Custom brushless DC motors with integrated controller.

For serial production maxon motor can customise almost every feature of their small DC motors, not only the motor shaft and mounting holes.

maxon motor produce a range of brushed and brushless DC motors. In brushless DC motors there is a vast variety of styles to choose from including star and delta wound brushless DC, Inrunner and outrunner brushless DC and flat motors (also known as pancake motors). A vast majority of the motors that maxon supply are customised or modified to suit the application. More often than not a customer will need a specific shaft length, a shaft flat, 2 flats, square or even hex shaped shaft. The mounting configuration of the motor flange can be changed for larger or smaller motor mounting bolts and the cable and connector configurations are also a common modification. maxon motor are also a manufacturer of very fast and accurate brushless DC motor control units. These motor controllers are often also customised but what many people may not be aware of is the possibility of combining all this flexibility into one single brushless motor and controller package. Here we have an example of a flat brushless DC motor that has had a shaft and housing modification to suit a hand tool application. The motor has been manufactured with a motor speed control unit assembled between the external rotor (outrunner) and the front mounting flange. This control unit has some other very distinguishing features. The ability of maxon motor to modify the firmware parameters to suit the load conditions has given the customer the option to also modify the acceleration ramps, current and torque thresholds, Speed constant (rpm/V) and many other motor operations.

Contact maxon motor Australia for help selecting the perfect motor for your application

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