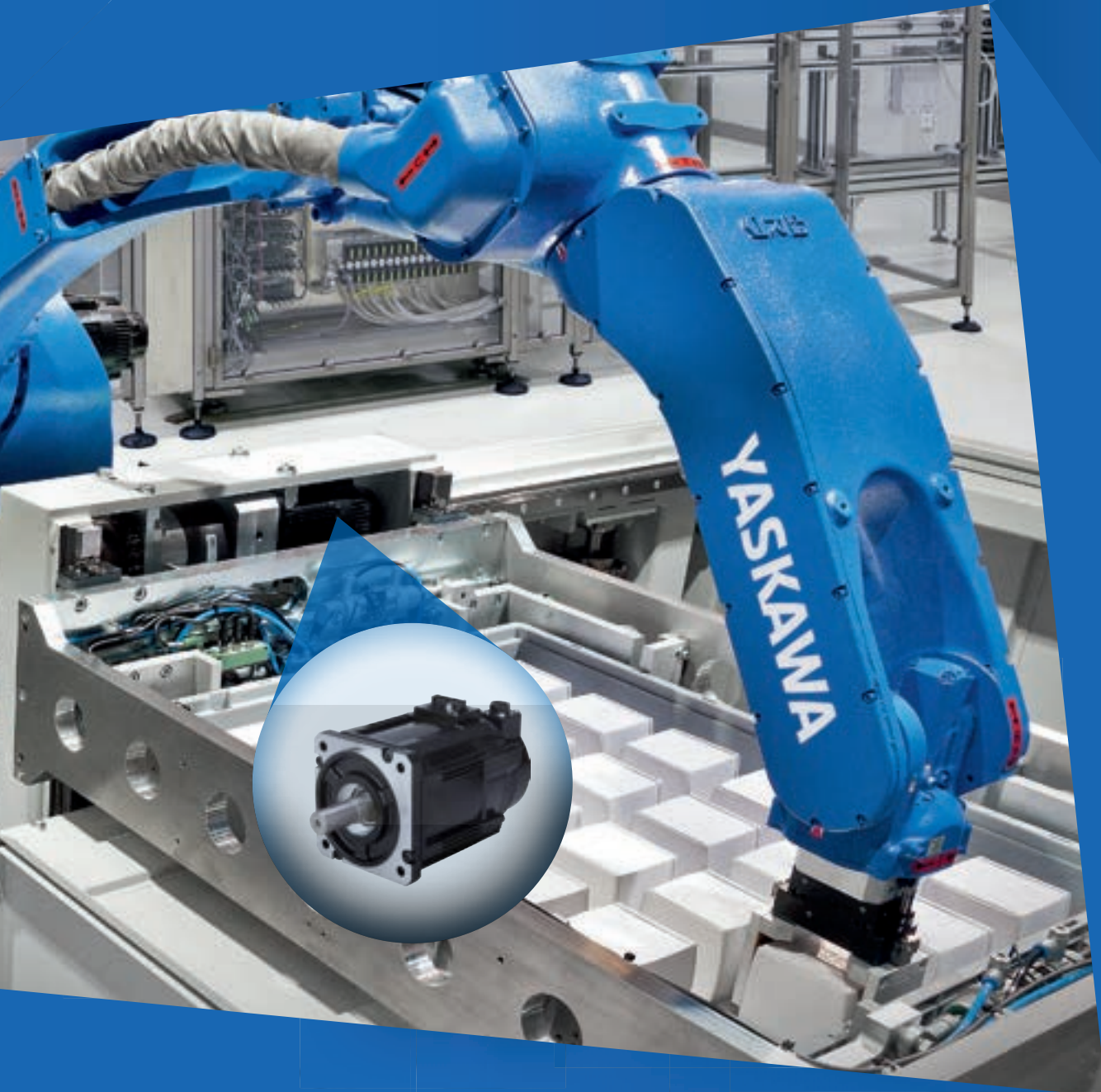


YASKAWA

YASKAWA Total Solution

Meeting Customer Needs with Technology and Products



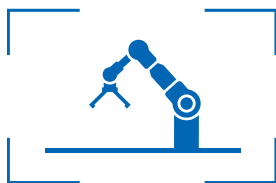
YASKAWA ELECTRIC Overview

YASKAWA ELECTRIC is one of the world's leading manufacturers in the fields of drive technology, industrial automation and robotics based in Kitakyushu, Japan. Founded in 1915, we see ourselves as a pioneer in these sectors, always striving to optimize the productivity and efficiency of machines and industrial systems with our innovations.

