New DC motor - A reflection of quality.

After years at the helm the highly successful RE motor range tips its hat to the DCX.

Maxon motors premium range of DC motors – the RE (Rare Earth) motors have been and in many cases still are an industry benchmark in terms of quality and performance. First introduced in in the 1980’s the RE motors contained the highest powered Neodymium magnets available. They have solid single pce turned bodies and metal flanges containing the motors pre-loaded bearing system. Over the years the RE motors have been continually improved with the invention of maxon’s CLL system, welded shaft collars replacing c-clips and stronger magnet materials coupled with different magnet sintering and bonding techniques.

Now however, we see the biggest leap in the quality and performance of brushed DC motors since the RE motors first introduction - the new DCX motor range. The advancements have come about not by incremental improvements on existing motor technologies, but by a complete innovation in motor assembly techniques and primarily the development of robotic laser welding machines. In the example pictured here you will not see a single part of the motor that is bolted or pinned together. All affixations, shaft to bearing inner race, gearhead flange to gearhead body, motor to gearhead, etc. are robotically assembled and laser welded together. The result is a motor assembly that is smaller, more powerful and extremely robust. This robust construction and similar material matching (all stainless steel) make the motor and gearhead suitable for applications in various industries from food manufacturing technology / process technology / Aerospace technology / manufacturing plant or hand tool application areas, where high temperature fluctuations and high vibration can be experienced.

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