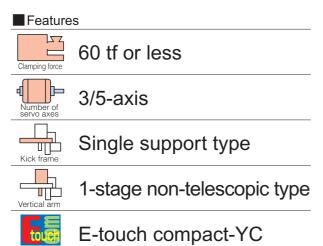
### All-Axis Servo Driven Traverse Type Take-Out Robot

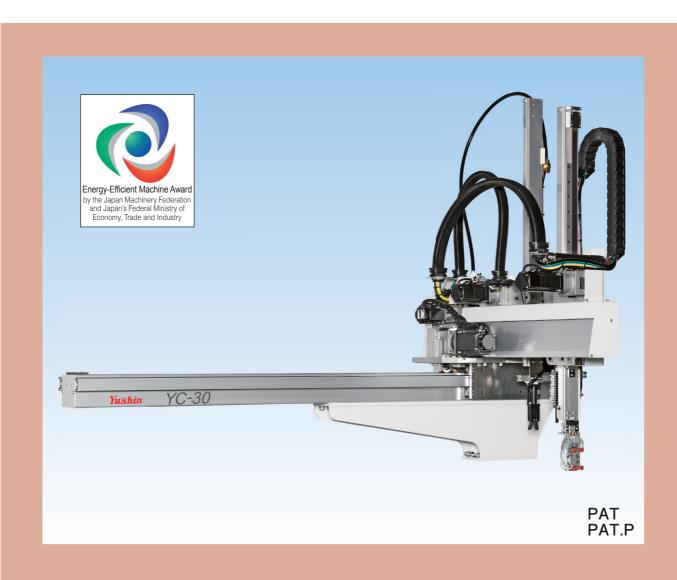
## **YC-30S/D**



### All-Axis Servo Driven Take-Out Robot for Energy-Smart Manufacturers

Compared to older models, YC series robots benefit from much lighter components and structures by incorporating design optimization technology. This weight reduction results in significantly better energy efficiency and longevity. Design optimization also targeted factors like natural oscillation and damping characteristics to greatly reduce arm vibration. The YC-30 is sized for 60 tf or less molding machines.







Power sou	irce	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
Single pha AC200V/22 50/60Hz	20V	Digital servo motor 3/5-axis	Micro computer control	0.49MPa	0.70MPa	90 deg.

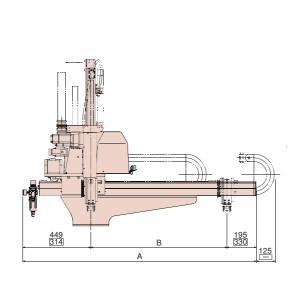
Model	Maximum power	Traverse stroke		stroke im)		l stroke m)	Air consumption (N & /cycle)	Maximum payload	force
	consumption	(mm)	Main arm	Sub arm	Main arm	Sub arm	(IN & /Cycle)	(kg)	(tf)
YC-30S	1.9kVA AC200V 9.3A	900 [1200]	320 《470》*	_	450	_	2.3 (ECO vacuum OFF)	0	60 or less
YC-30D	2.2kVA AC200V 10.8A	[1600]*	280 《430》*	280 《430》*	⟨550⟩	550 (650)	0.8 (ECO vacuum ON)	2	ou or less

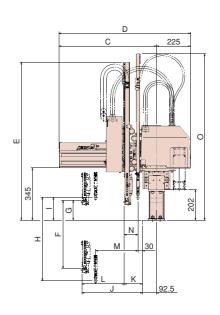
S: Equipped with main arm only D: Equipped with main and sub arms [ ]: Extended traverse stroke ( ): Extended kick stroke \ ): Extended vertical stroke Maximum payload includes the end-of-arm tool.

Payload varies depending on the take-out robot speed setting.

\* Kick stroke dimensions exclusively for models with extended traverse stroke of 1600 mm.

#### ■ Dimensions (mm)





Model	А	В	С	D	E	F	G	Н	1	J	K	L	М	N	0
YC-30S	1543.5 [1843.5]	900 [1200]	645	870	1045	450	130	1	_	400	80	320 (470)	_	_	_
YC-30D	[2243.5]	[1600]	《795》	(1020)	(1145)	⟨550⟩		550 (650)	150	(550)	120	280 (430)	280 (430)	90	1100 (1200)

- ]: Extended traverse stroke
  >: Extended vertical stroke
  ( ): Extended kick stroke
  - : For rear-side models

Controllers

### All-Axis Servo Driven Traverse Type Take-Out Robot

## **YC-70S/D**

### ■ Features



30-80 tf



3/5-axis



Single support type

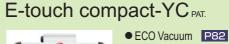


1-stage non-telescopic type

E-touch compact-YC

### All-Axis Servo Driven Take-Out Robot for Energy-Smart Manufacturers

Compared to older models, YC series robots benefit from much lighter components and structures by incorporating design optimization technology. This weight reduction results in significantly better energy efficiency and longevity. Design optimization also targeted factors like natural oscillation and damping characteristics to greatly reduce arm vibration. The YC-70 is sized for 30-80 tf molding machines.