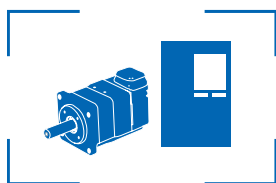
For over 100 years now, our products and solutions have been supporting automation in a wide variety of industrial processes including mining, mechanical engineering and toolmaking, as well as the automotive, packaging, wood processing, lift, textile and semiconductor industries

YASKAWA ELECTRIC THAILAND

In 2004, YASKAWA ELECTRIC (THAILAND) CO., LTD. (YAPT) was incorporated in Thailand as YASKAWA ASIA PACIFIC (YAP)'s subsidiaries to provide Automation Solutions and Support to our customers in Thailand. We offer our customers the widest range of products from one single supplier with three main business areas:



ROBOTICS



MOTION CONTROL PRODUCT

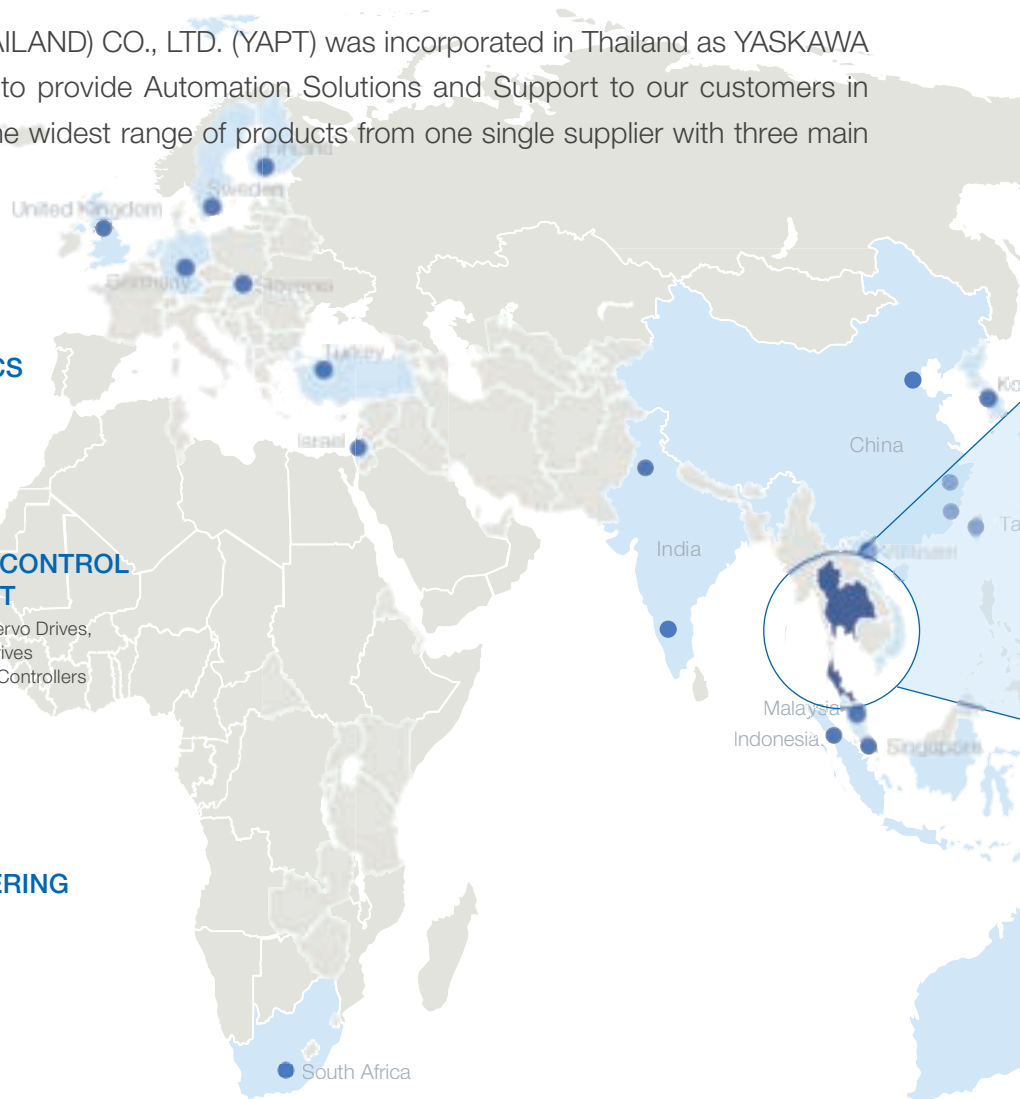
AC and DC Servo Drives,
AC Inverter Drives
and Machine Controllers



