

SPECIFICATIONS

Item		Specifications	
		LR Mate 200iB, ARC Mate 50iB	LR Mate 200iB/3L, ARC Mate 50iB/3L
Type		Articulated type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Installation		Floor, Upside-down	
Load capacity		5 kg	(NOTE1) 3 kg
Motion range NOTE 2	J1 AXIS ROTATION	320° (5.59 rad)	320° (5.59 rad)
	J2 AXIS ROTATION	185° (3.23 rad)	185° (3.23 rad)
	J3 AXIS ROTATION	316.7° (5.53 rad)	(NOTE2) 290° (5.06 rad)
	J4 AXIS WRIST ROTATION	380° (6.63 rad)	380° (6.63 rad)
	J5 AXIS WRIST SWING	240° (4.19 rad)	240° (4.19 rad)
	J6 AXIS WRIST ROTATION	720° (12.6 rad)	720° (12.6 rad)
Maximum speed	J1 AXIS ROTATION	180°/sec (3.14 rad/sec)	140°/sec (2.44 rad/sec)
	J2 AXIS ROTATION	180°/sec (3.14 rad/sec)	150°/sec (2.62 rad/sec)
	J3 AXIS ROTATION	225°/sec (3.93 rad/sec)	160°/sec (2.79 rad/sec)
	J4 AXIS WRIST ROTATION	400°/sec (6.98 rad/sec)	400°/sec (6.98 rad/sec)
	J5 AXIS WRIST SWING	330°/sec (5.76 rad/sec)	330°/sec (5.76 rad/sec)
	J6 AXIS WRIST ROTATION	480°/sec (8.38 rad/sec)	480°/sec (8.38 rad/sec)
Allowable load moment at wrist	J4 axis	7.25 N-m (74.0 kgf-cm)	7.25 N-m (74.0 kgf-cm)
	J5 axis	7.25 N-m (74.0 kgf-cm)	7.25 N-m (74.0 kgf-cm)
	J6 axis	5.21 N-m (53.2 kgf-cm)	5.21 N-m (53.2 kgf-cm)
Allowable load inertia at wrist	J4 axis	0.138 kg-m ² (1.4 kgf-cm-s ²)	0.138 kg-m ² (1.4 kgf-cm-s ²)
	J5 axis	0.138 kg-m ² (1.4 kgf-cm-s ²)	0.138 kg-m ² (1.4 kgf-cm-s ²)
	J6 axis	0.071 kg-m ² (0.772 kgf-cm-s ²)	0.071 kg-m ² (0.772 kgf-cm-s ²)
Mechanical unit weight		approx. 45kg	approx. 47kg
Repeatability		± 0.04mm	
Acoustic noise level		70 dB or less	
Axes with brake		Standard:J2 and J3 (Option: All axes brake)	
Dust-proof and drip-proof mechanism		Conform to IP65 (For severe dust liquid protection cover)	
Incorporated solenoid valve for hand (Option)		Double solenoid ×2 Double solenoid ×3	
Installation environment		Ambient temperature : 0°C to 45° C (No dew allowed) Ambient humidity : Long term: 75%RH or less Short term: 95%RH or less (within 1 month) Height:Up to 1,000 meters above sea level, no particular provision for altitude is required. Vibration: 0.5G or less Ambient temperature : 0°C to 45° C (No dew allowed) Ambient humidity : Long term: 75%RH or less Short term: 95%RH or less (within 1 month) Height:Up to 1,000 meters above sea level, no particular provision for altitude is required. Vibration: 0.5G or less	