SPECIFICATION OF ROBOT

CP300LEE03C02

CAUTION

Please don't export this robot to Japan.

1st Edition : Dec.10.2014

KAWASAKI HEAVY INDUSTRIES LTD.

ROBOT DIV.

Doc,No:90101-2293DEA

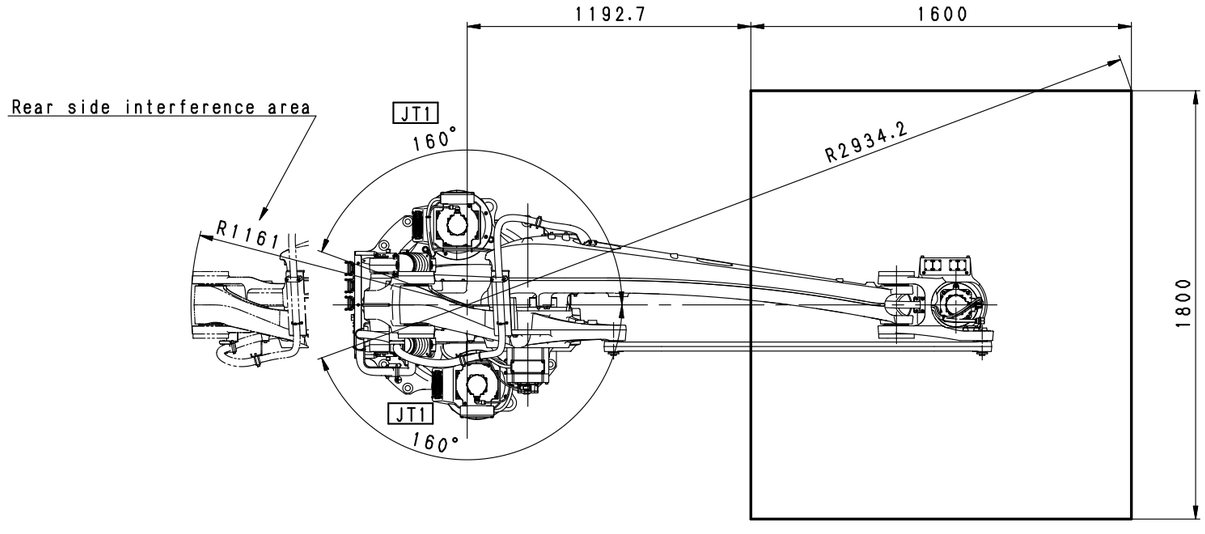
1. Specification of Robot

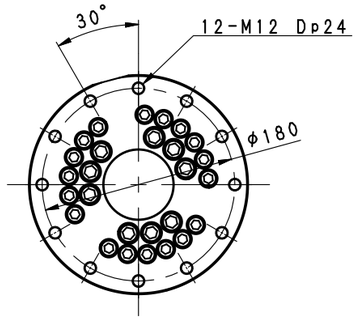
[1] Robot Arm

1. Model	CP300L-AC02		
2. Type	Articulated robot		
3. Degree of freedom	4 axes		
4. Max. payload	High-Speed	Standard	
	250 kg	300 kg	
5. Palletizing Capacity	Approx. 1700 cycles/h	Approx. 1500 cycles/h	
	On the condition that robot moves 400 mm stroke upward-downward and 2000 mm stroke in right-left direction.		
6. Axis specification			
Max. speed*[1]	High-Speed	Standard	
Arm rotation (JT1)	115 °/s	100 °/s	
Arm out-in (JT2)	100°/s	90 °/s	
Arm up-down (JT3)	100 °/s	90 °/s	
Wrist twist (JT4)	250 °/s	220 °/s	
	Note*[1] The max speed changes by weight setting between 250kg to 300kg.		
Max. operating range	High-Speed	Standard	
Arm rotation (JT1)	+160 ° ～－160 °		
Arm out-in (JT2)	+ 95 ° ～－ 46 °		
Arm up-down (JT3)	+ 15 ° ～－110 °		
Wrist twist (JT4)	+360 ° ～－360 °		
7. Load capacity of			
Max. torque	High-Speed	Standard	
Wrist twist (JT4)	—	—	
Moment of inertia*[2]	High-Speed	Standard	
Wrist twist (JT4)	100 kg·m^2	140 kg·m^2	
	Note*[2] Value in this table shows allowable moment of inertia of JT4 when max. allowed torque is applied to the axis. If more detailed data is required for your application, please contact Kawasaki.		
8. Repeatability	±0.5 mm (at the tool mounting surface)		
9. Driving motor	Brushless AC Servomotor		
10. Position detector	Absolute encoder		
11. Working range	See attached drawing		
12. Mass	1600 kg (without options)		
13. Color	Munsell 10GY9/1 equivalent		
14. Installation	Floor mounting		
15. Environment cond.	(Temperature) 0 ～ 45 °C, (Humidity) 35 ～ 85 %, no dew, nor frost allowed		
16. Built-in utilities	Air tube to operate the hand (ϕ 12 × 2 line)		
	Wirings for valves to operate the hand (DC24 V × 8 circuits)		
	Sensor harness to operate the hand (12 circuits)		
17. Options	Mechanical Stopper for JT1		
	Valve harness (8 point)		
	Sensor harness (12 point)		
	Fork Pocket		
	Cooling fan unit for JT2		
	Air cleaning equipment		
18. Others	Consult Kawasaki about maintenance parts and spare parts.		