SYSTEM ENGINEERING



www.yaskawa.co.th





14,880

Employees
Worldwide



95

Employees
Thailand



29

Production
sites in 13 countries
and regions

Bangkok, Thailand



Bangkok office

Address :

59, 1st-5th Floor, Flourish Building, Soi Ratchadapisek 18,
Ratchadapisek Road, Huaykwang, Bangkok 10310

Tel : +66 2017 0099

Fax : +66 2017 0090

E-mail : yapt.sale@yaskawa.co.th

Chonburi, Thailand



Chonburi office

Address :

Pinthong Industrial Estate Project 3 219/41 Moo 6,
Bowin, Sriracha, Chonburi 20230

Tel : +66 3819 9879

Fax : +66 3832 3878

E-mail : yapt.sale@yaskawa.co.th

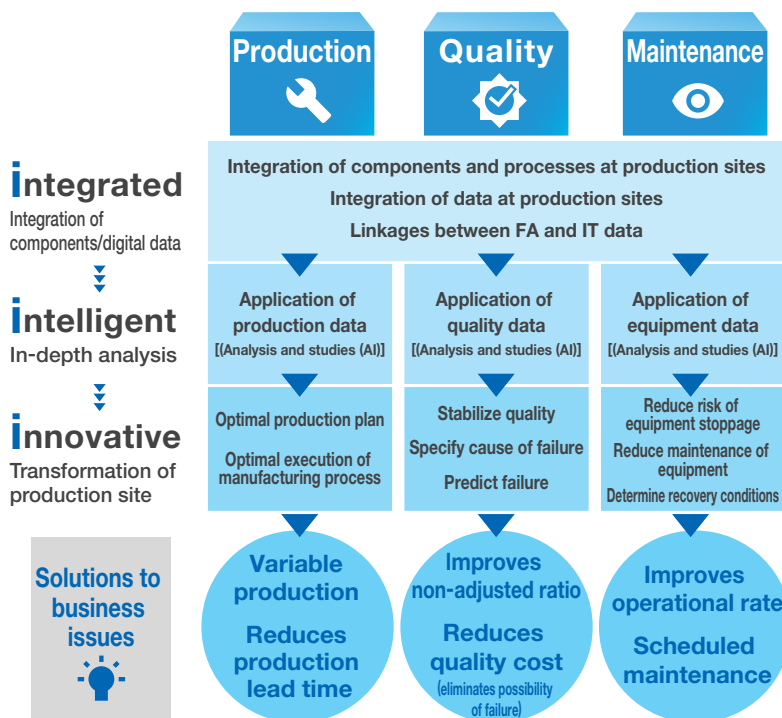
* The information base on YASKAWA Report 2022

Smart Factories with i³-Mechatronics

Develop solutions to solve challenges along with customers

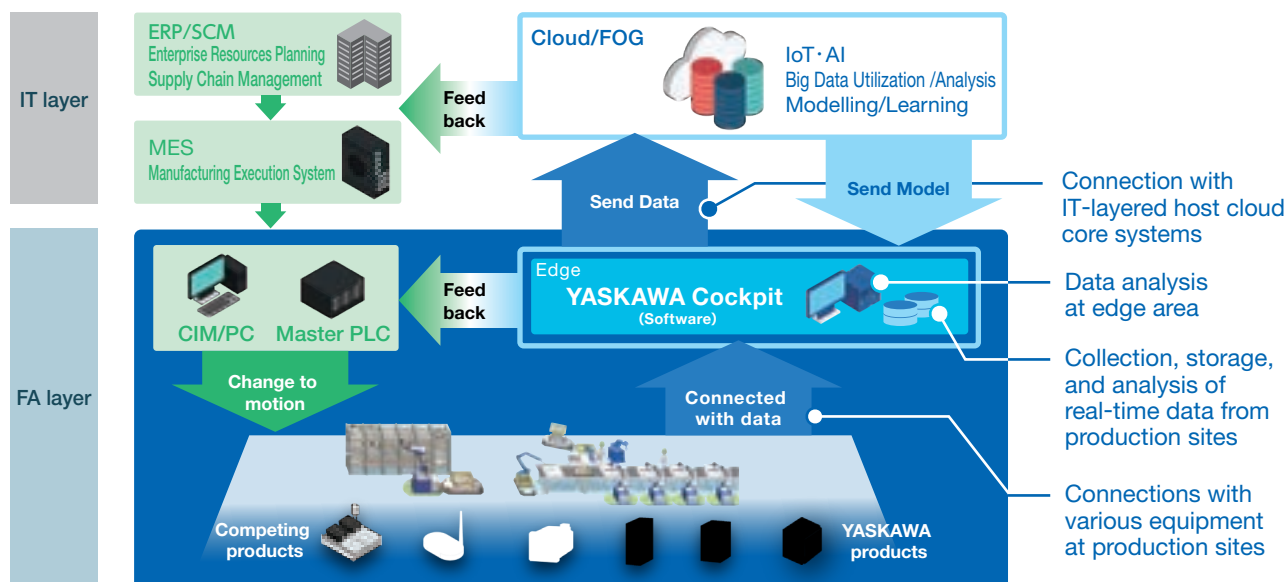
Solutions to business issues at production sites

