

Standard specifications

KG264U*E35

1st Edition : November 05, 2018

KAWASAKI HEAVY INDUSTRIES, LTD.

ROBOT DIVISION

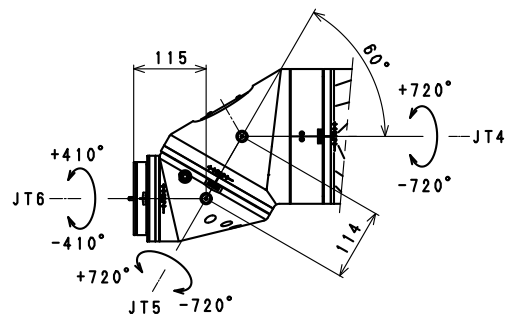
*...F,G,R,S...

Specification :	90101-2853DEA
(Arm) :	90151-0245DEA
(Controller) :	90152-0059DEA

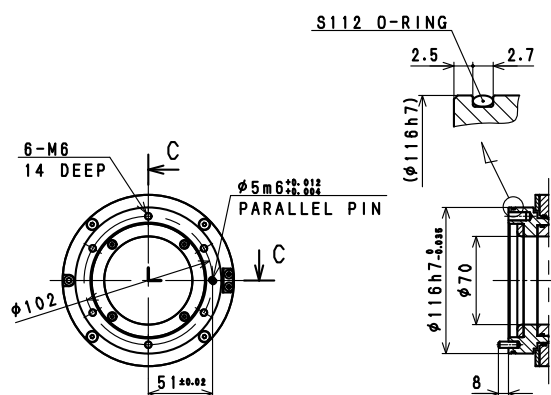
1. Robot Specifications

[1] Robot Arm														
1. Model	KG264U													
2. Type	Articulated robot													
3. Degree of freedom	6 axes													
4. Axis specification	Operating axis	Max. operating range												
	Arm rotation (JT1)	+120 ° ~ − 120 °												
	Arm out-in (JT2)	+120 ° ~ − 60 °												
	Arm up-down (JT3)	+ 90 ° ~ − 65 °												
	Wrist roll (JT4)	+720 ° ~ − 720 °												
	Wrist roll (JT5)	+720 ° ~ − 720 °												
	Wrist roll (JT6)	+410 ° ~ − 410 °												
5. Repeatability	±0.5 mm (at the tool mounting surface)													
6. Playback Accuracy	±1.0 mm (at the tool mounting surface)													
7. Max. payload	Wrist : 20 kg (at the tool mounting surface) Upper arm : 30 kg (on the Upper Arm :Include painting equipments in pressurized compartment)													
8. Max. painting speed	1500 mm/s (at the center of tool mounting surface)													
9. Load capacity of wrist	<table><tr><td></td><td>Max. torque</td><td>Moment of inertia*</td></tr><tr><td>JT4</td><td>79.9 N•m</td><td>3.33 kg•m²</td></tr><tr><td>JT5</td><td>61.3 N•m</td><td>1.95 kg•m²</td></tr><tr><td>JT6</td><td>15.6 N•m</td><td>0.12 kg•m²</td></tr></table> <p>Note* Each value in this table shows allowable moment of inertia of JT4/JT5/JT6 when max. allowed torque is applied to each axis. If more detailed data is required for your application, please contact Kawasaki.</p>			Max. torque	Moment of inertia*	JT4	79.9 N•m	3.33 kg•m ²	JT5	61.3 N•m	1.95 kg•m ²	JT6	15.6 N•m	0.12 kg•m ²
	Max. torque	Moment of inertia*												
JT4	79.9 N•m	3.33 kg•m ²												
JT5	61.3 N•m	1.95 kg•m ²												
JT6	15.6 N•m	0.12 kg•m ²												
10. Driving motor	Brushless AC Servomotor													
11. Working range	See attached drawing													
12. Mass	795 kg (without options)													
13. Color	Munsell 10GY9/1 equivalent													
14. Installation	Floor and Wall mounting													
15. Environment cond.	(Temperature) 0 ~ 40 °C, (Humidity) 35 ~ 85 %, no dew, nor frost allowed													
16. Explosion Proof	Pressurized and Intrinsically Safe													
17. Air supply to the manipulator	Clean & dry air : 0.5 Nm ³ /min, 0.4~0.7 MPa Dew point : − 17 °C or less at atmospheric pressure. Solid material : 0.01 μm or less Oil content : Mist separation 99.9999% or more													
18. Options	Adjustable mechanical stoppers JT1/JT2/JT3													
	Jig set for Zeroing													
	Painting equipment													
	FGP motor (1 unit can be equipped with)													
	Solenoid valve for painting (up to 3 units can be equipped with)													
	Electro pneumatic converter for painting (up to 3 units can be equipped with)													
	Upper Arm cover													
	Application hose protection unit													
19. Others	Consult Kawasaki about maintenance parts and spare parts.													

