**Human Machine Interface (HMI) Market Research Report- Global Forecast to 2023**

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### Human Machine Interface Research Report: By Components (Hardware, Software), Configuration Type (Standalone, Embedded), End User (Automotive, Semiconductor, Pharmaceutical, Oil & Gas, Food & Beverages, Aerospace & Defense) – Global Forecast till 2023

**Market Synopsis of Human Machine Interface Market:**

**Market Scenario:**

Human machine interface (HMI) refers to a technology that provides connection between operator and controller in an industrial system. Industrial control systems (ICS) comprise of integrated hardware and software, designed to monitor and control the operation of machinery and related devices in industrial environment.

Technology giants such as ABB Ltd. (Switzerland), Advantech Co., Ltd. (Taiwan), Emerson Electric Co. (U.S.), General Electric Co. (U.S.), Honeywell International Inc. (U.S.). ABB Ltd. a prominent player in human machine interface market has designed a premium technology named ABB’s System 800xA DCS with its leading object oriented engineering platform, it can be used in a variety of diverse industries, ranging from a single operator workstation with 50 signals and scale up to applications with several thousand signals and workplaces.

Major factors driving the human machine interface market includes growing adoption of industrial automation equipment in the manufacturing sector, emergence of industrial internet of things (IIoT) and demand for smart automation solution, efficient monitoring in the manufacturing plant are aiding HMI market.

The global human machine interface market has been segmented on the basis of components, configuration type and end user. The components segment comprise of hardware and software. The hardware segment consists of basic HMI, advanced panel-based HMI, advanced PC-based HMI and others. By configuration type, the market is segmented into standalone and embedded. The market for embedded HMI solution is expected to grow at a higher. Owing to rapid technological developments, increasing need of integrated systems, and emergence of machine-to-machine (M2M) communication technology that ease the operational work are some of the significant factors expected to promote the adoption of embedded HMI solutions. By software segment, the cloud-based HMIs are gaining popularity owing to the growing industrial internet of things market and increasing demand for new technology by end-user industries. Furthermore, the cloud-based HMIs are being increasingly adopted as it provides better visibility and competitive edge as compared to others.

The North American region holds the largest market share of the market across the globe followed by Europe, and Asia Pacific regions. U.S. and Canada are dominating the North America market is due to rising technological enhancements, the R&D activities in the areas of HMI is increasing owing to the increased adoption of IoT and machine-to-machine communication (M2M) in numerous industries in this region. Asia Pacific region is expected to grow with the highest CAGR. Owing to growing manufacturing sector, advanced industrial operation monitoring technology.

The global human machine interface market is expected to grow at a CAGR of approximately 9% during the forecast period 2017-2023.
Key Players

Some of the prominent players in the global human machine interface market: ABB Ltd. (Switzerland), Advantech Co., Ltd. (Taiwan), Emersion Electric Co. (U.S.), General Electric Co. (U.S.), Honeywell International Inc. (U.S.), Kontron AG (Germany), Mitsubishi Electric Corporation (Japan), Rockwell Automation, Inc. (U.S.), Schneider Electric SE (France), Siemens AG (Germany), Yokogawa Electric Corporation (Japan) among others.

Segments

The global human machine interface market is segmented by components, configuration type and end-user. Based on components segment, the market is bifurcated into hardware and software. The hardware segment consists of basic HMI, advanced panel-based HMI, advanced PC-based HMI and others. By configuration type, the market is segmented into standalone HMI and embedded HMI. By end-user segment, the market is segmented into automotive, semiconductor, pharmaceutical, oil & gas, food & beverages and others.

Regional Analysis

The global human machine interface market is studied for Asia Pacific, North America, Europe, and Rest of the World. It has been observed that North America region accounts for the largest share of the market. Asia Pacific region is expected to show the highest growth opportunities in the market owing to increase in industrial sector, advance technology implementation in manufacturing unit, rising popularity of machine to machine communication are the main factors fuelling the market growth.

Intended Audience

- Technology Investors
- Research/Consultancy firms
- Technology Solution Providers
- Government Bodies
- Industrial automation equipment providers
- Market research and consulting firms
- Original equipment manufacturers (OEMs)
- Research institutes and organizations

Contents:

1 Executive Summary
2 Scope of the Report
2.1 Market Definition
2.2 Scope of the Study
2.2.1 Research Objectives
2.2.2 Assumptions & Limitations
2.3 Markets Structure

3 Market Research Methodology
3.1 Research Process
3.2 Secondary Research
3.3 Primary Research
3.4 Forecast Model

4 Market Landscape
4.1 Five Forces Analysis
4.1.1 Threat of New Entrants
4.1.2 Bargaining power of buyers
4.1.3 Threat of substitutes
4.1.4 Segment rivalry
4.2 Value Chain/Supply Chain of Global Human Machine Interface Market