Identify solutions to business management challenges by collecting, analyzing, and utilizing data on site to innovate highly-adaptable factories.



Complete automation of production sites, integrate and analyze equipment data

Data from production sites that are automated by integrating components and processes is collected and stored in real time using YASKAWA Cockpit. This data is used for AI learning and big data analysis in cooperation with host systems. Production operations can be transformed by learning models and analysis results that are feedback to production sites.



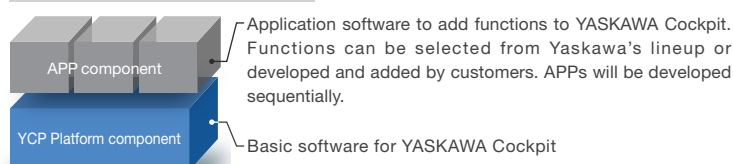
YASKAWA Cockpit

Features

- Collect, store, and analyze real-time data from production sites
- Establish connections with equipment other than YASKAWA products
- Freely customize and add optional functions depending on production sites

Note: Functions of YASKAWA Cockpit include those that are under development. Contact your Yaskawa representative for more details.

Basic configuration (software)



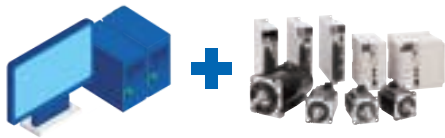
Applications



Predict causes of machine defects by analyzing equipment operational data

YASKAWA Cockpit

Machine controller/servo



Traditionally, a substantial amount of time was required to identify and verify the causes of defects in products found during the inspection process. These factors can now be assessed with the performance of a correlation analysis using manufacturing data and product defect data to quickly identify the cause of defects and find solutions.

The data logging function of the MP series machine controllers has a time stamp feature that can identify the control data of equipment in μs units to track operational status and causes of abnormalities.

Logging data (image)

No.	Data/Time	DataTimeMinimum0.01 μs	MW0000	MW0001	GW0000
0	yyyy/mm/dd hh:mm:ss	yyyy/mm/dd hh:mm:ss.12345600	15544	1	49992
1	yyyy/mm/dd hh:mm:ss	yyyy/mm/dd hh:mm:ss.12345700	15545	2	49993
2	yyyy/mm/dd hh:mm:ss	yyyy/mm/dd hh:mm:ss.12345800	15546	3	49993
3	yyyy/mm/dd hh:mm:ss	yyyy/mm/dd hh:mm:ss.12345900	15547	4	49994

Improve precision analysis by accurately setting times for multiple logging data



Σ -X / Σ -7 series AC drives can monitor sensing data, such as vibration, disturbance, positioning, quality of communications, and temperature. Data related to signs of potential breakdowns, such as changes in equipment by age and environment will be detected in real time.

