YHX Controller Control operation concept



Space saving inside control panet by YHX controller



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Advanced Robotics Automation Platform

Yamaha's new universal robot control system offers speedy, efficient, and low cost construction of fully automated manufacturing lines.







ENGLISH







PRODUCTS A

Universal Controller **YHX** series



Superd expandability, compact design, and reduction in component and setup time.

YAMAHA's Advanced Robotics Automation Platform offers coordinated motions and synchronized control of all robots, and peripheral devices in the system.

Industry first stacking modular unit

The stacking module structure including motor driver and a motor drive power supply dramatically reduces the number of electrical wiring. Stacking all control power supply, motor drive power supply, high speed network communications, and safety circuits eliminates electrical wiring between units while reducing the costs and man-hours for electrical installation to 30% to 50% of those for previous models.



Integrating PLC complying with international standards, All set for IoT compatibility

otal num

of controlla ble robots

64 units

Integrating a high performance, high speed general purpose PLC and capable of handling 5 languages that comply with IEC61131-3, the Universal Controller can control entire automated units and devices including robots and peripheral devices. Besides, it has a flexibility and expandability to further become compati ble with IoT and Industrie4.0.



Decreasing

wiring man-hours:

50%

a control pan

65%

Yamaha's own unique univerersal robot control concept offers **Total Optimization in your production line.**

Integrating robots, integrating peripheral devices and integrating operations

Helps building automated production line efficiently at lower cost in a short period of time. YAMAHA's Advanced Robotics Automation Platform in the product lineup is a good match with IoT.

Fully renewed Yamaha robot line up for automated processes such as transport, handling, assembly, and image

Yamaha is proud to offer this new product lineup providing solutions to the challenges in today's manufacturing scenes, and dramatically accelerate automated production to maximize your return of investment.

PRODUCTS 🧲

Single-axis robot



Find the full lineup of products you need to build an automated assembly line here.

All product models employ highly efficient, highly accurate ground ball screws as the standard features. The high precision models proudly with high reliability and durability. Available in 180 variations, the YLE series are single-axis robots using stepping motors.

YLE series

Rich lineup

Mode

Type

GX series

All models equipped with ground ball screws All product models employ highly efficient, highly accurate ground ball screws as the standard features. The lead accuracy complies with JIS accuracy class C5 that brings about the positioning accuracy repeatability of ±5 µm. The accuracy is about two times better than the previous. This highly accurate positioning accuracy repeatability improves yield, too. In addition, the unit is quieter with a longer service life





Variation

80

PRODUCTS D

SCARA robot YKXseries

High speed, high accuracy, and high rigidity leading industry

Direct drive (no belt) design and reinforced drive mechanism enabled industry's shortest cycle time.





to image processing.

personnel could imagine.



Inspection for presence

PRODUCT Linear conveyor module LCM-X

Transition from "passive flow" to "active movement". Increasing competitive edge in manufacturing from optimum performance. High speed and high accuracy transport capability of the linear conveyor module LCM-X significantly improves the productivity. Tasks directly on the slider and bi-directional motion of the slider are few of LCM-X's features that boost the work efficiency.

The connection units allow highly accurate mechanical connection of the modules. All you have to do is tighten the bolts. The mechanical connection also completes the electrical connection at the same time without additional connection cables. Considerably easy setup saves you a lot of time