● ECO Monitor P79

 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.



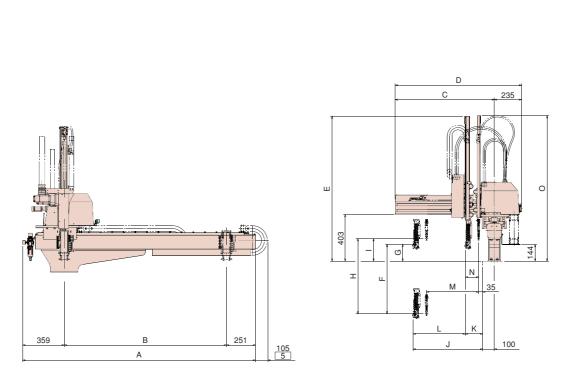


Power source	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
Single phase AC200V/220V 50/60Hz	Digital servo motor 3/5-axis	Micro computer control	0.49MPa	0.70MPa	90 deg.

Model	Maximum power	Traverse stroke		stroke im)		l stroke m)	Air consumption (N & /cycle)	Maximum payload	force
	consumption	(mm)	Main arm	Sub arm	Main arm	Sub arm	(IV & /Cycle)	(kg)	(tf)
YC-70S	1.4kVA AC200V 7.0A	1400	500	_	600	_	3.2 (ECO vacuum OFF)	2	30–80
YC-70D	1.7kVA AC200V 8.5A	[1700]	450	450	〈700〉	650 〈750〉	1.0 (ECO vacuum ON)	3	30-60

S: Equipped with main arm only D: Equipped with main and sub arms
[ ]: Extended traverse stroke 〈 〉: Extended vertical stroke
Maximum payload includes the end-of-arm tool.
Payload varies depending on the take-out robot speed setting.

#### ■ Dimensions (mm)

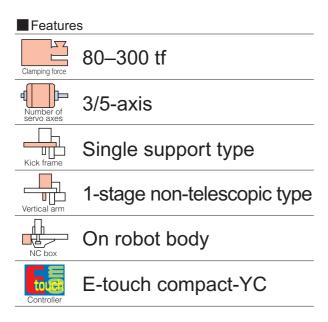


N	Model	А	В	С	D	Е	F	G	Н	- 1	J	К	L	М	N	0
Y	C-70S	2010 [2310]	1400	855	1090	1253 (1353)	600 (700)	145	_	_	600	100	500	_	_	_
YC	C-70D	[2310]	[1700]	000	1090	(1353)	(700)	145	650 (750)	195	000	150	450	450	115	1258 (1358)

: Extended traverse stroke
: Extended vertical stroke
: For rear-side models

### All-Axis Servo Driven Traverse Type Take-Out Robot

## YC-100S/D, YC-150S/D, YC-250S/D



### All-Axis Servo Driven Take-Out Robot for Energy-Smart Manufacturers

Compared to older models, YC series robots benefit from much lighter components and structures by incorporating design optimization technology. This weight reduction results in significantly better energy efficiency and longevity. Design optimization also targeted factors like natural oscillation and damping characteristics to greatly reduce arm vibration. The YC-100/150/250 is sized for 80-300 tf molding machines.



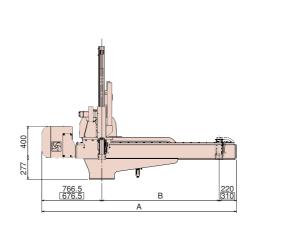


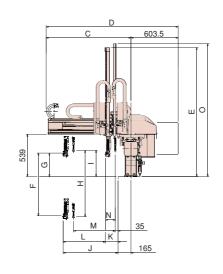


Power source	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
Single phase AC200V/220V 50/60Hz		Micro computer control	0.49MPa	0.70MPa	90 deg.

Model	Maximum power	Traverse stroke	1	stroke m)		l stroke m)	Air consumption (N & /cycle)	Maximum payload	Clamping force
	consumption	(mm)	Main arm	Sub arm	Main arm	Sub arm	(N & /Cycle)	(kg)	(tf)
YC-100S		1100 [1500] [1700] [1900]	625	_	650	_	3.2 (ECO vacuum OFF)		80–130
YC-100D	S type 1.9kVA	[2200] [2500]	540	540	⟨800⟩	700 〈850〉	1.3 (ECO vacuum ON)		00-130
YC-150S	AC200V 9.5A	1500	625	_	800	_	3.5 (ECO vacuum OFF)	5	100–220
YC-150D	D type 2.5kVA	[1700] [1900]	540	540	(900)	850 〈950〉	1.3 (ECO vacuum ON)	5	100-220
YC-250S	AC200V 12.5A	[2200]	775	_	900	_	3.9 (ECO vacuum OFF)		180–300
YC-250D		[2500]	690	690	(1050)	950 〈1100〉	1.6 (ECO vacuum ON)		160–300

