YHX Series

Product Lineup

Other controllers are introduce	d on another page.
Features page	P.88

Specifications page P.605

YHX Controller

LCMR200/GX

Controller for the linear conveyor module LCMR200 and single-axis robot GX series. Advanced production line can be constructed in a short period.



Applicable robot

Linear conveyor module LCMR200

Single-axis robots GX series





Reduces production line configuration time

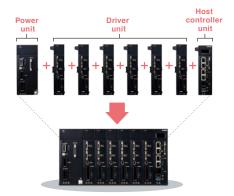
Stacking modular structure

No wiring between modules needed.

Incorporation a control power supply, motor drive power supply, high speed network communication, safety circuit into a stacking modular structure.

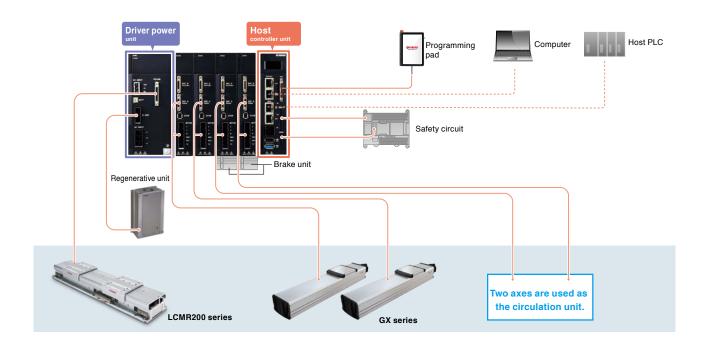
Eliminates wiring between units, reducing conventional wiring cost and wiring man-hour to 30% to 50%.

The stacking structure including host, power and driver is the very first in the industry.

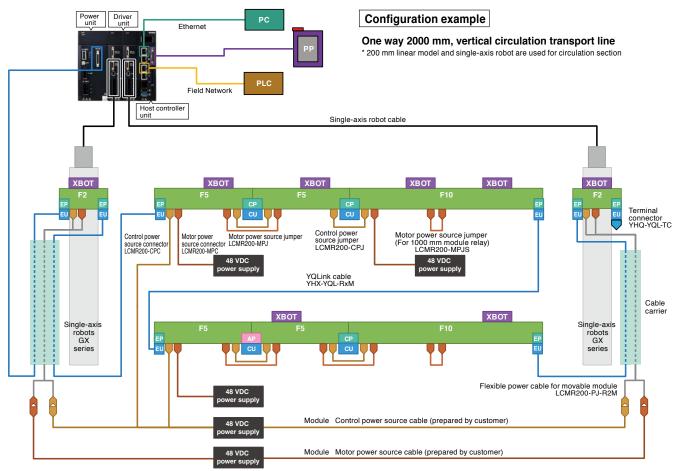




Configuration example



System configuration diagram



48 VDC power source device LCM-XCU-PS-1000W / LCM-XCU-PS-600W

Icon	Name	Description			
	Linear module	Size of modules selected here is for reference only. The cable extraction direction can be selected in units of cluster (multiple linear modules are connected to configure one line). A linear module used in the circulation part is also common.			
ХВОТ	Robot slider	A slider that operates on the linear module.			
EP	End plate	Position a linear module on both ends of a cluster.			
СР	Connection plate	The adjacent modules are positioned and connected.			
AP	Adjuster plate	This adjuster plate is used to adjust the return line length to match the reference line.			
EU	End unit	connect with the YQLink cable or YQLink terminal end unit on both ends of a cluster.			
CU	Connection unit	Between module communication of adjacent modules is connected.			
	Control power source connector	A connector to supply control power source from 48 VDC power source to the linear module.			
	Control power source jumper	A jumper cable to supply control power source to adjacent modules.			
	Motor power source connector	A connector to supply motor power source from 48 VDC power source to the linear module.			
	Motor power source jumper	A jumper cable to supply motor power source to adjacent modules.			
	Motor power source jumper (for 1000 mm module relay)	A jumper cable to relay motor power source in 1000 mm module. When 3 to 4 robot sliders stop in 1000 mm module, remove this motor power source jumper, and connect the power source device for additional motor with the motor power source connector.			
	YQLink cable	A communication cable between each linear module cluster and the controller. As shown in the above figure, connect from left to right with one line. Connect the YQLink end connector to the terminal of the end cluster.			
48 VDC power supply	48 VDC power supply	General-purpose 48 VDC power source device that can be applied to both control and motor operations. With one power source device, 10 m module control power source can be supplied. Also, one power source device can supply motor power source of two robot sliders. Prepare power source devices for each control power source and motor power source.			
	Flexible power cable for movable module	Flexible cable to supply power source to the module that performs reciprocal operation mainly in the circulation part.			

