

June 02, 2020

Press Release

maxon all in one motor.

Brushless DC flat motor with integrated motor controller.

maxon motor's versatile modular system which allows engineers and machine builders to select from a wide range of DC motor, encoder and gearbox parts, to create a motor sub-assembly system for project specific needs, also now incorporates controllers. The range of brushless DC flat motors with internal hall sensors and outrunner external rotors give an excellent torque advantage created by the lever arm effect of having the normally fixed permanent magnets in a ring to form the motor rotor. This creates for a very short motor giving the opportunity for locating the brushless motor control unit in this saved space. Pictured here is the maxon 45mm 30W 72.8mNm brushless DC flat motor which uses hall sensor feedback for speed regulation by the internally selectable motor controller option. The advantage of using a controller factory fitted inside is all gain and motor value configuration is pre-done for perfect performance matching. The end effect is a two wire system that for all intents and purposes appears and performs like a two wire brushed DC motor. Further amplification of the motor torque is achieved by a ratio selectable range of planetary gearboxes. Pictured is a 42mm Ceramic Planetary gearhead with a range from 3.5:1 to 1296:1 reductions giving a high torque output of up to 22.5Nm. The assembly has an overall length of just 101.7mm for the entire combination of brushless motor, sensor feedback, control unit and planetary gearbox. Common system voltages of 12V, 24V, and 48V are selectable or you can contact maxon motor Australia for assistance with a custom winding to give the exact K/V levels on a brushless DC motor for your application requirements.

maxon motor Australia tel. +61 2 9457 7477.

Length of this update: 286 words

The press release is available on the internet at: www.maxongroup.net.au



Brushless DC flat motor with integrated motor controller © maxon Group

maxon motor Australia Pty Ltd
Unit 1, 12-14 Beaumont Road
Mt Kuring-Gai NSW 2080

Tel: +61 2 9457 7477
sales.au@maxongroup.com
www.maxongroup.net.au
Twitter @maxongroupAus

The Swiss specialist for quality drives

maxon is a developer and manufacturer of brushed and brushless DC motors, as well as gearheads, encoders, controllers, and entire mechatronic systems. maxon drives are used wherever the requirements are particularly high: in NASA's Mars rovers, in surgical power tools, in humanoid robots and in precision industrial applications, for example. To maintain its leadership in this demanding market, the company invests a considerable share of its annual revenue in research and development. Worldwide, maxon has more than 3000 employees at nine production sites and is represented by sales companies in more than 30 countries.