[2] Controller		
1. Model	E35/E37	
2. Enclosure	Enclosed structure / Indirect cooling system	
3. Dimensions	See attached drawing	
4. Number of controlled axes	6 axes 7/8/9 axes(built-in addition, option)	
5. Servo control and drive system	Full Digital Servo System	
6. Type of control	Teach mode	Joint, Base, Tool, Fixed Tool (option) operation mode
	Repeat mode	PTP, CP control mode
		Joint, Linear, Circular (option) interpolation
7. Teaching method	Teaching or AS language programming	
8. Memory capacity	8 MB	
9. External operation signals	External Motor Power Off, External Hold, etc.	
10. General purpose signals	Input signals	32 channels (Includes dedicated signals)
	Output signals	32 channels (Includes dedicated signals)
11. Operation panel	Basic Operation Switches (Teach/Repeat SW, Emergency Stop SW, Control power lamp)	
12. Cable length	Power/Signal cable in non hazardous area	3 m
	Power/Signal cable in hazardous area	3 m
	Teach Pendant cable	10 m
13. Mass	See attached drawing	
14. Power requirement	AC 440 - 480 V±10%, 60 Hz, 3 phases, Max 5.1 kVA(E37), Max 7.3 kVA(E35)	
15. Ground	PE (Standard for Robots) Leakage current: max. 10 mA	
16. Ambient temperature	0 - 45 °C	
17. Relative humidity	35 - 85 % (non-condensation)	
18. Color	Munsell: 10GY9/1 equivalent	
19. Ex. Light Weight Teach Pendant	Intrinsically safe construction, Color display (5.7 inch TFT LCD) with touch panel Emergency Stop,Teach Lock and Enable Switches	
20. Options		
General purpose signals	Input signals	64/96/128 channels (Includes dedicated signals)
	Output signals	64/96/128 channels (Includes dedicated signals)
I/O connector	D-SUB 37pin(male,female) with cover	
Operation panel	Motor Power ON, Cycle start, RUN/HOLD, Error reset, Error lamp	
Power/Signal cable	in non hazardous area 5,7,10,15,20,25,30m in hazardous area 1,5,7,10,15m	Total length: max. 40 m
Teach Pendant cable	3,5,7,10,15,20,25,30m	
Teach pendant Connector Box	in non hazardous area 1,3,5,7,10,15m in hazardous area 1,3,5,7,10,15m	Total length: max. 30 m
Power requirement	AC 380 - 415 V, AC 440 - 480 V, AC 515 V, AC 575 V ±10%, 50/60 Hz, 3 phases, Max 7.3 kVA(E35/E37)	
Auxiliary storage	USB memory	
AC Outlet	AC110 - 120V Outlet (depends on Primary input voltage)	
PC cable	1.5m, 3m	
Teach Pendant option	Cable hook, connector for TP less	
Others	LED Light, Field BUS, Software PLC, Analog input/output, Conveyor Synchronization, Paint Equipment Control and so on	
21. Others	Consult Kawasaki about maintenance parts and spare parts.	

