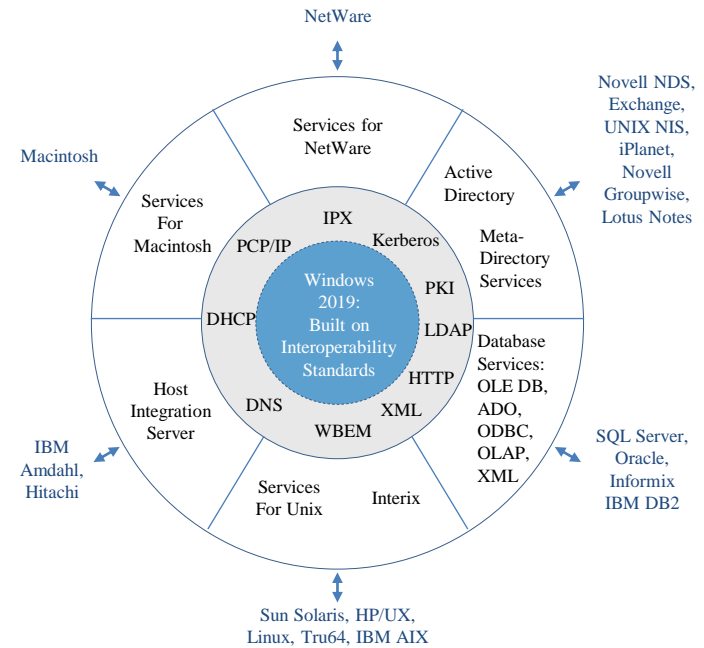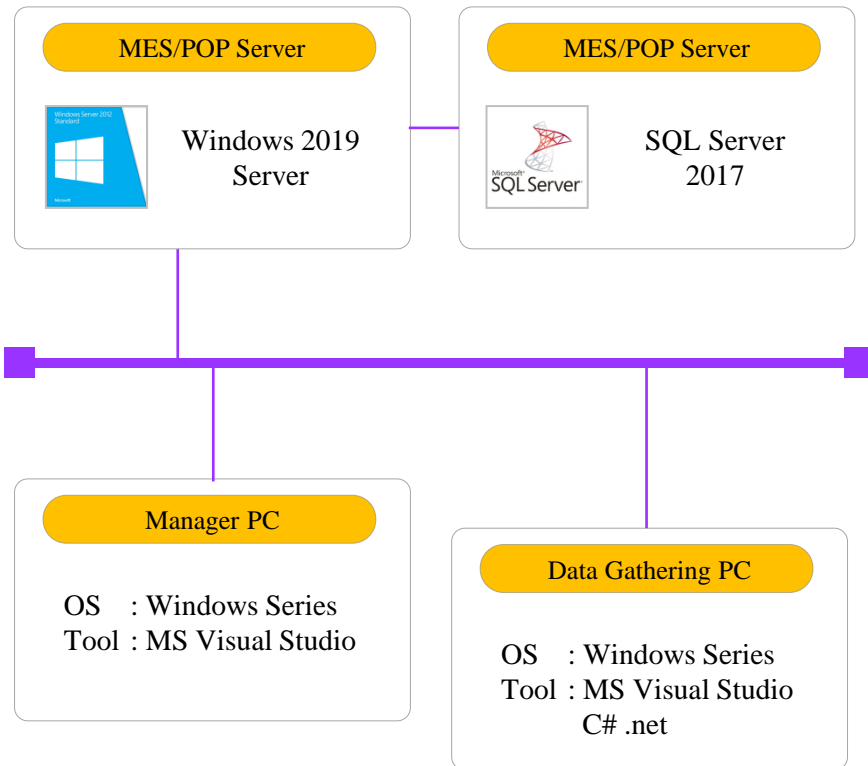
JOYFACTORY
SMART TOMORROW

We have a proven track record of implementing smart factory solutions across various industries, including semiconductor equipment, smart HAPS, injection molding, electronics, and de-icing agent processing. As a supplier for the "Smart Factory Deployment and Expansion Project" by the Korea Technology and Information Promotion Agency for SMEs (TIPA), we are actively involved in smart factory implementation projects.

