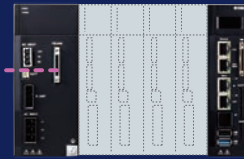# YAMAHA
Revs your Heart

YAMAHA ROBOT BEST SOLUTION

Yamaha is the only company that can unify manufacturers from small actuators to LINEAR MOTOR transfer systems.

YHX controller

Controllable line length
Max. **25.5** m *

Number of simultaneous controllable sliders
Max. **64** units *

* It may differ depending on the system configuration.

Linear Conveyor Module LCMR200

Has a large number of installation records in in-vehicle, battery, medical, and food products !

WEB

Maximum speed
2500mm/s

Stopping accuracy
±5μm

Maximum payload
30kg

■ Production volume UP
- High-speed transport is possible with a linear motor, and work can be done on the carriage.
  ⇒Shortens the transport time between processes and it eliminates the need for time to pull the work out of the line.
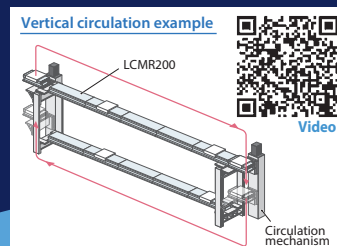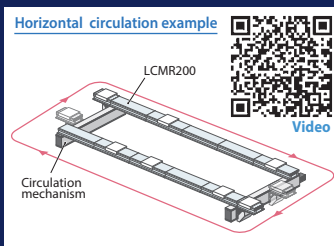
■ Module structure is hassle-free
- No need to select individual parts such as a guide mechanism and motor
  ⇒The design man-hours and assembly man-hours can be reduced.
- The entire module and carriage can be replaced in the unlikely event of trouble.
  ⇒Quick line restoration is possible
- LCMR200 can be laid out horizontally and vertically

■ Low difficulty control
- LCMR200 can be controlled by issuing remote commands from a networked PLC.

■ Flexible layout

Horizontal circulation example
LCMR200
Video
Circulation mechanism

Vertical circulation example
LCMR200
Video
Circulation mechanism

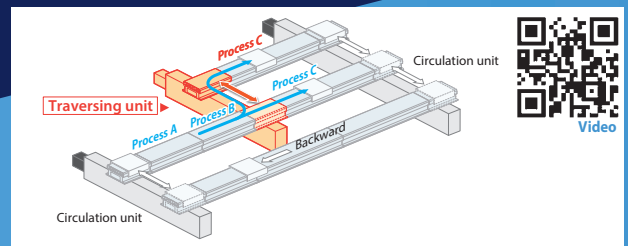## LCMR200 with Vertical Circulation

High-speed transportation of lightweight workpieces (in-vehicle, battery, etc.)!

- There is no need to worry about misalignment by adsorbing and fixing lightweight workpieces.

■ Compact equipment
- You can perform work directly on the carriage
- Pitch feed is fast and direct positioning is possible, so work can be done in combination with a 2-axis robot.
  ⇒No space is required to pull in the work, and the space required for the robot to perform the work can be reduced.

■ Traversing Unit

Process C
Process C
Traversing unit
Process A
Process B
Backward
Circulation unit
Circulation unit
Video

YAMAHA ROBOT BEST SOLUTION

Machine Vision RCXiVY2+ × Vibration parts feeder

For automation of bulk parts supply! Multiple varieties with one equipment!

WEB

Spread the work on the hopper with the vibration parts feeder, and eliminate the work that overlaps with the front and back judgment with RCXiVY2 +
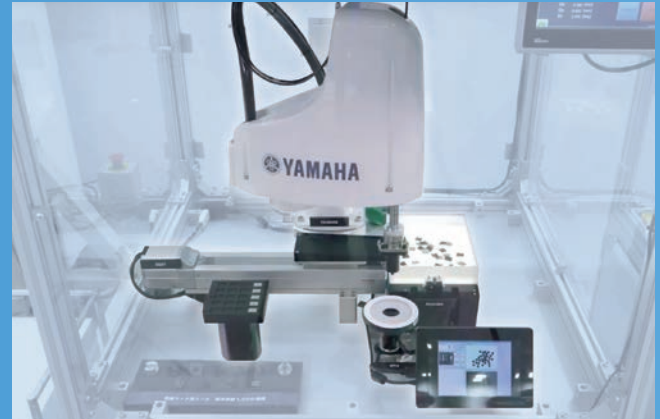
■ **Functions**
- Detects the contour of the work ⇒ Can tell the front from the back
- Detects the area of the work ⇒ Can determine the overlap

■ **Easy to set up**
- Easy to register varieties
- Anyone can easily perform a high-precision calibration without a hassle.
- the program template function makes it easy to create programs.
- Batch control from RCX340 without PLC (robot, Asycube, RCXiVY2+)
- Since a plug-in that can control Asycube is prepared, complicated program creation is unnecessary.

■ **RCXiVY2 + can be selected according to the application**
- Integrated control type: Dedicated bus line with no communication delay, ideal for conveyor tracking, etc.
- PCVision: Simulation can be done on a PC in advance without a controller.

Linear Actuators
Robonity

WEB

■ **High rigidity** [Basic]
- Basic (LBAS, ABAS)… Offset tools are OK, achieving long life

■ **High accuracy** [Advance]
- Advance (LGXS, AGXS)… Uses a grinding ball screw (accuracy grade C5)
  ⇒ Achieves positioning of ± 5 μm ground ball screw

■ **Price** [Basic]
- Advance (LGXS, AGXS)… Standard support for clean specifications
- The suction port is equipped as standard.
- ★ Ideal for food and medical care

■ **Cleanroom Ready Design**

Stainless steel dust shield
Cleanroom roller mechanism
Vacuum ports
Motor: IP67
■ Simply attach vacuum fitting

■ **No need to select**
- Motorless basic (LBAS, LBAR)… You can check the inventory on the Web.
- All models ... Cycle time and life can be calculated on the Web
- Factory shipment in a minimum of 3-5 days

■ **Performance**
- Feedback pulse output: Accurately grasp the current position without communication delay.
- Vibration suppression function: Shortens the settling time

■ **Price**
- No addition even with Ethernet

Controller

■ **Performance**
- Feedback pulse output: Accurately grasp the current position without communication delay.
- Vibration suppression function: Shortens the settling time

SCARA ROBOT
YK-XE

WEB

Ideal for labor saving!

- High speed but low price and good value for money
- Stroke length: 400mm to 710mm (Max. 1200mm)
- Payload: 4kg to 10kg (Max. 50kg)
- Cycle time: 0.38sec

ORBIT Type SCARA ROBOT
YK-TW

ACCURACY × SPEED

- A ceiling-mount configuration allows 360° arm rotation
- A smaller equipment footprint, with no deadspace at the center of the motion range
- Arm length : 350mm/500mm
- Maximum payload : 4kg to 5kg

WEB

Yamaha Motor Corporation, U.S.A.   Robotics Division