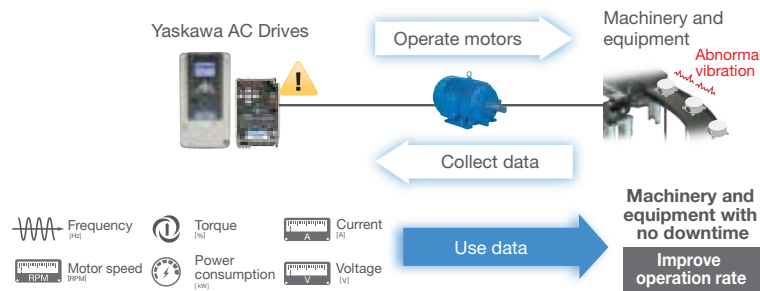


Predictive failure detection of machines using AC drives

AC drive



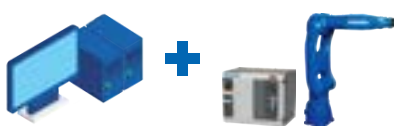
Yaskawa AC drives not only control motors, but also detect signs of potential problems by collecting and using operation data to create production systems without downtime.



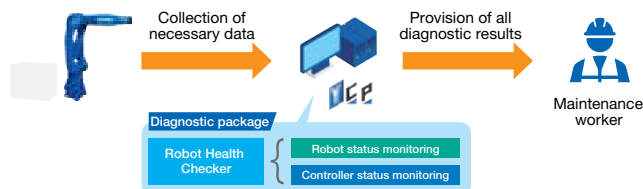
Enhanced maintenance work efficiency via status monitoring of robots and controllers

YASKAWA Cockpit

Robot and robot controller



This function performs constant management and status monitoring of all operating robots and robot controllers connected to the YCP. Diagnosis is performed based on monitoring data, and all diagnostic results are provided to maintenance workers. The diagnostic results can be used to systemically optimize maintenance operations and prevent unexpected problems before they occur.



Main Application / Solution

YASKAWA provides automation solutions optimized for specific applications and industry

such as Handling, Welding, Painting, Automotive, Food Processing & Packaging, Electronics, HVAC for building automation, Elevator & Escalator, Pulp & Paper, Textile and etc. We have continued to try to solve our customer problems by releasing new products that are easier to use and have better basic performance features to increase productivity. In the future, we will continue to lead the market in Japan and internationally by creating automation solutions to meet diverse and market needs.