㈜한화	㈜제일영농	㈜베이스	㈜사이언스프로버	㈜씰테크
㈜이지트로닉스 **2020년 경기 TP 우수사례 선정**	티에이치산업㈜	주식회사 스타스테크	㈜선경내셔날 **2019년 경기 TP 우수사례 선정**	태창기계공업㈜

JOYFACTORY
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Software Platform - RT_FACTORY

Software Platform

MES/POP Server	MES/POP Server
Windows 2019 Server	SQL Server 2017

Manager PC

OS : Windows Series
Tool : MS Visual Studio

Data Gathering PC

OS : Windows Series
Tool : MS Visual Studio
       C# .net

NetWare

Novell NDS, Exchange, UNIX NIS, iPlanet, Novell Groupwise, Lotus Notes

Macintosh

Services for NetWare

Active Directory

Services For Macintosh

Meta-Directory Services

IPX

PCP/IP   Kerberos

Windows 2019: Built on Interoperability Standards

PKI

DHCP   LDAP

Database Services: OLE DB, ADO, ODBC, OLAP, XML

Host Integration Server

HTTP

DNS   XML

WBEM

SQL Server, Oracle, Informix IBM DB2

IBM Amdahl, Hitachi

Services For Unix   Interix

Sun Solaris, HP/UX, Linux, Tru64, IBM AIX

Software Application Environment

DBMS : Microsoft SQL Server 2017

SERVER O/S : Windows 2019 Server

CLIENT O/S : Windows 10, 11

Development Tool : MS Visual Studio 2022
C#.net
VsFlexgrid / chart FX / CrystalReport

DB Connection : UDB Library
ODBC

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- System Management
- User Management
- Permission Management
- Version Management
- Screen Management

- Master Data Management
- Workplace Information
- Factory Information
- Department Information
- Employee Information
- Customer Information
- Item Group Information
- Item Information
- Item-Specific Customer Price Information
- Process Information
- Standard Routing Information
- BOM Management
- Routing Settings
- Process Condition Settings
- Quality Standard Settings
- Process-Wise Workstation Allocation
- Equipment Allocation
- Inventory Location Information
- Quality Standard Information
- Major Defect Classification Information
- Detailed Defect Classification Information
- Major Downtime Classification Information
- Detailed Downtime Classification Information
- Major Downtime Action Classification Information
- Detailed Downtime Action Classification Information
- User-Defined Major Code Classification Information
- User-Defined Detail Code Classification Information

- Sales Management
- Order Registration
- Shipping Plan Inquiry
- Shipping Registration
- Shipping Inquiry
- Product-wise Shipping Status
- Manufacturing Cost by Work Order

- Instrument Management
- Measurement Instrument Management
- Measurement Equipment Status

- Production Planning
- Production Plan Information Registration
- Line-wise Production Plan Establishment
- Line-wise Production Plan Division
- Line-wise Production Plan Inquiry

- Product Management
- Inbound Waiting Registration
- Inbound Waiting History Inquiry
- Inbound Registration
- Inbound Registration History Inquiry
- Monthly Product Inbound Aggregation
- Manual Label Issuance
- Packing Remainder Inquiry

- Project Management
- Project Basic Information
- Project Management
- Project Task Management
- Project Progress Status
- Project Resource Allocation Status
- Project Status Inquiry

- Process Management
- Real-time Process Inventory Status
- LOT Closing/Disposal - Daily Work Report
- Process-wise Defect Status
- Daily Work Report - LOT Closing Cancellation
- Production History by Date
- Workstation-wise Personnel Status
- Daily Item Group Plan vs. Actual Performance
- Process/Item-wise Performance Status
- Individual Daily Production Performance Status
- LOT Disposal Details
- Periodic Report Inquiry
- Work Order Inquiry
- Manufacturing Cost by Work Order

- Traceability Management
- Lot Traceability (Forward Traceability)
- Lot Traceability (Backward Traceability)
- Input Material History

- Facility Management
- Equipment Registration
- Equipment Inspection Settings
- Equipment Inspection Registration
- Downtime Action Registration and Inquiry
- Daily Equipment Downtime Status
- Equipment-wise Performance Status
- Equipment-wise Operation Status
- Line-wise Downtime Status
- Equipment-wise Defect Status
- Mold Registration
- Mold Condition Monitoring
- Mold-wise Production History
- Mold Repair Request Registration
- Mold Repair Request Reception
- Mold Repair Completion Registration
- Mold Repair Status Inquiry
- Mold Preservation History Inquiry
- Mold Transfer