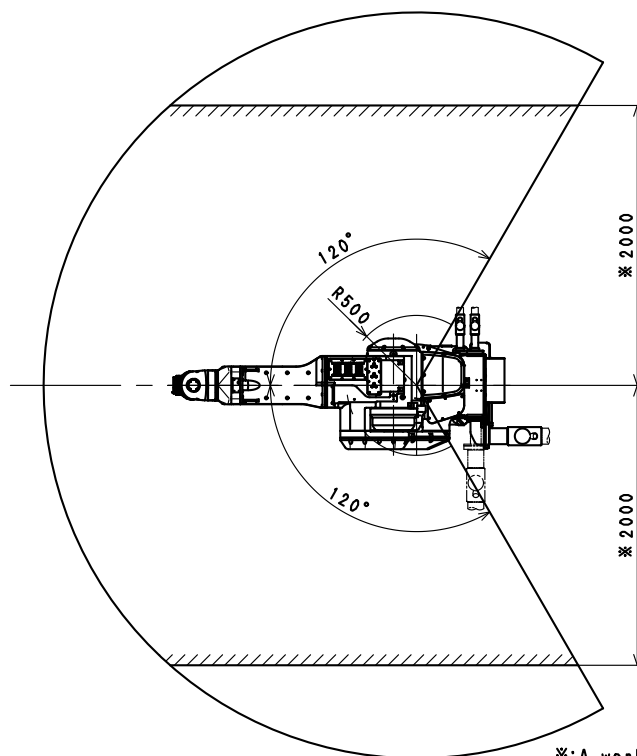
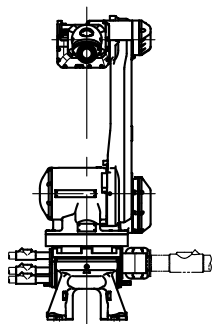


DETAIL A



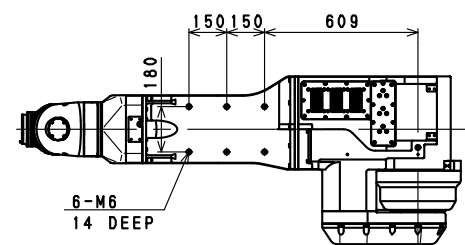
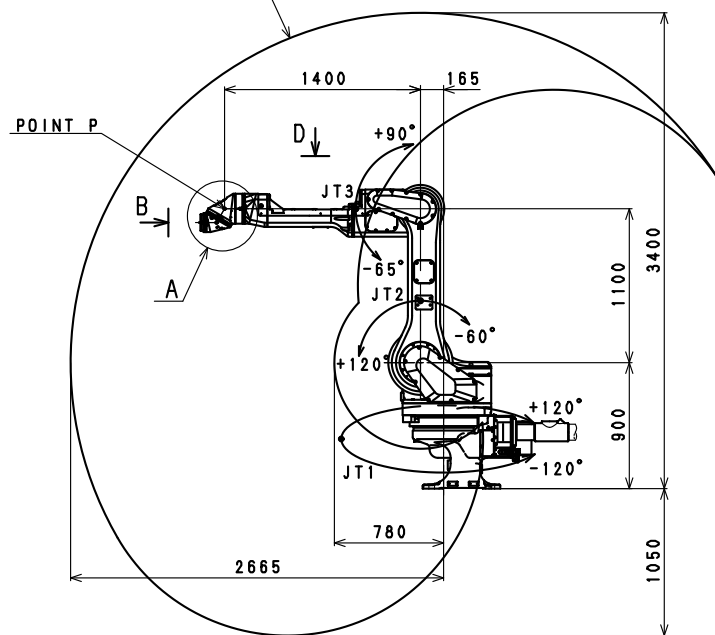
VIEW B

SECTION C-C

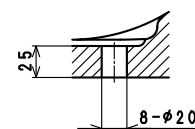


Working range
based on POINT P

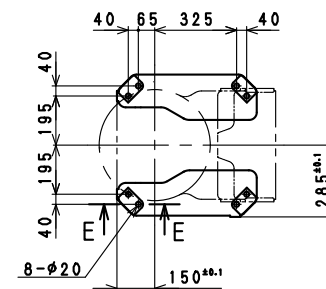
※:A working range at the time of
the wall mounting.