5 Industry Overview of Global Human Machine Interface Market
5.1 Introduction
5.2 Growth Drivers
5.3 Impact analysis
5.4 Market Challenges

6 Market Trends
6.1 Introduction
6.2 Growth Trends
6.3 Impact analysis

7. Global Human Machine Interface Market by Components
7.1 Introduction
7.2 Hardware
7.2.1 Market Estimates & Forecast, 2017-2023
7.2.2 Market Estimates & Forecast by Region, 2017-2023
7.2.1 Basic HMI
7.2.1.1 Market Estimates & Forecast, 2017-2023
7.2.1.2 Market Estimates & Forecast by Region, 2017-2023
7.2.2 Advanced Panel-Based HMI
7.2.2.1 Market Estimates & Forecast, 2017-2023
7.2.2.2 Market Estimates & Forecast by Region, 2017-2023
7.2.3 Advanced PC-Based HMI
7.2.3.1 Market Estimates & Forecast, 2017-2023
7.2.3.2 Market Estimates & Forecast by Region, 2017-2023
7.2.4 Others
7.2.4.1 Market Estimates & Forecast, 2017-2023
7.2.4.2 Market Estimates & Forecast by Region, 2017-2023
7.3 Software
7.3.1 Market Estimates & Forecast, 2017-2023
7.3.2 Market Estimates & Forecast by Region, 2017-2023

8. Global Human Machine Interface Market by Configuration Type
8.1 Introduction
8.2 Stand-alone HMI
  8.2.1 Market Estimates & Forecast, 2017-2023
  8.2.2 Market Estimates & Forecast by Region, 2017-2023
8.3 Embedded HMI
  8.3.1 Market Estimates & Forecast, 2017-2023
  8.3.2 Market Estimates & Forecast by Region, 2017-2023

9. Global Human Machine Interface Market by End-User
  9.1 Introduction
  9.2 Automotive
    9.2.1 Market Estimates & Forecast, 2017-2023
    9.2.2 Market Estimates & Forecast by Region, 2017-2023
  9.3 Oil and Gas
    9.3.1 Market Estimates & Forecast, 2017-2023
    9.3.2 Market Estimates & Forecast by Region, 2017-2023
  9.4 Energy and Power
    9.4.1 Market Estimates & Forecast, 2017-2023
    9.4.2 Market Estimates & Forecast by Region, 2017-2023
  9.5 Food and Beverages
    9.5.1 Market Estimates & Forecast, 2017-2023
    9.5.2 Market Estimates & Forecast by Region, 2017-2023
  9.6 Pharmaceutical
    9.6.1 Market Estimates & Forecast, 2017-2023
    9.6.2 Market Estimates & Forecast by Region, 2017-2023
  9.7 Others
    9.7.1 Market Estimates & Forecast, 2017-2023
    9.7.2 Market Estimates & Forecast by Region, 2017-2023