Implementing a task is simple and easy

Project file YHX Standard Profile

This standard profile is a project file for the LCMR200 that operates the single-axis robot or LCMR200 as a positioner from the host PLC via the field network.

Features of YHX standard profile

- Eliminates writing ladder logic codes.
- Adding operation through a pendant.
- Perform simple direct value operation and specific point-to-point move.
- Servo ON of any slider individually.
- Obtain alarm information through the host PLC.





Significant reduction of launching man-hour.

Significant reduction of startup time and process.

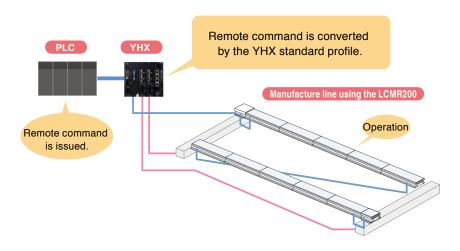
Controlled by program creation of the host PLC.

Numbers of improvements in line design and operation.

POINT 1

LCMR200 can be operated using your familiar PLC.

Use of YHX standard profile makes it possible to operate the LCMR200 from the host unit such as PLC via the I/O interface of each field work.

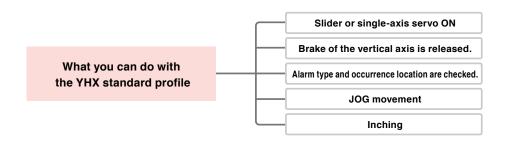


POINT 2

Creation of YHX ladder by the customer is not needed.

Dedicated input and output signals are already assigned to the word and bit area of the field network.

Operations necessary for the robot motion such as servo ON or JOG movement can be performed without creating programs.



POINT 3

Control using "movement file"

Control is performed using the point data "movement file" necessary to register the target position.

For TS-SH

Point data

Point data

Movement based on the point data.

Movement based on the data of the movement file.

POINT 4

JOG or inching operation can be performed from the pendant even when no PLC is connected.

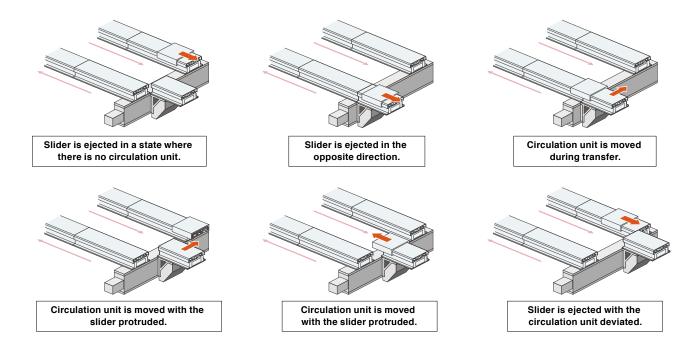
Even in a status where no PLC is connected, the axis can be operated using the JOG or inching operation from the programming pad. When the LCMR200 is used for the circulation layout, the necessary adjustment work can be performed immediately.

POINT 5

Prevention of operation leading to damage to the circulation section is supported.

Registering the pallet size to the parameter determines the slider operable area.

Even when a pallet or workpiece is larger than the overall length of the slider, a circulation operation failure can be detected. This avoids any slider transfer accident of the circulation unit and allows for safer software design.



Simple direct value operation and point designation movement can be performed.

About point designation

- · The operation pattern for up to 65,535 points in total can be designated.
- · The position, speed, acceleration, deceleration, and tolerance are designated for each point.

