DC motor of the week. 22 Aug 2013

Small DC servo gearmotor that packs a punch.

Delivered this week to a customer using the motor in a stretcher lift application, this DC gearmotor features very high power density. At 65mm in diameter the gearmotor can produce 73Nm of torque when run on a 12V system and the current draw is a modest 10A. Intermittently, the gearmotor can produce torque levels beyond 75Nm. The RE65 DC motor has a continuous mechanical output power rating of 250W and an efficiency of 80%. The gearmotor combination achieves very smooth operation at low speeds, it has zero cogging (magnetic detent) on account of the ironless, coreless motor design. A high quality commutator system with 26 pole segments also assists to give smooth low speed motion and very low brush noise.

Custom DC gearmotors for each application.

The rare earth (RE) 65mm DC motor is catalogue specified to be assembled with an 81mm 120Nm gearhead, however this application is for the aerospace industry where every gram counts. So the customer conducted extensive testing using the standard 81mm planetary gearbox and was able to give maxon detailed current draw figures across the duty cycle of the equipment. With this information maxon was able to plot the corresponding torque levels onto the capability chart of the 62mm gearbox to determine the load levels were well below the levels that the gearbox could tolerate. So maxon designed and built a special mounting flange to couple the motor and gearbox together, creating the perfect match for the application.

Contact maxon motor Australia for assistance getting the selection right for your application. Phone our Sydney office on +61 2 9476 4777.

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