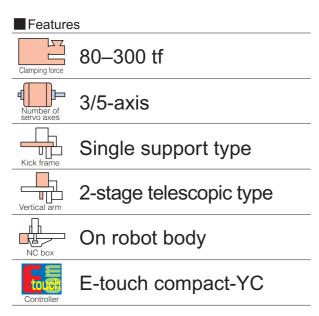
#### ■ Dimensions (mm)





Model	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0
YC-100S	2086.5 [2486.5] [2686.5]	1100 [1500] [1700]			1498	650		_	_		75	625	_	-	_
YC-100D	[2886.5] [3186.5] [3486.5]	[1900] [2200] [2500]	1082.5	1606	(1650)	(800)		700 (850)	335	700	160	540	540	125	1548 (1700)
YC-150S			1002.0	1686	1650	800	300	_	_	700	75	625		-	_
YC-150D	2486.5 [2686.5] [2886.5]	1500 [1700] [1900]			(1754)	(900)	000	850 (950)	335		160	540	540	125	1700 (1804)
YC-250S	[3186.5] [3486.5]	[2200] [2500]	1232.5	1836	1754	900		_	_	850	75	775		-	_
YC-250D			1232.3	1030	(1906)	(1050)		950 (1100)	335	650	160	690	690	125	1804 (1956)

# YCII-100S/D, YCII-150S/D, YCII-250S/D



### All-Axis Servo Driven Take-Out Robot for Energy-Smart Manufacturers

Compared to older models, YC series robots benefit from much lighter components and structures by incorporating design optimization technology. This weight reduction results in significantly better energy efficiency and longevity. Design optimization also targeted factors like natural oscillation and damping characteristics to greatly reduce arm vibration. The YC II -100/150/250 is sized for 80-300 tf molding machines.



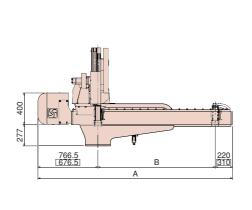


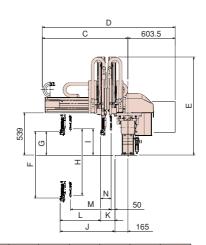


Power sou	irce	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
Single pha AC200V/22 50/60Hz	20V	Digital servo motor 3/5-axis	Micro computer control	0.49MPa	0.70MPa	90 deg.

Model	Maximum power	Traverse stroke		stroke m)		l stroke m)	Air consumption (N & /cycle)	Maximum payload	force
	consumption	(mm)	Main arm	Sub arm	Main arm	Sub arm	(N & /Cycle)	(kg)	(tf)
YC II-100S		1100 [1500] [1700] [1900]	578	_	700	-	5.2 (ECO vacuum OFF)		80–130
YC II -100D	S type 1.9kVA	[2200] [2500]	518	518	⟨850⟩	700 〈850〉	1.7 (ECO vacuum ON)		00-130
YC II-150S	AC200V 9.5A	1500	578	_	850	_	5.6 (ECO vacuum OFF)	5	100–220
YC II -150D	D type	[1700] [1900]	518	518	(950)	850 〈950〉	1.7 (ECO vacuum ON)		100-220
YC II -250S	2.5kVA AC200V 12.5A	[2200]	728	_	950	_	5.9 (ECO vacuum OFF)		180–300
YC II -250D		[2500]	668	668	(1100)	950 〈1100〉	1.9 (ECO vacuum ON)		160–300

### ■ Dimensions (mm)



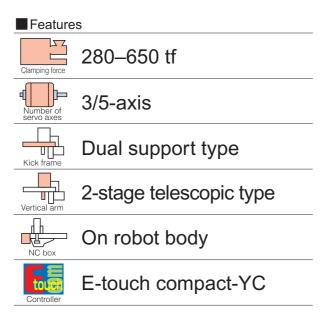


Model	Α	В	С	D	E	F	G	Н	- 1	J	K	L	M	N
YC II -100S	2086.5 [2486.5] [2686.5]	1100 [1500] [1700]			1182	700		_	_		122	578	_	_
YC II -100D	[2886.5] [3186.5] [3486.5]	[1900] [2200] [2500]	1092.5	1696	(1254)	(850)		700 (850)	335	700	182	518	518	132
YC II-150S			1082.3	1030	1254	850	300	_	_	700	122	578		_
YC II -150D	2486.5 [2686.5] [2886.5]	1500 [1700] [1900]			(1310)	(950)	300	850 (950)	335		182	518	518	132
YC II -250S	[3186.5] [3486.5]	[2200] [2500]	1242.5	1046	1310	950		_	_	850	122	728	_	_
YC II -250D			1242.0	1846	(1382)	(1100)		950 (1100)	335	630	182	668	668	132

