High torque low speed DC motor – custom made.

60mm diameter brushless flat motor with customisations for high torque and low speed making it suitable for accurate positioning requirements.

This new brushless DC flat motor is 60mm diameter and only 38mm long delivering 100W of power on a controlled 24V supply. The design is unique in that it combines a 14 pole motor wound in a three phase configuration that delivers a high torque and low speed. This brushless DC motor is also unique in that it has a 4096 count per turn encoder built inside the motor that does not contribute any additional length. Acting as a torque multiplier is a 52mm 936:1 ceramic planetary gearhead. In this example we have shown a version with a customised shaft that has both been turned down in diameter and machined with an additional flat. The gearhead ratio combined with the encoder resolution gives a position resolution of 3.8 million counts per revolution. This high torque and high positioning resolution makes the brushless motor suitable for positioning of heavy loads in the manufacturing industry or also for the accurate control of sensors or valves in fluid handling processes.

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