Robotics



AC Inverter Drives



AC Servos Drives

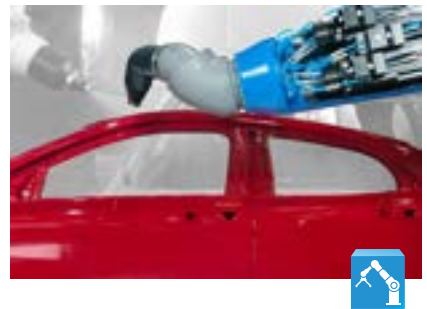
Welding



Handling



Painting



Automotive



Food Processing & Packaging



Conveyor



Lift, Elevators



HVAC



Electrics / Electronics



Components

Mechatronics products supporting production sites

MOTION CONTROL

Controllers and AC Servo Drives



MOTION CONTROL

AC Drives

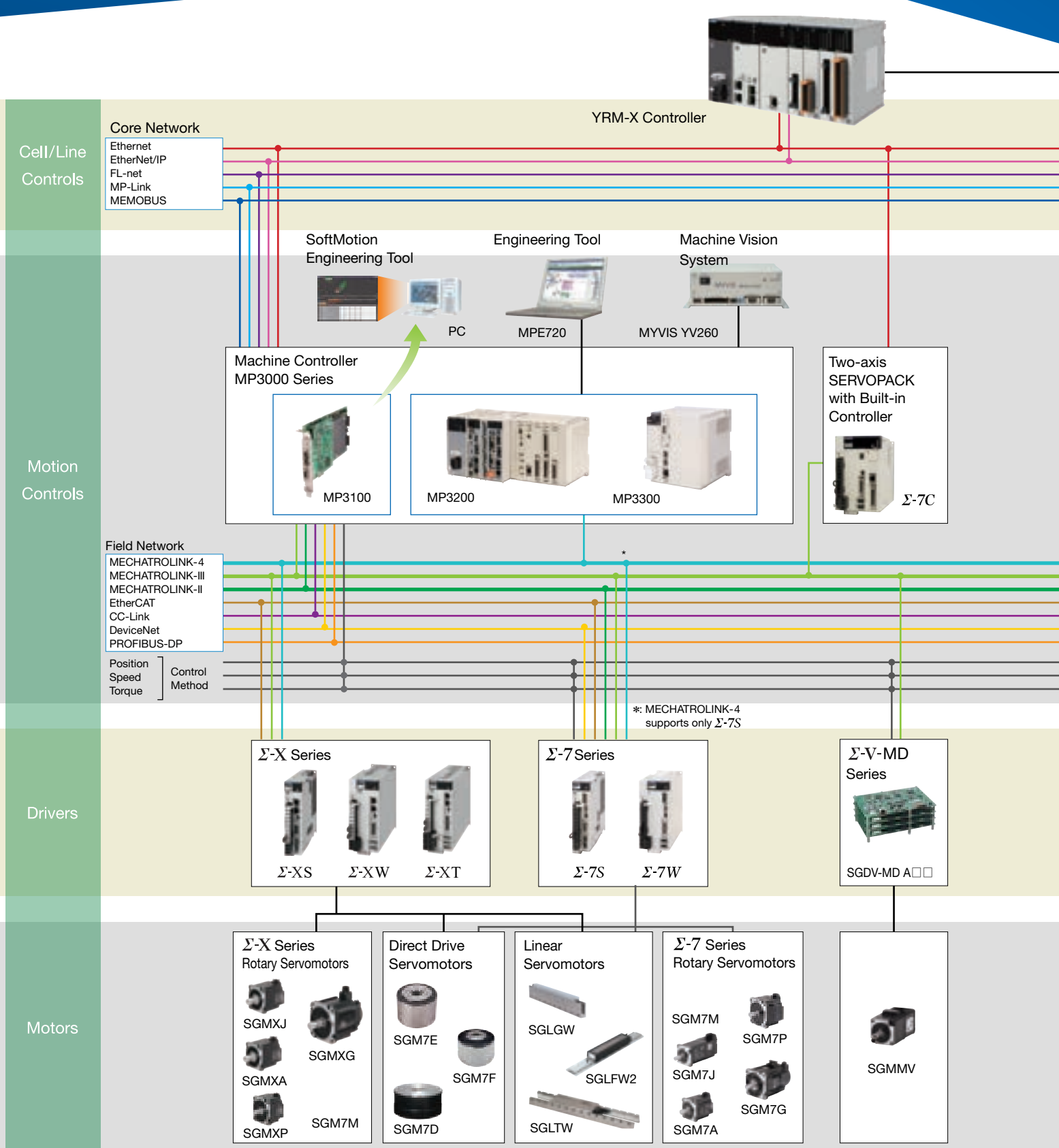


ROBOTICS

Industrial Robots

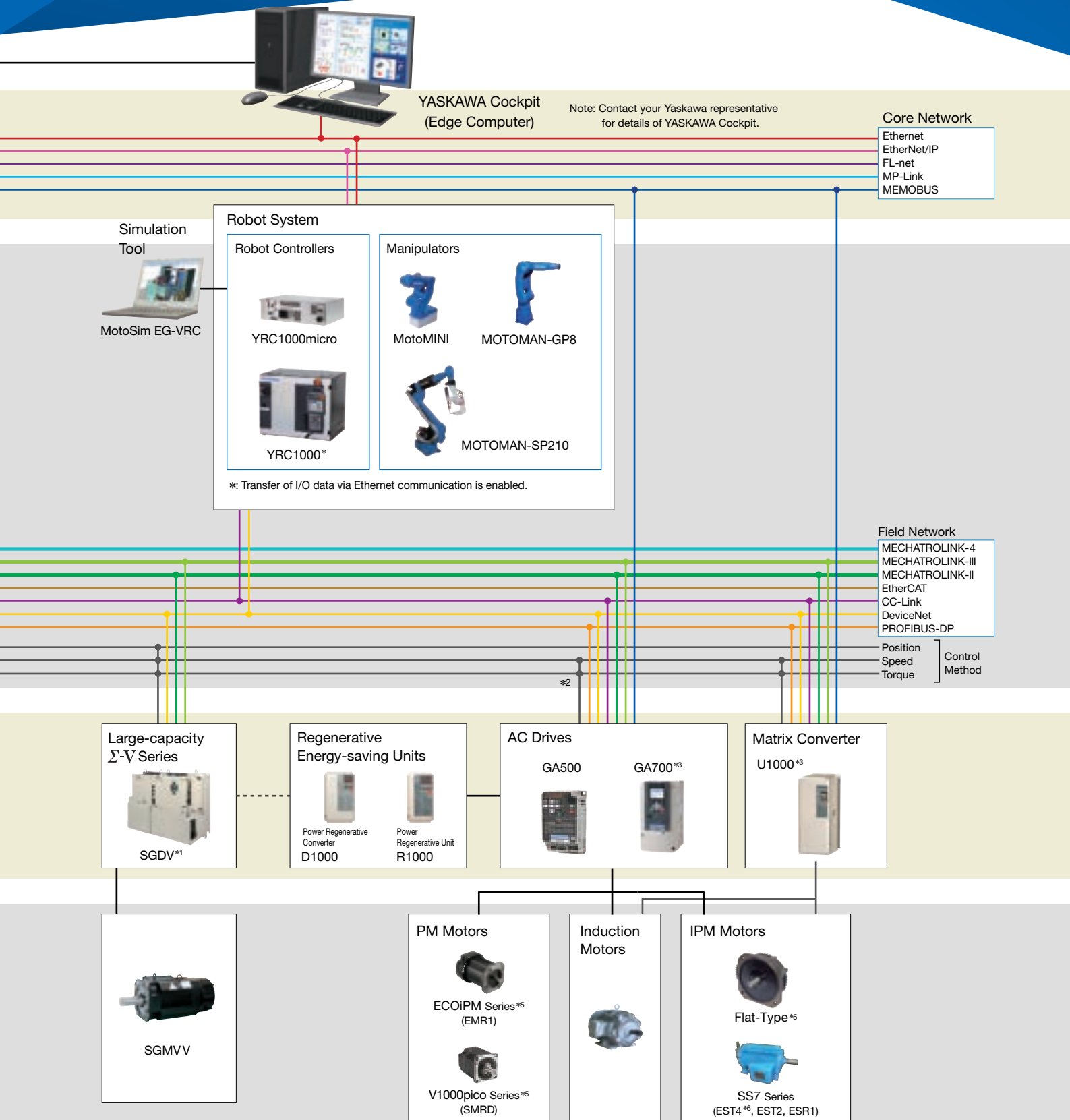


Product Line up



YASKAWA's mechatronics systems

Scan QR Code for more Product



*1: SERVOPACK with separated converter.
Can be combined with a regenerative energy-saving unit when using regenerative energy.
*2: Available only for GA700

*3: Compatible with CANopen and LONWORKS
*4: Compatible with CANopen
*5: Flat-Type available for GA500 only
*6: EST4 and SST4 available for GA700 and U1000 only

Industrial Robot MOTOMAN Series

Arc Welding / Laser

Arc welding is the core of our company. Over three decades, YASKAWA Motoman has developed more welding robots, sensors, software and positioners than any other company.



Spot Welding

Fast cycle times, efficient space utilization and simple operation, YASKAWA Motoman offers spot welding robots with a broad range of payloads, reaches, integrated spot harnesses and servo-controlled spot guns.



Handling / Assembly

