



Industrial robots (Electric actuators)

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Linear conveyor module LCM-X series

Significantly improving the space occupancy rate, making better the transport accuracy and increasing the acceleration and deceleration performance, the linear conveyor modules realize higher level transport automatization ever before.

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Linear conveyor module LCM-X series

Faster, more accurate, and easier to use

Stop position repeatability:±5μm

Maximum acceleration:5G

Maximum speed:3m/sec

Span between sliders:210mm

[CAD data download](#)

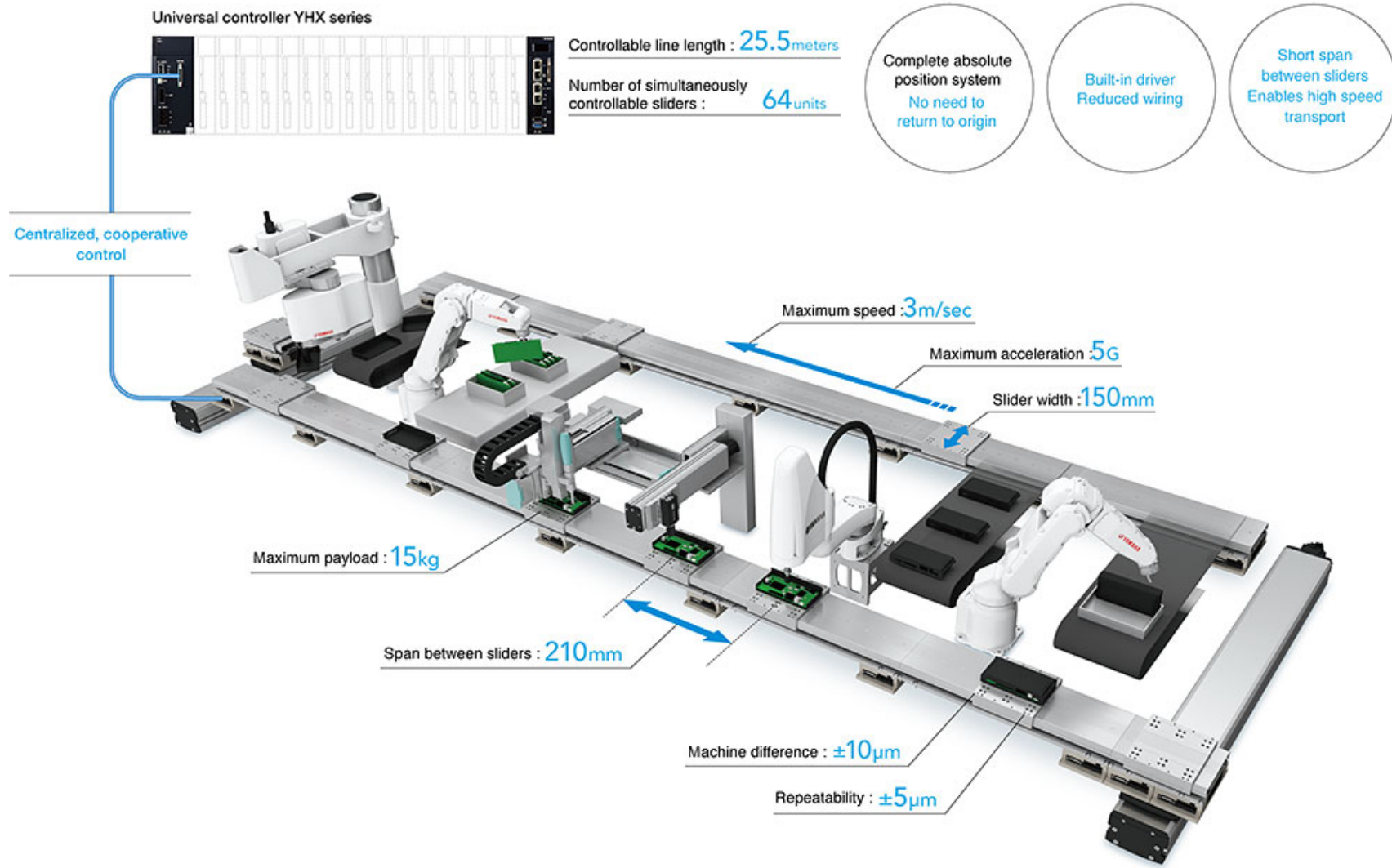
Enter the LCM-X The linear conveyor modules are all renewed.

