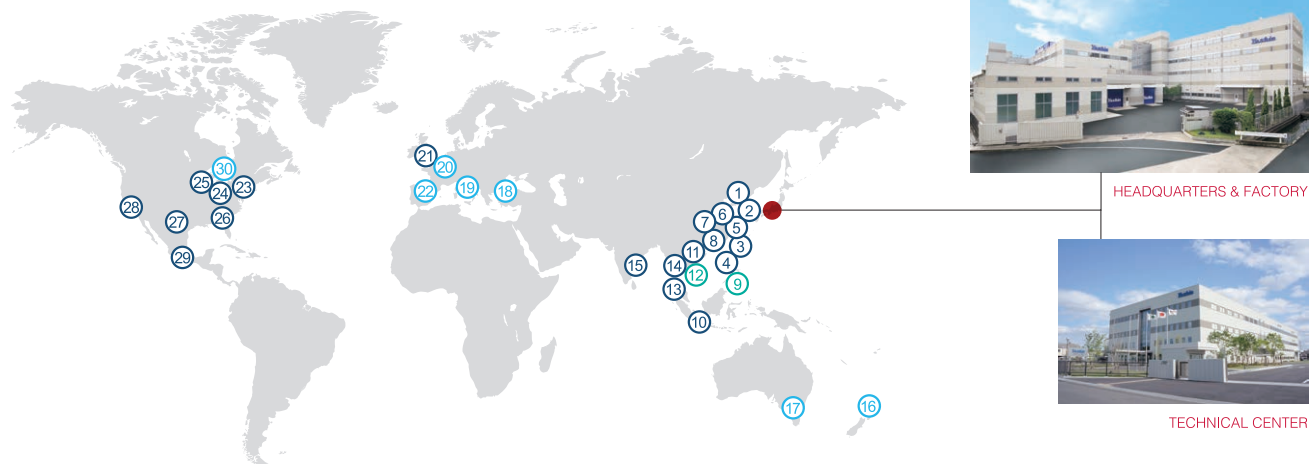


Yushin Worldwide Network



23 Yushin America, Inc.



21 Yushin Automation Ltd.



7 Guangzhou Yushin Precision Equipment Co., Ltd.



1 Yushin Korea Co., Ltd.

HEADQUARTERS&FACTORY

- **Japan**
11-260 Kogahonmachi, Fushimi-ku, Kyoto

TECHNICAL CENTER

- **Japan**
487 Kuzetsukiyama-cho, Minami-ku, Kyoto

SUBSIDIARIES(SALES)

- ①② **Korea**
Yushin Korea Co., Ltd.
- ③④ **Taiwan**
Yushin Precision Equipment (Taiwan) Co., Ltd.
- ⑤⑥ **China/Shanghai, Tianjin**
Yushin Precision Equipment Trading (Shanghai) Co., Ltd.
- ⑧ **China/Shenzhen**
Yushin Precision Equipment Trading (Shenzhen) Co., Ltd.
- ⑩ **Indonesia**
PT. Yushin Precision Equipment Indonesia
- ⑪ **Vietnam**
Yushin Precision Equipment (Vietnam) Co.,Ltd.
- ⑬ **Malaysia**
Yushin Precision Equipment Sdn. Bhd.
- ⑭ **Thailand**
Yushin Precision Equipment (Thailand) Co., Ltd.
- ⑮ **India**
Yushin Precision Equipment (India) Pvt. Ltd.
- ⑳ **U.K**
Yushin Automation Ltd.

- ⑳㉑㉒㉓ **U.S.A**
Yushin America, Inc.

REPRESENTATIVE OFFICES

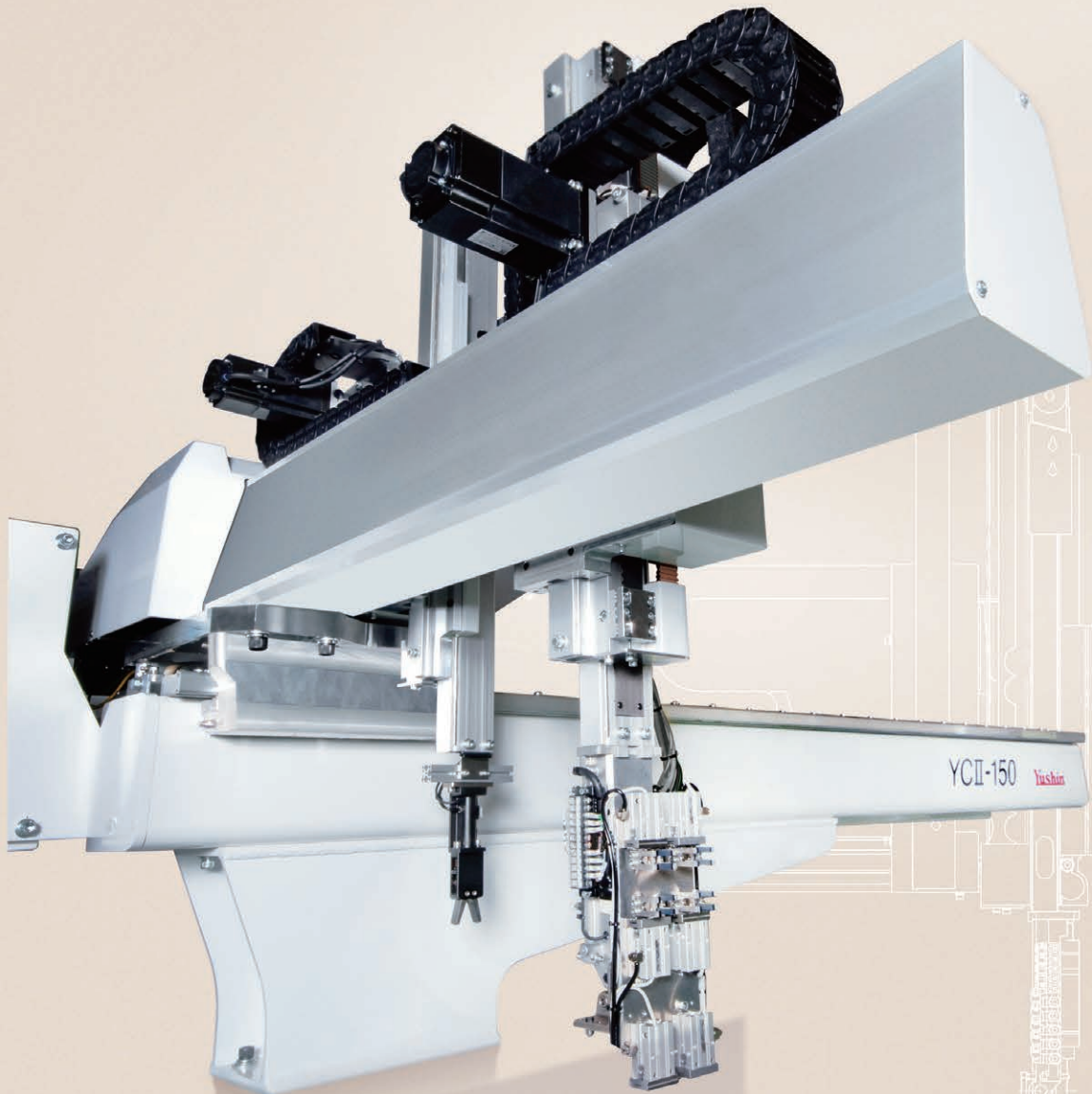
- ⑨ **Philippines**
Philippines Representative Office
- ⑫ **Vietnam**
Ho Chi Minh Representative Office

AGENTS

- ⑰ **New Zealand**
Tasman Machinery Limited
- ⑱ **Australia**
Tasman Machinery Pty Limited
- ⑲ **Turkey**
Mar Plastik Metal Kalip San. ve Tic. Ltd. Şti.
- ⑲ **Italy**
MACAM S.r.l.
- ⑲ **Netherlands**
Polymac-Robotics B.V.
- ⑲ **Spain**
MECMAN INDUSTRIAL, S.L.
- ⑳ **Canada**
EN-PLAS, Inc.