- Quality Management
- Process-wise Defect Status
- Item-wise Defect Status
- Item Group-wise Defect Status
- Defect Type Aggregation
- Monthly and Quarterly Defect Analysis
- Daily Defect Variation
- Defect Item Occupancy Rate
- Monthly Item Group-wise Direct Pass Rate Status
- Process-wise Defect Item Occupancy Rate
- Quality Standard Run Chart
- Quality Standard Xbar-R Control Chart
- Quality Standard Cp/Cpk/Mean/Deviation
- Quality Standard Histogram

- Monitoring
- Production Status
- Sales Department Monitoring
- Production Department Monitoring
- Production and Delivery Status
- Daily Order Status

- Material Management
- Goods Receipt Registration
- Material Import Inspection
- Import Inspection Completion Status Inquiry
- Stock Receipt Registration
- Stock Receipt History Inquiry
- Work-in-Progress Inventory by Warehouse
- Manual Label Issuance
- Work-in-Progress Material Dispatch Registration
- Inventory Status by Rack

- Purchase Management
- Establishing Order Plan
- Material Requirements Planning (MRP)
- Purchase Request Registration
- Order Registration
- Order Status Inquiry
- Received/Unreceived Status Inquiry
- Arbitrary Order Registration

- Outsourcing Management
- Outsourcing Purchase Order Registration
- Outsourcing Dispatch Registration
- Outsourcing Receipt Registration
- Outsourcing Inventory Status

- On-Site Management
- Operator Registration
- Downtime Registration
- Production Status
- Defect Registration
- Quality Inspection Registration
- Work Start Registration
- Process Condition Inspection Registration
- Material Input
- Equipment Inspection
- Mold Installation
- Monitoring Screen

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RT_Control

PC GUI Application

•Touch Function

PDA Application

•PDA module settings

Performance Registration by Process
Worker Registration
Equipment Operation/Non-operation
Defect Registration
Input Material Registration
Equipment Inspection
Mold Mapping
Quality Inspection
Temperature Check
Lot Closing/Disposal

Machine Interface

•PLC Communication
•Serial Communication
•Machine Signal

Barcode Application

•Barcode Prints
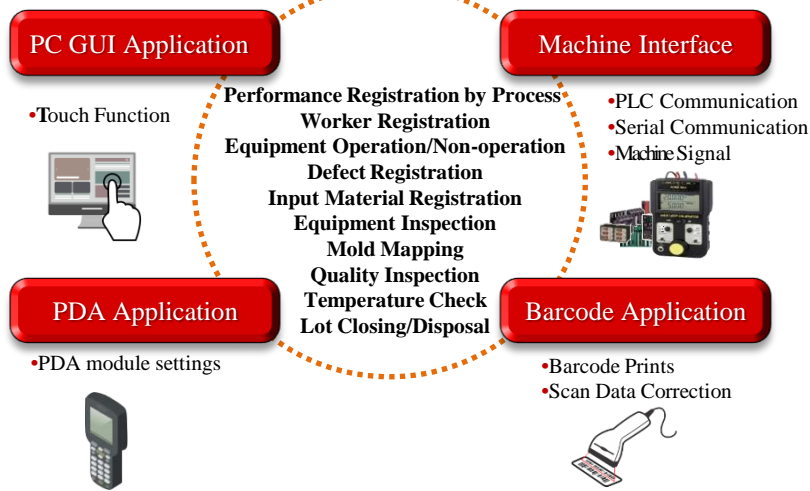•Scan Data Correction

● PRODUCT OVERVIEW

RT_Control is a POP system for efficient production and facility management by automatically aggregating and analyzing production site information from product input to completion at the manufacturing site using a computer and various automated equipment. RT_Control is a functional configuration and data capture method differ depending on the nature of the construction system.

Features of RT_Control

- Real-time collection of production site information, conversion to higher systems, and linkage

- Configuring a machine that has a Dependent on a parent machine

- Data capture with PC GUI, Barcode, PDA Application and facility interface module

- Minimize input by introducing and applying automation equipment

- Quickly and accurately capture data

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