

# ROBOT SPECIFICATIONS

Item			Specifications															
Robot model	EZ03V4 -02-4515		EZ03V4 -02-4525		EZ03F4 -02-5515		EZ03F4 -02-5525		EZ02V6 -02-4515		EZ02V6 -02-4525		EZ02F6 -02-5515		EZ02F6 -02-5525			
Structure	Horizontal articulated																	
Number of axis	4								6									
Max. reach	450mm				550mm				450mm				550mm					
Installation*1	Inverted mount				Floor mount				Inverted mount				Floor mount					
Drive system	AC servo system																	
Max. operating envelope	J1	Vertical	150mm	250mm	150mm	250mm	150mm	250mm	150mm	250mm	150mm	250mm	150mm	250mm	150mm	250mm		
	J2		±170°															
	J3		±180°				±145°				±180°				±145°			
	J4		±360°								±190°							
	J5		-								±110°							
	J6		-								±360°							
Max. speed*2	J1	Vertical	1200mm/s	1400mm/s	1200mm/s	1400mm/s	1000mm/s	1200mm/s	1000mm/s	1200mm/s	1000mm/s	1200mm/s	1000mm/s	1200mm/s	1000mm/s	1200mm/s		
	J2		450°/s															
	J3		720°/s															
	J4		2400°/s								1200°/s							
	J5		-								720°/s							
	J6		-								720°/s							
Payload (max)	2kg (3kg)								1kg (2kg)									
Allowable moment of inertia for wrist*3	J4		0.05kg·m <sup>2</sup> (0.005kg·m <sup>2</sup> rated)								0.03kg·m <sup>2</sup> (0.013kg·m <sup>2</sup> rated)							
	J5		-								0.03kg·m <sup>2</sup> (0.013kg·m <sup>2</sup> rated)							
	J6		-								0.01kg·m <sup>2</sup> (0.001kg·m <sup>2</sup> rated)							
Position repeatability*4	±0.014mm								±0.02mm									
Air piping	φ6×2																	
Application wirings	10 wires																	
Installation conditions	Ambient temperature: 0 to 45° C*5 Ambient humidity: 20 to 85% RH (without condensation) Allowable vibration of installation surface: Not more than 0.5 G (4.9m/s <sup>2</sup> )																	
Environmental conditions*6	IP20 * Explosion-proof version is not available.																	
Noise level	70dB																	
Robot mass	42kg				43kg				44kg				45kg					

1 [rad] = 180/π[°], 1 [N·m] = 1/9.8 [kgf·m]

\*1: The maximum speed in the chart is a maximum value. The maximum value may change depending on work programs and load conditions of the wrist.

\*2: The allowable moment of inertia of a wrist changes with the load conditions of a wrist.

\*3: JIS B 8432 compliant.

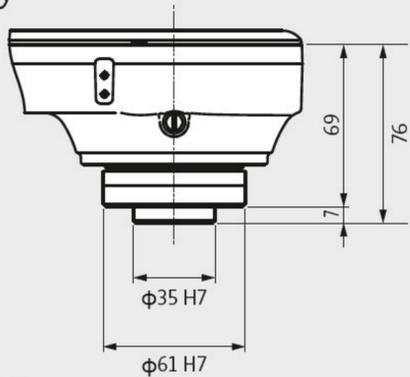
\*4: Using at 1000m or lower sea level. Ambient temperature has limitations when allowable altitude is exceeded.

\*5: Fluids that cause the deterioration of sealants, such as gasoline-based cutting fluids, chlorine, alkali, acids, and organic solvents, cannot be used.

\*6: A-weighted equivalent sound level measured according to JIS Z 8737-1 (ISO 11201). (While operating at maximum speed with rated load)

## WRIST DIMENSIONS (OPTION 5)

4 axis only



2-φ5 H7, depth 9 (P.C.D. 47 balanced)

4-M5, depth 9 (P.C.D. 47 balanced)

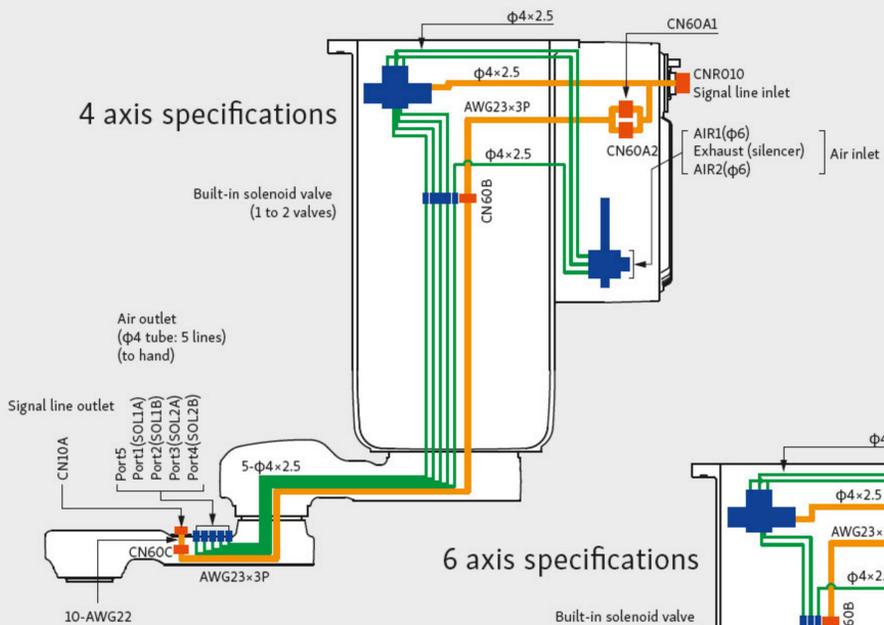
φ7 (wiring clamp hole)

5-φ4 (tube clamp hole)



## WIRING AND PIPING INSIDE MACHINE BODY

4 axis specifications



6 axis specifications

