



Frameless direct drive motor

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Moog's direct drive brushless frameless motors are designed to operate over a range of speeds for a wide variety of military, aerospace and industrial applications. Different applications require unique configurations of mounting flanges, housings, output shafts and electrical requirements. Our motors have high torque-to-power and torque-to-inertia ratios, high linearity and low electrical time constants. Reliability and long life are hallmarks of our products and since these are brushless motors, there are no carbon brushes to wear out.

Moog offers a full range of products and a unique level of product support, including engineering development and aftermarket support. Whether torque motor or servomotor, frameless or housed, our applications engineers will assist you with your critical application requirements.

In today's military market, there are many applications where rugged industrial products are utilized to provide the functionality and reliability needed to meet or exceed the requirements in the field.

Moog has a variety of custom design options for frameless (pancake) motors. For example, winding designs to modify torque sensitivity, back EMF, DC resistance and inductance in the event a power source (voltage or current) is limited. Stack lengths can be varied (from 0.10 to 20.0 inches depending on the model) for tailored performance. For ease of installation, mounting flanges, hubs, mounting holes and connectors can be added.

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Allied Motion's Megaflux family of high performance frameless direct drive brushless torque motors includes 12 frame diameters ranging from 60 through 330 mm (2.4 through 13 inches) with multiple stack lengths for each diameter, insuring that one of our standard models will likely meet your exact requirements.

Modified standards and completely custom versions of Megaflux direct drive torque motors are often provided by Allied Motion to meet specific application demands. Contact us to discuss your requirements.

Mosrac is a leading technology company that specializes in manufacturing frameless brushless direct-drive torque motors. We have designed and produced several frameless direct-drive brushless motors, including a variety of 100+ standard models. Mosrac is also famous well known for its development of special and fully customized torque motors.

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