

# Global Robot Human-Machine Interface (HMI) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Robot Human-Machine Interface (HMI) market size is expected to reach \$ 405 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

A robot human-machine interface system is the command, monitoring, and programming entry point for industrial robots, collaborative robots, and robotic workcells. Its core role is to translate an operator's task intent, safety confirmation, process parameters, and maintenance instructions into data and workflows executable by the robot controller, while feeding back robot status, program logic, alarms, trajectories, and process results to on-site personnel through understandable graphics, touch interaction, physical keys, or mobile terminals. The system typically consists of handheld teach pendants, tablet-style touch terminals, controller-embedded interfaces, PC software, mobile applications, SDKs, and customized HMI components, and is integrated with robot controllers, safety circuits, I/O, vision, force control, welding, palletizing, machine tending, and other process modules. Typical customers include robot OEMs, system integrators, automotive, electronics, metalworking, food and beverage, logistics, and education and training users. It is mainly used for robot teaching and programming, jogging and commissioning, operation monitoring, parameter configuration, fault diagnosis, access control, and production-cell visualization. Delivery formats may include standard accessories bundled with robot controllers and robot bodies, optional hardware, software licenses, plug-in development tools, or customized interfaces sold with application-specific system integration projects.

The industrial value of robot human-machine interface systems is expanding from a single teach terminal into the on-site operation entry point, process configuration entry point, and data feedback entry point for robot applications. Traditional robot teach

pendants mainly handle jogging, trajectory recording, program start-up, and alarm confirmation, while next-generation systems place greater emphasis on touchscreens, graphical programs, 3D visualization, drag-and-drop nodes, process wizards, and user access management. These capabilities translate complex robot control logic into workflows that production personnel can understand. As collaborative robots, flexible manufacturing, and high-mix low-volume production scenarios increase, end users' demand for low-barrier deployment, fast changeover, low-code commissioning, and reusable process templates continues to rise, driving robot HMI from a controller accessory into a critical hardware and software system that improves robot usability and deployment efficiency.

From the demand side, the growth foundation for robot human-machine interface systems comes from rising robot penetration in manufacturing and the expansion of robot applications into more scenarios. Automotive, electronics, and metalworking remain important consumption areas for high-end robot HMI because these industries have stringent requirements for cycle time, accuracy, safety, and process stability. At the same time, food and beverage, warehousing and logistics, education and training, medical assistance, and general manufacturing are driving demand for more usable, lightweight, and configurable robot interfaces. Collaborative robot and light industrial automation scenarios place particular emphasis on no-code programming, intuitive touch interaction, task templates, and rapid redeployment, making HMI not only a tool for professional engineers but also a production management entry point for shift leaders, maintenance personnel, and general operators.

From the supply side, the robot HMI market features a coexistence of robot OEM bundling, controller ecosystem extension, and specialized terminal supply. Robot OEMs typically deliver teach pendants, controller interfaces, and robot operating software as part of an integrated robot solution to ensure consistency across motion control, safety logic, and application programs. Specialized suppliers complement this structure through mobile HMI, safety-certified terminals, touchscreen hardware, and customized interface development. Future competition will focus on software extensibility, cross-platform compatibility, remote diagnostic capability, safety compliance, and the accumulation of process application templates. As robots move from standalone automation toward workcells, production lines, and multi-robot collaboration, HMI will increasingly undertake workcell-level monitoring, application orchestration, and human-robot collaboration management functions.

This report studies the global Robot Human-Machine Interface (HMI) demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robot Human-Machine Interface (HMI), 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 Robot Human-Machine Interface (HMI) that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global Robot Human-Machine Interface (HMI) total market, 2021-2032, (USD Million)  
Global Robot Human-Machine Interface (HMI) total market by region & country, CAGR, 2021-2032, (USD Million)  
U.S. VS China: Robot Human-Machine Interface (HMI) total market, key domestic companies, and share, (USD Million)  
Global Robot Human-Machine Interface (HMI) revenue by player, revenue and market share 2021-2026, (USD Million)  
Global Robot Human-Machine Interface (HMI) total market by Core Function, CAGR, 2021-2032, (USD Million)  
Global Robot Human-Machine Interface (HMI) total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Robot Human-Machine Interface (HMI) 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 ABB Ltd., FANUC Corporation, KUKA AG, Universal Robots A/S, Yaskawa Electric Corporation, Kawasaki Heavy Industries, Ltd., DENSO WAVE Incorporated, Seiko Epson Corporation, NACHI-FUJIKOSHI CORP., St?ubli International AG, 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 Robot Human-Machine Interface (HMI) market

#### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Core Function, 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 Robot Human-Machine Interface (HMI) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Robot Human-Machine Interface (HMI) Market, Segmentation by Core Function:

Teaching and Programming Interaction System

Operation Monitoring Interaction System

Parameter Configuration Interaction System

Safety Confirmation Interaction System

Fault Diagnosis Interaction System

Process Application Interaction System

Other

## Global Robot Human-Machine Interface (HMI) Market, Segmentation by Programming Paradigm:

Code Instruction Programming Interaction System

Graphical Workflow Programming Interaction System

Drag-to-Teach Programming Interaction System

Template Wizard Programming Interaction System

Plug-in Extended Programming Interaction System

3D Visualization Programming Interaction System

Other

## Global Robot Human-Machine Interface (HMI) Market, Segmentation by Safety Configuration:

Emergency Stop Integrated Interaction System

Three-position Enabling Interaction System

Permission Login Interaction System

Safety Zone Confirmation Interaction System

Manual and Automatic Mode Switching Interaction System

Remote Control Authorization Interaction System

Other

## Global Robot Human-Machine Interface (HMI) Market, Segmentation by Application:

Industrial Robot Teaching and Programming

Collaborative Robot Rapid Deployment

Welding and Painting Process Operation

Machine Tending Production Operation

Palletizing and Handling Workcell Operation

Education, Training, and Simulation Operation

Equipment Maintenance and Fault Diagnosis

Multi-robot Workstation Monitoring

Other

#### Companies Profiled:

ABB Ltd.

FANUC Corporation

KUKA AG

Universal Robots A/S

Yaskawa Electric Corporation

Kawasaki Heavy Industries, Ltd.

DENSO WAVE Incorporated

Seiko Epson Corporation

NACHI-FUJIKOSHI CORP.

Stäubli International AG

Comau S.p.A.

DAIHEN Corporation

Doosan Robotics Inc.

HD Hyundai Robotics Co., Ltd.

Hanwha Robotics Co., Ltd.

Delta Electronics, Inc.

Techman Robot Inc.

NexCOBOT Co., Ltd.

ESTUN Automation Co., Ltd.

SIASUN Robot & Automation Co., Ltd.

EFORT Intelligent Robot Co., Ltd.

DOBOT Robotics

AUBO Robotics

JAKA Robotics Co., Ltd.

Elite Robots Co., Ltd.

Mitsubishi Electric Corporation

OMRON Corporation

### Key Questions Answered

1. How big is the global Robot Human-Machine Interface (HMI) market?
2. What is the demand of the global Robot Human-Machine Interface (HMI) market?

3. What is the year over year growth of the global Robot Human-Machine Interface (HMI) market?
4. What is the total value of the global Robot Human-Machine Interface (HMI) market?
5. Who are the Major Players in the global Robot Human-Machine Interface (HMI) market?
6. What are the growth factors driving the market demand?



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