

Smart Manufacturing: A Case Study of Mitsubishi Electric (Updated 2018)

<https://marketpublishers.com/r/SF3C673961DEN.html>

Date: May 2018

Pages: 30

Price: US\$ 1,500.00 (Single User License)

ID: SF3C673961DEN

Abstracts

Mitsubishi Electric Corporation is a Japanese electronics and electrical equipment brand, which provides a wide range of products for residential, public, industrial, and military uses. Amid the trend of IoT, the company has long acknowledged that it is imperative to invest in the development of intelligence in factories. In 2003, it introduced smart manufacturing to its production process with the launch of several smart factory solutions, such as e-F@ctory and eco-F@ctory, which have become Mitsubishi Electric's key ingredients in the development of smart manufacturing. The results have been validated at Mitsubishi Electric's many factories, including its Kani Plant Nagoya Works where human-robot collaboration has been adopted. This report discusses Mitsubishi Electric's smart manufacturing developments, major businesses, and applications to explore the company's smart manufacturing endeavor.

Contents

1. DEVELOPMENT HISTORY

2. MITSUBISHI'S ACQUISITIONS

3. MAJOR BUSINESSES

3.1 Products and Services

- 3.1.1 Industrial automation systems:

- 3.1.2 Energy and electric systems:

- 3.1.3 ICT Systems

- 3.1.4 Electronic Devices

- 3.1.5 Home Appliances

- 3.1.6 Others

3.2 e-F@ctory

- 3.2.1 Traceability System

- 3.2.2 Product Management System

- 3.2.3 Operation Management System

3.3 Edgecross Platform

- 3.3.1 Edgecross Features

- 3.3.2 Use Case Scenario: Equipment Failure Prediction at Production Site

- 3.3.3 Use Scenario: Equipment Failure Prediction of Oversea Factories

3.4 Maisart AI Technology

- 3.4.1 Deep Learning, Enhanced Learning, and Big Data Analytics

- 3.4.2 Maisart Realizes Smart Factories

4. REAL-WORLD APPLICATIONS

4.1 E4 Factory at Nagoya Works

- 4.1.1 'Component Picking Instruction' System and 'Component Installation Instruction' System

- 4.1.2 Factory-floor Data Collection Optimizes Operational Efficiency

4.2 Intel's Malaysian Factory

5. CONCLUSION

Appendix

Glossary of Terms

List of Companies

List Of Tables

LIST OF TABLES

Table 1: Mitsubishi Electric's Development History and Smart Manufacturing Milestones

Table 2: Companies Acquired by Mitsubishi Electric in Recent 10 Years

List Of Figures

LIST OF FIGURES

Figure 1: Mitsubishi Electric's Revenue and Growth Rate, 2010 - 2017

Figure 2: Mitsubishi Electric's e-F@ctory Processes

Figure 3: Mitsubishi Electric's Edgecross Platform Overview

Figure 4: Equipment Failure Prediction Program by Edgecross

Figure 3: Equipment Failure Prediction by Edgecross at Oversea Plants

Figure 4: Composition and Application of Maisart AI Technology

Figure 5: Application of Maisart in Smart Factories

Figure 8: Assembly Indication System of Mitsubishi Electric's E4 Factory

Figure 9: Marginal Computing Process of Intel's Malaysia Factory

I would like to order

Product name: Smart Manufacturing: A Case Study of Mitsubishi Electric (Updated 2018)

Product link: <https://marketpublishers.com/r/SF3C673961DEN.html>

Price: US\$ 1,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SF3C673961DEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970