Our unique approach to material handling solutions is founded on two core principles: exceptional design and optimal configuration, to determine the best combination of components for specific needs.



Painting

MOTOMAN-MPX series provides robots for each type of work piece, arms with a high performance controller to ensure



Find smart solutions for your production site with YASKAWA's robot systems.

Scan QR Code for more Product



Picking / Packing / Palletizing

Smart and Flexible for Picking, Packing, Palletizing Solutions, YASKAWA bring ease of use, speed and flexibility to help you meet the demands of today's food, beverage and consumer products marketplace.



MPP3H



PL190



PL320

Dual Arm

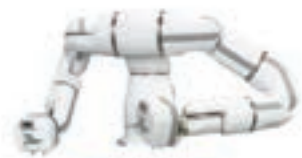
Dual arm, 15-axis robot designed for complex assembly and small part material handling applications. Both arms can work together dramatically simplifying end-of-arm tooling. Designed with patented servo actuators, all cables are routed through the arms.



SIA10F



SDA10F



BMDA3

Collaborative

Capable, safe, affordable, and easy to use, HC10DT is for customers that require a robot to work near humans, where space is limited, and where the robot may need to be frequently redeployed.



MPX2600



MPX3500



HC10DTP



HC10DTFP



HC10SDTP



HC20DTP



HC30PL

bots with variety of features for internally routed hoses and sure high quality painting.