SUBSIDIARIES(FACTORY)

- ⑦ **China/Guangzhou**
Guangzhou Yushin Precision Equipment Co., Ltd.



2012
Japan Machinery Federation's
Energy Efficient Machine Award Winner

YC / YCII



Safety information

- These products are industrial robots as defined in the labor safety rules. Always take great care when operating any robots.
- To improve visual clarity, these robots may be shown without the safety guards that are identified in the safety rules. Never operate the robots without all safety guards in place.
- Before using any product introduced in this literature, all operators must read and understand the instruction manual and other related documents for proper and safe equipment operation.

* The contents in this catalog are subject to change without notice.

Yushin commits itself to contributions to the creation of more eco-sensitive technologies by employing eco-friendly principles.

Optimal Design YC / YCII SERIES Robots

Energy Conservation

1. Design Optimization

↓
Enabled use of more energy-efficient servo motors

Uses
26%
26% less electricity than YA robot*

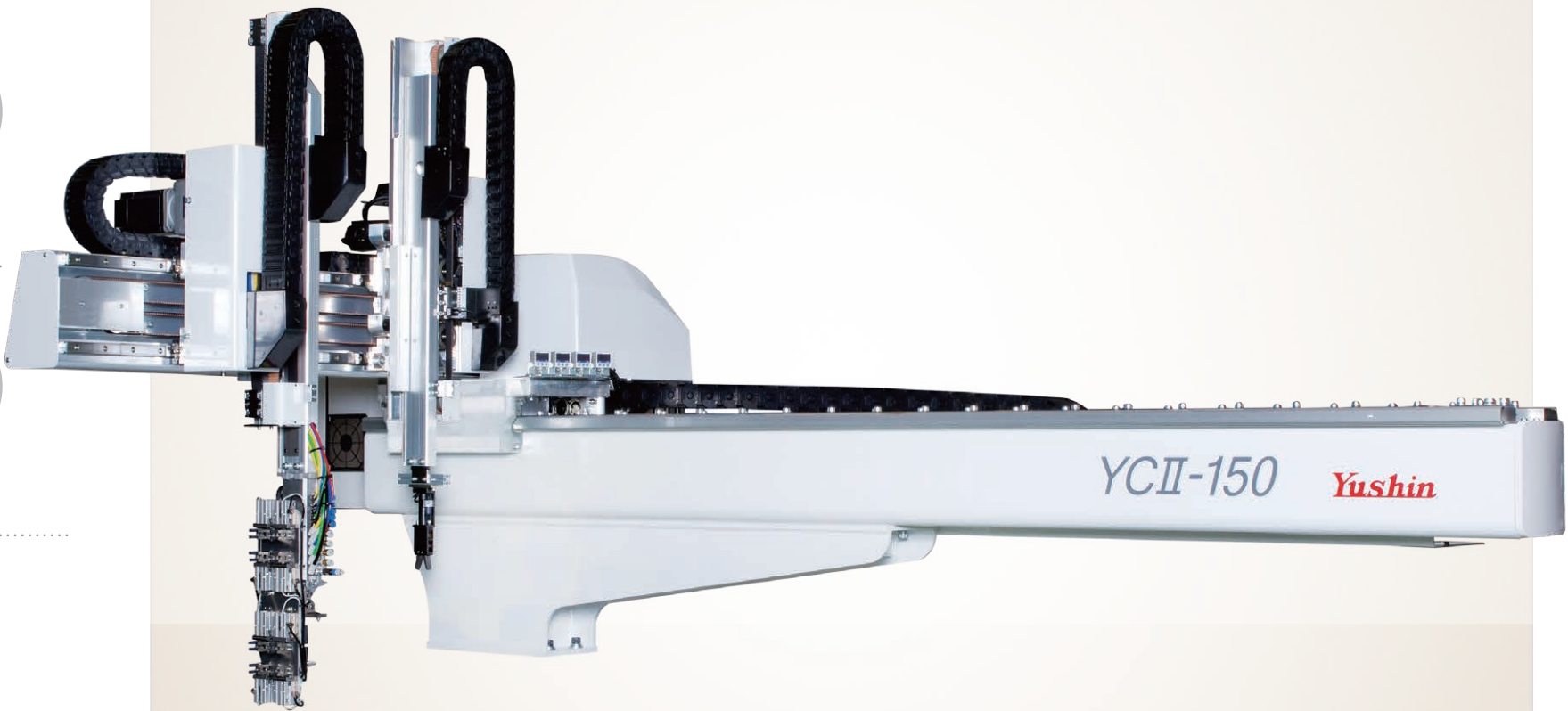
2. ECO Vacuum Standard-Equipped

↓
Reduces air consumption by 75%

Uses
75%
less air than YA robot

3. New ECO Monitor Function

↓
Energy and air consumption may be measured in real-time



Vibration suppression

1. Design Optimization + CFRP** + Anti-vibration Routines

↓
72% reduction of settling time

72%
less settling time than YA robot
Shortens overall take-out time

2. Improved Vibration Damping

↓
Smoother, more precise take-out

More Standard Features

1. Eight features, formerly options, are standard-equipped on YC

8
new standard features added

2. New "Predictive Maintenance" function is standard

Design Optimization - Co-Research with Kyoto University -

Design Optimization is what Yushin Calls the practice of applying CAE (computer-aided engineering) to seek the most theoretically optimal form for a robot based on its mechanism and motions. This advanced approach is used to design lighter weight and increased reliability into automobiles and aircraft. Yushin's design optimization efforts began by co-researching end-of-arm tool design with Kyoto University. After successfully optimizing robot tools, Yushin employed the process with HSA, TSXA, and now YC robots.

Conceived with design optimization, the YC series is lighter and less prone to vibration. The resulting 26% savings in electricity usage and 72% shorter settling times directly benefit your company's productivity.



Japan Society of Mechanical Engineers Technology Award Winner

The JSME presented their prestigious Technology Award in 2011 to Yushin's project to use structural optimization technology to develop a take-out robot for high-performance injection molding machines. This research formed the core design of the YC series robots.

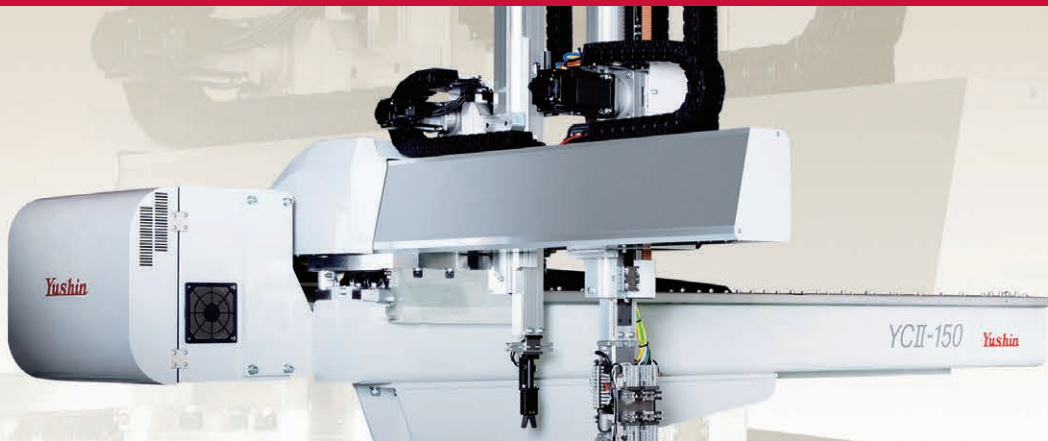


Japan Machinery Federation's Energy Efficient Machine Award Winner

The JMF awarded their Energy Efficient Machine Chairman's Award to Yushin for the YC series: injection-molding take-out robots with lighter weight via design optimization and air-economizing controls.

