Your growth partner, TwoWin System

TWOWIN SYSTEM PROFILE

W | TWOWIN SYSTEM

2024

Contents

(주)투원시스템

Company Overview

Overview	**TwoWin System** holds a total solution for smart factory-related systems such as MES (Manufacturing Execution System), Business Intelligence, Virtual Twin, Integrated Control Systems, AI (Artificial Intelligence), Automated Warehouses, and AGVs (Automated Guided Vehicles). We are continuously striving to unlock the growth potential of businesses.

N A M E	**TWOWIN SYSTEM**	C E O	CHOI JAE NAM
Date of Establishment	03 / 09 /2015	Business Registration Number	219-20-00238
Location	126-203, 41, Yutongdanji 1-ro Gangseo-gu, Busan	Industry	Application Software Development and Supply
Website	www.twowinsystem.co.kr	Key Products	스마트공장, AI(인공지능), Digital Twin(VR/AR), APS
Employees	22 (Solutions: 18, Customer Support: 2, Management: 4)	Revenue ('2022)	3,079,008,000 Won

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Business Area

Factory Operation Systems (MES)

- Specialized in implementing manufacturing systems for automotive parts, including Press, Heat Treatment, Surface Treatment, Injection Molding, and Assembly in root industries.

SMART HACCP

- Automated monitoring of Critical Control Points (CCP).

Business Intelligence

- Dashboards and Data Visualization
- Charts for Rapid Decision-Making

Big Data

- Optimization of processes and working conditions.
- Data processing, analysis, and visualization.

AI(Artificial Intelligence)

- Deep Learning solutions.
- Optimization of working conditions and prediction of outcomes.

APS(Advanced Planning and Scheduling)

- Optimization of available resources to meet delivery deadlines.
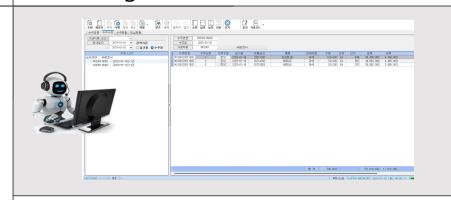- Optimal production scheduling.
- Inventory optimization.

기업의 성장판을 열어주는
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1. MES Solution Features

○ Consistent Management from Order to Delivery

01 Order Registration **Register and share customer order details**
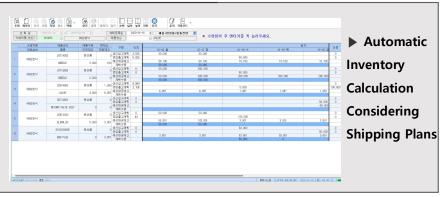

02 Production Planning **Establish production plans considering order information and available inventory.**

▶ **Automatic Inventory Calculation Considering Shipping Plans**

03 Production Management

▶ **Material Input Registration via Scanner**
▶ **Displayed on Screen:**
 - Work Standard Sheets
 - Q-Point

Real-time input and production management.
Provided via screens: Work Standard Sheets and Q-Point.

04 Shipping Management

PDA

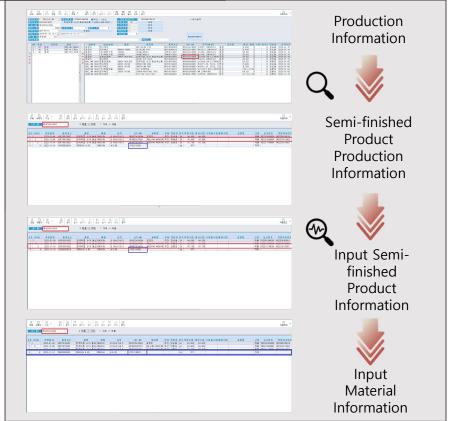▶ **Support for PDA-based Shipping Registration**

Shipping management based on orders.
First-In-First-Out (FIFO) control.