Designation image

Point	Position (mm)	Speed	Acceleration	Deceleration	Tolerance (mm)
1	100.000	1	0.5	1	0.01
2	800.000	0.5	1	1	0.05
3	432.562	1	1	1	0.02
4	1234.410	0.5	1	1	0.01
5	2451.400	1	1	1	0.01

Overview of remote command



- Output

 1. Axis status

 2. Point output
- 3. Current position output
- 1. Servo ON, return-to-origin, movement, JOG, inching, etc.
- 2. Point number to be used.
- When the direct value is designated, the speed and acceleration use the values stated in 2 and only the position is changed.
- 1. Servo status, during movement, or movement completion, etc.
- 2. Point number during movement
- 3. Current position is always output.



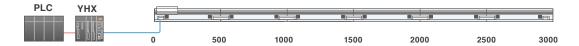
Direct value operation

Point is assigned to each slider and the coordinates are designated by the direct values.

One slider corresponds to one point.

Slider	Point used	Step		Point number	
#01	(P10)—	Siep	P10	P11	P12
#02	P11	1	500.0	-	-
#03	P12	2	1250.0	500.0	-
		3	2000.0	1250.0	500.0
		4	2750.0	2000.0	1250.0

Coordinate value is input to the point.



Point designation operation

Next movement point number for each slider is designated.

Point	Position	Speed	Ston		Slider	
(P10)+	<u>200 0</u>	1	Step	#01	#02	#03
P11	1250.0	1	1	P10	-	-
P12	2000.0	1	2	P11	P10	-
P13	2750.0	1	3	P12	P11	P10
			4	P13	P12	P11

Point number is assigned to the slider.



Process

Preparation such as hardware connection.

▼

Registration of robots and sliders, and parameter settings.

▼

Registration of circulation part configuration.

▼

Setting of each stop position.

▼

Program creation of the host PLC

Applicable controller		YHX-HCU	
Operation method		Point trace point No. specified positioning and direct value coordinate specified positioning.	
Comparative robot		LCMR200, LCM-X and GX series (LCMR200 and LCM-X cannot be controlled together).	
Interface		YHX Studio, YHX-PP, and field network communication	
Operation type		Absolute position moving	
Maximum number of points that	at can be registered.	65535	
No. of control axes		64	
(Total of sliders and single-	EtherNet/IP™	64	
axis robots, however, up to	PROFINET	64	
16 axes for single-axis robot)	CC-Link	22	
	All axes target input	Servo ON/OFF switch/Interlock/Alarm reset	
	All axes target output	Servo State/Interlock State/Alarm State/Heart beat/Emergency stop State	
Main input and output See the manual for other functions. Individual axis target input		Servo ON/OFF switch/Return to Origin/Positioning moving inside the control range (including LCM relay operation)/Slider insertion preparation from outside the control range/Slider discharge to outside the control range/Jog movement, inching movement/Movement Stop	
	Individual axis target output	Servo State/Return to origin State/Output specified point No. for various execution state display/Current position/Axis alarm State	
		Writing/reading of setting data	
Main remote command See the manual for other remo	ote commande	Alarm check	
See the manual for other remote commands.		Writing and reading of integrated running distance and No of transits.	

Dedicated for LCMR200 / GX series

Order model: YHX-HD



-	
-	Network
	N : None
	CC : CC-Link*1
	PT: PROFINET*2
	EP: EtherNet/IP*3
	ES : EtherCAT ^{*4}

YHX

- *1. CC-Link is a registered trade mark of Mitsubishi Electric Corporation.
- *2. PROFINET is a registered trade mark of PROFIBUS Nutzerorganisation e.V (PNO).
- *3. EtherNet/IP is a registered trade mark of ODVA, Inc.
- *4. EtherCAT is a patented technology and a registered trademark licensed by Beckhoff Automation GmbH (Germany).

The YHX-HD is a set model of the host controller unit, driver power unit, and related components shown below. Each unit should be assembled by the customer.

