



# Specification for 300mm KR-A9100

■ Revision No.  
 ■ Supplier  
 ■ Model  
 ■ Application  
 ■ Doc. Number  
 ■ P.O Number  
 ■ Date

Rev. 1  
 KORO.  
 300mm Single Robot  
 KR-A9100  
 2018.05.17.  
 2018.05.17.

## 1. Performance Specification

Item			Specification	특이사항
1-1	Work Space	Extension axis (R axis)	R-AXIS : 640mm	R-Axis Max Reach : 650mm
		Rotation axis (θ axis)	T-AXIS : 340°	
		Up-Down(Z axis)	Z-AXIS :300mm	
1-1-1	Raduis of Rotation(min)		R 262mm (For 300mm Wafer)	
1-2	Max. Speed	Extension axis (R axis)	≤ 0.8sec/650mm	
		Rotation axis (θ axis)	≤ 1.0 sec/340°	
		Up-Down(Z axis)	≤ 1.0 sec/300mm	
1-3	Repeatability	Extension axis (R axis)	≤ ± 0.05mm	
		Rotation axis (θ axis)	≤ ± 0.05°	
		Up-Down(Z axis)	≤ ± 0.05mm	
1-4	Particle&Damage	Damage or Scratch	No Damage & Scratch during grip, positioning, and transfer	No Damage
1-5	Vibration Spec.	Horizontal	≤ ± 0.5mm	
		Vertical	≤ ± 0.5mm	
1-6	Anti-Electrostatic Requirements		10 <sup>6</sup> ~10 <sup>9</sup> Ω/cm <sup>2</sup>	
1-7	Thickness of Endeffector		≤3.0mm	
1-8	MTBF (Mean Time between Failure)		≥ 20,000hr	
1-9	MTTR (Mean Time To Repair )		≤ 4hr	
1-10	MCBF (Mean Cycle between Failure)		≥50,000 Cycle	
1-11	Encoder Error Detection		Detection sensitivity about moving error will be Adjusted	
1-12	Safety Function		SEMI S2, S8	

## 2. Power and Signal Specification

Item		Specification	특이사항
1-1	Power Capacity for Robot Control	Power : 208VAC , 50/ 60Hz Combination, Single Phase Power Consumption : 15A	
1-2	Electric Schematic ( Regarding Power and Signal Connection )	Will supply power and signal wiring schematic for the each pin connection as soon as possible	
1-3	Communication method between Robot controller and Konic PC	RS 232 & IN PUT CONTROL	
1-4	EMO(Emergency Stop)	Teaching Pendant contains push button for the emergency stop.	
1-5	Teaching Pendant	Cable Extension can cover about 3 meter from the controller	
1-6	Safety Requirement	EN 61000-6-2 : 2001      EN 61000-6-4 : 2001	