

BASIC SPECIFICATION OF ROBOT							
Item				Specification			
Robot Model				MZ03EL-02	MZ04-01	MZ07-01 (MZ07P-01)	MZ07L-01 (MZ07LP-01)
Construction				Articulated			
Number of Axis				6		6 (5)	
Drive System				AC Servodrive			
Max. Working Envelope	Arm	J1	Swivel	±170°	±170°		
		J2	Forward/Backward	-135° ~ 80°	-145° ~ +90°	-135°~ +80°	
		J3	Upward/Downward	-155° ~ 270°	-125° ~ +280°	-136° ~ 270°	-139° ~ 270°
	Wrist	J4*3	Rotation 2	±190°			
		J5	Bend	±120°			
		J6	Rotation 1	±360°			
Max. Speed*4 [°/s]	Arm	J1	Swivel	300	480	450	300
		J2	Forward/ Backward	230	460	380	280
		J3	Upward/Downward	360	520	520	360
	Wrist	J4*3	Rotation 2	550	560	550	
		J5	Bend	550	560	550	
		J6	Rotation 1	1000	900	1000	
Max. Payload [kg]		Wrist		3.5	4	7	
Allowable Static Loading Torque [N • m]		J4*3	Rotation 2	6.0	8.86	16.6	
		J5	Bend	6.0	8.86	16.6	
		J6	Rotation 1	2.9	4.9	9.4	
Max. Allowable Moment of Inertia*1 [kg • m²]		J4*3	Rotation 2	0.12	0.2	0.47	
		J5	Bend	0.12	0.2	0.47	
		J6	Rotation 1	0.03	0.07	0.15	
Max. Reach [mm]				1102	541	723	912
Position Repeatability*2 [mm]				±0.03	±0.02		±0.03
Ambient Temperature				0 ~ 45°C			
Installation				Floor / Wall / Tilted / Inverted mount			
Dust Proof, Drip Proof				IP67	IP40 equivalent*5	IP67	
Robot Mass [kg]				39	26	30	32

1[N • m]=1/9,8[kgf • m]

*1: Note that the allowable moment of inertia of wrist varies with the wrist load conditions.

*2: JIS B 8432 compliant.

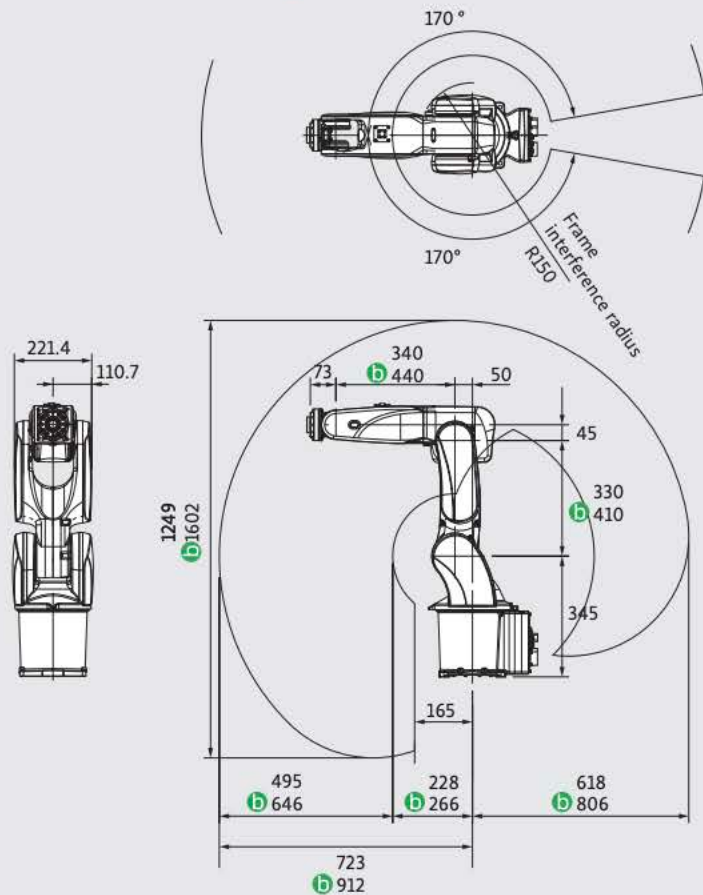
*3: MZ07P-01 and MZ07LP-01 don't have J4 axis.

*4: The „Max. speed“ in this table is the available maximum value and will change depending on the workprogram and the wrist load condition.

