

Electro-Mechanical Actuator

Landing Gear Actuator

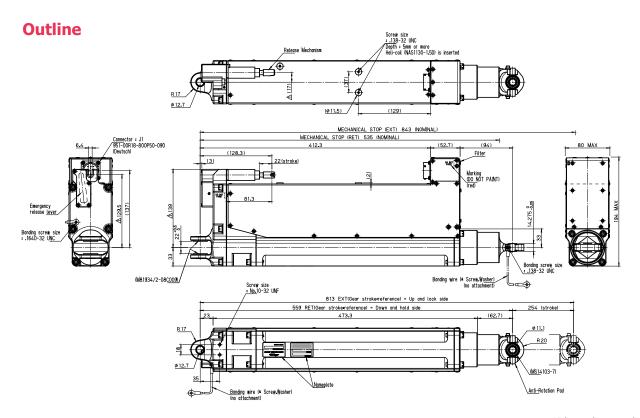
Description

Recently, electrical landing gear actuation becomes popular for middle & small size of aircrafts. This is made with ball screw, and extracts/retracts landing gear with automatic control of gear up/down and pre load. Gear train reduces brushless motor output to amplify its torque, and then rotational motion converts to linear motion by ball-screw. In case of emergency, free-fall system allows landing gear to fall by the own weight by pilot's manual lever operation.



Applications

- Landing Gear System (Extraction / Retraction)
- Landing Gear Door (Open / Close)



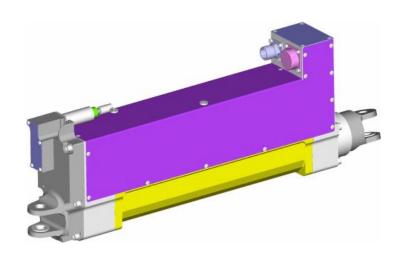
*Dimensions are in mm



Specifications

Туре	Linear Actuation (Ball-screw)
Input Voltage	28 V (18 to 32 V)
Current	45 A MAX
Stroke	254 mm (10 inches)
Rated Load (Operating Load)	19.6 kN (4,400 lbs)
Limit Load	31.9 kN (7,170 lbs)
Operating Speed	15.5 mm / sec (0.61 in / sec)
Mass	8,500 g (18.7 lbs)

Structure



Block Diagram