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1. MES Solution Features

○ LOT Tracking Management

01 | Forward Tracking

Production
Information

Semi-finished
Product
Production
Information

Input Semi-
finished
Product
Information

Input
Material
Information

Product → Material (Production history, Material receipt history)

02 | Reverse Tracking

Material
Receipt
Information

Semi-finished
Product Production
Information

Product
Information
Produced by
Inputting Semi-
finished
Products

Material → Product (Input information, Production product information)

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1. MES Solution Features

◯ **Implementation of a Paperless Production Site**

01 Work Order Management

▶ **Production Manager**
▶ **Register work orders**

Check work orders on-site (via KIOSK)

02 Select work orders

View work orders and select tasks on-site through the KIOSK

▶ **Work Order List**
▶ **Current Task Information**

03 Production Performance

▶ **Worker**: Register production performance.
▶ **Manager**: View daily production report.

On-site workers input production performance data via the KIOSK

04 Process Inspection Registration

▶ **In-process Inspection Registration**
▶ **Routine Inspection Registration**

Workers register in-process inspections.
Quality managers register routine inspections.

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기업의 성장판을 열어주는

1. MES Solution Features

○ Real-time Monitoring

01 Daily Task Monitoring **Daily Task Management, Pending Task Check**

02 Monthly Task Monitoring **Planned Task Management, Pending Task Check**

03 Production Monitoring **Real-time Production Monitoring**

04 Inventory Monitoring **Real-time Inventory Status Monitoring**

2. Business Intelligence

○ Data Analysis Visualization

01 종합현황 — 매출/매입/비용의 종합현황

02 생산현황 — 생산의 목표대비 달성율 모니터링

03 생산지표 — 월별 일평균으로 변화의 추리를 분석
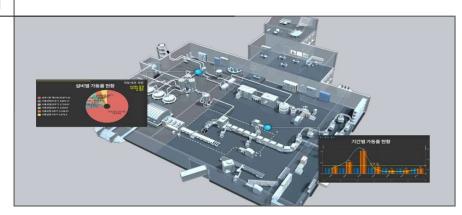
04 업체별 성과분석 — 업체의 성과 피라미드(전기대비)

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3. AR:Virtual Reality

01

02

03

04

Company Strengths

Smart Factory Capabilities

-. Over 20 years of experience with
4 top-level technicians.
-. In-house PLC experts: 2
-. Expertise in building top-tier smart factories.
-. Collaboration with specialized manufacturing
innovation enterprises

Technical Expertise & R&D

-. BI-based smart factory solutions.
-. In-house development of HMI Sensors.
-. In-house AI and Deep Learning
development.
-. Integrated control system solutions.

Excellence in All Aspects

Comprehensive

Solutions Provider in

H/W, S/W, PLC, N/W

Solutions

-. Injection molding and
electronic assembly.
-. Food industry.
-. Surface treatment.
-. Painting.
-. Heat treatment.
-. Press.
-. Precision machining
solutions.

Customer Support

-. 24-hour customer remote support system.
-. Available anytime, anywhere.

Experience & Collaboration

-. Extensive experience in building smart factories across
various industries.
-. Expertise in Data Warehousing, AI, OLAP & BI technologies.
-. Collaboration with BP
(mechanical design, processing companies).

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Company Strengths-Key Achievements

S M A R T F A C T O R Y	**Factory Operation System (MES)** • Donga Plating Co., Ltd. and 80 other companies.	**Data Analysis a n d Visualization**	• Donga Plating Co., Ltd. and 8 other companies.
A I	• Daesung Integrated Heat Treatment Co., Ltd. and 5 other companies	**V R / A R a n d Control Systems**	• Sambo Motors and 4 other companies
A P S	• Sigma and 2 other companies	**A u t o m a t e d Warehouse and A G V**	• Donga Plating Co., Ltd (First among SMEs)

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Smart Factory Established by TwoWin System -
Donga Plating Co., Ltd.

○ The first in the nation to be visited by **Samsung Electronics Chairman Lee Jae-yong**, on November 8, 2022.

한국경제   이코노미스트   미니투데이   전기신문
조선비즈   중앙일보   뉴스저널리즘   KNN   국제신문

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THANK YOU

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