* comparison of YA and YC 150/250 size models
** carbon fiber reinforced plastic

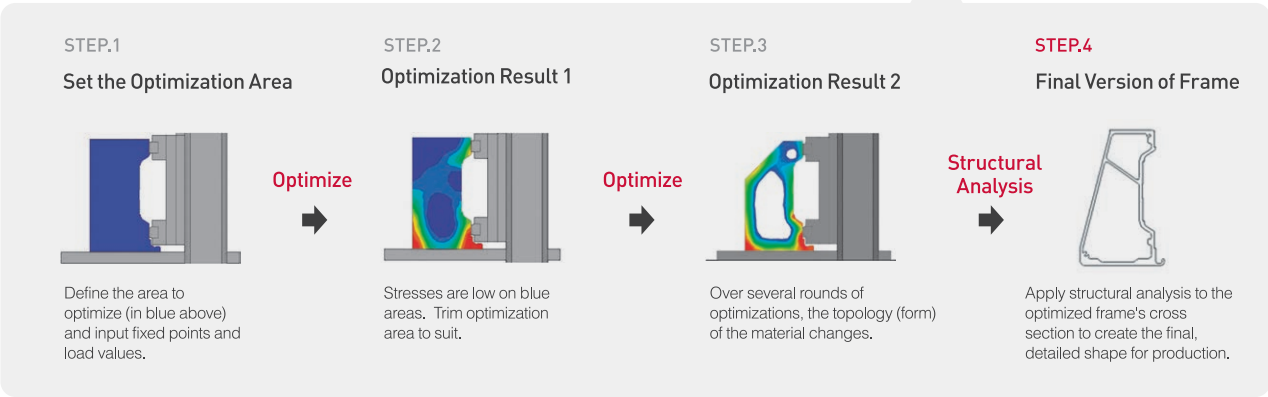
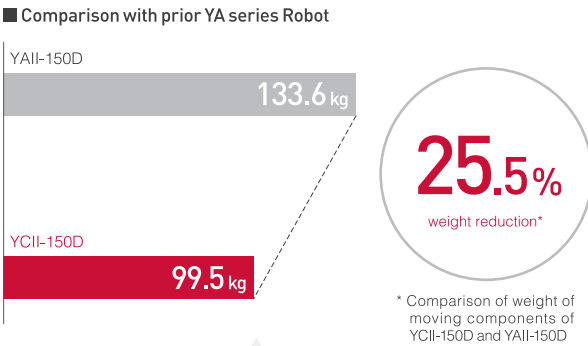
ENERGY CONSERVATION



Optimized, Lighter Weight

Lighter Weight Through Optimization Technology

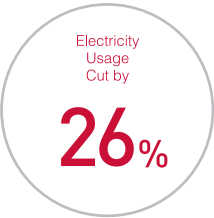
In a relentless pursuit of lighter weight, each component of the YC robot has been re-engineered at the structural level using optimization technology. The result: a successful weight reduction of 34.1kg on the YC's moving units (25.5% lighter than the YA robot). Less weight brings added benefits such as much higher energy efficiency and better longevity.



BENEFITS

Higher Energy Efficiency

With lower weight courtesy of design optimization, less energy is required to drive the robot. Accordingly, Yushin is able to employ smaller servo motors in the YC to lower its electricity consumption as much as 26% compared to the YA series. (Electricity Usage Cut by 26%)



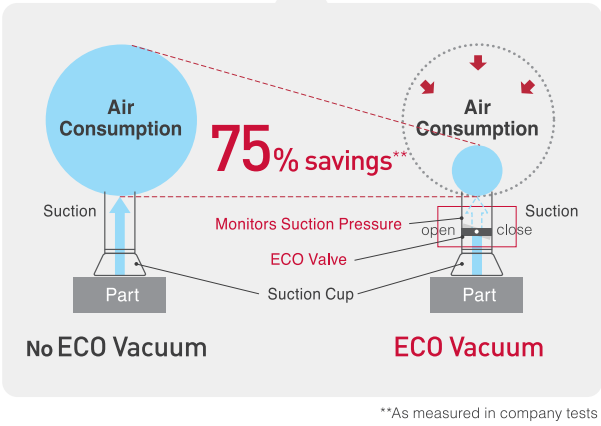
Increased Longevity

Lighter-weight components lower the stress placed on the robot's traverse frame, helping to reduce the likelihood of failures and extend the robot's service life.

Better Air Economy

Saving Energy by Economizing Air Used During Suction Grip Take-out

ECO Vacuum is Yushin's proprietary compressed air economizing system. By monitoring suction pressure and shutting off the air supply as long as gripping power is maintained, it cuts air usage by as much as 75%. That efficiency translates into lower air compressor electricity bills and lower equipment costs over time.



Air Economizing Tool

ECO Vacuum

PAT.

BENEFITS

Annual Electricity Savings for One Compressor

USD \$700***

■ Test Conditions	
Daily Operating Time	24hrs
Molding Cycle	15sec (Where take-out interval [from part take-out to part release] is 25% of cycle, ECO Vac is active for 75% of every cycle)
Amount of Air Consumption (1 vac circuit)	19NL/Cycle(No ECO Vacuum) 4.75NL/Cycle(ECO Vacuum)
Compressor Air Supply	2,300NL/min
Compressor Motor Electric Usage	16kW
Electricity Cost	16 cents/kWh***
Air Consumption Reduction Rate Due to ECO Vacuum	75%

*** converted from JPY at JPY 80 = USD \$1

NEW FEATURE

Energy Conservation Tool

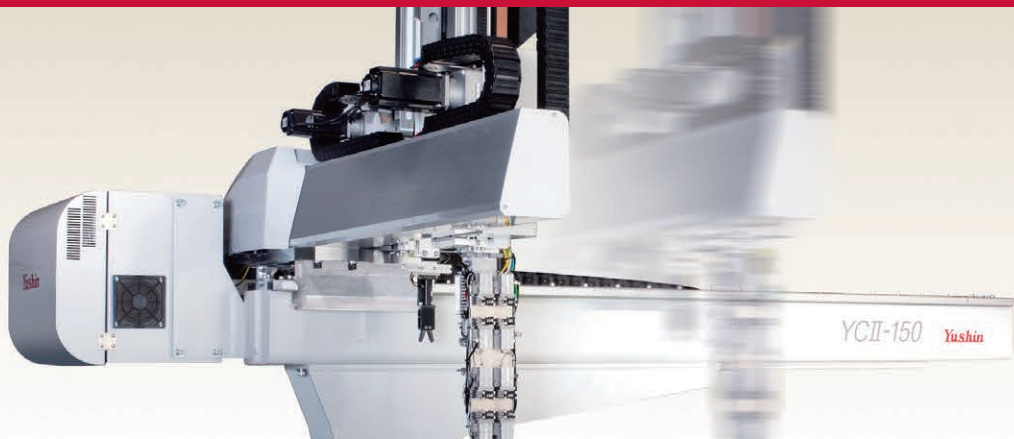
ECO Monitor

PAT.P

Displays the robot's usage of electricity and air in real-time to assist operators with energy-saving measures.