[ ]: Extended traverse stroke \( \rightarrow : Extended vertical stroke \( \rightarrow : For rear-side models \)

### All-Axis Servo Driven Traverse Type Take-Out Robot

## YCII-400S/D, YCII-600S/D-e



### All-Axis Servo Driven Take-Out Robot for Energy-Smart Manufacturers

Compared to older models, YC series robots benefit from much lighter components and structures by incorporating design optimization technology. This weight reduction results in significantly better energy efficiency and longevity. Design optimization also targeted factors like natural oscillation and damping characteristics to greatly reduce arm vibration. The YC II -400/600-e is sized for 280-650 tf molding machines.



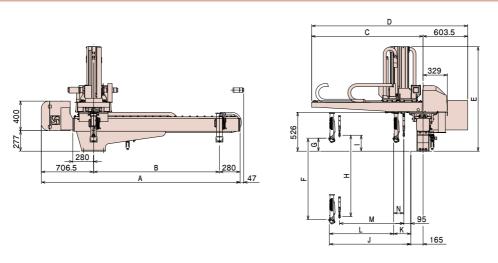




Power source	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
Single phase AC200V/220V 50/60Hz	Digital servo motor 3/5-axis	Micro computer control	0.49MPa	0.70MPa	90 deg.

Model	Maximum power	Traverse stroke		stroke m)		l stroke m)	Air consumption (N & /cycle)	Maximum payload	force
	consumption	(mm)	Main arm	Sub arm	Main arm	Sub arm	(IV & /Cycle)	(kg)	(tf)
YC II -400S	S type 2.2kVA AC200V 11.0A	1700 [1900]	1000	_	1100	_	11.0 (ECO vacuum OFF)		280–450
YC II -400D	D type 2.8kVA AC200V 14.0A	[2200] [2500]	868	868	〈1300〉	1100 〈1300〉	7.4 (ECO vacuum ON)	10	200-430
YC II -600S-e	S type 2.2kVA AC200V 11.0A	2200	1100	_	1300	_	17.0 (ECO vacuum OFF)	10	400–650
YС II -600D-е	D type 2.8kVA AC200V 14.0A	[2500]	968	968	1300	1300	9.0 (ECO vacuum ON)		400-650

#### ■ Dimensions (mm)

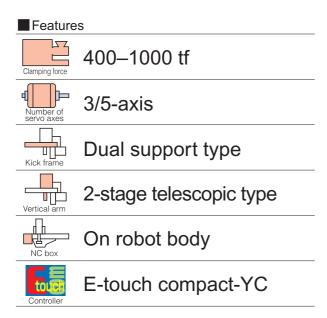


Model	Α	В	С	D	E	F	G	Н	- 1	J	K	L	M	N
YC II -400S	2686.5 [2886.5]	[1900]	1505	2108.5	1414	1100	176	_	_	1100	100	1000	_	_
YC II -400D	[3186.5] [3486.5]	[2200] [2500]	1303	2100.0	<1514>	<1300>	170	1100	216	1100	232	868	868	137
YC II -600S-e	3186.5		1625	2228.5	1514	1300	86	_	_	1200	100	1100	_	_
YС II -600D-е	[3486.5]	[2500]	1023	2220.0	1314	1300	00	1300	126	1200	232	968	968	137

[ ]: Extended traverse stroke \ ): Extended vertical stroke

### All-Axis Servo Driven Traverse Type Take-Out Robot

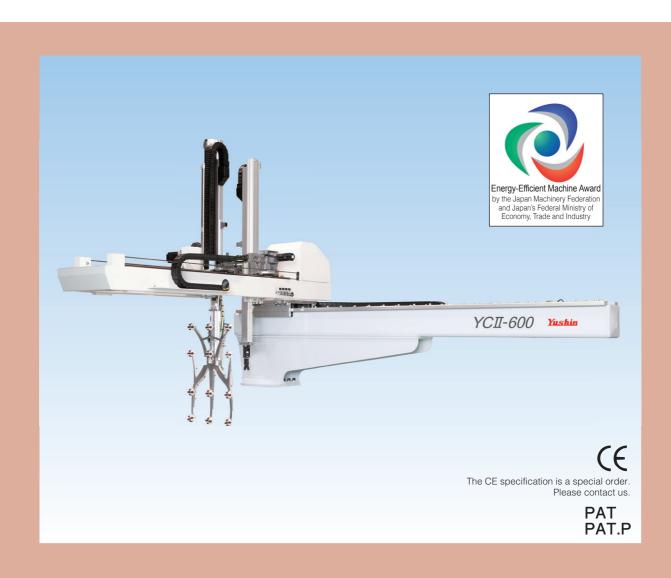
## YCII-600S/D, YCII-800S/D-e



### All-Axis Servo Driven Take-Out Robot for Energy-Smart Manufacturers

Compared to older models, YC series robots benefit from much lighter components and structures by incorporating design optimization technology. This weight reduction results in significantly better energy efficiency and longevity. Design optimization also targeted factors like natural oscillation and damping characteristics to greatly reduce arm vibration. The YC II -600/800-e is sized for 400-1000 tf molding machines.