From "passive flow" to "active movement". Eliminating uselessness from transport processes improves profitability.

Improve space occupancy, transport accuracy, and acceleration / deceleration performance.

Taking the place of the predecessor model "LCM100" while employing module structures and high speed direct drive by linear motors, the "LCM-X" enables to build up high value-added yet general-purpose transport systems between processes.

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Feature

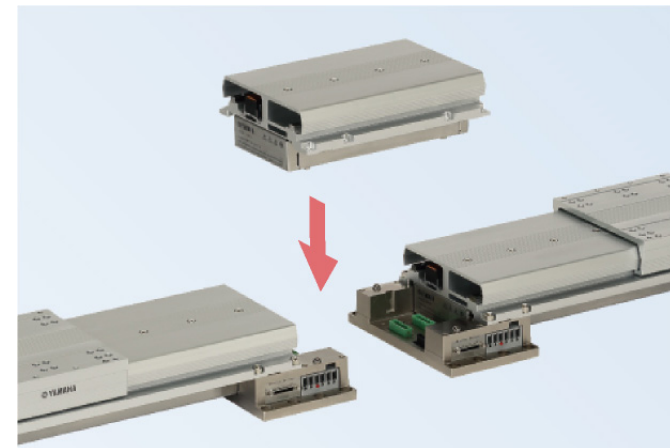
01 Centralized control by Universal Controller

A single Universal Controller can control all the sliders in a centralized manner including slider circulation. Capable of cooperative motion with peripheral robots, the Universal Controller enables you to build up a highly sophisticated transport process.



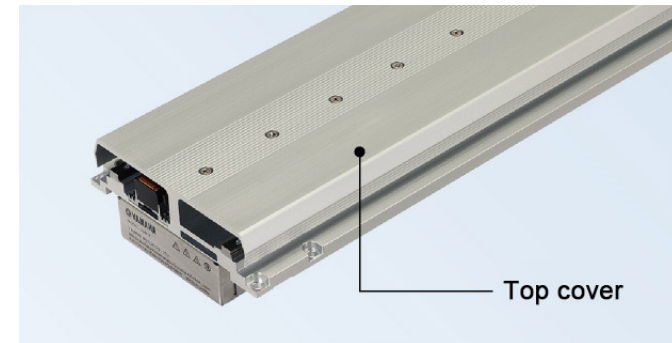
02 The bridge pier structure enables speedy setup.

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.



03 The top cover keeps dust away.

A cover is at the top to protect rails and motors from falling objects.

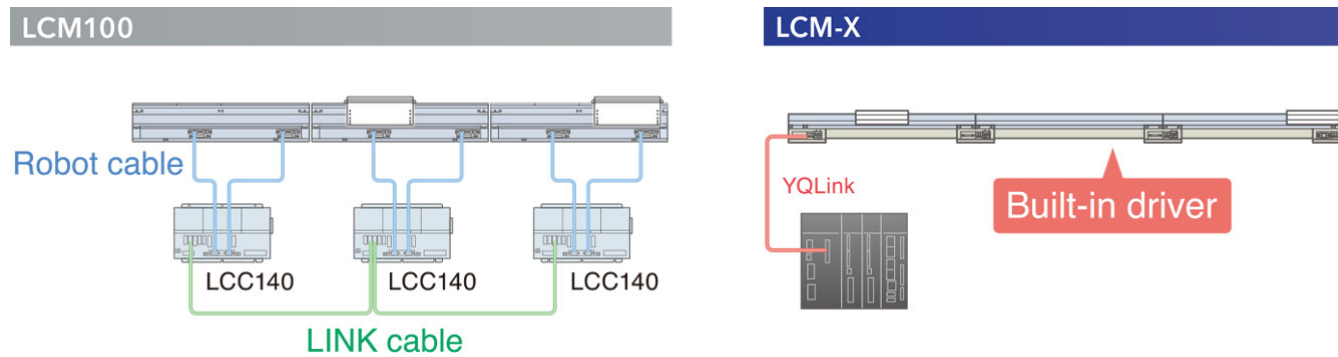


04 All the sliders can move independently from the others.

You can freely move any of the sliders any time.

