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A variation of this design is the hybrid motor, which combines a variable-reluctance motor with a stepper motor design. The primary difference is, in the stepper motor, the number of the rotor's permanent magnets (poles) increases to between 12 and 200 (30 o and 1.8 o respectively). The more poles, the greater the rotational resolution, but more more poles also lead to a more expensive design, as well as providing less torque.

A guide to stepper motors - Electronic Specifier
A Stepper Motor or a step motor is a brushless, synchronous motor which divides a full rotation into a number of steps. Unlike a brushless DC motor which rotates continuously when a fixed DC voltage is applied to it, a step motor rotates in discrete step angles. The Stepper Motors therefore are manufactured with steps per revolution of 12, 24, 72, 144, 180, and 200, resulting in stepping angles of 30, 15, 5, 2.5, 2, and 1.8 degrees per step.

Stepper Motor : Basics, Types and Working
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I. STEPPER MOTOR BASICS. A stepper motor is an electromechanical device which converts electrical pulses into discrete mechanical movements. The shaft or spindle of a stepper motor rotates in discrete step increments when electrical command pulses are applied to it in the proper sequence. The motors rotation has several direct relationships to the applied input pulses.

Selection Guide for Stepper Motors - Motion Control ...

Stepper motors are DC motors that move in discrete steps. They have multiple coils that are organized in groups called "phases". By energizing each phase in sequence, the motor will rotate, one step at a time. With a computer controlled stepping you can achieve very precise positioning and/or speed control.

What is a Stepper Motor? | All About Stepper Motors ...
A Stepper Motor or a step motor is a brushless, synchronous motor, which divides a full rotation into a number of steps. Unlike a brushless DC motor, which rotates continuously when a fixed DC voltage is applied to it, a step motor rotates in discrete step angles. The Stepper Motors therefore are manufactured with steps per revolution of 12, 24, 72, 144, 180, and 200, resulting in stepping angles of 30, 15, 5, 2.5, 2, and 1.8 degrees per step.

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