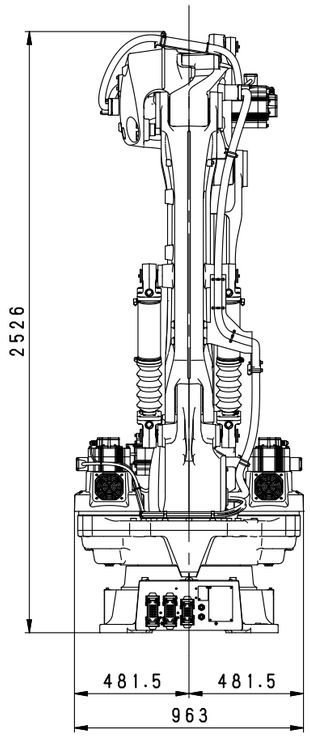
[2] Controller			
1. Model		E03	
2. Enclosure		Enclosed structure / Indirect cooling system	
3. Dimensions		See attached drawing	
4. Number of controlled axes		Max.6 axes (standard 5 axes including dual axes, option 1 axis)	
5. Servo control and drive system		Full Digital Servo System	
6. Type of control		Teach mode	Joint, Base, Tool, Fixed Tool (option) operation mode
		Repeat mode	Joint, Linear, Circular (option) interpolation
7. Teaching method		Teaching or AS language programming	
8. Memory capacity		8 MB	
9. External operation signals		External Emergency stop, External Hold, etc.	
10. Number of IO slots		3 slots	
11. Operation panel		Teach/Repeat SW, Emergency Stop SW, Control power lamp	
12. Communication I/F		Ethernet(100BASE-TX) , USB, RS-232C each 2port (1port on panel, 1port inside controller)	
13. Mass		See attached drawing	
14. Power requirement		AC200 V - AC220 V±10%, 50/60 Hz, 3 phases, Max. 12 kVA	
15. Ground		Less than 100 Ω (robot dedicated ground) Leakage current: max. 100 mA	
16. Ambient temperature		0 - 45℃	
17. Relative humidity		35 - 85 % (non-condensation)	
18. Color		Munsell: 10GY9/1 equivalent	
19. Teach Pendant		TFT color display (5.7 inch LCD) with touch panel Emergency Stop SW, Teach Lock SW and Enable SW	
20. Safety Circuit		Category: 4, Performance Level: e (EN ISO13849-1) ★	
21. Standard Options			
	General purpose IO board	IN:32 OUT:32 NPN(sink) type or PNP(source) type	
	TP sheet language	English or Japanease or Chinese	
	I/O connector	D-SUB 37pin(male,female) with cover	
	Power/Signal cable	5m, 10m, 15m	
	Teach Pendant cable	5m, 10m, 15m	
	Transformer unit	AC380V-415V / AC440V-480V by tap selection	
22. Other Options			
	Additional IO board	IN:64/96 OUT:64/96 NPN(sink) type or PNP(source) type	
	Motor brake release	Manual brake release switch BOX	
	PC cable (RS-232C)	1.5 m, 3 m	
	External axes control	Additional amplifier for external axis	
	Extended safety functions	Cubic-S(Motion area monitoring, Joint monitoring, Speed monitoring etc)	
	Teach Pendant option	Connector for TP less	
	Fast check mode	Fast check mode Switch	
	Others	Field BUS, Software PLC, Analog input/output, Conveyor Synchronization	
23. Others		Consult Kawasaki about maintenance parts and spare parts.	