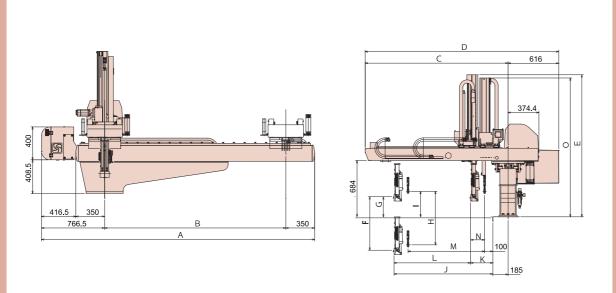




Power source	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
Single phase AC200V/220V 50/60Hz	Digital servo motor 3/5-axis	Micro computer control	0.49MPa	0.70MPa	90 deg.

	Model	Maximum power	Traverse stroke		stroke m)		l stroke m)	Air consumption (N & /cycle)	Maximum payload	force
		consumption	(mm)	Main arm	Sub arm	Main arm	Sub arm	(IN & /Cycle)	(kg)	(tf)
Y	CII-600S	S type		1060	-	1300	_	18.0 (ECO vacuum OFF)		400–650
Y	CⅡ-600D	2.2kVA AC200V 11.0A	2200	930	930	<b>〈1550〉</b>	1300 〈1550〉	10.0 (ECO vacuum ON)	15	400-650
Y	C II -800S-e	D type 2.8kVA	[2500]	1160	_	1550	_	22.0 (ECO vacuum OFF)	15	550–1000
Y	C II -800D-e	AC200V 14.0A		1030	1030	1550	1550	13.0 (ECO vacuum ON)		550-1000

#### ■ Dimensions (mm)

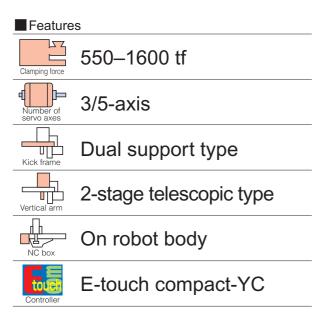


Model	Α	В	С	D	Е	F	G	Н	_	J	K	L	M	Ν	0
YC II -600S			1706	2352	1727	1300	244	_	_	1200	140	1060	_	_	_
YC II -600D	3316.5	2200	1/30	2332	<1852>	<1550>	244	1300	309	1200	270	930	930	170	1688 <1813>
YC II -800S-e	[3616.5]	[2500]	1056	2472	1050	1550	184	_	_	1300	140	1160	_	_	_
YC II -800D-e			1000	2472	1602	1330	104	1550	249	1300	270	1030	1030	170	1813

]: Extended traverse stroke \( \rangle : Extended vertical stroke \)

RC/RCI/RBI

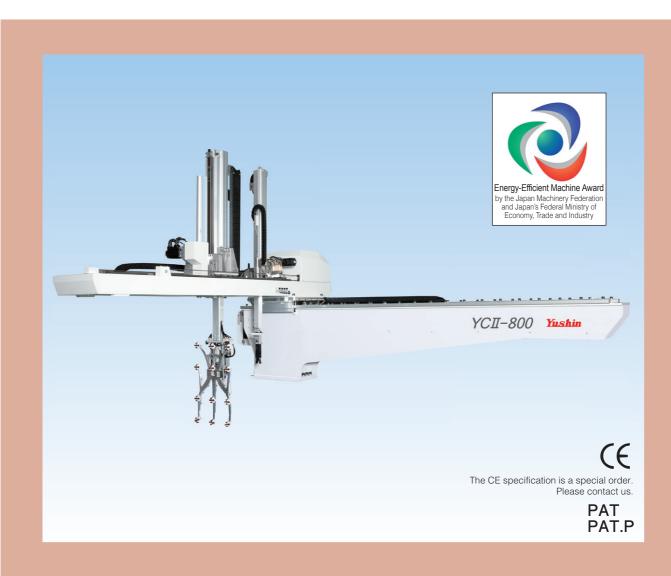
## YCII-800S/D, YCII-1300S/D-e



### All-Axis Servo Driven Take-Out Robot for Energy-Smart Manufacturers

Compared to older models, YC series robots benefit from much lighter components and structures by incorporating design optimization technology. This weight reduction results in significantly better energy efficiency and longevity. Design optimization also targeted factors like natural oscillation and damping characteristics to greatly reduce arm vibration. The YC II -800/1300-e is sized for 550-1600 tf molding machines.