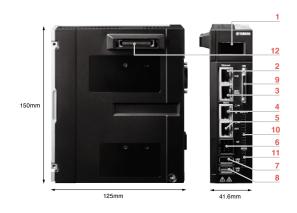
Main functions ▶ P.32



YHX-HD Configuration parts

Control unit

Host controller unit



1	LCD	Indicates the status of the controller.
2	PoE	PoE compatible giga bit Ethernet connector.
3	GbE	PoE non-compatible giga bit Ethernet connector.
4	IN	LAN connector for connecting with master devices of field network communications connector (EtherNet/IP, EtherCAT, PROFINET)
5	оит	LAN connector for connecting with other slave devices of field network communications connector (EtherNet/IP, EtherCAT, PROFINET)
6	OP	Connector for field network communications adaptors (CC-Link)
7	USB 2.0	Connector compatible with USB 2.0
8	USB 3.0	Connector compatible with USB 3.0
9	нмі	Connector for connecting with a programming pad, display and other devices
10	SAFETY	Connect with external PLC, safety devices and the like.
11	MODE	CPU OK output Programming pad AUTO/MANUAL select switch contact output
12	Connector for connec	ction between units (control signal/Power)

This unit can control multiple robots by combining with the linear conveyor. Although the unit is compact, it is multifunctional and has an enhanced interface.

Japanese	Model	YHX-HCU
	Parts No.	KEK-M4200-0A
English	Model	YHX-HCU-E
English	Parts No.	KEK-M4200-1A



Host

Safety connector

Used for building up an external safety circuit while connecting with the safety dedicated port of a host controller.

Model	YHX-CN-SAFE
Parts No.	KEK-M4432-00



Mode connector

Used for building up an external safety circuit while using the mode switch output port of a host controller unit.

Model	YHX-CN-MODE
Parts No.	KEK-M4432-10



HMI short circuit connector

Used when a programming pad is not connected with a host controller. Note that if not connected, robots do not operate because the controller enters the state of emergency stop.

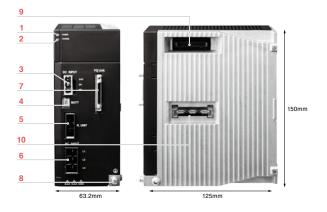
Model	YHX-CN-HMIS
Parts No.	KEK-M4429-00



Controller

D. Power ▶Power unit

Driver power unit



-1	POWER	Blue: 24V DC control power supply is available.
- 1	FOWER	Blue. 24V DO control power supply is available.
2	CHARGE	Orange: 200V AC main power supply is available and Charge*
3	DC INPUT	Control power supply connector (24V DC)
4	BATT	ABS battery connector
5	R.UNIT	Connector for connecting regenerative unit
6	AC INPUT	Main power supply connector (Single phase / 3-phase 200 to 230V AC)
_	_	YQLink communications connector
7	YQLink	Connects with IO units and linear conveyor modules.
8		Grounding terminal
9	Connector for connection between units (control signal/Power)	
10	Connector for connection between units (high voltage power source for driving motors)	

* Even when the main power is turned off, the lamp is lit while any charge remains in the internal capacitor. Do not touch the main circuit and motor terminal while the lamp is lit. Doing so may cause electrical shock. This unit supplies power to each unit. Be sure to use it together with the host controller unit or a YQLink expansion unit. Use the dedicated cables to connect with linear conveyor modules.

Model	YHX-DPU
Parts No.	KEK-M5880-0A

Control power supply connector

Used when supplying the control power supply.

Model	YHX-CN-CP
Parts No.	KEK-M4512-00



Main power supply connector

Used when supplying the main power supply.

1170	
Model	YHX-CN-DP
Parts No.	KEK-M5382-00



Regenerative unit short circuit connector

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Used when not connecting a regenerative unit. An error is generated if the short circuit connector of a regenerative unit is not connected.

Model	YHX-CN-RUS
Parts No.	KEK-M4431-00



Selection options

Field network

EtherCAT slave		
Model	YHX-NWS-ECAT	
Parts No.	KEK-M440A-A0	

EtherNet/IP adapter (slave) YHX-NWS-ENIP Model Parts No. KEK-M440A-E0

PROFINET slave		
Model	YHX-NWS-PFNET	
Parts No.	KEK-M440A-N0	

CC-Link slave (with adapter and connector)		
Model	YHX-NWS-CCL	
Parts No.	KEK-M440A-C0	



Connector for CC-Link

CC-Link connector	
Model	YHX-CN-CCL
Parts No.	KEK-M4872-C0



CC-Link branch-out connector		
Model	YHX-CN-CCSP	
Parts No.	KEK-M4873-00	



<Cautionary notes on field networks>

The YHX controllers are not equipped with a field network board.

Entering the activation code, which is issued for each host controller, into the host controller unit enables field network functions.

The activation code certificate comes with a host controller unit.

