

1 All-Axis Servo Driven Type Take-Out Robot

FRA-0515S/D/DS

Separate catalog available

FRA-0515S/D/DS

IoT technique contributes to high-precision take-out and improved productivity
Latest technology helps solve problems at the production site



For CE supported languages, Please contact our sales department.

PAT. PAT.P

- Clamping force 50 - 150tf
- High end
- High precision (Advanced vibration control)
- Optimized design + Power-saving
- Low posture (Double speed mechanism)
- All-axis servo-driven
- Remote monitoring



Active Vibration Control

The FRA senses its own vibrations and eliminates them automatically. Equipped with the world's most advanced vibration control technology that enables a variety of operations with speed and accuracy such as insert molding, which demand repeatability.

IoT system "INTU LINE"

INTU LINE displays production counts, uptime ratio, operation status, cycle times, error counts, stoppage log, and production floor photos. When trouble occurs, the FRA's IoT system shares your robot's error data with Yushin to help service personnel diagnose the problem.

New controller "E-touch V"

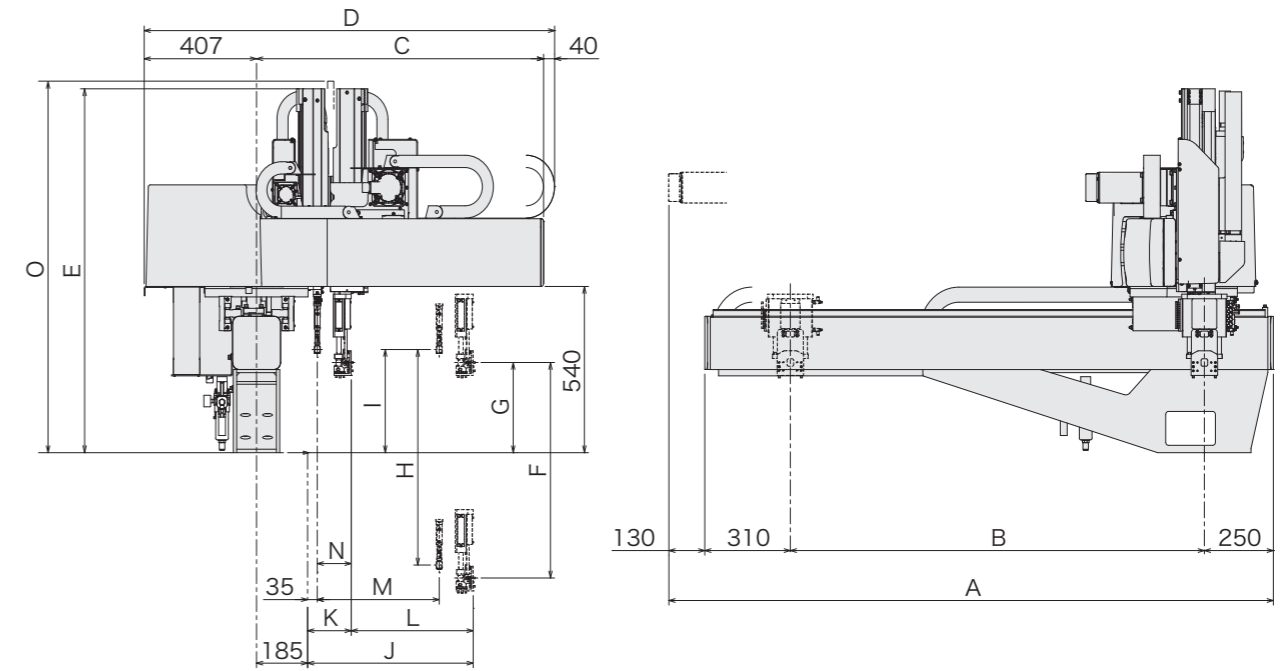
The E-touch V is designed with ergonomics in mind and is presented in a vertical, dual screen format with main and sub screens, allowing the use of smart-phone-like touch controls.

