DC motors for auto applications.

Small DC motors from KAG used in oil pump for hybrid cars.

A DC servo motor for use in vehicles requires special modifications to operate in the harsh environment. The supplementary oil pump used for starting and stopping a hybrid car when it comes to a halt for a given period of time is driven by a small DC motor. The pump circulates oil through the gearbox while the car is stationary to give instant acceleration when the car moves off. The DC motor and pump unit are located inside the engine bay near the cars gearbox and the temperatures here are quite high. The DC motor also needs to be modified to suit seals on its end flange to avoid oil ingress from the pump into the motor. KAG have developed a DC motor that is highly temperature resistant based on the standard M 48 series to suit the particular temperature range of the hybrid car engine bay. This required a shaft seal that was particularly suitable for the fluctuating ambient temperature and also reliable enough for a very long service life. Special quality control equipment has been developed to inspect every shaft for defects that could adversely affect the shaft seal. The motor is coupled directly into the pump housing without the need for additional mounting flanges. To achieve this the motor has been completely configured for the application with modifications to the shaft, flange and cable harness.

Contact maxon motor Australia for assistance with DC motors for automotive applications.

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Small DC motor for oil pump.

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