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- * If purchasing a field network only later on, inform us of the serial number of the host controller unit because it is necessary to issue the activation code.
- When the CC-Link option is selected, the CC-Link adapter × 1, CC-Link connector × 2, and CC-Link branch connector \times 1 are supplied with the product. When the CC-Link terminating connector is needed, order it separately.







Programming pad (cable set)

Order model: YHX-PP6L (KEK-M5110-0B)



Use the touch panel screen for various operation. Equipped with safety functions (emergency stop button and enable switch) and a USB connector.

Programming pad	
Model	YHX-PP
Parts No.	KEK-M5110-0A



Programming pad cable

occa michiga programmig paa.		
6 m	Model	YHX-PP-6M
	Parts No.	KEK-M5362-61



Development environment software YHX Studio for Standard Profile

Order model: YHX-SW-STUDIO-SP (KEK-M4990-10)

* No USB key is attached.

	os	Windows 7 SP1/8/8.1/10 (64-bit version only for all)
PC operating environment	CPU	Equivalent to Intel Core (TM) i5-6200U 2.30 GHz or better.
	Memory	8 GB or larger
	Hard disc drive capacity	2 GB or more of empty space for destination of installing the YHX Studio.
	Communications port	Ethernet
	Display	1920 x 1080 or higher resolution is recommended.
	Other	Ethernet cable (Category 5 or better)
Applicable controllers		YHX Host controller unit
Applicable robots		Robots connectable to YHX

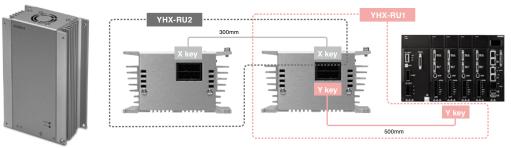
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YHX Studio for Standard Profile is software that is used when the YHX host controller unit of the YAMAHA robot controller YHX series is set up.





Regenerative unit set



Absorbs regenerative energy generated during decelerating a robot with a large

Connecting two increases the capacity to absorb regenerative energy to two times.

Absorbable electric power	100 W (Equivalent to RGU 3) * 200 W when 2 are connected
Momentary maximum power	1600W
Number of connected units	Maximum 2 units
Other	Forced cooling and exhaust by fan Overheat detection for protection

Regenerative unit

Order model: YHX-RU1 (KEK-M4107-0A)

Regenerative unit		
Model	YHX-RU	
Parts No.	KEK-M5850-0A	



Regenerative unit connection cable

Used when connecting a regenerative unit.			
0.5 m	Model	YHX-RU-50C	
	Parts No.	KEK-M5363-00	



Regenerative unit (For expansion)

Order model: YHX-RU2 (KEK-M4107-0B)

Regenerative unit	
Model	YHX-RU
Parts No.	KEK-M5850-0A



Regenerative unit expansion cable

Used when adding a regenerative unit.

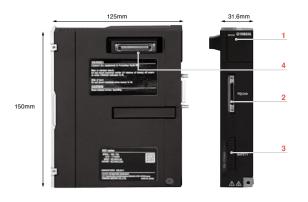
0.0	Model	YHX-RU-EX30C
0.3 m	Parts No.	KEK-M5364-00



^{*} For details about how to determine the regenerative unit quantity of the single-axis robot GX series, see P. 615.

YQLink expansion unit set

Order model: YHX-YQL-SET (KEK-M4406-0B)



1	STATUS	Blue: 24V DC power supply available Red: Error	
2	YQLink	Connect with YQLink communications connector (input) driver power unit.	
3	SAFETY Connect with external PLC, safety devices and the like.		
4	Connector for connection between units (control signal/Power)		

This unit cancels the physical restrictions of the universal controller for its expansion

YQLink expansion unit

Model	YHX-YQL
Parts No.	KEK-M4406-0A

Safety connector

Used for building up an external safety circuit while connecting with the safety dedicated port of a host controller.

Model	YHX-CN-SAFE
Parts No.	KEK-M4432-00



Other options

Battery holder box

Order model: YHX-BATT-HLD

Used to store the ABS batteries. Up to eight batteries can be stored.

Model	YHX-BATT-HLD
Parts No.	KEK-M53G7-00



Parts No.

STOP connector

Order model: YHX-CN-BU

Connector for brake power

Used to shut off the drive power of each driver unit.

