Tailor made brushless DC servomotor and planetary gearbox.

This small brushless DC motor displays the advanced miniature and micro motor manufacturing techniques of maxon motor. So small are the details it is hard to capture the modifications and quality. The example pictured is a 10mm diameter DC motor and planetary gearbox fitted with an encoder for speed and position control.

What’s new? Sure there are a lot of small DC motors available now days however it’s in the detail that defines the difference between motors. Pictured is maxon motors newest planetary gearhead range that has been selected because of its stainless steel construction. The body and flange of the gearbox are one piece allowing the design engineers to not only create a mounting flange specific to the mounting footprint available in the application, it also allows maxon motor to orientate the gearhead flange with the motor cable exit. Enabling a shorter cable and neater cable looms. Laser welding of the motor flange is also a technology that is used to affix a customer specific drive pinion to the shaft. This gives the strongest possible power transmission coupling in these miniature sizes. maxon motor provide its customers with complete drawings and models for appraisal before samples are manufactured even for non-standard DC motor and gearhead assemblies like the shown example.

The new 10mm gearhead can supply torque levels up to 200mNm and can operate with input speeds up to 15,000rpm. Standard supply is with stainless steel ball bearings, it has efficiencies as high as 90% and weight as low as 6.7g.

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