

DC BRUSH SERVO MOTORS



To accommodate your complete servo system requirements, Glentek manufactures two complete series (GM and GMR) of high performance, permanent magnet DC brush servo motors which are described as follows:

GM Series

The GM series utilizes traditional ferrite magnets which are ideal for cost sensitive applications. In addition, the higher inertia armatures provide improved motor to load inertia matching for medium to high inertia loads. This helps to reduce the mechanical shaft resonance which allows higher servo gains with increased stability. All frame sizes incorporate skewed armatures, which provide ultra smooth operation (i.e. low cogging torque) at all speeds. They range in continuous torques from 1.9 lb-in (0.21 Nm) to 113 lb-in (12.8 Nm) and peak torques from 12.0 lb-in (1.4 Nm) to 338 lb-in (38.1 Nm). Typical applications include factory automation machinery, fitness equipment (i.e. treadmills), labeling machinery, machine tools, material handling machinery, medical equipment (i.e. CAT scanners and PET scanners), packaging machinery, printing machinery, robotics, x-y tables, textile machinery, cost sensitive applications, applications which require smooth operation and/or applications which have medium to high reflected load inertias.

GMR Series

The GMR series utilizes high-energy Neodymium-Iron-Boron (NdFeB) magnets, which provide more torque in a smaller package with higher dynamic performance than traditional ferrite magnet designs. Due to the high torque to inertia ratio of these motors, they are ideal for applications which require high acceleration and deceleration characteristics or where the physical size of the motor is a major concern. They range in continuous torques from 16.0 lb-in (1.81 Nm) to 65.0 lb-in (7.34 Nm) and peak torques from 80.0 lb-in. (9.04 Nm) to 325.0 lb-in. (36.72 Nm). Typical applications include factory automation machinery, fitness equipment (i.e. treadmills), labeling machinery, machine tools, material handling machinery, medical equipment (i.e. CAT scanners and PET scanners), packaging machinery, printing machinery, robotics, semiconductor machinery, surface mount pick and place machines, x-y tables, textile machinery, applications which have low to medium reflected load inertias and require a high dynamic response, applications which require smooth operation and/or applications which require a lot of torque in a small mechanical form factor.

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