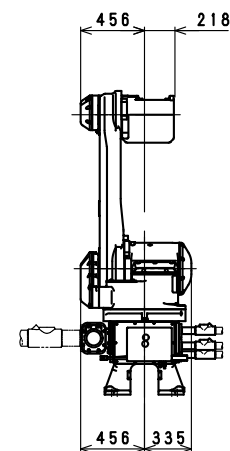
VIEW D



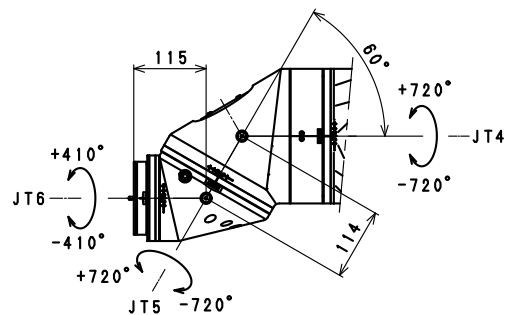
SECTION E-E



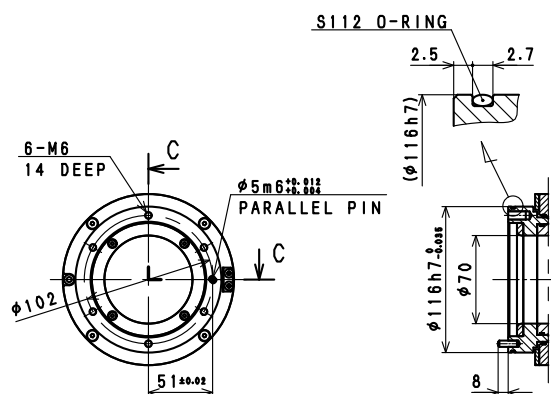
BASE INSTALLATION DIMENSIONS



KG264U
(FIX INSTALLATION)
WORKING RANGE

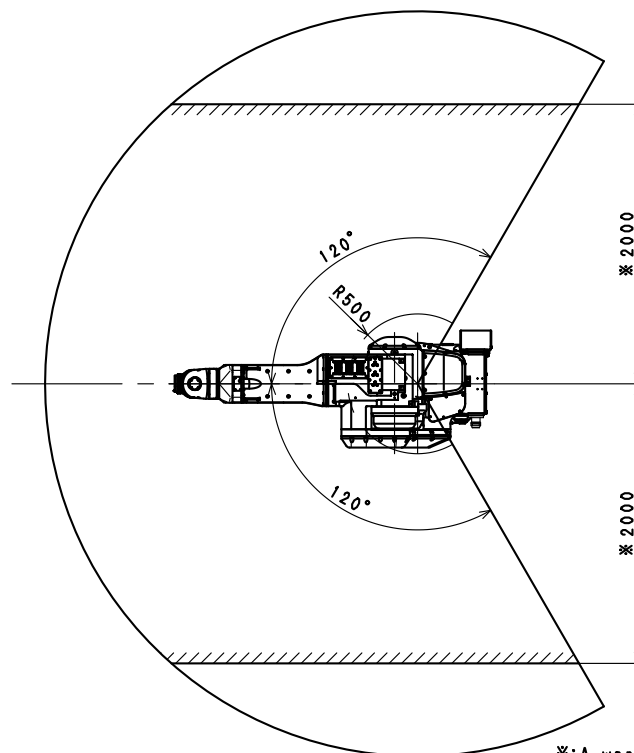
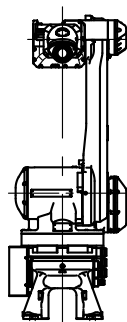


