

Standard Specifications

F25 Controller
F35 Controller
F45 Controller

1st Edition : February-5, 2024

Kawasaki Heavy Industries, Ltd. Robot Business Division

Specification number: 90152-0104DEA

Materials and specifications are subject to change without notice.

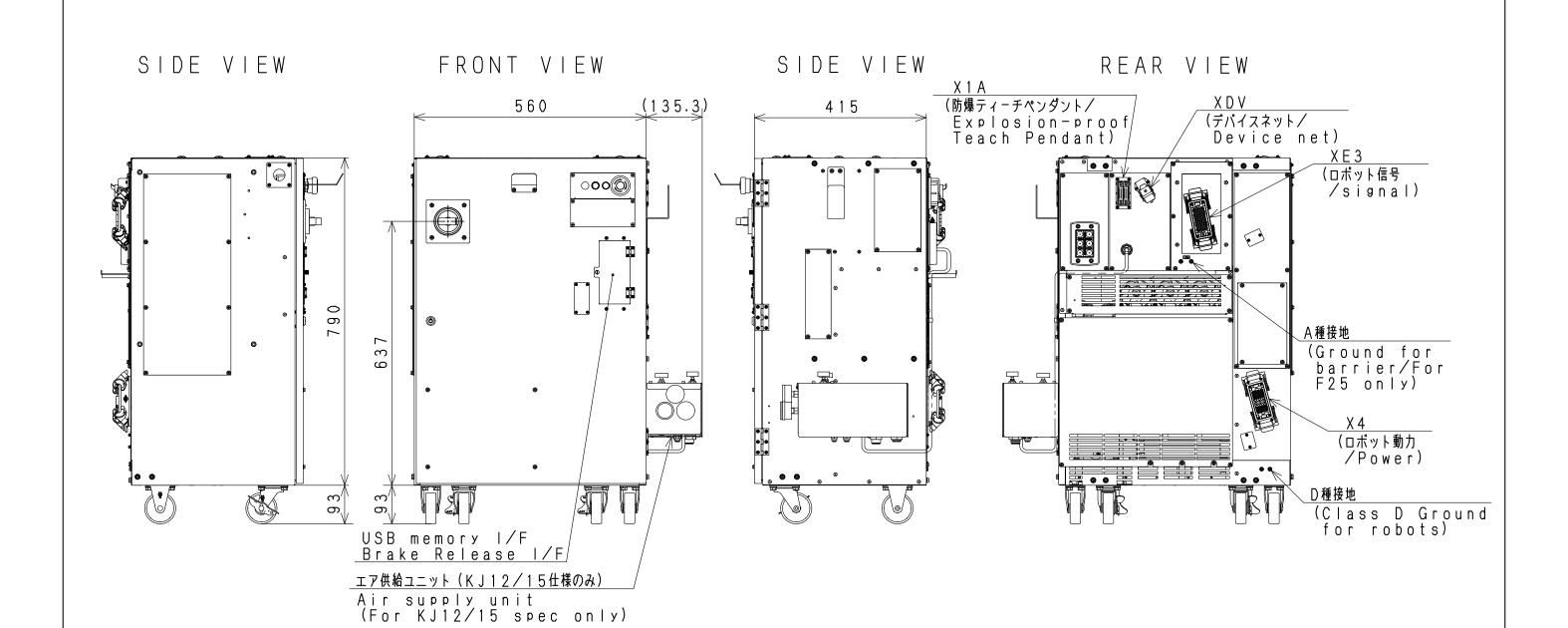
Controller specifications

controller specifications		
1. Model	F25 F35	F45
(Main available robot)	K series	
2. Dimensions	$W560 \times D415 \times H790 \text{ mm}$	
3. Structure	Enclosed structure : Ir	ndirect cooling system, IP54 equivalent
4. Controlled axes	Std. 7 (Max 9)	
5. Memory capacity	16MB	
6. I/O signals	External operation sig. : E	xt. Emergency Stop, Ext. HOLD signal etc.
•	General-purpose I/O sig. : G	GPIO board (Input 32/Output 32)
7. Cable length	Robot cable : Ir	nside of booth 3m (Opt. 3/5/7/10/15m)
		Outside of booth 3m (Opt. 1/3/5/7/10/15/20/25/30m)
		0m (Opt. 3/5/7/10/15/20/25/30m)
		Opt. Connector box harness 1/3/5/7/10/15/20/25m)
8. Mass	70kg 95kg	100kg
		AC200V - AC220V ±10%, 50/60Hz, 3 phases
9. Power requirement		AC440V - AC480V ±10%, 60Hz, 3 phases
		AC380V - AC415V ±10%, 60/12, 3 phases
10.6	Max. 10kVA Max. 9.9kVA	
10. Ground	PE, Leakage current: max. 100mA	
	Less than 10Ω (Dedicated for barrie	
11. Installation environment	<u>1</u>	- 45 °C
	<u> </u>	5 - 85 % (non-condensation)
12. Teach Pendant	Color LCD with touch panel	
	Emergency Stop SW, Teach Lock SW and Enable SW	
	English/Chinese/Japanese Selectable	
13. Operation panel	Emergency Stop SW, Teach/Repeat SW	
14. External interface	Ethernet (1000Baset-T/100BASE-TX/10Base-T) : 2ports (inside controller)	
	USB2.0 : 3ports (1port on panel, 2ports inside controller)	
	RS-232C : 2ports (inside controller)	
15. Type of control	Teach mode : Joint, Base, Tool, Fixed Tool (option) operation mode	
	•	r, Circular (option) interpolation mode
16. Teaching method	Easy operation teaching or AS language programming	
17. Color	Munsell: 10GY9/1 equivalent	
18. Safety Circuit	Category: 4, Performance Level: e (EN ISO13849-1)*1	
19. Options		
External axes control	Additional amplifier and External axes harnesses	
Additional general purpose I/O	GPIO board (Input 32/Output 32) Max. 128	
Additional analog I/O	Analog board*2 (Input 4/Output 4) Max. 8	
I/O signal connector	D-SUB 37 pin (male, female) with cover	
Teach Pendant option	Connector for TP less	
Motor brake release	Manual brake release switch	
Extended safety functions	CoreCubic-S option Mo	otion area monitoring, Joint monitoring,
	<u>-</u> 	eed monitoring, etc.
		fety I/O signal Safety I/O board *3
		a-cabinet) (Input 8, Output 8)
Cofete 4 - 1 - 3 *4	[(111	CE
Safety standards*4		
Others	Field BUS (Master*3, Slave), Software PLC, Controller cooling unit	
	Conveyor Synchronization* ² , Air filter (cooling fan air section), Opt. Operation panel	
	Cabinet light, Paint Equipment Control	

Consult Kawasaki about maintenance parts and spare parts.

- *1 Category and Performance level (PL) are determined by the whole system and conditions. The safety circuit of this controller is available in the system of category: up to 4, PL: up to e.
- *2 The option slot for the part shown in *2 is 2 slots, be careful when choosing options. Option slots are used as options below.
 - · Analog I/O
 - ·Conveyor Synchronization (3ch, 4ch)
- *3 The option slot for the part shown in *3 is 3 slots, including 2 slots that can be used for the PCIe board, be careful when choosing options. Option slots are used as options below.
 - ·Field bus (Master): PCIe board
 - 'Safety I/O board (Max. 2 boards, Input/Output is compatible with Max. 16/16.)
- *4 The controller complies with safety standards, but some robot arms do not, so please contact us for details.

F25/F35 CONTROLLER



F45 CONTROLLER

