Fitting the mould - Small DC motor customised for existing tool shape.

Old meets new with this customised small DC gear motor supplied by maxon motor Australia. Utilising the very latest motor technology on a gearhead profile that has been around for many years.

This small dc motor is a 12mm, 12V winding from the maxon DCX range. The DCX motors are the newest product range from maxon motor that feature very high power density and flexibility of supply with a large range of modifications possible. Normally a 12mm diameter motor would be fitted with a corresponding 12mm planetary gearhead that would match the applications required speed and torque levels. For this application the Australian customer had an exiting moulded part to suit a very old design 16mm gearhead. maxon motor Australia have worked extensively on the application requirements and have configured modern quality and performance into the old style gearhead shape. Custom motor and gearhead flanges were developed to maintain the profile of the old style whilst greatly improving the gearmotor output speed and torque. When developing modifications of this nature it is not satisfactory to simply change a dimension without fully understanding the consequences for the motor. Even something as simple as a an adaptor plate will need to have the applied forces modelled and evaluated before the design concept can be approved. This is a small step that helps define the quality of suppliers and their products.

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