

BRUSHLESS SERVO MOTORS



To accommodate your complete servo system requirements, Glentek manufactures three complete series (GMB, GMBF and GMBM) of high performance, permanent magnet brushless servo motors which are described as follows:

GMB Series

The GMB series utilizes high-energy Neodymium-Iron-Boron (NdFeB) magnets which when combined with low inertia rotors, provide high dynamic performance. Due to the high torque to inertia ratio of these motors, they are ideal for applications which require high acceleration and deceleration characteristics. In addition, all frame sizes incorporate skewed stators which provide ultra smooth operation (i.e. low cogging torque) at all speeds. They range in continuous torques from 2.8 lb-in (0.32 Nm) to 1,092 lb-in (123.4 Nm) and peak torques from 8.4 lb-in. (0.95 Nm) to 3,276 lb-in. (370.2 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.

GMBF Series

The GMBF series utilizes traditional ferrite magnets which are ideal for cost sensitive applications. In addition, the higher inertia rotors 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. In addition, all frame sizes incorporate skewed stators which provide ultra smooth operation (i.e. low cogging torque) at all speeds. They range in continuous torques from 22.0 lb-in (2.49 Nm) to 75 lb-in (8.47 Nm) and peak torques from 66 lb-in (7.46 Nm) to 225 lb-in (25.42 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.

GMBM Series

Glentek introduces the newest member (GMBM series) of high performance, permanent magnet brushless servo motors to its complete line of servo motors. The GMBM series motors incorporate worldwide standard metric mounting configurations and have been tooled for high volume production which makes them easy to use and extremely cost effective. All frame sizes utilize high-energy Neodymium-Iron-Boron (NdFeB) magnets which when combined with low inertia rotors, provide high dynamic performance. Due to the high torque to inertia ratio of these motors, they are ideal for applications which require high acceleration and deceleration characteristics. In addition, all frame sizes incorporate skewed magnets which provide ultra smooth operation (i.e. low cogging torque) at all speeds. They range in continuous torques from 0.94 lb-in (0.11 Nm) to 378.8 lb-in (42.8 Nm) and peak torques from 2.82 lb-in. (0.32 Nm) to 1136.4 lb-in. (128.4 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 are cost sensitive, 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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