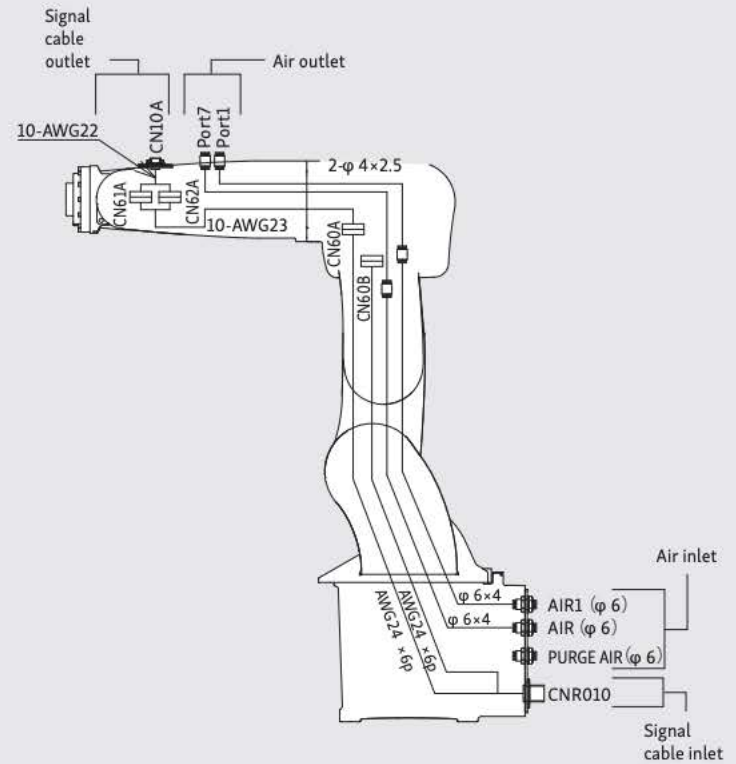
*5: IP67 specifications can be selected as an option for the MZ04.

ROBOT DIMENSIONS AND WORKING ENVELOPE

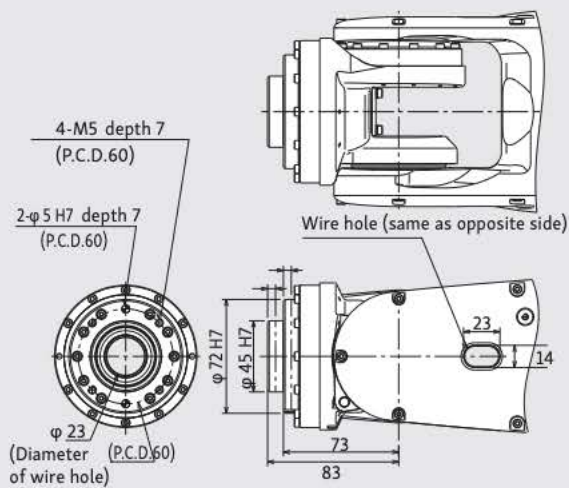
Figures shown indicate: MZ07 and **b** MZ07L



WIRING AND TUBING INSIDE ARM (STANDARD)

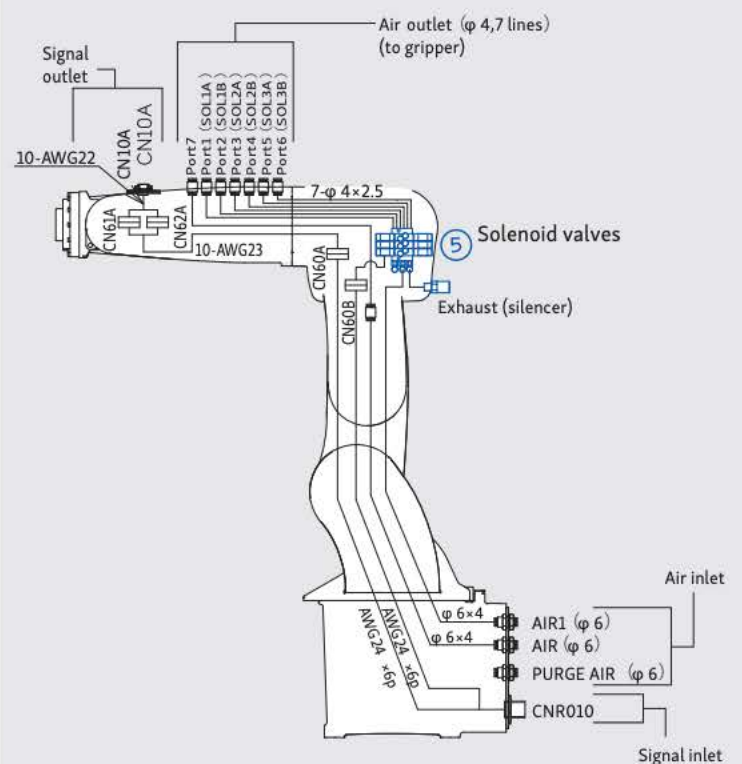


WRIST DIMENSIONS



WIRING AND TUBING IN ROBOT ARM

(when SOL installed in arm)



ROBOT BASE DIMENSIONS

