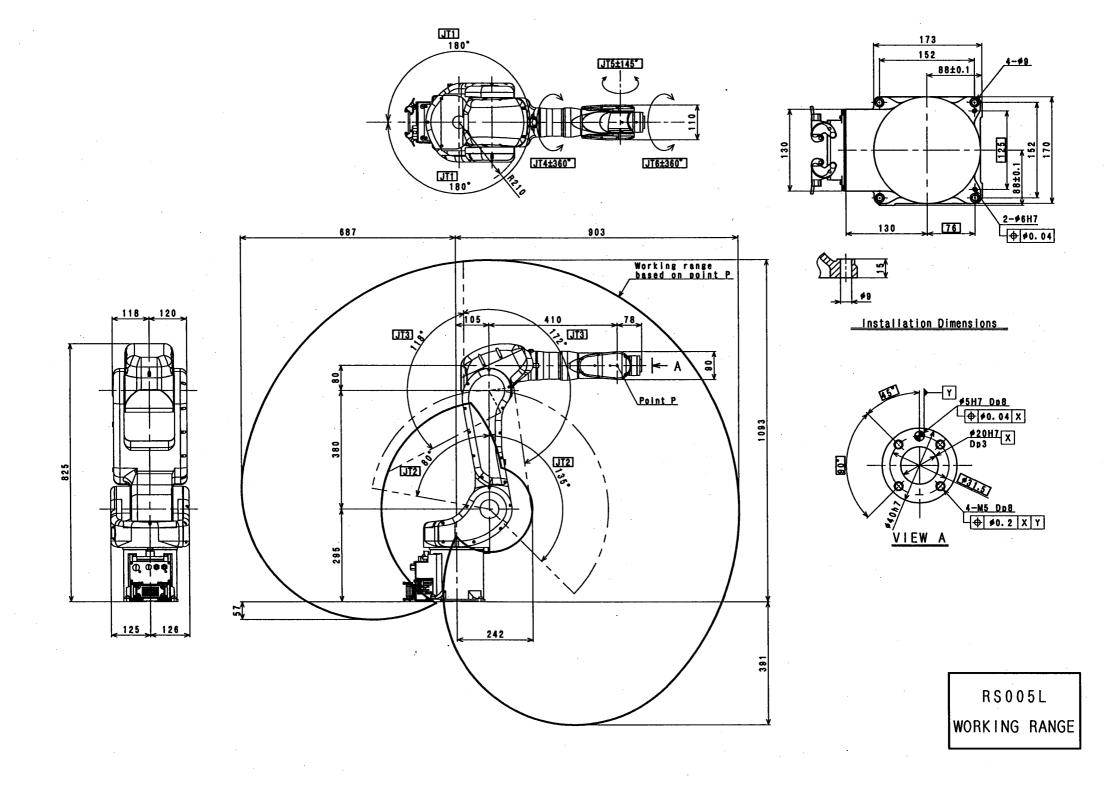
SPECIFICATION OF ROBOT				
<u>RS005LFE71</u>				
2nd Edition: Nov.18.2013				
	HEAVY INDUSTRIES LTD.			
ROBOT				
Materials and specifications are subject to change without noti	Doc, No: 90101-1936DEB ce.			