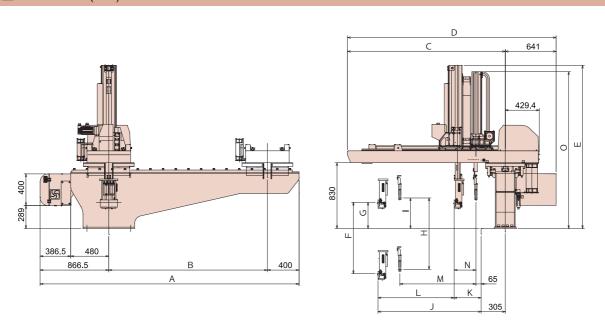




Power source	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
3 phase AC200V/220V 50/60Hz	Digital servo motor 3/5-axis	Micro computer control	0.49MPa	0.70MPa	90 deg.

	Model	Maximum power	Traverse stroke		stroke m)		l stroke m)	Air consumption (N & /cycle)	payload	force
		consumption	(mm)	Main arm	Sub arm	Main arm	Sub arm	(IN & /Cycle)	(kg)	(tf)
Υ	CII-800S	S type	2000 [2500]	1140	_	1550	ı	29.0 (ECO vacuum OFF)		550–1000
Υ	C II -800D	2.5kVA AC200V 9.1A	[3000]	960	960	⟨1800⟩	1550 〈1800〉	20.0 (ECO vacuum ON)	0E	330-1000
Y	CⅡ-1300S-e	D type 3.4kVA	2500	1540	-	1800	_	36.0 (ECO vacuum OFF)	25	1000–1600
Y	CⅡ-1300D-e		[3000]	1360	1360	1000	1800	24.0 (ECO vacuum ON)		1000-1600

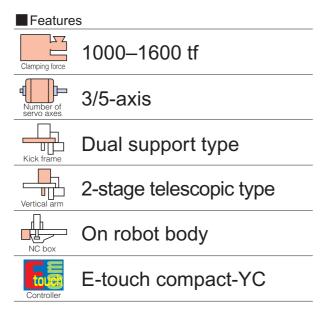
#### ■ Dimensions (mm)



Model	Α	В	С	D	E	F	G	Н	- 1	J	K	L	M	N	0
YC II -800S	3266.5 [3766.5]		1001	2362	2060	1550	330	_	_	1300	160	1140	_	_	_
YC II -800D	[4266.5]		1991	2302	<2185>	<1800>	330	1550 <1800>	385	1300	340	960	960	275	1980 <2105>
YC II -1300S-e	3/66.5		2201	3032	2105	1000	130	_	_	1700	160	1540	_	_	_
YC II -1300D-e	[4266.5]	[3000]	2081	3032	2100	1000	130	1800	185	1700	340	1360	1360	275	2105

]: Extended traverse stroke >: Extended vertical stroke

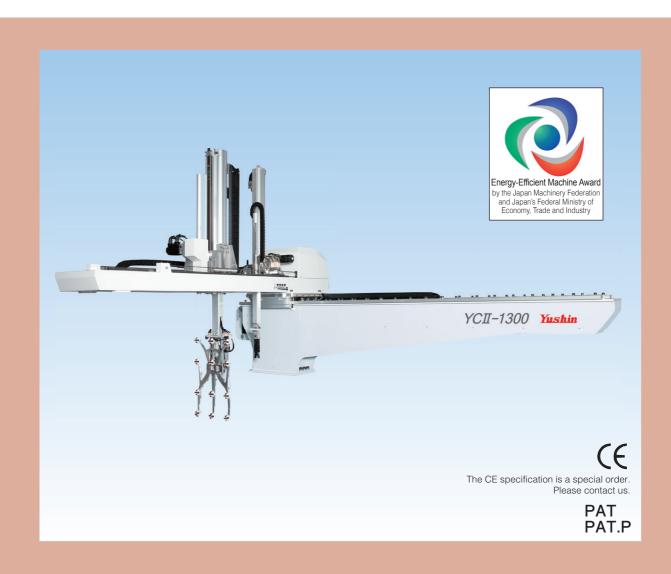
## YCII-1300S/D



### All-Axis Servo Driven Take-Out Robot for Energy-Smart Manufacturers

Compared to older models, YC series robots benefit from much lighter components and structures by incorporating design optimization technology. This weight reduction results in significantly better energy efficiency and longevity. Design optimization also targeted factors like natural oscillation and damping characteristics to greatly reduce arm vibration. The YC II -1300 is sized for 1000-1600 tf molding machines.







F	Power source	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
1	3 phase 4C200V/220V 50/60Hz	Digital servo motor 3/5-axis	Micro computer control	0.49MPa	0.70MPa	90 deg.