05 Use of the motor driver integrated into and put together with the main body saves electrical wiring.

The unitized electro-mechanical structure with a motor driver built in the module controls entire LCM-X. Connecting with the Universal Controller via one YQ Link cable is all you have to do. It surely contributes to saving space in the control panel.



06 Able to identify slider IDs

The multi-track magnetic sensor enables to identify a slider ID at any point in the transport process. Even if you have unintentionally changed sliders, the system correctly identifies the ID of each slider.

07 Error width (machine difference) between sliders $\pm 10\mu\text{m}$

When stopping two or more sliders at a point one after another, the actual stop positions are inevitably different because each slider has its own error width (machine difference). The LCM-X minimizes the width error among the sliders within as little as $\pm 10\mu\text{m}$ to best suit high accuracy processes. Requiring no RFID can reduce costs.

08 No need to return to origin

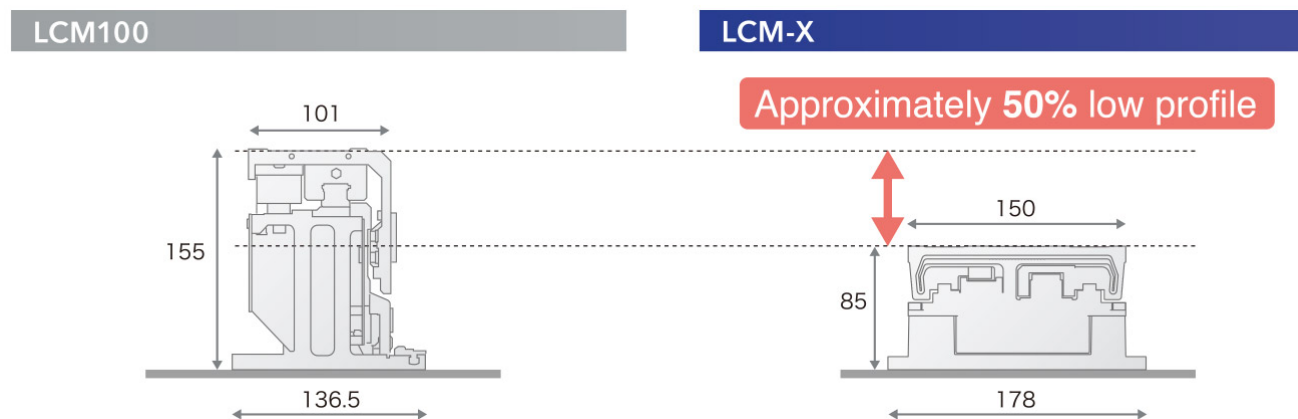
Use of the high accuracy absolute magnetic scale needs no operation for returning to origin. You can easily start up and stop the motion. It does not waste time either when re-starting the machine to restore operation.

09 Maximum acceleration 5G

The acceleration as high as 2.5 times contributes to high speed operation in a line. High speed motion between an extremely short distance is possible even in a high density process or pitch feed.

10 Low profile structure

Use of the newly developed linear motor makes the module height approximately half compared with the previous model. You can also use a space under the frame.



Various data

LCM-X PDF (233KB)

[Inquiry](#)

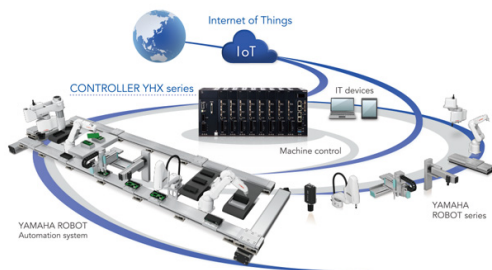
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Feature

Specification

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Advanced Robotics Automation Platform

The new YAMAHA integrated control robot system that realizes the quick, efficient, low cost construction of automated manufacturing lines.



Universal Controller YHX series

YAMAHA's Advanced Robotics Automation Platform realizes cooperative motions and synchronized control among all the robots, peripheral units and devices that make up an automated line.



Liner Conveyor Modules LCM100

Next generation linear conveyor LCM100 supersedes belt conveyors and roller conveyors.



IM Operations Robot Business Division Robot Sales Group

127 Toyooka, Kita-ku, Hamamatsu, Shizuoka 433-8103, Japan

Telephone 81-53-525-8350 / Facsimile 81-53-525-8378