1. Specification of Robot

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[1] Robot Arm	11					
1. Model	RS005L-A					
2. Type	Articulated robot					
3. Degree of freedom	6 axes					
4. Axis specification	Operating axis Max. operating ra		Max. operating ra		. speed	
	Arm rotation	tation (JT1) $+180^{\circ} \sim -180^{\circ}$		30°	300 °/s	
	Arm out-in (JT2) $+135^{\circ} \sim -80^{\circ}$		0° 300°/s			
	Arm up-down (JT3) $+118^{\circ} \sim -172^{\circ}$		′2 ° 30	300 °/s		
	Wrist swivel	(JT4)	+360 ° ∼-30	60° 46	0 °/s	
	Wrist bend (JT5) $+145^{\circ} \sim -145^{\circ}$		15° 46	60 °/s		
	Wrist twist	(JT6)	+360 ° ∼ −36	60 ° 74	0 °/s	
5. Repeatability	± 0.03 mm (at the	tool mounti	ng surface)	•		
6. Max. payload	5 kg					
7. Max. speed	9300 mm/s (at the	e center of to	ool mounting surface)			
8. Load capacity of						
wrist		M	lax. torque	Moment of i	nertia*	
	JT4		12.3 N·m	0.40 kg·1	m^2	
	JT5		12.3 N·m	0.40 kg·1	m^2	
	JT6		7.0 N·m	0.12 kg·1	m^2	
	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.					
9. Driving motor	Brushless AC Servomotor					
10. Working range	See attached drav	ving				
11. Mass	35 kg (without options)					
12. Color	Munsell 10GY9/1 equivalent					
13. Installation	Floor or Ceiling mounting					
14. Environment cond.	(Temperature) $0 \sim 45$ °C, (Humidity) $35 \sim 85$ %, no dew, nor frost allowed					
15. Degree of protection	Wrist: IP67 Arm: IP65					
16. Built-in utilities	Pneumatic pipings (ϕ 6 × 2 lines)					
17. Options	Wall mounting in	stallation				
	Sensor harness (8 circuits), wired inside robot arm					
	Double solenoid/ Single solenoid valves (3 units max.)					
			r, regulator, mistsepara	tor)		
	Adjustable mechanical stoppers JT1					
	Color (Munsell)					
	Arm installation stand (height 600 mm, 300 mm)					
	Arm installation plate (400 mm × 400 mm)					
18. Others	Consult Kawasaki about maintenance parts and spare parts.					

[2]	Controller					
1.	Model	E70/E71				
2.	Enclosure	Enclosed structure / I	ndirect cooling system			
3.	Dimensions	See attached drawing				
4.	Number of controlled	6 axes				
	axes	Max.8 axes(two built-in additional amplifier, option)				
5.	Servo control and	Full Digital Servo System				
	drive system					
6.	Type of control	Teach mode	Joint, Base, Tool, Fixed Tool (option) operation mode			
	7.1	Repeat mode	PTP, CP control mode			
		•	Joint, Linear, Circular (option) interpolation			
7.	Teaching method	Teaching or AS language programming				
_	Memory capacity	8 MB				
-	External operation	External Motor Powe	er Off, External Hold, etc.			
	signals					
10.	General purpose	Input signals	32 channels (Includes dedicated signals)			
	signals	Output signals	32 channels (Includes dedicated signals)			
11.	Operation panel	<u> </u>	peat SW, Emergency Stop SW, Control power lamp			
	Cable length	Power/Signal cable	10 m			
	C	Teach Pendant cable	10 m			
13.	Mass	See attached drawing				
14.	Power requirement	AC200 V - AC240 V±10%, 50/60 Hz, 1 phase,				
	1	Max 1.5 kVA(E70), Max 3 kVA(E71)				
15.	Ground	Less than 100 Ω (robot dedicated ground)				
		Leakage current: max. 100 mA				
16.	Ambient temperature	0 - 45 °C (Holizontal mount), 0 - 40°C (Vertical mount)				
-	Relative humidity	35 - 85 % (non-condensation)				
-	Surface Treatment	Zinc Plating, Trivalent chromate finish				
	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: 3, Performance Level: d (EN ISO13849-1: 2008) ★				
21.	•					
	General purpose	Input signals	64/96 channels			
	signals	Output signals	64/96 channels			
	I/O connector	D-SUB 37pin(male,fe	emale) with cover			
	Operation panel		cle start, RUN/HOLD, Error reset, Error lamp			
	Power/Signal cable	5m, 15m				
	Teach Pendant cable	5m, 15m				
	Motor brake release	Manual brake release	switch BOX			
	Auxiliary storage	USB memory				
	PC cable	1.5 m, 3 m				
	Teach Pendant option		Connector for TP less			
	Others	Field BUS, Software PLC, Analog input/output,				
		Conveyor Synchronization, Vision and so on				
22.	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 3, PL: up to d.



E70/E71 CONTROLLER $\mathsf{M}\ \mathsf{A}\ \mathsf{S}\ \mathsf{S}\ :\ \mathsf{3}\ \mathsf{0}\ \mathsf{K}\ \mathsf{g}$ TOP VIEW 4 2 0 5 0 0 **O** O • SIDE VIEW FRONT VIEW SIDE VIEW REAR VIEW