

HC-RF SERVO MOTOR



Low Inertia Servo Motor

1 kW - 2 kW

HC-RF - HIGH RESPONSE MEETS HIGH POWER

The HC-RF motor range has evolved from the latest developments in motor design technology. With a low inertia rotor and maximum speed of 4500 rpm it provides high response for larger demanding applications. When combined with the MR-J2 servo amplifier range, it is a powerful solution to applications such as:

- Roll feeders
- High frequency conveyors
- Industrial printing machines
- Loaders and unloaders
- ...and many more

Other Features

In addition to the low rotor inertia, the HC-RF motor range also incorporates other features that ensure the best performance.

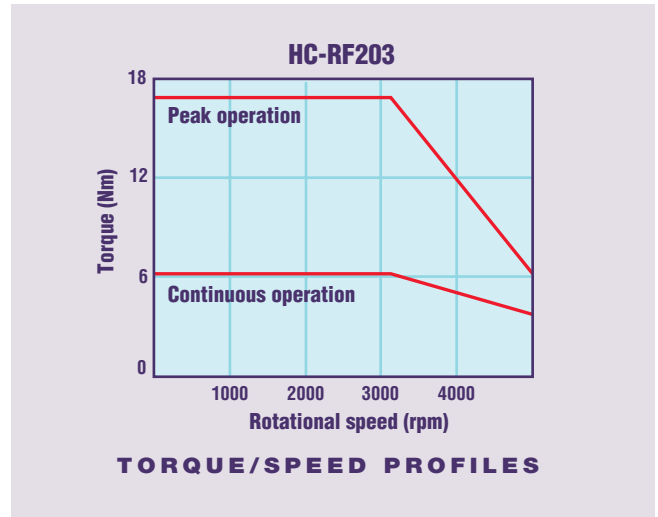
Absolute encoders - This motor range has absolute encoders fitted as standard with a resolution of 16384 pulses per rev to ensure the smoothest operation and high accuracy.

Braked motors - Motors within this range are also available with 24V DC brakes for vertical lifting applications.

Serial communication - The encoders are linked to the servo amplifier by serial communications increasing the immunity to noise and reducing the cable diameter.

IP65 Rating - The motor casing and oil seal are rated to IP 65, essential for protection against environmental hazards.

Performance - The graph below represents a typical torque speed profile for the HC-RF motor range showing peak torque levels of 300% across the speed range.



Servo motor	HC-RF		103	153	203
Servo amplifier	MR-J2		200A	200A	350A
Continuous duty	Rated output (kW)		1.0	1.5	2.0
	Rated torque	Nm	3.18	4.78	6.3
		Kgf.cm	32.5	48.7	64.9
Rated speed		Rpm	3000		
Maximum speed		Rpm	4500		
Maximum torque	Nm		7.95	11.9	15.9
	Kgf.cm		81.3	122	162
Moment of inertia - J	Kg.cm ²		1.5	1.9	2.3
	- GD ²		6.0	7.6	9.2
Recommended load to rotor inertia ratio		5 times or less			
Power supply capacity		KVA	1.7	2.5	3.5
Rated current		A	6.1	8.8	14
Maximum current		A	18.4	23.4	37
Speed/position detector		Encoder (resolution 16384 pulses per rev.)			
Structure		Totally enclosed, self cooled, IP65			
Weight		Kg	3.9	5.0	6.2



THE POWER TO INTEGRATE



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