DETAIL A



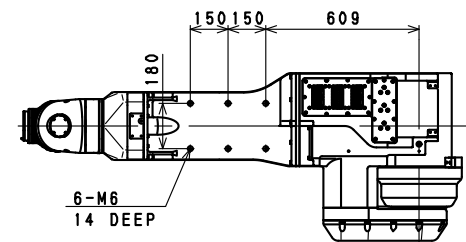
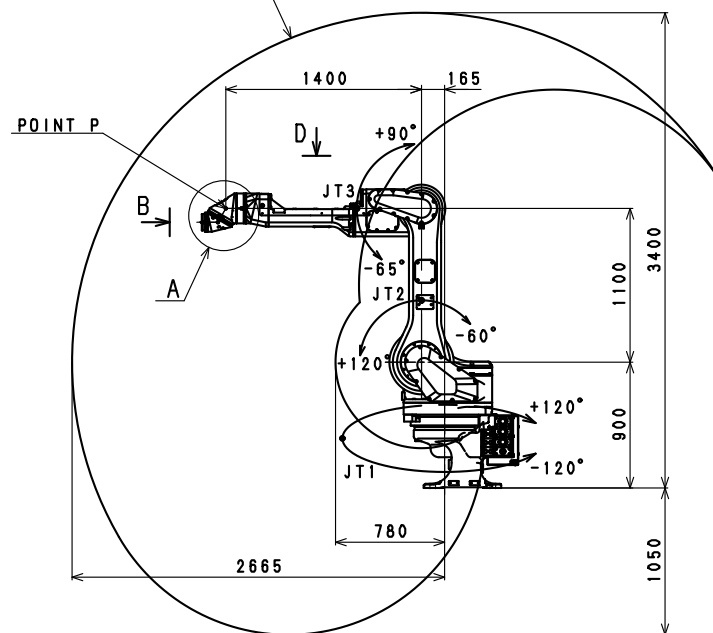
VIEW B

SECTION C-C

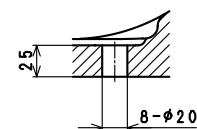


Working range
based on POINT P

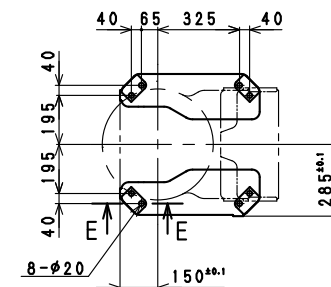
※:A working range at the time of
the wall mounting.