Order model: YHX-CN-STOIN

YHX-CN-STOIN KEK-M5869-10

Used when the brake power is supplied externally. The driver is not needed when the brake power unit is used.

		·
1 m	Model	YHX-CN-BU
	Parts No.	KEK-M4427-00



Battery holder connection cable

Order model: YHX-BATT-15C

Used when the battery holder box is connected.

Model	YHX-BATT-15C
Parts No.	KEK-M53G4-00



CC-Link terminating connector

Order model: YHX-CN-CCTM

Model	YHX-CN-CCTM
Parts No.	KEK-M4874-00















Driver for single-axis robot

Order model:

V: With brake unit B: With ABS battery N: None N: None A30:YHX-A30-SET

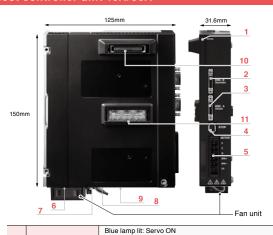
The customer assembles the necessary number of driver units between the host controller unit and driver power unit to use them.



YHX-A10-SET / YHX-A30-SET Configuration parts

Control unit

Host controller unit 10A/30A



10			
10			
9	Power supply input for holding braking effort	External power supply connector for brake unit or brake	
8	Power supply output for brake	Brake unit connector	
7	BATT connector	ABS battery connector	
6	Connector for connecting a fan	Fan unit connector *	
5	MOTOR	Connector for connecting robot cable (power line) · Output U/V/W current output, Brake output	
4	STOP	Use this to build up a circuit to shut off the power to a motor. When not used, connect with the "STOP short circuit connector"	
3	ENC.A	Connector for connecting robot cable (encoder cable)	
2	ENC.B	Linear scale sensor cable connection connector dedicated for circulation unit	
1	STATUS	Blue lamp flashing: Servo OFF and ready for operation Blue/Red flashing in an alternate fashion: Servo OFF and not yet ready for operation Red flashing: Error	

This unit drives robots. Use cables to connect with robots. The unit is connected to the left of the control unit.

10A	Model	YHX-A10
Specifications	Parts No.	KEK-M5800-0A
30A	Model	YHX-A30
Specifications	Parts No.	KEK-M5800-1A



Stop short circuit connector

Used when it is not necessary to shut off the power supply to each driver unit separately.

Model	YHX-CN-STOEN
Parts No.	KEK-M5869-00



Fan unit (30A specifications only)

Cools down a driver unit. Attached at the bottom of a driver unit to send wind to heat sinks. A driver unit made

to the 30 A specification is snipped out with a fan unit.	
Model YHX-AMP-FU	
Parts No. KEK-M6195-00	



* Fan unit is equipped as standard for 30 A specifications.

Selection options

ABS battery

Model	YHX-AMP-BATT
Parts No.	KEK-M53G0-00

Brake unit

A unit for releasing braking effort of the robot* with a brake. Enables robot brake control without an external electrical wiring Installed at the bottom of a driver unit.

Model	YHX-AMP-BU
Parts No.	KEK-M5317-00



^{*} Unable to release the braking effort of a robot with a brake if a brake unit is not available or if a 24V DC power supply is not connected.

The parts with the marks below are their respective constituent parts.



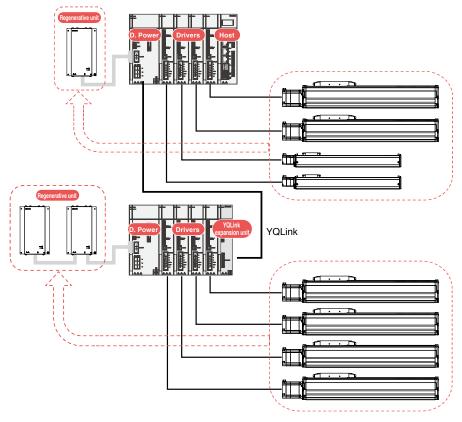




ption

Procedure to determine the regenerative unit quantity (Single-axis robot GX series)

The number of regenerative units to be connected to the D. Power is determined depending on the configuration of the single-axis robot GX series operated by each Drivers connected to this D. Power.



When the following conditions are satisfied, one regenerative unit needed.