Model	Maximum power	Traverse stroke		stroke m)		l stroke m)	Air consumption (N & /cycle)	Maximum payload	force
	consumption	(mm)	Main arm	Sub arm	Main arm	Sub arm	(IN & /Cycle)	(kg)	(tf)
YC II-1300S	S type 2.5kVA AC200V 9.1A	3000	1570	_	1800	_	47.0 (ECO vacuum OFF)	35	1000–1600
YC II -1300D	D type 3.4kVA AC200V 13.8A	[3500]	1380	1380	〈2100〉	1800 〈2100〉	35.0 (ECO vacuum ON)	33	1000-1600

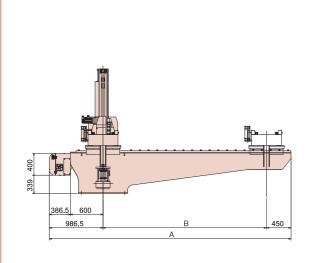
S: Equipped with main arm only D: Equipped with main and sub arms

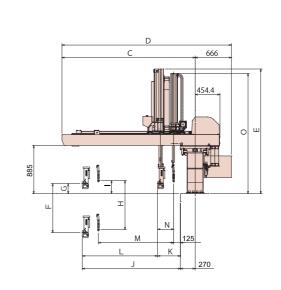
[ ]: Extended traverse stroke ( ): Extended vertical stroke

Maximum payload includes the end-of-arm tool.

Payload varies depending on the take-out robot speed setting.

#### ■ Dimensions (mm)





Model	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0
	4436.5	3000	2446	2112	2290	1800	185	_	_	1800	230	1570	_	_	_
YC II -1300D	[4936.5]	[3500]	2440	3112	<2440>	<2100>	160	1800	240	1000	420	1380	1380	295	2210 <2446>

[ ]: Extended traverse stroke ⟨ ⟩: Extended vertical stroke

# **List of Options**

## RBII/YC/YCII/YAII series

Options	Explanation of each option		
Vacuum Suction Circuit	In addition to a standard product vacuum suction circuit, expansion is possible up to 4 vacuum circuits.		
ECO Vacuum Circuit	Automatically monitors vacuum pressure when suction-gripping parts to reduce compressed air usage by as much as 75%*. *As measured in company test. (The YC/YC II series comes standard with one ECO vacuum circuit.)		
Additional Part Chuck Pressure Circuit	1 or 3 additional pressure circuits may be added to the single, standard-equipped part gripper circuit.		
Additional Sprue Chuck Circuit	Allows the timing of the sprue release to be set via mode selection. (The YC/YC ${\rm I\!I}$ /YA ${\rm I\!I}$ series comes standard with one ECO vacuum circuit.)		
Pitch Revising Circuit	Allows operator to specify pitch of parts gripped by the end-of-arm tool.	All robot types	
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.		
Stationary-Side/ Movable-Side Selection	It is a motion mode to switch the side of product extraction between stationary-side and movable-side. (The YC/YC ${\mathbb I}$ series standard feature on 250 tf and smaller models)		
Vertical Wrist Rotation Unit (incl. detection function)	Adding this unit to the wrist-flip mechanism allows the orientation of released products to be changed.		
Horizontal Wrist Rotation Unit	Adding this unit to the main arm wrist allows the orientation of released products to be changed.	YC/YC II series (except e-type)	
NC (Numerical Control) Servo Wrist Units	These NC-servo powered units replace a robot's standard wrist-flip unit to enable precision control and motion comparable to an articulated robot.  * When selecting an NC servo wrist for your robot, please carefully consider the NC wrist unit's max. payload.		
EOAT Quick-Change Unit	Allows for instant attachment/detachment of end of-arm tool and its pneumatic and wiring connections.		
EOAT One-Touch Quick-Release Fitting	Allows for fast manual attachment/detachment of end-of-arm tool.	All robot types	
Signal Light/Signal Tower	Colored lights indicate status of the robot.		
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.		
Maintenance Step	A ladder and stage for maintenance work can be installed on the robot.		
E-Force Static Electricity Eliminator	Eliminates the static electricity charge of plastic parts, helping repel dust and particulates.		
Ascent Limit Product Verification	After product take-out, product presence is verified at the ascent limit position by a remote-mounted limit switch.		



