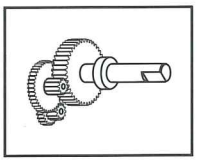
Features of a first quality motor

Characteristics		Benefits
Skewed lamination stack	→	**low cogging, high speed control range**
Unique brush rigging	→	**low noise, long brush life**
Low inductance	→	**low RFI, long brush life**
Thick magnets	→	**highly resistant to demag current**
All metal housing	→	**good thermal dissipation, RFI shielding**

Gearboxes



To adjust load torque and load speed requirements to the motor capabilities. A full line of gears is available.

Low cost integral gearboxes

Spur gear designs with uncentered output shaft

Type	Cont. torque	Available on
MGM 8000	0.7 Nm	M 8000
MGM 9000	1.2 Nm	M 9000
MGM 14000	6 Nm	M 14000

Please refer to the corresponding motor page for detailed informations.

High performance gearboxes

are selected for compact size, centered output shaft and long life requirements

Spur gearboxes

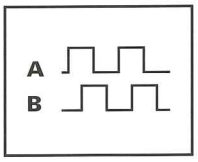
Type	Cont. torque
K 38	0.6 Nm
K 40	1.2 Nm
RG 1/8	0.6 Nm
RG 1/9	1.2 Nm

Planetary gearboxes

Type	Cont. torque
R 32	4.5 Nm
R 40	10 Nm

For detailed information, see pages 10 and 11.

Feedback options



Integral optical encoders

Integrally mounted, metal housed Hewlett Packard encoder modules, 2 or 3 channels TTL output. Optional differential line driver. The RPI option, or rotary pulse indicator, provides a 1 channel TTL output for speed control applications.

For ordering information and available number of lines, see page 11.

Tachogenerators

Analog feedback devices with iron core or ironless rotor design can be provided upon request.

Ordering information

The listing below provides ordering information for the motors M and integral gearmotors MGM.
To order a motor with a high performance gearbox (p 10 and 11) please specify motor and gearbox separately

MGM 9 2 3 2 2 R 24 V 19:1 2 C 500 L A212

MGM	Unit type	M = Motor; MGM = Gearmotor
9	Motor frame size	8 = 30 mm; 9 = 40 mm; 14 = 54 mm
2	Connection and mounting face	1 = leads, 3 holes; 4 = terminals, 4 holes; 2 = leads, 4 holes; 5 = leads, 2 holes; 3 = terminals, 3 holes; 6 = terminals, 2 holes
3	Magnetisation	Factory assigned. Refer to specification sheets
2	Motor length	1 = shortest; 7 = longest
2R	Motor bearing option	1R = 1 ball bearing; 2 R = 2 ball bearings
24 V	Motor voltage	
19:1	Gear ratio for MGM series	
	Encoder code:	
2 C	Number of channels	1C; 2C; 3C
500	Number of lines	(see table page 11)
L	Option	R = rotary pulse indicator; L = line driver
A212	Factory assigned suffix	