Standard Specifications

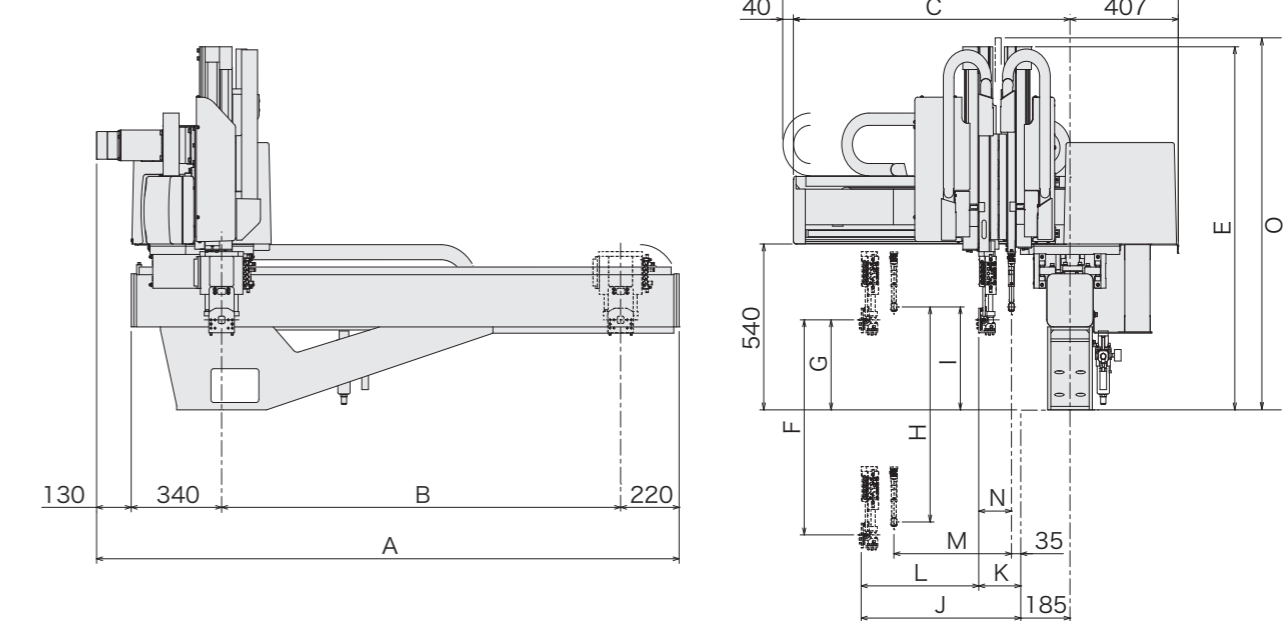
Power supply	Drive method	Controller model	Working air pressure	Flip angle					
200/220/230 VAC (50/60 Hz) 3 phase	Digital servo motor 3/5-axis	E-touch V	0.49MPa	90°					
Model	Power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (NL/cycle)	Payload (kg)	Target IMM clamp capacity (tf)
			Main arm	Sub arm	Main arm	Sub arm			
FRA-0515S	2.3 kVA 200 VAC 6.5 A	(1100) 1500 (1700) (1900) (2200) (2500)	500	—	700 (850)	—	5.5 (ECO Vacuum OFF)	5 (11)	50-150
FRA-0515D		442	442	700 (850)	700 (850)	1.9 (ECO Vacuum ON)			

S type : Robot is equipped with main arm only. D type : Robot is equipped with main arm and sub arm.
() : Modified stroke < > : Increased maximum payload
Payload includes the end-of-arm tool.

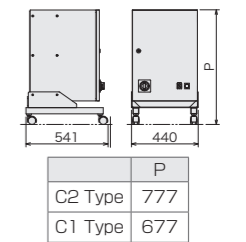
Rear (Non-operator) Side Discharge Direction (mm)



Operator Side Discharge Direction (mm)



Control Box (mm)



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
FRA-0515S	(1790) 2190 (2390) (2590)	(1100) 1500 (1700) (1900)	1040	1487	1182 (1254)	700 (850)	293	—	—	600	100	500	—	—
FRA-0515D	(2890) (3190)	(2200) (2500)						700 (850)	335		158	442	442	123

G	J	K	L	M	N	O
<175> (175)	<604> (604)	<104> (167) (104)	<500> (437) (500)	—	—	<1218> (700 mm stroke only)
		<162> (225) (191)	<442> (379) (409)	<442> (379) (409)	<127> (190) (156)	

() : Modified stroke
< > : With increased wrist flip torque
| | : With horizontal wrist rotation unit
< > : With centralized automatic (manual) lubrication system

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