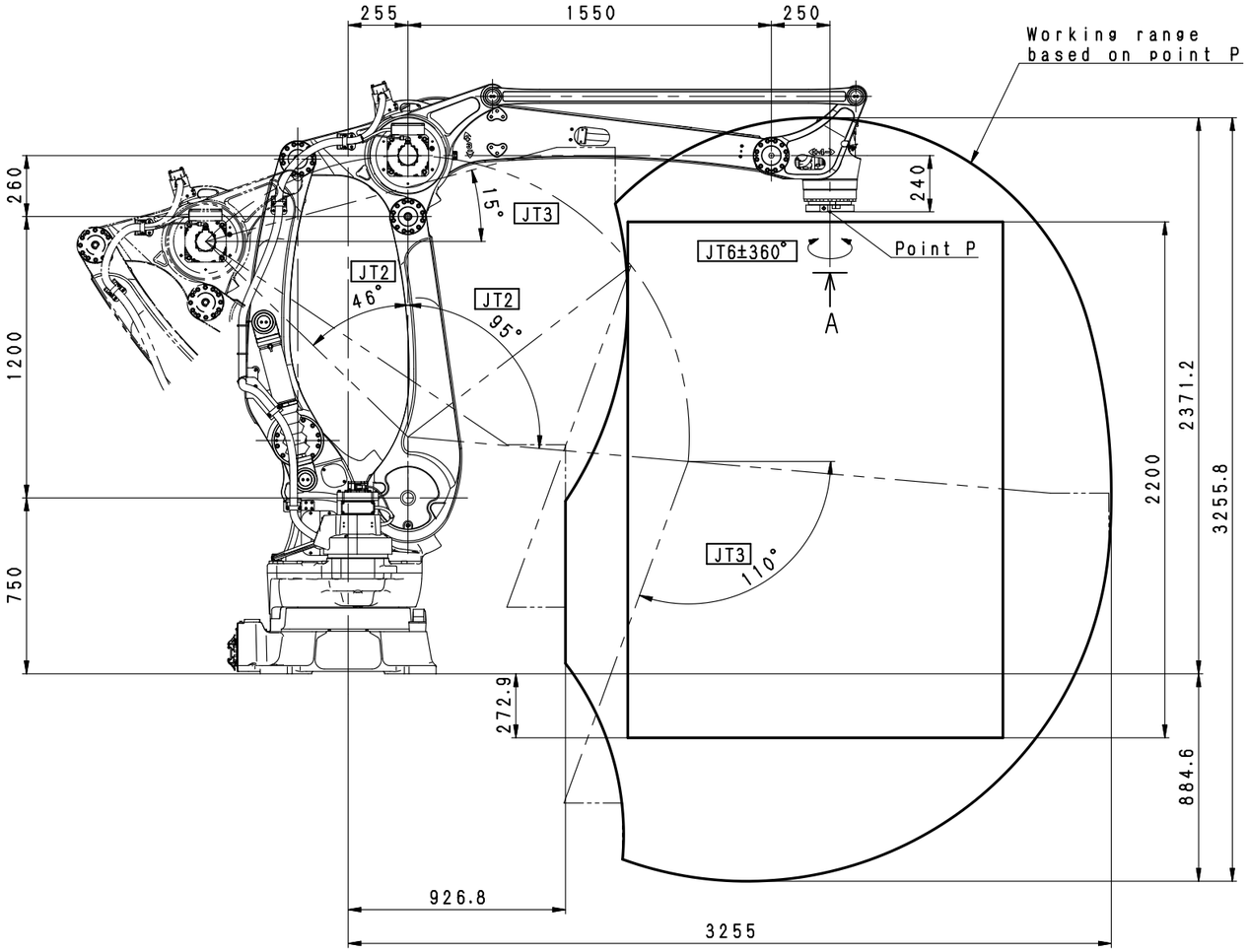
★ Category and Performance level (PL) are determined by the whole system and conditions.
The safety circuit of this controller is available in the system of category: up to 4, PL: up to e.