VIBRATION CONTROL

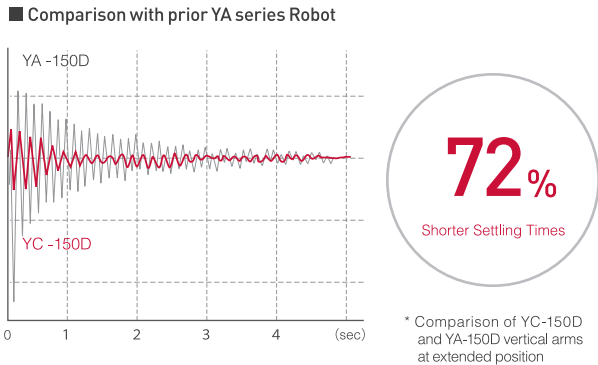


Powerful Selection of Standard Features

Shorter Settling Times

Design Optimization + CFRP + Anti-vibration Controls

By examining such factors as natural oscillation and damping characteristics, design optimization led to much better vibration control for the YC. Specifically, settling time (time required for oscillations to calm down to within a set value) was reduced by 72%.



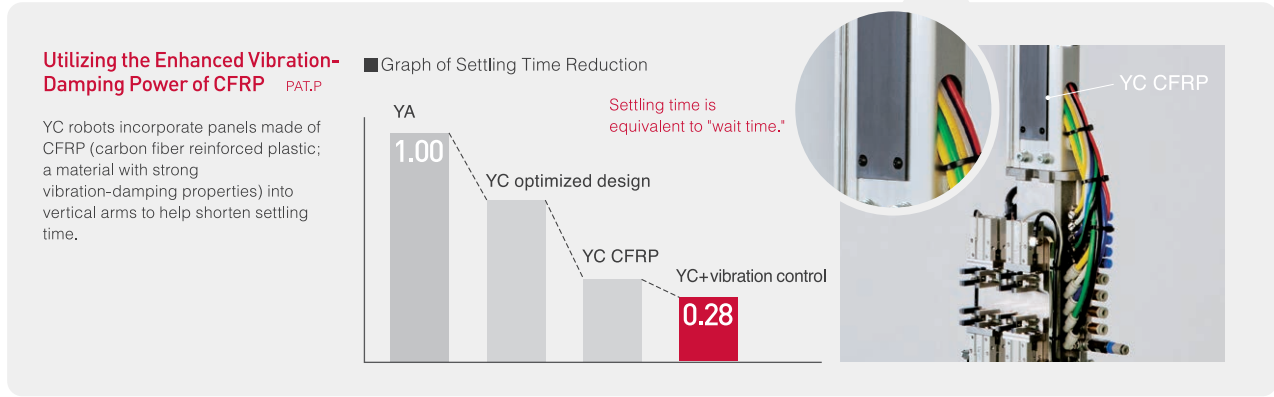
Enhanced Convenience

Loaded with Convenient New Functions like Predictive Maintenance

The E-touch Compact-YC controller features a highly visible 7.5in full-color touchscreen, a comfortable one-handed grip, and powerful yet user-friendly robot controls.

STANDARD EQUIPPED

E-touch compact-YC^{PAT.}



BENEFITS

Shorter Timers

With such an extreme reduction in settling time, each wait timer on the YC can be shortened to allow for faster overall molding cycles.

Smooth, Stable Take-out

Part take-out, handling, and release motions are smooth on the YC. Its superior vibration damping during movement and stops helps ensure steady, accurate take-out.



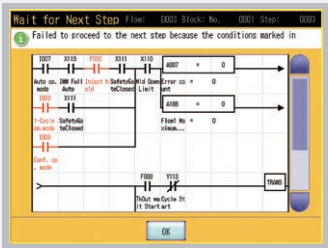
NEW Predictive Maintenance

Continuously monitors robot during operation and alerts operator with a message if potential trouble symptoms are detected. This function elevates maintenance from preventative to predictive.



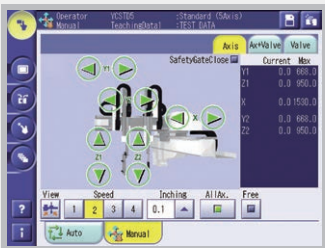
NEW Flowchart Display

If an operation goes awry (such as when run conditions are not met at the start of auto operation) rather than just read an error message, the operator can open a flowchart screen to check conditions quickly and speed up troubleshooting.



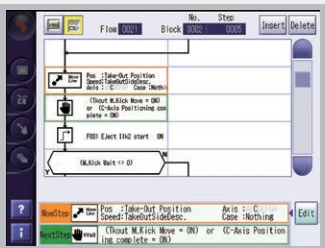
NEW Enhanced Manual Operation Screen

1) Manual controls for all axes are grouped on one screen for easier operation.
2) For easier reference, operators may now access the robot control guide even while using the manual operation screen.

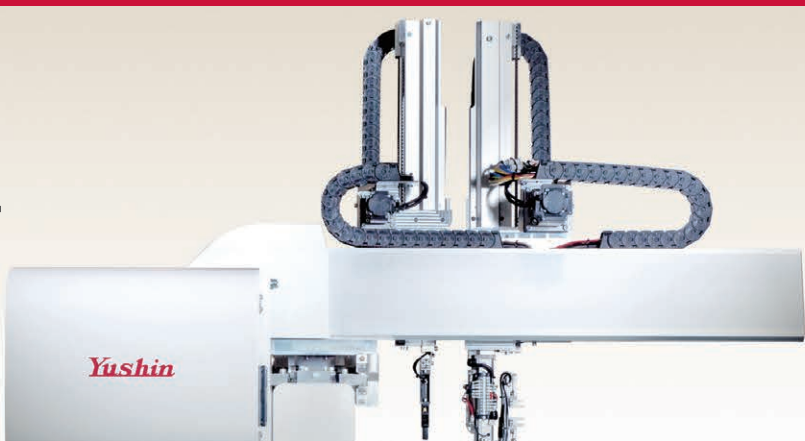


Lead Through Teaching

Allows users to easily make various kinds of changes to robot programs right on the shop floor, helping to save time and programming costs.



STANDARD EQUIPMENT



OPTIONS

STD ECO Vacuum Circuit (1 circuit)

Automatically monitors vacuum pressure when suction-gripping parts to reduce compressed air usage by as much as 75%*. The YC comes standard with one ECO Vacuum circuit.

STD Reject Circuit

After receiving a reject signal from the molding machine,robot releases the defective part at a position separate from the ordinary parts.

STD Under-Cut Motion

Up to 3 additional teaching positions may be programmed in order to extract products from an under-cut mold.

Stationary Side/Moveable Side Selection

Motion mode-select where operator may choose to perform product take-out from either fixed side or moveable side of mold. (Standard feature on 250 and smaller models; optional on 400 and larger models.)

Lead Through Teaching

Allows users to easily add positions, add timers, change motion speeds, or make other kinds of changes to robot programs.

Product Chuck Circuit (1 circuit)

The YC series comes standard with one product chuck circuit; additional circuits are available as options.

NEW ECO Monitor

Displays the robot's usage of electricity and air in real-time to assist operators with energy-saving measures.

STD Initial Shots Discharge Motion

At the start of auto operation,for a set number of shots the robot automatically places part at a position separate from the ordinary parts.

STD High-Cycle Motion (Flip on the Fly)

Traverse and wrist flip motions are performed simultaneously to shorten the robot's overall cycle time.

STD Wait for Descent Order

When downstream machinery is not ready, the robot waits for a set interval for the Descent Order signal to turn ON. In the event it does not receive the Descent Order, the user may mode-select whether the robot immediately error-stops the line,or if it just continues the cycle and releases parts to either the good part or reject drop points.

Production Status Monitor

Logs production status such as quantity of products and cumulative operating hours. It also forecasts time required to produce a target number of products.

Sprue Chuck Circuit (1 circuit)

Operator may determine the sprue release position via a mode selection.One sprue chuck circuit is standard-equipped; additional circuits are available as options.

NEW Predictive Maintenance

Continuously monitors robot during operation and alerts operator with a message if potential trouble symptoms are detected. This function elevates maintenance from preventative to predictive

STD Sampling Motion

During auto operation, the robot will place products at a sample release position once after every set number of molding cycles.

