

Customisation options deliver drop-in replacements for hard-to-source motors

With a number of manufacturers having dropped the availability of DC servo motors from their catalogues, designers of critical equipment in areas such as medical, military and industrial applications have had to face the prospect of rethinking their designs around an alternative motor. But Intelligent Motion Control (INMOCO) can offer drop-in replacements for a huge number of these motors thanks to the customisation options on their range of brushed DC servo motors.

INMOCO, with over 30 years of experience supplying high reliability DC servo motor designs, has models available in frame sizes of 63mm, 75mm, 114mm and 165mm, offering torques from 0.2Nm up to 30Nm and output speeds from 3500 to 8000rpm. They are designed to provide reliability, dependability and long life in today's most challenging applications, but what makes them really interesting is the range of customisation options.

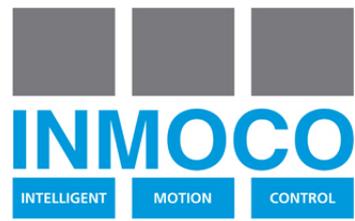
Motor shafts can be fully customised, to different diameter and length, with or without keyway, and with flexible options for rear shaft extension. Similarly, a wide range of flexible round or square flange mount options can be specified, not only in different sizes/diameters but also with different pilot/spigot diameters and lengths, and custom bolt diameters.

Customisation possibilities also extend to the winding, which can be optimised for different supply voltages, and to the connection options, where designers can specify flying leads, terminal box or connectors. Similarly, a range of different feedback options can be accommodated, including tacho generator (with various voltage options) or encoder – with various line count options and complementary signals.

To meet various environmental requirements of specific applications, the motors can be specified with or without shaft seals, and in IP ratings of IP54, IP65 and IP67. For use in corrosive environments, special coatings are available to provide additional protection.

The options allow the motors to be tailored to the exact specifications of a huge range of popular DC servo motor alternatives, thus providing a drop-in replacement for existing designs or for refurbishment projects where a brushed DC servo is preferred but where the OEM original is no longer available. 'We have always monitored developments in the market, so are well placed to offer advice on good alternatives options to motors that are hard to source.

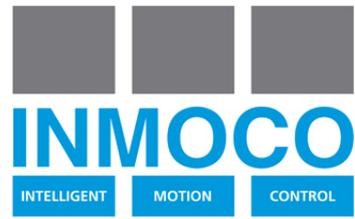
These rugged motors have been proven in many environmentally challenging applications and employ rare earth magnets in every model for reliable long-term performance. The four motors in the range are: 63mm frame, with output torques from 0.2-0.4Nm and speed up to 8000rpm; 75mm frame size, with output torques from 0.4-1.6Nm and 6000rpm maximum speed; 114mm frame size with output torques from 2.0-8.0Nm, and 5000rpm maximum speed; and 165mm frame size with output torques from 10-30Nm, and maximum speed of 3500rpm.



About INMOCO

Established in 1987, INMOCO now offers an extensive range of motion control equipment including: compact servo amplifiers, position controllers, stepper motors, PLC controllers, linear motors, sensors, electric actuators and gearheads. INMOCO's product portfolio is supported by extensive applications and technical expertise, in addition to customer-specified electro-mechanical development and sub-assembly services; including calibrating and testing in a class 10,000 clean room facility.

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