

MORE information

Technical data CR series

Specifications	CR-4iA	CR-7iA	CR-7iA/L	CR-14iA/L	CR-15iA	CR-35iB
Type: articulated	•	•	•	•	•	•
Controlled axes	6	6	6	6	6	6
Max. load capacity at wrist [kg]	4	7	7	14	15	35/50
Reach [mm] *2)	550	717	911	911 *1)	1,441	1,831
Repeatability [mm] *3)	±0.01	±0.01	±0.01	±0.01	±0.02	±0.03
Mass [kg] *3)	48	53	55	55	255	375
Installation: floor upside down wall *4)	• • •	• • •	• • •	• • •	• • •	• - -
Motion range						
J1 axis rotation [°]	340	340	340	340	340	370
J2 axis rotation [°]	150	166	166	166	180	215
J3 axis rotation [°]	354	373	383	383	312	338
J4 axis wrist rotation [°]	380	380	380	380	380	400
J5 axis wrist swing [°]	200	240	240	240	280	280
J6 axis wrist rotation [°]	720	720	720	720	900	900
Max. speed [mm / s] *5)	1,000 *6)	1,000 *6)	1,000 *6)	500 *5)	800 / 1,500 *7)	750 *6)
Allowable load moment at wrist						
J4 axis [Nm]	8.86	16.6	16.6	31.0	26.0	110
J5 axis [Nm]	8.86	16.6	16.6	31.0	26.0	110
J6 axis [Nm]	4.9	9.4	9.4	13.4	11.0	60.0
Allowable load inertia at wrist						
J4 axis [kgm ²]	0.20	0.47	0.47	0.66	0.90	4.00
J5 axis [kgm ²]	0.20	0.47	0.47	0.66	0.90	4.00
J6 axis [kgm ²]	0.067	0.15	0.15	0.30	0.30	1.50
Installation environment						
Ambient operating temperature [°C]	0-45	0-45	0-45	0-45	0-45	0-45
Protection						
Body standard/optional	IP67	IP67	IP67	IP67	IP54	IP54
Wrist & J3 arm standard/optional	IP67	IP67	IP67	IP67	IP67	IP67

• standard

*1) 911mm (load capacity < 12 kg) - 820 mm (load capacity ≥12 kg)

*2) Reach specification is with respect to J5 axis center

*3) ISO 9283

*4) In case of the wall mount, the operation space will be restricted according to the payload.

*5) In case of short distance motion, the speed may not reach the maximum value stated.

*6) It is necessary to set a motion speed according to risk assessment of system considering pinching with the surroundings.

*7) If the area is monitored by a safety sensor (located separately).