- 1. The total motor capacity of vertically installed single-axis robots is 400 W or more.
- 2. The vertically installed single-axis robots include the following.
 - · GX07: Lead is 5 mm and stroke is 1000 mm or more.
 - · GX10: Lead is 5 mm and stroke is 500 mm or more.
 - · GX10: Lead is 10 mm and stroke is 500 mm or more.
 - · GX10: Lead is 20 mm and stroke is 1200 mm or more.
- 3. The horizontally installed single-axis robots include the following.
 - · GX16: Lead is 20 mm and stroke is 500 to 800 mm.
 - · GX20: Lead is 20 mm and stroke is 550 to 800 mm.
- 4. The horizontally installed single-axis robots satisfy the following conditions.
 - · The total number of GX12, GX16, and GX20 robots is 3 or more.
 - · The total number of GX16 and GX20 robots is 2 or more.

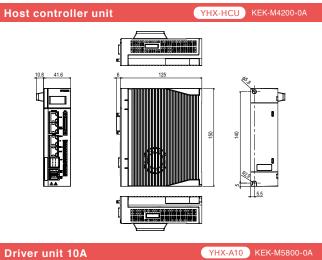
When the single-axis robot with an operating duty (*) of 50% or more is used for 1 axis or more, two regenerative units are needed.

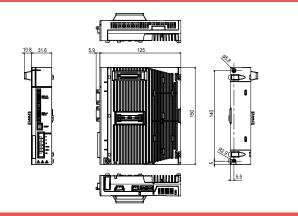
- 1. The total number of vertically installed GX10, GX12, GX16, and GX20 robots is 8 axes or more.
- 2. The total number of vertically installed GX12, GX16, and GX20 robots is 7 axes or more.
- 3. The total number of vertically installed GX16 and GX20 robots is 4 axes or more.
- 4. The vertically installed GX20 robots are connected to 4 axes or more.
- 5. The total number of horizontally installed GX10, GX12, GX16, and GX20 robots is 6 axes or more.
- * The operating duty is calculated by the following formula.

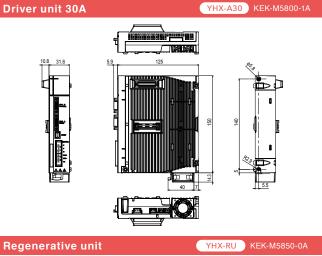
Operating duty = Total robot movement time ÷ 1 cycle time × 100[%]

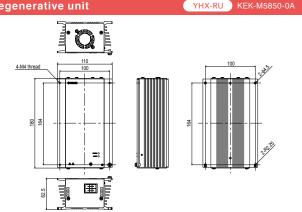
For the robot that reciprocates in one cycle, the total forward and backward movement time becomes the "total robot movement time".

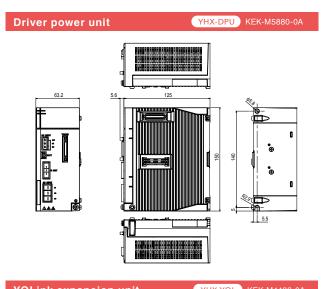
External view of each unit

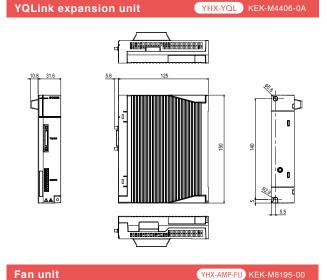


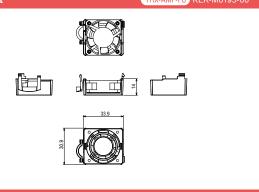


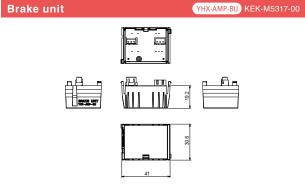












robots

Basic specifications

Host

Host controller unit

Japanese	Model	YHX-HCU
	Parts No.	KEK-M4200-0A
English	Model	YHX-HCU-E
	Parts No.	KEK-M4200-1A