STD Wait on Traverse

While the mold is closed, if the robot is unable to wait above the mold (due to obstacles, etc), a second wait position may be designated at another point along the traverse axis.

Detection OFF Verification

Robot verifies that product and sprue detection inputs on vacuum and grippers are OFF when it returns to its waiting position.

Bilingual Display

Controller is standard-equipped with 2 user-selectable display languages: default Japanese plus one alternate language (English, Chinese, Korean, German, Dutch, Thai, Indonesian, Spanish, Portuguese, or Italian).

NEW New features developed for the YC series

STD Former options which are standard features on the YC

* As measured in company tests

NC Servo Wrist (2 models)

Dual-axis NC servo-powered modules take the place of wrist flip mechanism to give the YC the deft versatility of an articulated robot. Two models available: flip and "B-axis" rotator type, and flip and "A-axis" rotator type.

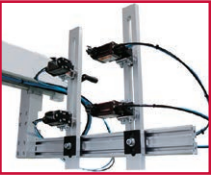
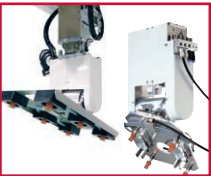
(horizontal rotation + flip NC servo wrist is only available for YCII-800-e and smaller models.)
* Please consult your Yushin sales rep about NC servo wrist payload limits.

External Beam-Mounted Nipper Unit

After removal from the mold, gated products may be inserted into this beam-mounted external nipper unit which separates the gate from the products.

Horizontal "B-Axis" Wrist Rotation Unit

Adding this unit to the main arm wrist allows the orientation of released products to be changed.



EOAT Quick-Change Unit

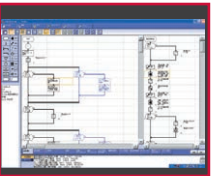
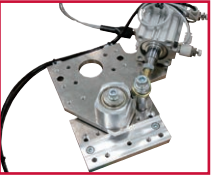
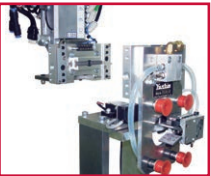
This unit integrates mechanical, electrical, and pneumatic connections to allow for fast, single-button manual or automatic (robot-performed) removal or exchange of end-of-arm tools.

Vertical Wrist Rotation Unit

Adding this unit to the wrist-flip mechanism allows the orientation of released products to be changed from 0 to 90 degrees.

Flexible Teaching

Software kit which enables users to create and modify complex motion programs. Includes robot simulator for offline program testing or training.



OTHER OPTIONS

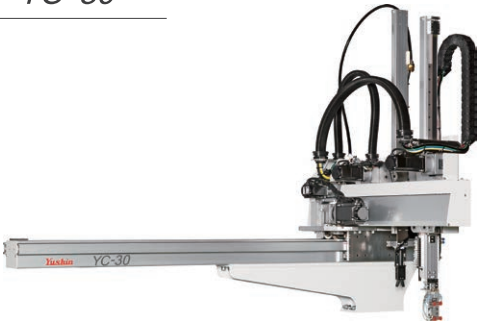
Option Name	Description
Additional Vacuum Circuits Add Release Points	Up to 3 optional vacuum circuits may be added to the one standard-equipped circuit to expand release positions up to 4.
Additional Product Chuck Circuits	1 or 3 optional chuck circuits may be added to the single standard-equipped circuit for a total of 2 or 4 product gripper circuits.
Additional Sprue Chuck Circuits	Allows the timing of the sprue release to be set via mode selection. 1 or more additional circuits may be added to the single, standard-equipped circuit.
Pitch Revise Circuit	Allows operator to specify pitch of parts gripped by the end-of-arm tool.
Sprue Cut Circuit	Allows nippers on-board the end-of-arm tool to cut sprues. May not be equipped together with EOAT Gate Cut Circuit option.
EOAT Gate Cut Circuit	Enables cutter within end-of-arm tool to approach the gate of a part and cut it. May not be equipped together with Sprue Cut Circuit option.
Chuck Soft Grip Circuit	A pressure reducing valve is added to adjust chuck grip and prevent deformation of molded products.
EOAT One-Touch Quick-Release Fitting	Allows for fast manual attachment/detachment of end-of-arm tool.
Stationary-side/movable-side selection	It is a motion mode to switch the side of product extraction between stationary-side and movable-side,(standard on 250 and smaller models)
Signal Light (Single or Tower)	Robot status indicator lights. Available in single red, single yellow, or tower (red + yellow + green) models.
Ascent Limit Product Verification	After product take-out, product presence is verified at the ascent limit position by a remote-mounted limit switch.
Traverse Beam Stanchion	Support stanchion is installed on the end of extended-length traverse beams or when extra precision is necessary when placing products.(compatible with YCII-800-e and smaller models.)
Increased Maximum Payload	Power along the vertical axis is increased, enabling the robot to handle heavier payloads.(compatible with YCII-800-e and smaller models.)
Increased Wrist Flip Torque	High-power wrist for heavy tools or tools that are mounted with large offsets from center.(compatible with YCII-800-e and smaller models.)
Maintenance Steps	A ladder and stage for maintenance work can be installed on the robot.
Custom Color	Robot body, frame caps, and control boxes will be painted with a color specified by the customer.
8-Pin Stocker Unit Connector	Metal connector which allows robot to interface with Yushin-made stocker unit.
Pause for Mold Open	Used for manual ejection.
Centralized Manual Lubrication System	Delivers lubricant from manual pump to necessary areas.
Centralized Automatic Lubrication System	Delivers lubricant from electric pump to necessary areas.
Cleanroom Lubrication (customer-specified)	Robot will be lubricated with the customer's choice of cleanroom-approved grease.
Protective sheet for touch screen	A cover sheet to protect the touch screen.
Dropped Product Detection	After extracting products, robot continuously verifies its hold on the products until it finally releases them.
Take-out Failure Stop at Ascent Limit	If a take-out failure occurs during automatic operation, robot ascends to vertical limit and error-stops (standard robot completes 1 full cycle before e-stopping).
Low Air Pressure Detection	Robot error-stops if air supply's pressure drops below a set value.
Molding Machine Interface	Robot communicates mold numbers and other information with the molding machine to automatically synchronize set-up data.
Trilingual Display	3 user-selectable display languages are installed in controller (Japanese and one alternate language are standard-equipped; a third language is installed with this option).
Casing Reset Interface	Interface with stocker unit which, when stocker returns to its home position, instructs robot to reset its casing counter and resume casing from position no. 1.
Flipped Gate Cut Mode	Mode where robot wrist flips prior to gate-cut sequence.
4-Position Gate Cut	User can set up to 4 gate-cut sequences, each with a different wait position prior to advancing to cut (up to 3 wait positions may be set).

YC / YCII SERIES

Standard specifications

Power source	Driving method	Control method	Air pressure	Wrist flip angle
Single phase AC200V/220V (50/60Hz)	Digital servo motor 3/5-axis	Micro computer control	0.49MPa Maximum air pressure 0.7MPa	90 deg.