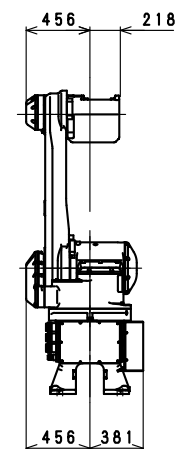
VIEW D



SECTION E-E



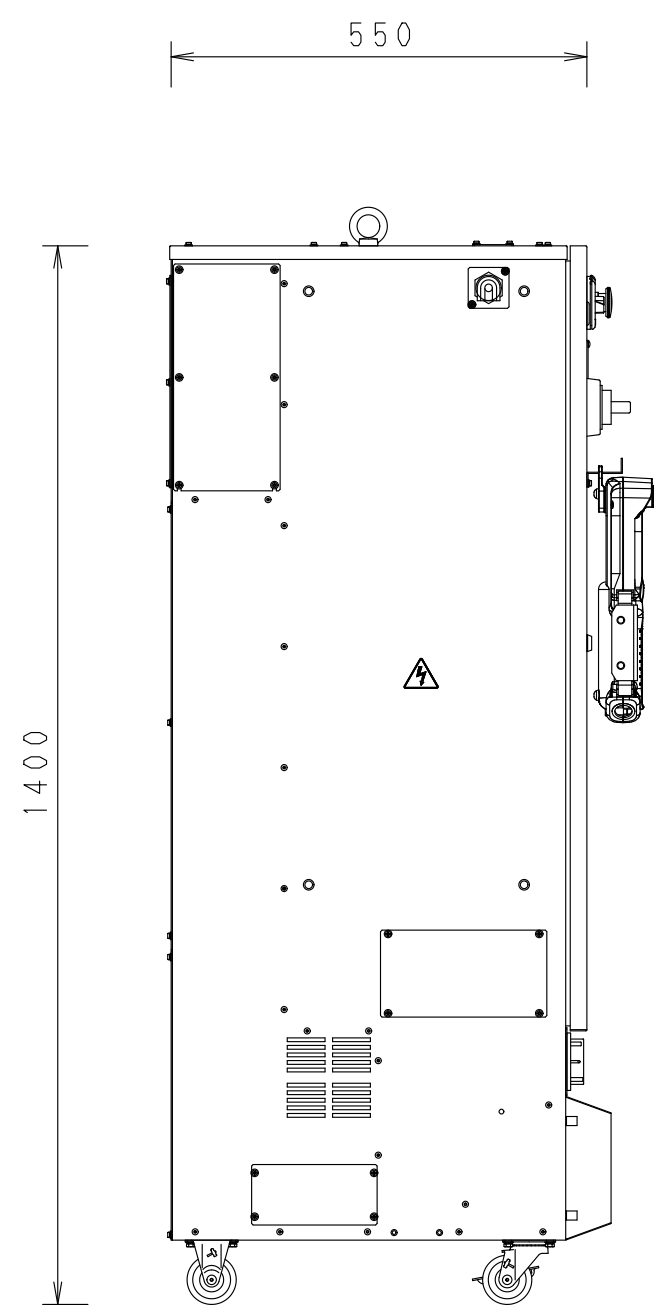
BASE INSTALLATION DIMENSIONS



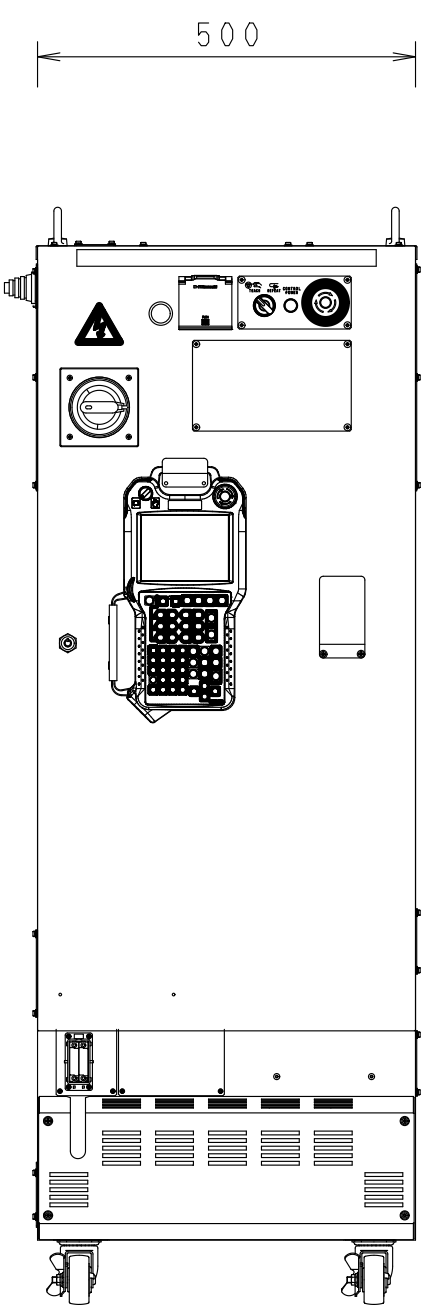
KG264U
(FLEXIBLE INSTALLATION)
WORKING RANGE