	Item	Host controller unit	
Power supply	Control power supply	Voltage: 21.6 to 26.4V DC (24V +/-10%)	
Fower supply	Control power supply	Current: 3.5 A (Including PoE)	
	External I/F	Giga bit Ethernet Compatible with PoE yet 1 port (23W) Not compatible with PoE yet 1 port Field network (Slave) Select one from the following 4 kinds. EtherCAT CC-Link* EtherNet/IP *A separate adaptor is necessary. PROFINET	
Connector	Connector	USB - USB 2.0 1 Port (Bus power 0.5 A) - USB 3.0 1 port (Bus power 1.0 A)	
НМІ		Connector for connecting programming pad	
	SAFETY	Emergency stop contact output Enable switch contact output Emergency stop input	
	MODE	CPU OK output Programming pad AUTO/MANUAL select key switch output	
Indicator	LCD	128 x 64 dots, Yellow	
Di	mensions	41.6×150×125 (mm)	
	Weight	750g	
Protection struc	cture / Protection rating	IP20 / class 1	

D. power

Driver power unit

Model	YHX-DPU
Parts No.	KEK-M5880-0A

	Item	Driver power unit
		Voltage: 21.6 to 26.4V DC (24V +/-10%)
Dawer armstr	Control power supply	Current: 0.5A
Power supply	Main names amaly	Input: Single phase / 3-phase 180 to 253V AC / (200 to 230V AC +/-10%), 50/60 Hz
	Main power supply	Power supply capacity: Single phase 3.5 kVA 3-phase 6 kVA
Connection motor capacity		Single phase within 1.6 kW, 3-phase within 3.0kW / Driver unit within 16 units (16 axes)
	Regenerative	Regenerative unit connector
Connector	External I/F	YQLink
	ABS Battery	ABS Battery connector
Dir	mensions	63.2×150×125 (mm)
	Weight	1050g
Protection struc	ture / Protection rating	IP20 / class 1

254 to 357V DC (Controller DCBUS connected)

Regenerative connector (For connecting regenerative unit/ For adding regenerative unit)

Regenerative unit

Regenerative unit

Model	YHX-RU
Parts No.	KEK-M5850-0A

Power supply

Dimensions

Weight
Protection structure / Protection rating

Input

YQLink expansion unit

Model	YHX-YQL
Parts No	KEK-M4406-0A

Item		YQLink expansion unit
Dower ounnly	Power supply Control power supply	Voltage: 21.6 to 26.4V DC (24V +/-10%)Voltage: 21.6 to 26.4V DC (24V +/-10%)
Fower supply		Current: 0.3A
Connector	External I/F	YQLink
Connector	SAFETY	Emergency stop input
Dir	mensions	31.6×150×125 (mm)
Weight		380g
Protection structure / Protection rating		IP20 / class 1

62.5×180×110 (mm)

1450g

IP20 / class 1

Driver

Driver unit

Servo motor specifications (10A)

Model	YHX-A10
Parts No.	KEK-M5800-0A

Driver unit

Servo motor specifications (30A)

Model	YHX-A30
Parts No.	KEK-M5800-1A

Item		Driver unit 10A/30A
Dawer armaly	Control power supply	Voltage: 21.6 to 26.4V DC (24V +/-10%)
Power supply		Current: 0.8A (Including brake unit power supply)
	ENC.A	Encoder input
	ENC.B	Encoder input (Dedicated use)
	STOP	Gate off input, 2 points
	SIOP	Gate status output, 1 point
Connector	MOTOR	Motor drive power supply output Brake power supply output
	ABS Battery	ABS Battery connector
	Fan unit connector	Accessory fan unit connection
	Brake unit connector	Brake unit is connectable.
Dimensions		31.6×150×125 (mm)
Weight		10A: 560g / 30A: 570g (Including accessory fan unit)
Protection structure / Protection rating		IP20 / class

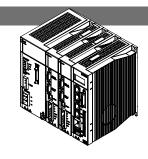
YHX

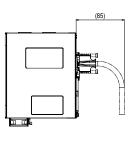
External view of YHX unit combination

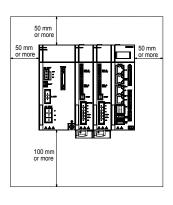
Combination of host controller (HCU), driver unit (A30), and driver power unit (DPU)

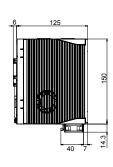


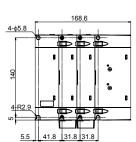


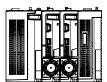












Combination of host controller (HCU) and driver power unit (DPU)



