Configurable DC Drives

The DCX motors have precious metal or graphite brushes and may be equipped with standard preloaded ball bearings or sintered bearings and cover a large voltage range with six different ironless windings. With the new housing, almost all mechanical configurations are possible. The mounting flange can be fully configured. This includes the thread diameter, position and number of mounting holes as well as the dimensions of the centering collar. For use in small spaces, the DCX motor is also available in a short configuration without a flange. The length and diameter of the output shaft can be selected, with or without flat. The DCX motors can also be ordered with cables or with terminals. Cables are available in various lengths and with connectors.

New gearheads and encoders have also been developed for the DCX motors. The GPX22 gearhead consists of individually configurable gear stages and is now even quieter and even more robust than equivalent sized gearheads. With a laser weld, the gearhead interface is joined seamlessly to the DCX motor. The GPX gearheads also come with a configurable flange. The output shaft is available in different lengths, with or without a flat, and even with cross holes or a key.

Matching maxon ENX encoders feature a strong industrialized design and high signal quality. The ENX QUAD encoder is a single-pulse, 2-channel encoder. It is ideal for speed and direction detection. With a built in ESD protection network, reverse polarity protection, cable strain relief and the robust design, it is an economic choice for simple closed-loop tasks. The ENX EASY is a 3-channel encoder with line driver. A resolution of up to 1024 pulses per revolution can be selected. Thanks to the line driver and high resolution, it is an excellent choice for high-precision position and speed control applications. The cables of the ENX encoder are configurable in seven lengths, from 50 mm to max. 1000 mm.

When combined together, the maxon DCX, GPX and ENX form a high-precision,

robust drive system ideal for any application from aerospace to medical to robotics. In fact anywhere that requires a compact, powerful, quiet and strong drive system. With just a few clicks of the mouse, it is possible to configure a powerful DCX drive with reliable and a fast delivery. In addition, detailed product data may be viewed immediately online and 3D CAD data for the configuration is available for downloading.

maxon precision motors
www.maxonmotorusa.com [1]

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