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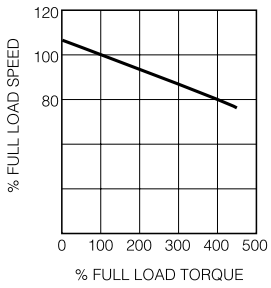
Direct Current (DC)

Another commonly used motor in industrial applications is the direct current motor. It is often used in applications where adjustable speed control is required.

Permanent magnet DC designs are generally used for motors that produce less than 5 HP. Larger horsepower applications use shunt-wound direct current motors.



DC motors can be operated from rectified alternating current of from low-voltage battery or generator source. This is a low-voltage design, which includes external connection lugs for the input power. With the rear end-shield removed, as in this view, the brush assemblies and commutator that form a DC motor's electrical heart are clearly visible.



Both designs have linear speed/torque characteristics over the entire speed range. SCR rated motors – those designed for use with common solid-state speed controls – feature high starting torque for heavy load applications and reversing capabilities, and complementary active material to compensate for the additional heating caused by the rectified AC input. Designs are also available for use on generated low-voltage DC power or remote applications requiring battery power.

Gearmotors

A gearmotor is made up of an electric motor, either DC or AC, combined with a geared speed reducer. Spur, helical or worm gears may be used in single or multiple stages. The configuration may be either that of a parallel shaft, emerging from the front of the motor, or a right-angle shaft. Gearmotors are often rated in input horsepower; however, output torque, commonly measured in inch-pounds, and output speed are the critical values.



Speed reduction gearing is visible in this cutaway view of a parallel-shaft gearmotor. Shown is a small, sub-fractional horsepower gearmotor.

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