YC-30



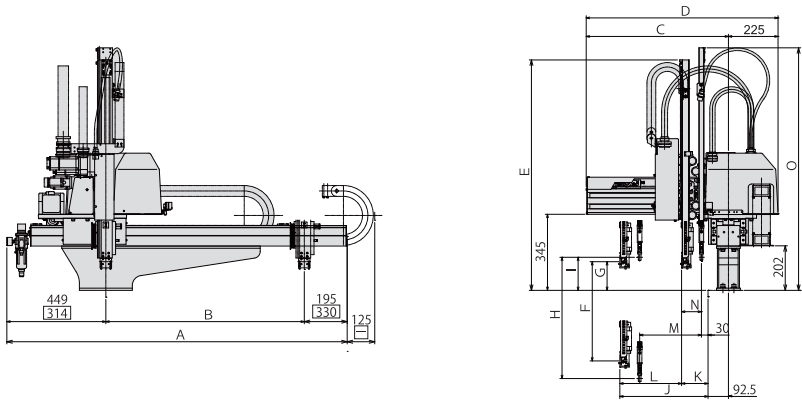
Specification

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (Nl/cycle)	Maximum payload (kg)	Clamping force (tf)
			main arm	sub arm	main arm	sub arm			
YC-30S	S-type 1.9kVA AC200V 9.3A	900 [1200] *[1600]	320 *(470)	—	450 [550]	—	2.3 (ECO Vacuum OFF)	2	up to 60
YC-30D	D-type 2.2kVA AC200V 10.8A		280 *(430)	280 *(430)		550 [650]	0.8 (ECO Vacuum ON)		

S-type: Equipped with main arm only D-type: Equipped with main and sub arms [] =Extended traverse stroke
Maximum payload includes the end-of-arm-tool.
Higher payloads possible,depending on take-out settings and speeds.
*() = kick stroke dimensions exclusively for models with extended traverse stroke of 1600mm.

■ Dimensions(mm)

- () Extended traverse stroke
- < > Extended vertical stroke
- < > Extended kick stroke
- [] S-Type Dimensions
- for rear-side models



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
YC-30	1544 (1844) (2244)	900 (1200) (1600)	645 《795》	870 《1020》	1045 <1145>	450 <550>	130	550 <650>	150	400 《550》	120 [80]	280 [320] 《430》 [《470》]	280 《430》	90	1100 <1200>

YC-70

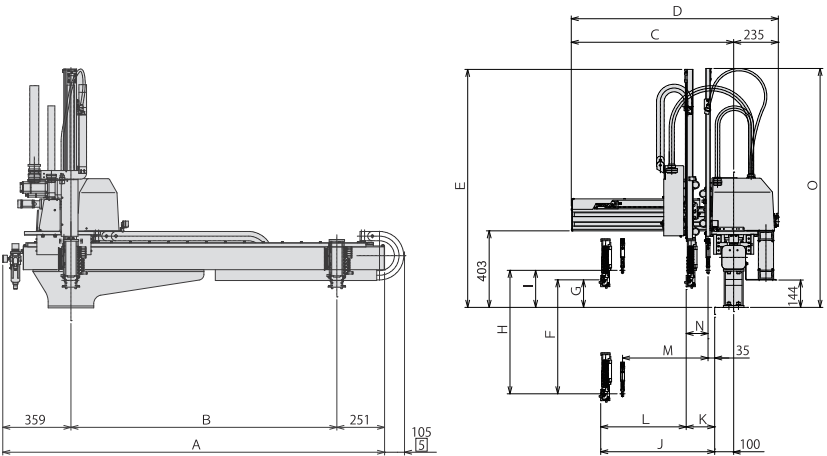


Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (Nl/cycle)	Maximum payload (kg)	Clamping force (tf)
			main arm	sub arm	main arm	sub arm			
YC-70S	S-type 1.4kVA AC200V 7.0A	1400 [1700]	500	—	600 [700]	—	3.2 (ECO Vacuum OFF)	3	30~80
YC-70D	D-type 1.7kVA AC200V 8.5A		450	450		650 [750]	1.0 (ECO Vacuum ON)		

S-type: Equipped with main arm only D-type: Equipped with main and sub arms [] =Extended traverse stroke
Maximum payload includes the end-of-arm-tool.
Higher payloads possible,depending on take-out settings and speeds.

■ Dimensions(mm)

- () Extended traverse stroke
- < > Extended vertical stroke
- [] S-Type Dimensions
- for rear-side models



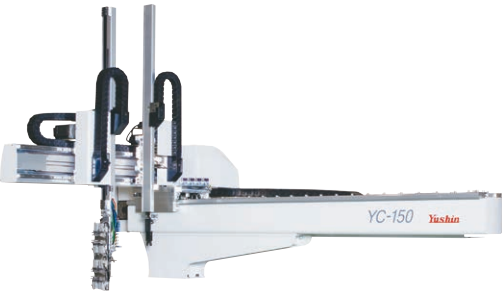
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
YC-70	2010 (2310)	1400 (1700)	855	1090	1253 <1353>	600 <700>	145	650 <750>	195	600	150 [100]	450 [500]	450	115	1258 <1358>

YC / YCII SERIES

Standard specifications

Power source	Driving method	Control method	Air pressure	Wrist flip angle
Single phase AC200V/220V (50/60Hz)	Digital servo motor 3/5-axis	Micro computer control	0.49MPa Maximum air pressure 0.7MPa	90 deg.

YC-100 / 150 / 250



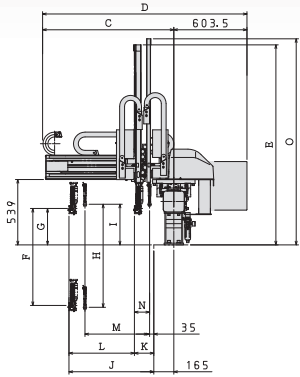
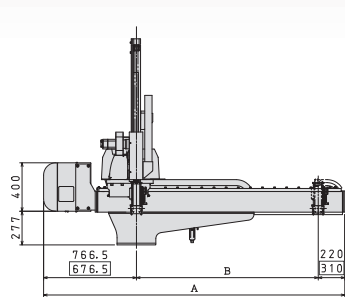
Specification

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (Nl/cycle)	Maximum payload (kg)	Clamping force (tf)	
			main arm	sub arm	main arm	sub arm				
YC-100S	S-type 1.9kVA AC200V 9.5A D-type 2.5kVA AC200V 12.5A	1100 [1500] [1700] [1900] [2200] [2500]	625	-	650 [800]	-	3.2 (ECO Vacuum OFF)	5	80~130	
YC-100D		540	540		700 [850]	1.3 (ECO Vacuum ON)				
YC-150S			625	-	800 [900]	-	3.5 (ECO Vacuum OFF)		100~220	
YC-150D			540	540		850 [950]	1.3 (ECO Vacuum ON)			
YC-250S			775	-	900 [1050]	-	3.9 (ECO Vacuum OFF)			180~300
YC-250D			690	690		950 [1100]	1.6 (ECO Vacuum ON)			

S-type: Equipped with main arm only D-type: Equipped with main and sub arms [] =Extended traverse stroke
Maximum payload includes the end-of-arm-tool.
Higher payloads possible,depending on take-out settings and speeds.

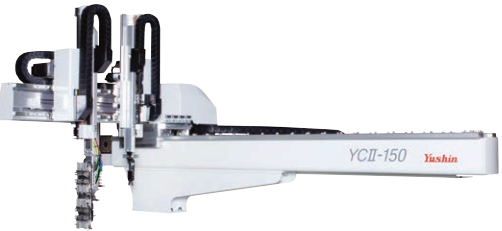
■ Dimensions(mm)

- () Extended traverse stroke
< > Extended vertical stroke
[] S-Type Dimensions
□ for rear-side models



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
YC-100	2086.5 (2886.5) (2486.5) (3186.5) (2686.5) (3486.5)	1100 (1900) (1500) (2200) (1700) (2500)	1082.5	1686	1498 <1650>	650 <800>	300	700 <850>	335	700	160 [75]	540 [625]	540	125	1548 <1700>
YC-150	2486.5 (2886.5) (2886.5) (3186.5) (3186.5) (3486.5)	1500 (1700) (1900) (2500)			1650 <1754>	800 <900>		850 <950>				690 [775]	690		1700 <1804>
YC-250			1232.5	1836	1754 <1906>	900 <1050>		950 <1100>		850			690		1804 <1956>

