NEW: Screw actuator linear drive system.
maxon motor have released a small DC motor driven linear actuator system with an integrated thrust block bearing system and high tech ceramic materials.

Smaller with ceramics.
To supplement the small 8mm and 16mm diameter brushed and brushless DC motors from maxon motor, the new planetary gearheads with integrated linear drive actuator; the GP8S and GP16S have been released. In order to develop high linear force levels from the smallest possible size DC motor, maxon have used ceramic threads for the linear transmission. The linear drives can transmit forces up to 315N. The high axial loads are are taken up with an integrated thrust block system that contains two pre-loaded radial bearings that are separated by two axial bearings. The bearing system that compensates for the axial loads is integrated into the housing of a planetary gearhead, with a wide range of available reduction ratios. Combining the reduction ratios with the thread or ball screw pitch and the different servomotor winding voltages makes it possible to achieve almost any combination of speed and torque within the system capabilities. The ceramic components offer improved sliding friction characteristics and as such have higher levels of wear resistance than traditional metal threads. This gives them longer lifespan and higher overall system efficiencies. The units are compatable with the maxon modular system allowing it to be used with small encoders and a full range of miniature servomotor controllers and positioning electronics.

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