






## FRA-0515S/D/DS

### ■ Features

-  **50–150 tf**
-  **3/5-axis**
-  **Single support type**
-  **Reduced overall height type**
-  **E-touch V**

### Active Vibration Control

The FRA senses its own vibrations and eliminates them automatically. It equips 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 adopts ergonomic design and is presented in a vertical, dual screen format with main and sub screens, enabling smartphone-like touch controls.

### ■ Standard Specifications

Power source		Driving method		Air pressure		Wrist flip angle	
AC200V/220V/230V (50/60Hz) 3 phase		Digital servo motor 3/5-axis		0.49MPa		90°	

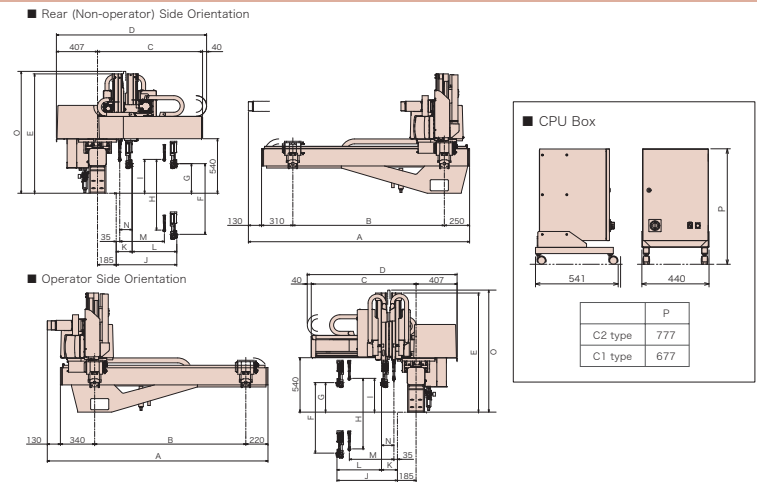
Model	Power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (NL/cycle)	Payload (kg)	Clamping force (tf)
			Main arm	Sub arm	Main arm	Sub arm			
FRA-0515S	S type/D type 2.3kVA AC200V 6.5A	<1100> 1500 <1700>	500	—	700 [850]	—	5.5 (ECO vacuum OFF) 1.9 (ECO vacuum ON)	5 <11>	50 ~ 150
FRA-0515D		<1900> <2200> <2500>	442	442		700 [850]			

S type: Robot is equipped with product take-out arm only. D type: Robot is equipped with product take-out arm and runner take-out arm.  
 < > : Modified traverse stroke [ ] : Modified vertical stroke  
 ( ) : Increased payload  
 Payload includes the end-of-arm tool.



CE  
PAT. PAT.P

### ■ Dimensions (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

( ) Non-standard strokes

G
(175) (175)

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

- < > With high-torque wrist flip
- { } With horizontal wrist rotation unit
- ( ) With centralized manual lubrication system