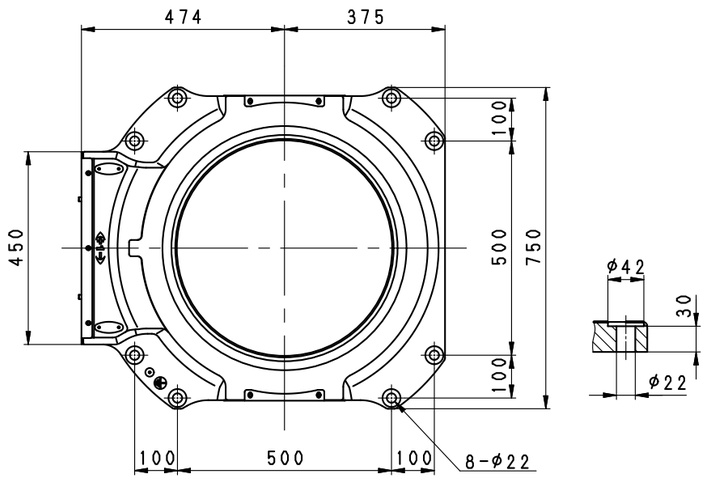




VIEW A







Installation Dimensions

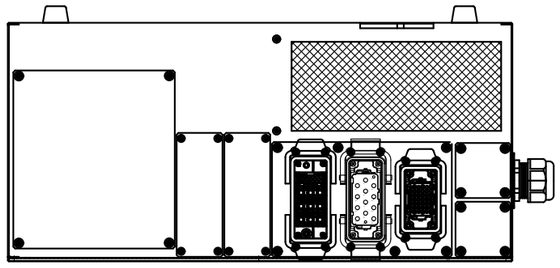
CP130L/180L/250L/300L-A
WORKING RANGE

Kawasaki

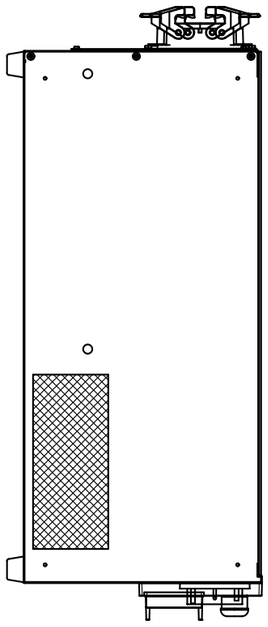
DATE:14.10.08

E03 CONTROLLER

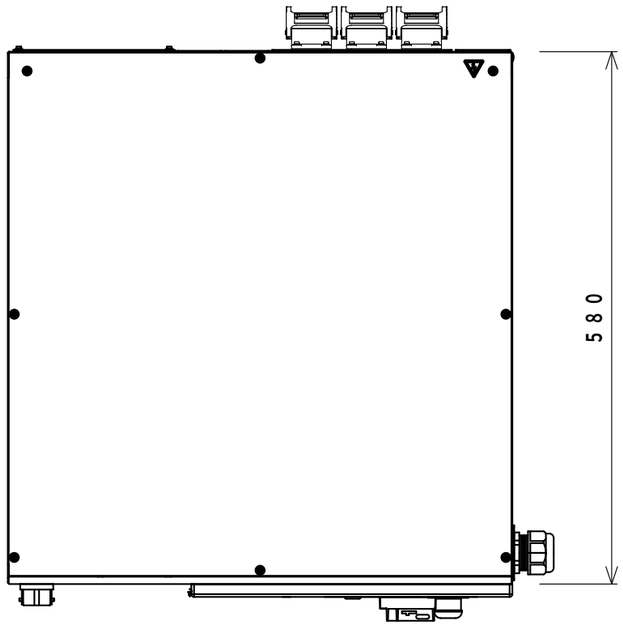