Motion Control

Range of Products

AC Drive

Applications from General-purpose Systems to Specialized Machinery

- **GA500**
For Industrial Application
- **GA700**
For Industrial Application
- **A1000**
High Performance Vector Control
- **D1000**
Power Regenerative Converter
- **E1000**
Fan, Pump & HVAC
- **J1000**
Compact V/f Control Drive
- **L1000**
Lift Applications
- **R1000**
Power Regenerative Unit
- **U1000**
Low Harmonics Regenerative
- **V1000**
Compact Vector Control Drive
- **G7**
Varispeed



AC Servo Drive

For Unsurpassed Performance and Ease-of-use to Best Satisfy Your Need



Σ -X Series



Σ -7 Series



Σ -V Series



Σ -S Series

Controllers

YASKAWA's controllers have continued to evolve with the focus firmly fixed on higher-speed and higher-precision control and greater operating ease.



MP3300



MP2300

System Engineering

YASKAWA has been developing, designing and producing industrial system electrical products for steel-making and other large plants for decades.



Medium voltage inverter drive



Low voltage inverter drive for systems



System Controller

Network



(MECHATROLINK-II, MECHATROLINK-III, MECHATROLINK-4), and other field network



Scan QR Code for more **Product**

Mechatronics Engineering Service

Repair Servo (In House)

YASKAWA ELECTRIC (THAILAND) CO., LTD. can provide new solutions for repair servo business. We offer to repair servo-amp for Σ -II, Σ -V and Σ -7 series.

YASKAWA AC Servo drive Sigma family



SIGMA-II
SGDH, SGDM
100V, 200V :
30w ~ 5kw



SIGMA-V
SGDV
100V, 200V :
50w ~ 15kw

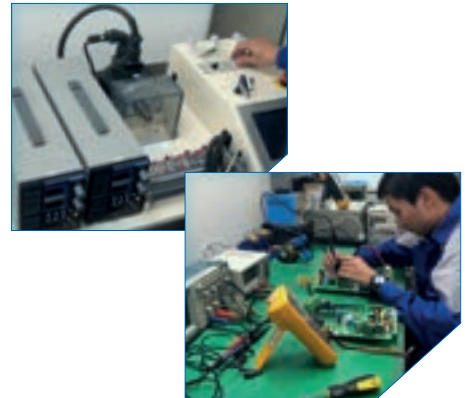


SIGMA-7
SGD7S
200V:50w ~ 15kw
SGD7W
200V:200w ~ 1kw



Repair Inverter (In House and On Site)

MECHATRONICS's Engineer of certified repair specialists will repair your YASKAWA products using original parts and factory tested procedures. Especially for YASKAWA Inverter drive G7, A1000 series. Spare part available to serve you now!!!



Renewal-Upgrading Servo Drive



e-motional solution

Everyone's preferred choice of servo drive



YASKAWA offers the largest range of Renewal-Replacement for legacy

■ YASKAWA AC Servo Drive Sigma Family

Sigma-I
SGDA, SGDB

Sigma-II
SGDH, SGDM

Sigma-III
SGDS



Upgrade to
 Σ -7 Series

Renewal-Upgrading Controller



MP920



GL60S, GL60H, GL70H



GL120, GL130



MP3000 SERIES

Total Customer Support

YASKAWA supports you throughout the entire product lifecycle with service products and services tailored to your needs



Preventive Maintenance

Predict Failures with YASKAWA's drive by detects unusual torque pulsations by electric current ripples caused the deterioration of conveyor mechanical parts, such as the belt and pulley bearings. Use can diagnose abnormal signs while the machine is in motion.



Scan QR Code
for **Support & Service**



On-site Service Customer

We can provide on-site services customer to minimize production downtime. Our services offered on-site repair YASKAWA products, exchange products, start-up assistance, preventive maintenance, product renewal/upgrade, training course and more.

Product Training

YASKAWA technical training services mission to provide training classes to our customers with knowledge they need to perform their jobs. Training classes can take place to our facilities and on-site training classes.



Spare Part

Over 10,000 items stock available in Thailand. We keep spare part for various product and most important product in stock to serve customer

Renewal Upgrading

YASKAWA can offers renewal-upgrading or Re-engineering for legacy product. By concept of easily installable by using retrofit kits without modified on mechanical side. Upgrading Inverter, Servo drive and Controller in previous product to latest series for your system.



02-026-6309

Technical Hotline

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www.yaskawa.eu.com

YASKAWA NORDIC AB

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Shanghai 200021, China
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Phone: +886-2-8913-1333 Fax: +886-2-8913-1513
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Chonburi 20230
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