10. Global Human Machine Interface Market by Region
  10.1 Introduction
  10.2 North America
    10.2.1 Market Estimates & Forecast, 2017-2023
    10.2.2 Market Estimates & Forecast by Components, 2017-2023
    10.2.3 Market Estimates & Forecast by Configuration Type, 2017-2023
    10.2.4 Market Estimates & Forecast by End-User, 2017-2023
    10.2.5 U.S.A
      10.2.5.1 Market Estimates & Forecast, 2017-2023
      10.2.5.2 Market Estimates & Forecast by Components, 2017-2023
      10.2.5.3 Market Estimates & Forecast by Configuration Type, 2017-2023
      10.2.5.4 Market Estimates & Forecast by End-User, 2017-2023
    10.2.6 Mexico
    10.2.7 Canada
      10.2.7.1 Market Estimates & Forecast, 2017-2023
      10.2.7.2 Market Estimates & Forecast by Components, 2017-2023
      10.2.7.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.2.7.4 Market Estimates & Forecast by End-User, 2017-2023
10.3 Europe
10.2.1 Market Estimates & Forecast, 2017-2023
10.2.2 Market Estimates & Forecast by Components, 2017-2023
10.2.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.2.4 Market Estimates & Forecast by End-User, 2017-2023
10.3.5 Germany
10.3.5.1 Market Estimates & Forecast, 2017-2023
10.3.5.2 Market Estimates & Forecast by Components, 2017-2023
10.3.5.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.3.5.4 Market Estimates & Forecast by End-User, 2017-2023
10.3.6 France
10.3.6.1 Market Estimates & Forecast, 2017-2023
10.3.6.2 Market Estimates & Forecast by Components, 2017-2023
10.3.6.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.3.6.4 Market Estimates & Forecast by End-User, 2017-2023
10.3.7 Italy
10.2.7.1 Market Estimates & Forecast, 2017-2023
10.2.7.2 Market Estimates & Forecast by Components, 2017-2023
10.2.7.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.2.7.4 Market Estimates & Forecast by End-User, 2017-2023
10.3.8 Spain
10.2.8.1 Market Estimates & Forecast, 2017-2023
10.2.8.2 Market Estimates & Forecast by Components, 2017-2023
10.2.8.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.2.8.4 Market Estimates & Forecast by End-User, 2017-2023
10.3.10 U.K
10.3.10.1 Market Estimates & Forecast, 2017-2023
10.3.10.2 Market Estimates & Forecast by Components, 2017-2023
10.3.10.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.3.10.4 Market Estimates & Forecast by End-User, 2017-2023
10.4 Asia Pacific
10.4.1 Market Estimates & Forecast, 2017-2023
10.4.2 Market Estimates & Forecast by Components, 2017-2023
10.4.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.4.4 Market Estimates & Forecast by End-User, 2017-2023
10.4.5 China
10.4.5.1 Market Estimates & Forecast, 2017-2023
10.4.5.2 Market Estimates & Forecast by Components, 2017-2023
10.4.5.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.4.5.4 Market Estimates & Forecast by End-User, 2017-2023
10.4.6 India
10.4.6.1 Market Estimates & Forecast, 2017-2023
10.4.6.2 Market Estimates & Forecast by Components, 2017-2023
10.4.6.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.4.6.4 Market Estimates & Forecast by End-User, 2017-2023
10.4.7 Japan
10.4.7.1 Market Estimates & Forecast, 2017-2023
10.4.7.2 Market Estimates & Forecast by Components, 2017-2023
10.4.7.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.4.7.4 Market Estimates & Forecast by End-User, 2017-2023
10.4.8 Rest of Asia Pacific
10.4.8.1 Market Estimates & Forecast, 2017-2023
10.4.8.2 Market Estimates & Forecast by Components, 2017-2023
10.4.8.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.4.8.4 Market Estimates & Forecast by End-User, 2017-2023
10.5 Rest of the World
10.5.1 Market Estimates & Forecast, 2017-2023
10.5.2 Market Estimates & Forecast by Components, 2017-2023
10.5.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.5.4 Market Estimates & Forecast by End-User, 2017-2023
10.6 Latin America
10.6.1 Market Estimates & Forecast, 2017-2023
10.6.2 Market Estimates & Forecast by Components, 2017-2023
10.6.3 Market Estimates & Forecast by Configuration Type, 2017-2023
10.6.4 Market Estimates & Forecast by End-User, 2017-2023
11. Company Landscape
12. Company Profiles
12.1 ABB Ltd. (Switzerland)
12.1.1 Company Overview
12.1.2 Product/Business Segment Overview
12.1.3 Financial Updates
12.1.4 Key Developments
12.2 Advantech Co., Ltd. (Taiwan)
12.2.1 Company Overview
12.2.2 Product/Business Segment Overview
12.2.3 Financial Updates
12.2.4 Key Developments
12.3 Emerson Electric Co. (U.S.)
12.3.1 Company Overview
12.3.2 Product/Business Segment Overview
12.3.3 Financial Updates
12.3.4 Key Developments
12.4 General Electric Co. (U.S.)
12.4.1 Company Overview
12.4.2 Product/Business Segment Overview
12.4.3 Financial Updates
12.4.4 Key Developments
12.5 Honeywell International Inc. (U.S.)
12.5.1 Company Overview
12.5.2 Product/Business Segment Overview
12.5.3 Financial Updates
12.5.4 Key Developments
12.6 Kontron AG (Germany)
12.6.1 Company Overview
12.6.2 Product/Business Segment Overview
12.6.3 Financial Updates
12.6.4 Key Developments
12.7 Mitsubishi Electric Corporation (Japan)
12.7.1 Company Overview
12.7.2 Product/Business Segment Overview
12.7.3 Financial Updates
12.7.4 Key Developments
12.8 Rockwell Automation, Inc. (U.S.)
12.8.1 Company Overview
12.8.2 Product/Business Segment Overview
12.8.3 Financial Updates
12.8.4 Key Developments
12.9 Schneider Electric SE (France)
12.9.1 Company Overview
12.9.2 Product/Business Segment Overview
12.9.3 Financial Updates
12.9.4 Key Developments
12.10 Siemens AG (Germany)
12.10.1 Company Overview
12.10.2 Product/Business Segment Overview
12.10.3 Financial Updates
12.10.4 Key Developments
12.11 Yokogawa Electric Corporation (Japan)
12.11.1 Company Overview
12.11.2 Product/Business Segment Overview
12.11.3 Financial Updates
12.11.4 Key Developments

