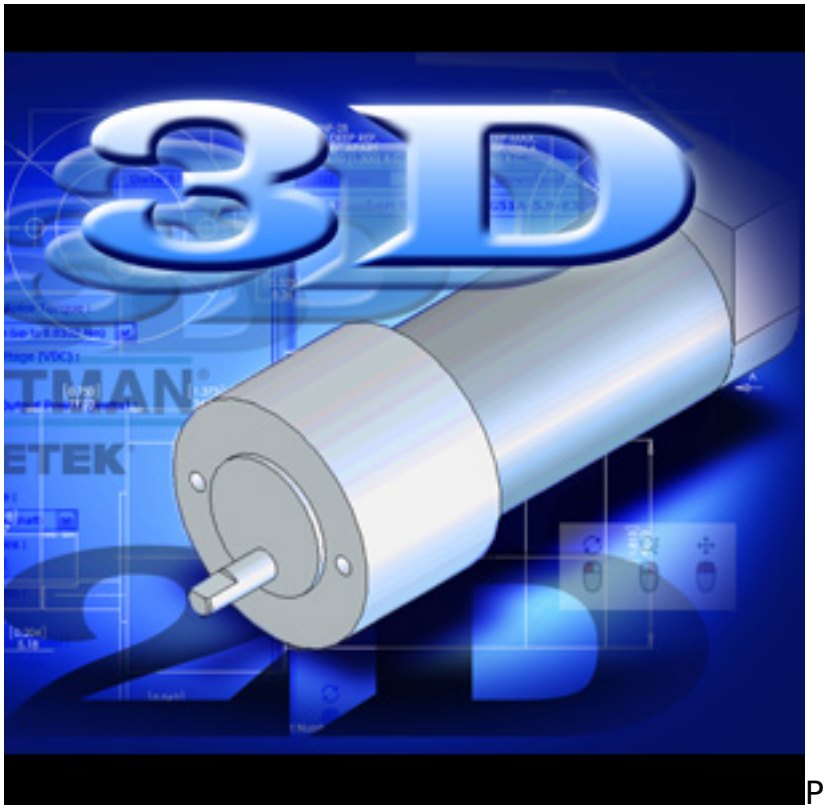
Configurable CAD models designed for DC brush motors



PITTMAN Motors has introduced configurable DC motor 3D model downloads. The 3D model system is an online system through the PITTMAN website (www.Pittman-Motors.com [1]) that allows an engineer to fully configure a DC brush motor with a wide variety of optional components such as planetary and spur gearboxes, brakes, and encoders.

The online 3D model system makes it very easy for an engineer to evaluate different part configurations in a virtual environment. The customer can configure a part by choosing such parameters as motor voltage, torque rating, gearbox ratio, and encoder resolution. After configuring a part as many times as necessary, the file can then be downloaded in the most commonly used CAD software file formats, including Solid Works, CATIA, and Pro/E. The file also can be downloaded in a vendor-neutral format such as an .IGS or .STP file. The system allows the creation of a fully dimensioned outline drawing generated directly from the configured CAD model.

After a virtual configuration is created using the online 3D model system, a product engineer can work closely with a Pittman applications engineers to create a more customized application-specific solution. Options include optimized motor windings, unique shaft configurations, various bearing systems, output devices such as pinions and pulleys, special lead wire assemblies, EMI/RFI suppression networks, and various other features. To discuss an application in more detail, engineers can be reached at 267-933-2105.

PITTMAN DC brush motors are available in a variety of sizes, torque and power ratings. Diameters range from 0.866-in (22mm) to 3.25-in (83mm) and torque output from 0.8 oz-in (0.005Nm) to 225 oz-in (1.588Nm) without a gear box. Both planetary and spur gearboxes are available for any DC motor diameter, greatly increasing the available torque output. Gear ratios up to 4732.5:1 are possible. A wide variety of encoder types are also available designed to meet just about any application requirement.

Product applications for Pittman motors are diverse and span a wide variety of high-tech industries, including medical instruments, laboratory automation, semiconductor manufacturing equipment, and laser and optics equipment, or just about any other application where precision motion is needed. For more information, visit www.Pittman-Motors.com [1].

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Links:
[1] http://www.Pittman-Motors.com