YCII-100 / 150 / 250

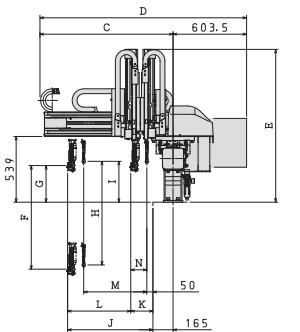
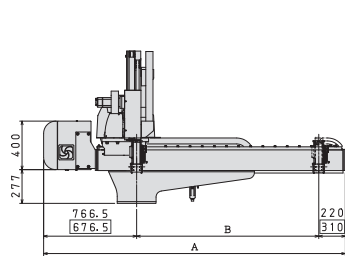


Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (N/cycle)	Maximum payload (kg)	Clamping force (tf)
			main arm	sub arm	main arm	sub arm			
YC II-100S	S-type 1.9kVA AC200V 9.5A	1100 [1500] [1700] [1900] [2200] [2500]	578	-	700 [850]	-	5.2 (ECO Vacuum OFF) 1.7 (ECO Vacuum ON)	5	80~130
YC II-100D			518	518		700 [850]			
YC II-150S	D-type 2.5kVA AC200V 12.5A	1500 [1700] [1900] [2200] [2500]	578	-	850 [950]	-	5.6 (ECO Vacuum OFF) 1.7 (ECO Vacuum ON)		100~220
YC II-150D			518	518		850 [950]			
YC II-250S			728	-	950 [1100]	-	5.9 (ECO Vacuum OFF) 1.9 (ECO Vacuum ON)		180~300
YC II-250D			668	668		950 [1100]			

S-type: Equipped with main arm only D-type: Equipped with main and sub arms [] =Extended traverse stroke
Maximum payload includes the end-of-arm-tool.
Higher payloads possible,depending on take-out settings and speeds.

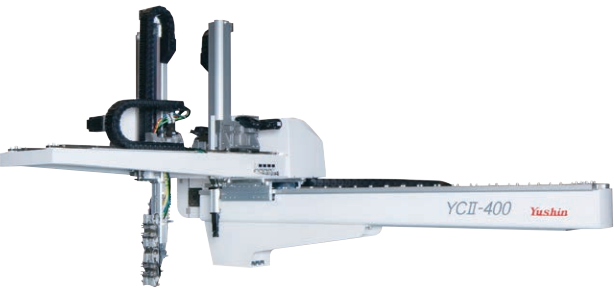
■ Dimensions(mm)

- () Extended traverse stroke
< > Extended vertical stroke
[] S-Type Dimensions
□ for rear-side models



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
YCII-100	2086.5 (2886.5) (2486.5) (3186.5) (2686.5) (3486.5)	1100 (1900) (1500) (2200) (1700) (2500)	1092.5	1696	1182 <1254>	700 <850>	300	700 <850>	335	700	182 [122]	518 [578]	518	132
YCII-150	2486.5 (2886.5) (2886.5) (3186.5) (3186.5) (3486.5)	1500 (1700) (1900) (2500)			1254 <1310>	850 <950>		850 <950>				668 [728]	668	
YCII-250			1242.5	1846	1310 <1382>	950 <1100>		950 <1100>		850			668	

YCII-400 / 600-e

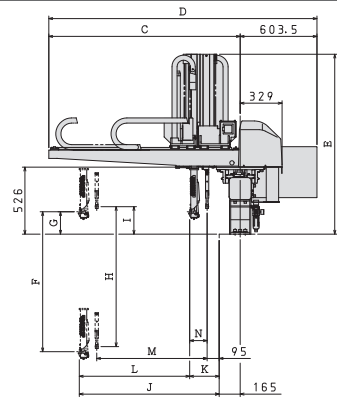
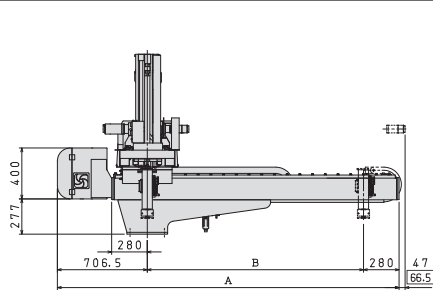


Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (Nl/cycle)	Maximum payload (kg)	Clamping force (tf)
			main arm	sub arm	main arm	sub arm			
YC II-400S*	S-type 2.2kVA AC200V 11.0A	1700 [1900] [2200] [2500]	1000	—	1100 [1300]	—	11.0 (ECO Vacuum OFF)	10	280~450
YC II-400D*	D-type 2.8kVA AC200V 14.0A		868	868		1100 [1300]	7.4 (ECO Vacuum ON)		
YC II-600S-e	S-type 2.2kVA AC200V 11.0A	2200 [2500]	1100	—	1300	—	17.0 (ECO Vacuum OFF)		400~650
YC II-600D-e	D-type 2.8kVA AC200V 14.0A		968	968	1300	1300	9.0 (ECO Vacuum ON)		

S-type: Equipped with main arm only D-type: Equipped with main and sub arms [] =Extended traverse stroke
Maximum payload includes the end-of-arm-tool. Higher payloads possible,depending on take-out settings and speeds.
* The power source should be "three phase" when the high speed traverse option is selected.

■ Dimensions(mm)

- () Extended traverse stroke
< > Extended vertical stroke
[] S-Type Dimensions
□ for rear-side models



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
YC II-400	2686.5 (2886.5) (3186.5) (3486.5)	1700 (1900) (2200) (2500)	1505	2108.5	1414 <1514>	1100 <1300>	176	1100 <1300>	216	1100	232 [100]	868 [1000]	868	137
YC II-600-e	3186.5 (3486.5)	2200 (2500)	1625	2228.5	1514	1300	86	1300	126	1200	232 [100]	968 [1100]	968	137

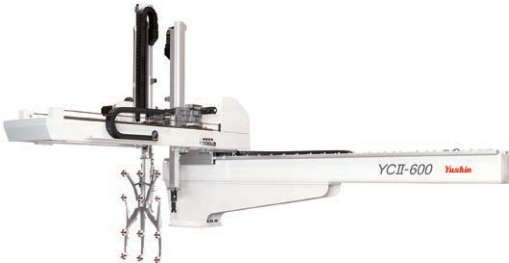
YC / YCII SERIES

Standard specifications

Power source	Driving method	Control method	Air pressure	Wrist flip angle
Single phase AC200V/220V (50/60Hz) Single phase*/ Three phase*	Digital servo motor 3/5-axis	Micro computer control	0.49MPa Maximum air pressure 0.7MPa	90 deg.

* The power source is "single phase" for YCII-600/800-e, and "three phase" for YCII-800/1300-e.

YCII-600 / 800-e



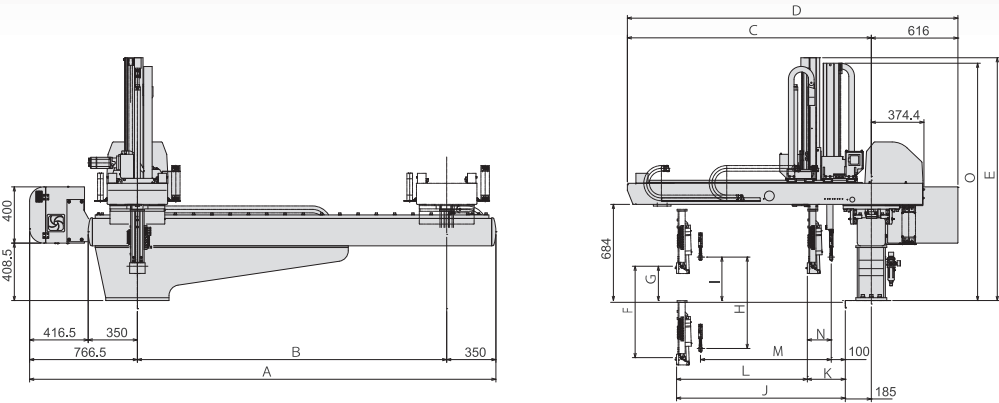
Specification

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (N/cycle)	Maximum payload (kg)	Clamping force (tf)
			main arm	sub arm	main arm	sub arm			
YC II-600S	S-type 2.2kVA AC200V 11.0A	2200 [2500]	1060	—	1300 [1550]	—	18.0 (ECO Vacuum OFF)	15	400 ~650
YC II-600D			930	930	1300 [1550]	1300 [1550]	10.0 (ECO Vacuum ON)		
YC II-800S-e	D-type 2.8kVA AC200V 14.0A		1160	—	1550	—	22.0 (ECO Vacuum OFF)		550 ~1000
YC II-800D-e			1030	1030	1550	1550 (ECO Vacuum ON)	13.0 (ECO Vacuum ON)		

S-type: Equipped with main arm only D-type: Equipped with main and sub arms [] =Extended traverse stroke
Maximum payload includes the end-of-arm-tool.
Higher payloads possible,depending on take-out settings and speeds.