LIST OF TABLES

Table 1 Global Human Machine Interface Market: By Region, 2017-2023
Table 2 North America Human Machine Interface: By Country, 2017-2023
Table 3 Europe Telecom Expense Management: By Country, 2017-2023
Table 4 Asia-Pacific Telecom Expense Management: By Country, 2017-2023
Table 5 Rest of the World Human Machine Interface Market: By Country, 2017-2023
Table 6 Latin America Human Machine Interface Market: By Country, 2017-2023
Table 7 Global Human Machine Interface by Components Market: By Regions, 2017-2023
Table 8 North America Human Machine Interface by Components Market: By Country, 2017-2023
Table 9 Europe Human Machine Interface by Components Market: By Country, 2017-2023
Table 10 Asia-Pacific Human Machine Interface by Components Market: By Country, 2017-2023
Table 11 Middle East & Africa Human Machine Interface by Components Market: By Country, 2017-2023
Table 12 Latin America Human Machine Interface by Components Market: By Country, 2017-2023
Table 13 Global Human Machine Interface by End-User Market: By Regions, 2017-2023
Table 14 North America Human Machine Interface by End-User Market: By Country, 2017-2023
Table 15 Europe Human Machine Interface by End-User Market: By Country, 2017-2023
Table 16 Asia-Pacific Human Machine Interface by End-User Market: By Country, 2017-2023
Table 17 Rest of the World Human Machine Interface by End-User Market: By Country, 2017-2023
Table 18 Latin America Human Machine Interface by End-User Market: By Country, 2017-2023
Table 19 North America Human Machine Interface for Configuration Type Market: By Country, 2017-2023
Table 20 Europe Human Machine Interface for Configuration Type Market: By Country, 2017-2023
Table 21 Asia-Pacific Human Machine Interface for Configuration Type Market: By Country, 2017-2023
Table 22 Rest of the World Human Machine Interface for Configuration Type Market: By Country, 2017-2023
Table 23 Latin America Human Machine Interface for Configuration Type Market: By Country, 2017-2023
Table 24 Global Components Market: By Region, 2017-2023
Table 25 Global Configuration Type Market: By Region, 2017-2023
Table 26 Global End-User Market: By Region, 2017-2023
Table 27 North America Human Machine Interface Market, By Country
Table 28 North America Human Machine Interface Market, By Components
Table 29 North America Human Machine Interface Market, By Configuration Type
Table 30 North America Human Machine Interface Market, By End-User
Table 31 Europe: Human Machine Interface Market, By Country
Table 32 Europe: Human Machine Interface Market, By Components
Table 33 Europe: Human Machine Interface Market, By Configuration Type
Table 34 Europe: Human Machine Interface Market, By End-User
Table 35 Asia-Pacific: Human Machine Interface Market, By Country
Table 36 Asia-Pacific: Human Machine Interface Market, By Components
Table 37 Asia-Pacific: Human Machine Interface Market, By Configuration Type
Table 38 Asia-Pacific: Human Machine Interface Market, By End-User
Table 39 Rest of the World Human Machine Interface Market, By Country
Table 40 Rest of the World Human Machine Interface Market, By Components
Table 41 Rest of the World Human Machine Interface Market, By Configuration Type
Table 42 Rest of the World Human Machine Interface Market, By End-User
Table 43 Latin America: Human Machine Interface Market, By Country
Table 44 Latin America: Human Machine Interface Market, By Components
Table 45 Latin America: Human Machine Interface Market, By Configuration Type
Table 46 Latin America: Human Machine Interface Market, By End-User

LIST OF FIGURES

FIGURE 1 Global Human Machine Interface Market segmentation
FIGURE 2 Forecast Methodology
FIGURE 3 Five Forces Analysis of Global Human Machine Interface Market
FIGURE 4 Value Chain of Global Human Machine Interface Market
FIGURE 5 Share of Global Human Machine Interface Market in 2017, by country (in %)
FIGURE 6 Global Human Machine Interface Market, 2017-2023,
FIGURE 7 Sub segments of Components
FIGURE 8 Global Human Machine Interface Market size by Components, 2017
FIGURE 9 Share of Global Human Machine Interface Market by Components, 2017 TO 2023
FIGURE 10 Global Human Machine Interface Market size by Configuration Type, 2017
FIGURE 11 Share of Global Human Machine Interface Market by Configuration Type, 2017 TO 2023
FIGURE 12 Global Human Machine Interface Market size by End-User, 2017
FIGURE 13 Share of Global Human Machine Interface Market by End-User, 2017 TO 2023