Media Release

Updated Range: Stand alone gearheads. Dual Shaft gearboxes.

maxon motor who already manufacture ceramic planetary gearheads for use in conjunction with DC brushed and brushless motors (gear motors), have traditionally supplied these precision planetary units only as gearmotor combinations. The increased efficiency and improved wear characteristics of maxon motor gear units have created a demand for them as stand alone items and not just in combination as a gearmotor.

Starting with the 22mm, 32mm, 42mm and 52mm ceramic planetary gearheads they are now available in double ended stand alone units. The 22mm gearhead has a 4mm hardened stainless steel shaft at both the input and output. The shaft can be configured with and without a flat. 32mm version planetary gearhead has a 6mm hardened stainless steel shaft at both the input and output. The 42 and 52mm diameter gearheads have a 12mm shaft with key and keyway. Shaft modifications are also possible on request. Reduction ratios on the smaller gearhead range from 3.8:1 through to a staggering 4592:1, the reduction range on the 32mm unit is even higher at 3.7:1 through to 6285:1. Example applications that require such configurations are where engineers are using a DC motor as a generator or a Brushless DC motor as an alternator. New energy experiments are requiring particular output power levels with extremely high or low input speeds. This requirement combined with space and weight restrictions has often been unachievable with the components commercially available. Especially given that gearing is often required and traditional planetary gearheads are not designed to be back driven. However new motor technology achieving levels over 700w from 32mm and a mass of only 730g or even 240w, 230g, 22mm can now be used as generators with a wide range of input speeds by simply turning the gearhead around. The ceramic planetary gearheads have high natural efficiencies and the motors are zero cogging with no electromagnetic detent. The results are some of the smallest generator and alternator units with low mass, low mechanical friction, low inertia and highest efficiency available. For more information on these application specific gearing solutions please do not hesitate to contact maxon motor Australia.

This media release is available on the internet at www.maxonmotor.com.au

Picture: Dual shaft gearbox

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