E35/E37 CONTROLLER

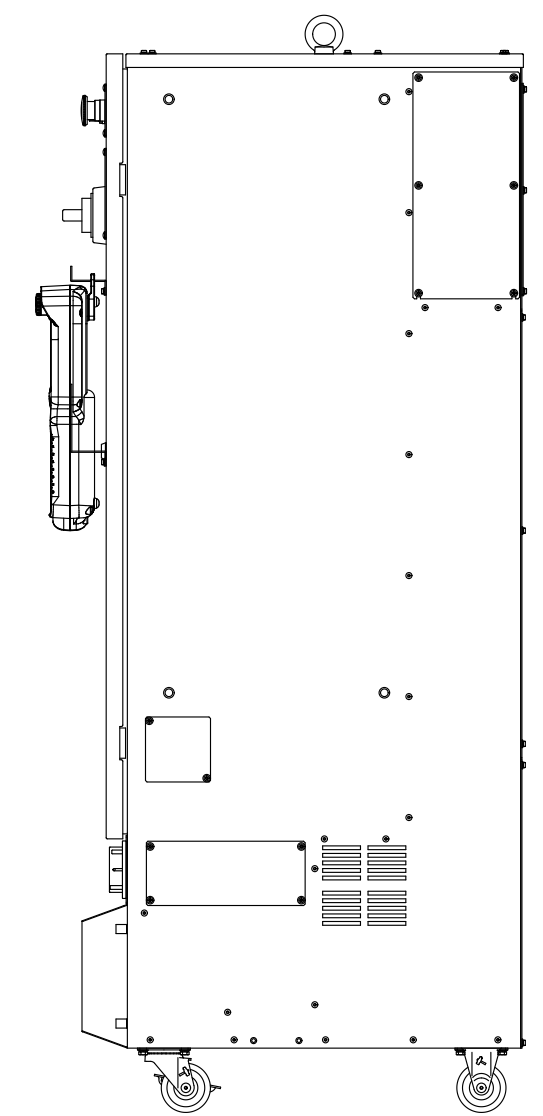
MASS : 170Kg



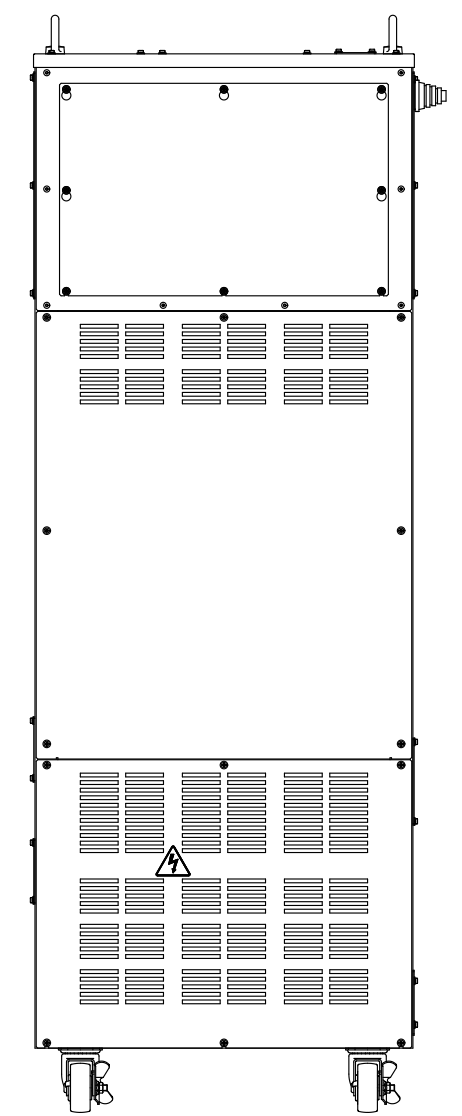
SIDE VIEW



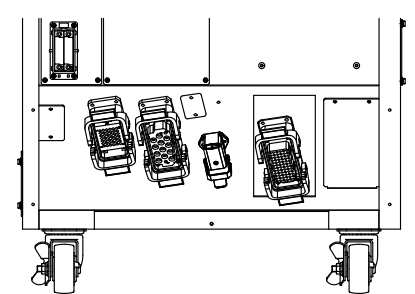
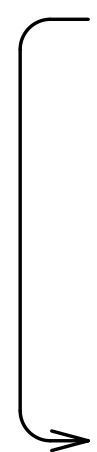
FRONT VIEW



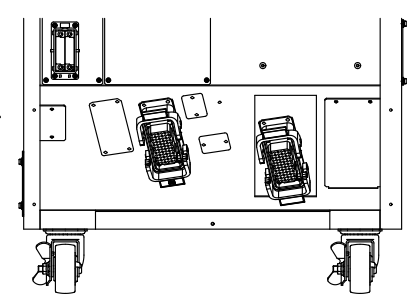
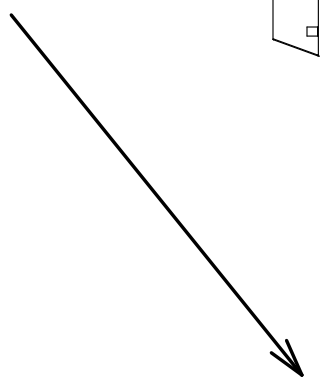
SIDE VIEW



REAR VIEW



WITHOUT CONNECTOR COVER (E35)



WITHOUT CONNECTOR COVER (E37)