MASS：45Kg



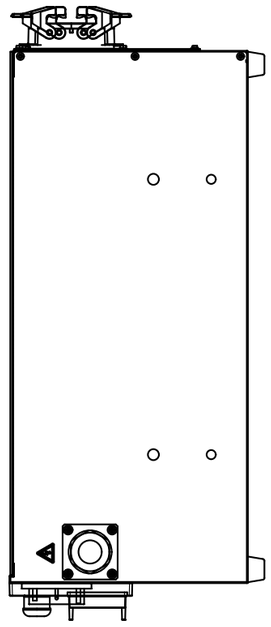
REAR VIEW



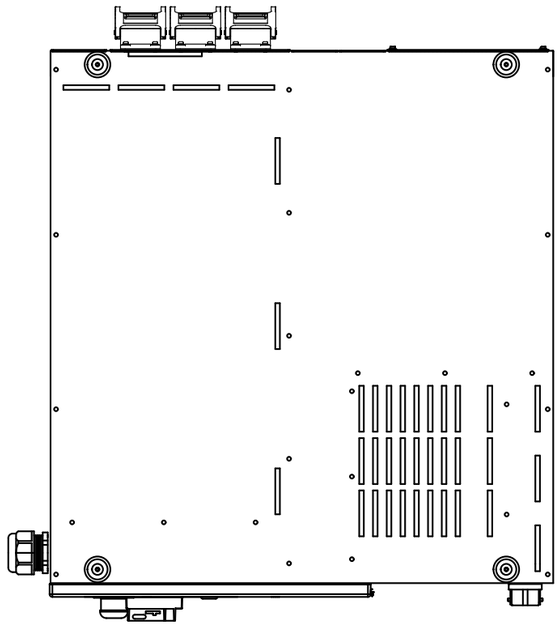
SIDE VIEW



TOP VIEW

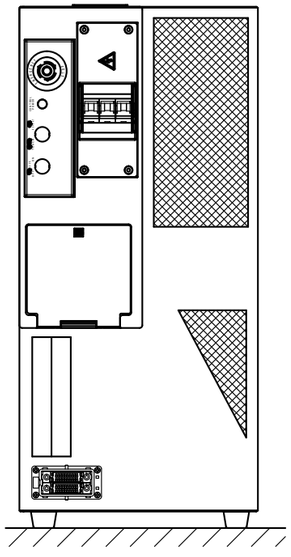


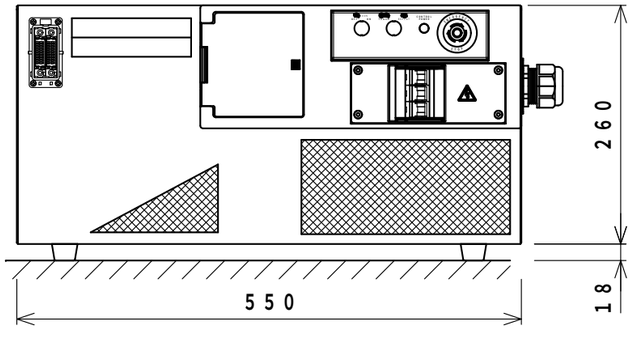
SIDE VIEW



BOTTOM VIEW

Vertical Mount





FRONT VIEW