Starting out: When do I use a DC servo motor controller?

If your application has a brushed or brushless DC motor, you require a DC servo motor controller to control the speed and torque as well as protect the motor from damage.

A DC servo motor controller is a device that operates on a rotary or linear actuator and allows the user accurate control of angular or linear position, speed and acceleration.

DC servo motor controllers are used for a variety of reasons:

**Manage speed and torque:** The speed of a motor will increase with a reduction in load; and decrease in speed when the load is heavier. Where the weight of the load is variable, a DC servo controller will sustain the motor at a consistent speed. Likewise the torque delivery is governed from the motors current. If left uncontrolled the motor can power large currents resulting in excessive torque that potentially could cause application failure, stall the motor or burn it out.

**Motor protection:** The DC servo motor controller serves to protect the motor from damage incurred by possible short circuiting, offers thermal protection, current-limit protection and safeguards against power surges.

maxon motor Australia has a dedicated web page featuring the range of DC servo motor controllers. To visit the page click on the link [http://www.maxonmotor.com.au/maxon/view/content/escon-detailsite](http://www.maxonmotor.com.au/maxon/view/content/escon-detailsite)

For more information call +61 2945 7477.

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The ESCON Module 50/5 is a small-sized, powerful 4-quadrant PWM servo controller OEM module for the highly efficient control of permanent magnet-activated brushed DC motors or brushless EC motors up to approximately 250 Watts.

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