Quality and Control, for brushless motor assemblies

maxon brushless DC motors delivered this week give an instant quality indication.

The picture of EC-max brushless DC motor shown here is not a sample sent to a photo studio for marketing shots. The motor and gearhead combination is an actual product sent to our valued customer this week and the pictures were taken with a low cost smartphone. The combination consists of a Brushless DC servo motor, the maxon EC-max part number 272762 12V 60W 30mm diameter fitted with the planetary gearhead, GP32HP 324942 32mm diameter 246:1. The part numbers here are also interesting and part of maxon motors tight and efficient quality control. Neither the motor part number or gearhead part number is printed on the parts like one would expect, and there are some very practical reasons for this. Firstly, to achieve the smallest possible motor dimensions the gearhead drive pinion for the motor is laser welded to the motor shaft which avoids the need for a dedicated shaft input coupling on the gearbox. To reflect this change to the motor it is given a new part number 374770. By doing this if the motor needs to be replaced at any point years down the track, the customer will get the version that is already fitted with the gearhead drive hardware and not a motor with the standard smooth shaft from the catalogue. The same is applied in reverse for the gearhead. When the motor was modified in this way it was also printed with the number 1401760 for production and batch tracking and also the symbol <> indicating that the motor is RoHS compliant. Then the motor is assembled with the gearhead and if the entire device was given a combination part number 454272 and a new batch number 1401759. Similarly if the customer requires a custom motor modification then all changes are numbered and documented. It is easy at first glance to see that the motors are of high quality and finish; note the shaft finish. If you look a little closer you also note small details like the laser weld for the end flanges of the motor. This incredibly smooth high penetration welding is only achievable with the very best continuous flow laser welding equipment. A typical lower quality motor would have screwed in flanges, many plastic components on the motor body and air gaps visible. Attention to detail creates products that perform.

Contact maxon motor in Sydney for assistance with your motor application.

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