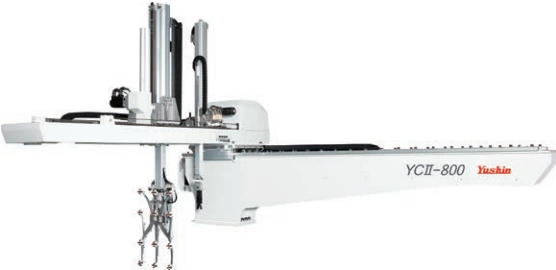
■ Dimensions(mm)

- () Extended traverse stroke
< > Extended vertical stroke
[] S-Type Dimensions



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
YC II-600	3316.5 (3616.5)	2200 (2500)	1736	2352	1727 (1852)	1300 (1550)	244	1300 (1550)	309	1200	270 [140]	930 [1060]	930	170	1688 (1813)
YC II-800-e			1856	2472	1852	1550	184	1550	249	1300		1030 [1160]	1030		1813

YCII-800 / 1300-e

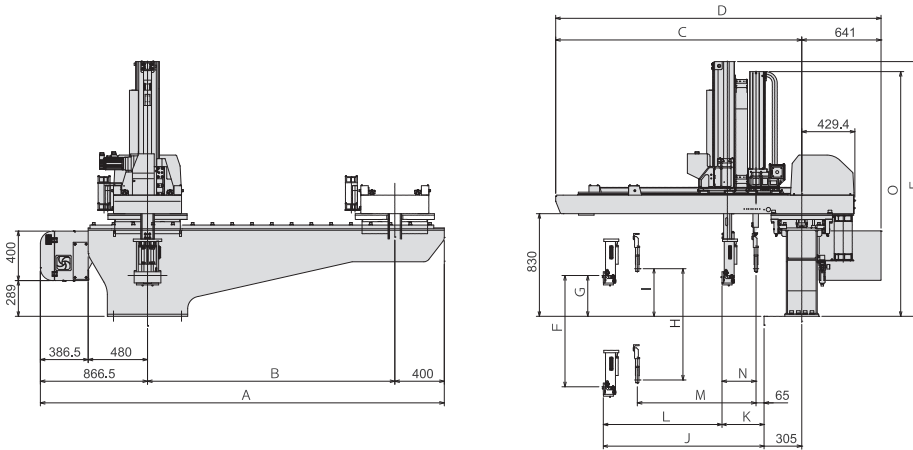


Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (N/cycle)	Maximum payload (kg)	Clamping force (tf)
			main arm	sub arm	main arm	sub arm			
YC II-800S	S-type 2.5kVA AC200V 9.1A	2000 [2500] [3000]	1140	—	1550 [1800]	—	29.0 (ECO Vacuum OFF)	25	550 ~1000
YC II-800D			960	960	1550 [1800]	1550 [1800]	20.0 (ECO Vacuum ON)		
YC II-1300S-e	D-type 3.4kVA AC200V 13.8A	2500 [3000]	1540	—	1800	—	36.0 (ECO Vacuum OFF)		1000 ~1600
YC II-1300D-e			1360	1360	1800	1800 (ECO Vacuum ON)	24.0 (ECO Vacuum ON)		

S-type: Equipped with main arm only D-type: Equipped with main and sub arms [] =Extended traverse stroke
Maximum payload includes the end-of-arm-tool.
Higher payloads possible,depending on take-out settings and speeds.

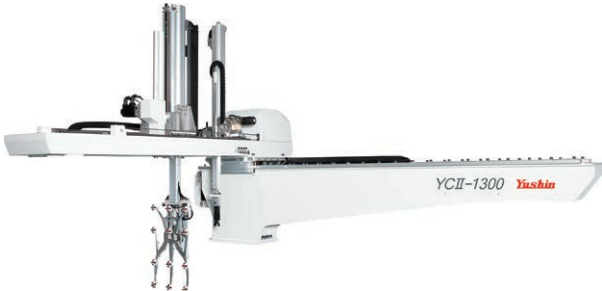
■ Dimensions(mm)

- () Extended traverse stroke
< > Extended vertical stroke
[] S-Type Dimensions



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
YC II-800	3266.5 (3766.5) (4266.5)	2000 (2500) (3000)	1991	2362	2060 (2185)	1550 (1800)	330	1550 (1800)	385	1300	340 [160]	960 [1140]	960		1980 (2105)
YC II-1300-e	3766.5 (4266.5)	2500 (3000)	2391	3032	2185	1800	130	1800	185	1700		1360 [1540]	1360	275	2105

YCII-1300

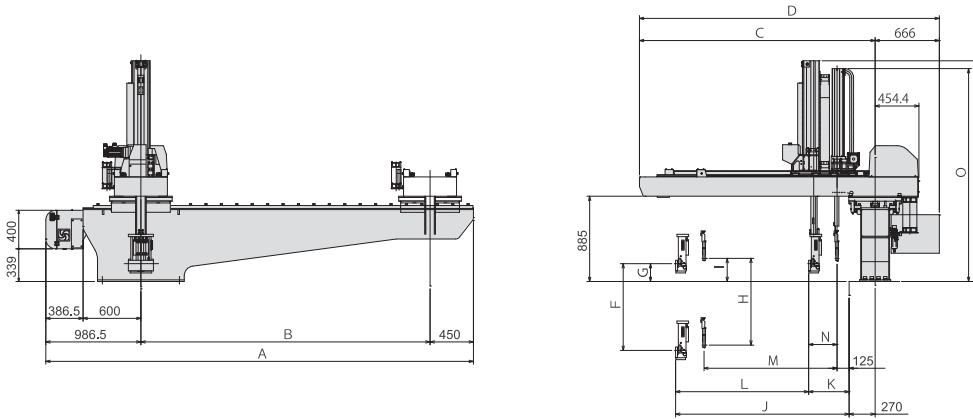


Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (N/cycle)	Maximum payload (kg)	Clamping force (tf)
			main arm	sub arm	main arm	sub arm			
YC II-1300S	S-type 2.5kVA AC200V 9.1A	3000 [3500]	1570	—	1800 [2100]	—	47.0 (ECO Vacuum OFF)	35	1000 ~1600
YC II-1300D	D-type 3.4kVA AC200V 13.8A		1380	1380	1800 [2100]	1800 [2100]	35.0 (ECO Vacuum ON)		

S-type: Equipped with main arm only D-type: Equipped with main and sub arms [] =Extended traverse stroke
Maximum payload includes the end-of-arm-tool.
Higher payloads possible,depending on take-out settings and speeds.

■ Dimensions(mm)

- () Extended traverse stroke
< > Extended vertical stroke
[] S-Type Dimensions



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
YC II-1300	4436.5 (4936.5)	3000 (3500)	2446	3112	2290 (2440)	1800 (2100)	185	1800 (2100)	240	1800	420 [230]	1380 [1570]	1380	295	2210 (2446)