

Global Factory-floor Software Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Factory-floor Software market size is expected to reach \$ 8863 million by 2032, rising at a market growth of 12.4% CAGR during the forecast period (2026-2032).

Factory-floor software (also called shop floor software) refers to a category of industrial software deployed and operated directly on the production workshop site, serving frontline manufacturing equipment, production operators, workshop supervisors, quality inspectors and logistics staff. It connects physical production assets (machine tools, production lines, sensors, AGVs, testing equipment) with digital management systems, covering real-time data collection, on-site execution control, workshop resource scheduling, on-site quality inspection and production tracking.

Unlike office-level ERP or enterprise-level PLM that focus on top-down enterprise planning, factory-floor software targets ****actual on-site production execution****. It collects real-time data from the shop floor, feeds back production status to upper management systems, and pushes scheduling, process and quality instructions down to frontline workers and machines. Its core objectives include reducing production downtime, eliminating paper-based workshop records, tracking work-in-progress (WIP), controlling on-site product quality, optimizing equipment utilization, and realizing transparent digital workshop management.

Typical application carriers include industrial touch screens, workshop industrial tablets, edge computing gateways, production line HMI terminals, and workshop local server clusters. It forms the core digital layer between industrial hardware and enterprise management platforms.

This report studies the global Factory-floor Software demand, key companies, and key

regions.

This report is a detailed and comprehensive analysis of the world market for Factory-floor Software, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Factory-floor Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Factory-floor Software total market, 2021-2032, (USD Million)

Global Factory-floor Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Factory-floor Software total market, key domestic companies, and share, (USD Million)

Global Factory-floor Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Factory-floor Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Factory-floor Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Factory-floor Software market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Siemens, Rockwell Automation, Schneider Electric (AVEVA MES), SAP Digital Manufacturing, Dassault Systèmes, Honeywell, ABB Ability MOM, GE Vernova, Emerson (AspenTech Manufacturing Software), Oracle Manufacturing Cloud, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Factory-floor Software market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and

2027-2032 as the forecast year.

Global Factory-floor Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Factory-floor Software Market, Segmentation by Type:

Cloud-Based

On-premise

Global Factory-floor Software Market, Segmentation by Core Production Execution Functional Orientation:

MES (Manufacturing Execution System) Shop Floor Core Software

HMI Human-Machine Interface Shop Floor Software

QMS On-Site Quality Execution Software

Equipment & OEE Shop Floor Management Software

On-Site Material & Logistics Execution Software

Digital Kanban & Visualization Shop Floor Software

Workshop Energy Monitoring Shop Floor Software

Global Factory-floor Software Market, Segmentation by Application:

Automotive

Pharmaceutical

Food & Beverage

Electronics & Semiconductor

Others

Companies Profiled:

Siemens

Rockwell Automation

Schneider Electric (AVEVA MES)

SAP Digital Manufacturing

Dassault Syst?mes

Honeywell

ABB Ability MOM

GE Vernova

Emerson (AspenTech Manufacturing Software)

Oracle Manufacturing Cloud

Infor MES

Epicor

Yokogawa

Mitsubishi Electric

iBASEt

Critical Manufacturing

Tulip Interfaces

Parsec

QAD

Aptean

Inductive Automation

Samsung SDS

Hitachi

Asprova

LG CNS

SUPCON

Baosight Software

RootCloud

Black Lake Technologies

Digiwin

Key Questions Answered

1. How big is the global Factory-floor Software market?
2. What is the demand of the global Factory-floor Software market?
3. What is the year over year growth of the global Factory-floor Software market?
4. What is the total value of the global Factory-floor Software market?
5. Who are the Major Players in the global Factory-floor Software market?
6. What are the growth factors driving the market demand?

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