

G10

High Rigidity = Ultra High Speed + Heavy Payload

- Arm Lengths from 650 850 mm
- Reduced Residual Vibration for Faster Accel/Decel Rates

G20

Long Reach and Heavy Payload

- Arm Lengths from 850 1,000 mm
- Monocoque Design Provides for Higher Rigidity



Specifications

	G10-65x			G10/20-85x			G20-A0x			
Mounting type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall
Arm length	Arm #1, #2	650 mm			850 mm			1000 mm		
Max. operating speed	Joints #1, #2	8800 mm/s			11000 mm/s			11500 mm/s		
	Joint #3	180 (150 clean) =1100 mm/sec 420 (390 clean) =2350 mm/sec								
	Joint #4	2400 deg/s			G10=2400 deg/s / G20=1700 deg/s			1700 deg/s		
Weight (cables not included)		46 kg 51 kg		51 kg	48 kg 53		53 kg	50 kg 55 k		55 kg
Repeatability	Joints #1, #2	±0.025 mm								
	Joint #3	±0.01 mm								
	Joint #4	±0.005 deg								
Max. motion range	Joint #1	±152 deg	±107 deg		±152	? deg	±107 deg	±15	2 deg	±107 deg
	Joint #2	±152.5 deg ±130 deg					otected models =-360 ~-390 ±151deg			
	Joint #3 Std	180 mm/420 mm								
	Joint #3 Clean	150 mm/390 mm								
	Joint #4	±360 deg								
Payload	Rated	5 kg			G10=5 kg/G20=10 kg			10 kg		
_	Maximum	10 kg		G10=10 kg/G20=20 kg		20 kg				
Standard cycle time ¹		0.34 sec			0.37 sec		0.42 sec			
Joint #4 allowable	Rated	0.02 kg∙m2		G10=0.02 kg•m2/G20=0.05 kg•m2		0.05 kg∙m2				
moment of inertia ²	Maximum	0.25 kg∙m2		G10=0.25 kg•m2/G20=0.45 kg•m2		0.45 kg∙m2				
Motor power consumption	Joint #1	750 W								
	Joint #2	600 W								
	Joint #3	400 W								
	Joint #4	150 W								
Joint #3 downward force	250 N									
Electric lines	15Pin (D-Sub), 9Pin (D-sub)									
Pneumatic lines		Φ4 mm × 2, Φ6 mm × 2								
Installation environment		Standard/Cleanroom ³ & ESD/Protection ⁴								
Available controllers	RC180, RC620+, RC700A									
Safety standards		CE, ANSI/RIA15.06-2012, UL 1740								

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¹ Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 2 kg payload (path coordinates optimized for maximum speed). I 2 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using INERTIA command. I 3 Complies with ISO Class 3 (ISO14644-1) and older Class 10 (less than 10 0.1µm particles per 28,317cm³:1cft) cleanroom standards. I 4 G10/G20 dustproof robots with optional bellows comply with IP54; G10/20 protected models comply with IP65.