Options	Explanation of each option		
Increased Maximum Payload	Power along the vertical axis is increased, enabling the robot to handle heavier payloads.		
Increased Wrist Flip Torque	1.4 times more wrist flip torque, for applications where the end-of-arm tool is heavy or attached off-center.		
8-Pin Stocker Unit Connector	Metal connector which allows robot to interface with Yushin-made stocker unit.	All robot types	
Reject Circuit	After receiving a "defect product" signal from the molding machine, robot releases the defective part at a position separate from the ordinary parts. (The YC/YC ${\mathbb I}$ series comes standard)		
Initial Shots Discharge Motion	At the start of auto operation, for a set number of shots the robot automatically places parts at a position separate from the ordinary parts. (The YC/YC ${\mathbb I}$ series comes standard)		
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. (The YC/YC II series comes standard)	RBII series, YAII series	
High-Cycle Motion	Traverse and wrist flip motions are performed simultaneously to shorten the robot's overall cycle time. (The YC/YC ${\mathbb I}$ series comes standard)		
Under-Cut Motion	Up to 3 additional teaching positions may be programmed in order to extract products from an under-cut mold. (The YC/YC II series comes standard)		
Sampling Motion	During auto operation, the robot will place products at a Sample Release position once every set number of molding cycles. (The YC/YC $\rm I\!I$ series comes standard)		
Dropped Product Detection	After extracting products, robot continuously verifies its hold on the products until it finally releases them.	All robot types	
Ascent Limit Product Verification	imit Product Verification While in auto operation, if the robot fails to extract products it immediately error-stops at its ascent limit. Without this option, the robot completes one full cycle before it error-stops.		
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. (The YC/YC II series comes standard)		
Low Air Pressure Detection	The robot displays an error if air pressure drops below a set value.		
Pause for Mold Open	Used for manual ejection.	All robot types	
Flying Cycle Start	The timing to output the Cycle Start signal to the molding machines is adjustable.		
Communication with Molding Machine	The robot exchanges information such as mold numbers with the molding machine, which shortens set-up time.		
Centralized Manual Lubrication System	Delivers lubricant from manual pump to necessary areas.  RBI YCN		
Centralized Automatic Lubrication System	Delivers lubricant from electric pump to necessary areas.	(except YC-30 and YC-70) YA II -1800-3000	
Flexible Teaching	Software kit which allows users to create robot motion programs on their PC or on their E-touch II controller.		

### V 1

### **List of Options**

### RBII/YC/YCII/YAII series

Options	Explanation of each option		
Multilingual Display	Changes the controller display between up to three languages. (Standard equipped with Japanese and one other language)  RB II Series 12 languages: Japanese, English, Chinese, Korean, Thai, Spanish, Portuguese, French, German, Polish, Dutch, Italian and Slovak.  YC/YC II Series 10 languages: Japanese, English, Chinese, Korean, Thai, Spanish, Indonesian, German, Dutch, and Italian.  YA II Series 16 languages: Japanese, English, Chinese, Korean, Indonesian, Thai, Spanish, Portuguese, German, Polish, Romanian, Dutch, Hungarian, French, Czechoslovakian, and Slovak.	All robot types	
Free Casing Setting	Up to 250 release positions may be designated per pallet.		
Take-out Robot Simulator	It is software allowing operators to check the program on PC or E-touch Web controller.  See P93		
3rd Party Program Installation	Allows operator to install Windows-based software onto the take-out robot's E-Touch II controller, in addition to the robot's motion program (to use this option with HST robots, they must include the E-Touch II controller package).	RBII series	
Flexible Screen	It allows operators to create the design and layout of the controller screen.		
Traverse Beam Stanchion	Support stanchion is installed on the end of extended-length traverse beams or when extra precision is necessary when placing products.		
Custom Color	Robot body, frame caps, and control boxes will be painted with a color specified by the customer.  All re		
Protective Sheet for Touch Screen	A transparent cover sheet to protect the controller's touch screen.		
Integrated Casing Counter Reset	When the stocker completes its return to origin, the take-out robot resets its casing counter and releases at the initial release position.		

#### Vertical stroke extension option (mm)

Model	Vertical stroke		el Vertical stroke Extension (Standard st.+ Extended st.)		Overall robot height after extension	
	Main arm	Sub arm	Main arm	Sub arm	S type	D type
RB II /YA II -1800	2500		2100	+ 400	3000 (	(+210)
RB II /YA II -2500	3000		2500	+ 500	3190 (	(+240)
RB II /YA II -3000	3500		3000	+ 500	3847 (	(+260)

Figures in ( ) are the length to be extended

#### New features developed for the YC series

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

#### Former options which are standard features on the YC

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. *As measured in company tests.
Reject Circuit	After receiving a "defect product" signal from the molding machine, robot releases the defective part at a position separate from the ordinary parts.
Initial Shots Discharge Motion	At the start of auto operation, for a set number of shots the robot automatically places parts at a position separate from the ordinary parts.
Sampling Motion	During auto operation, the robot will place products at a Sample Release position once every set number of molding cycles.
Under-Cut Motion	Up to 3 additional teaching positions may be programmed in order to extract products from an under-cut mold.
High-Cycle Motion	Traverse and wrist flip motions are performed simultaneously to shorten the robot's overall cycle time.
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.
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.