DC servomotor of the week.

This week we would like to show you a custom DC motor solution for a solar application.

Not just any normal DC motor would work in this solar application though. It is an industrial pumping application for the oil, gas and mining industries that required the highest possible efficiency and customised solutions to withstand the harsh environmental conditions of Australia’s remote deserts. The motor is a rare earth permanent magnet brushed DC motor. It is 40mm in diameter with a power rating of 150w continuous at the output. This motor is supplied with a special rhombic ironless winding that provides the advantages of zero cogging (no magnetic detent) for smooth and efficient motion control. The coreless rhombic motor winding also provides an optimum flux angle characteristic with the winding wires whilst maintaining a minimal air gap (one of the major points of loss in an electric motor) The commutator of the motor is manufactured with a high number of segments (13) and a small diameter to reduce the brush speed. This lowers the wear rate of the brush via less friction and less brush arcing. A custom rear cover and 1.5 metre long cable assembly were fitted to meet the customers’ requirements. The most important feature for this solar application is of course the efficiency, and this motor is rated with a benchmark efficiency level of 92%. The 113:1 planetary gearhead is manufactured with high tech ceramic running surfaces to give improved strength and efficiency to the power transmission.

Contact maxon motor Australia Pty Ltd for assistance with the customisation of DC servomotors.

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The media release is available on the internet at: www.maxonmotor.com.au

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