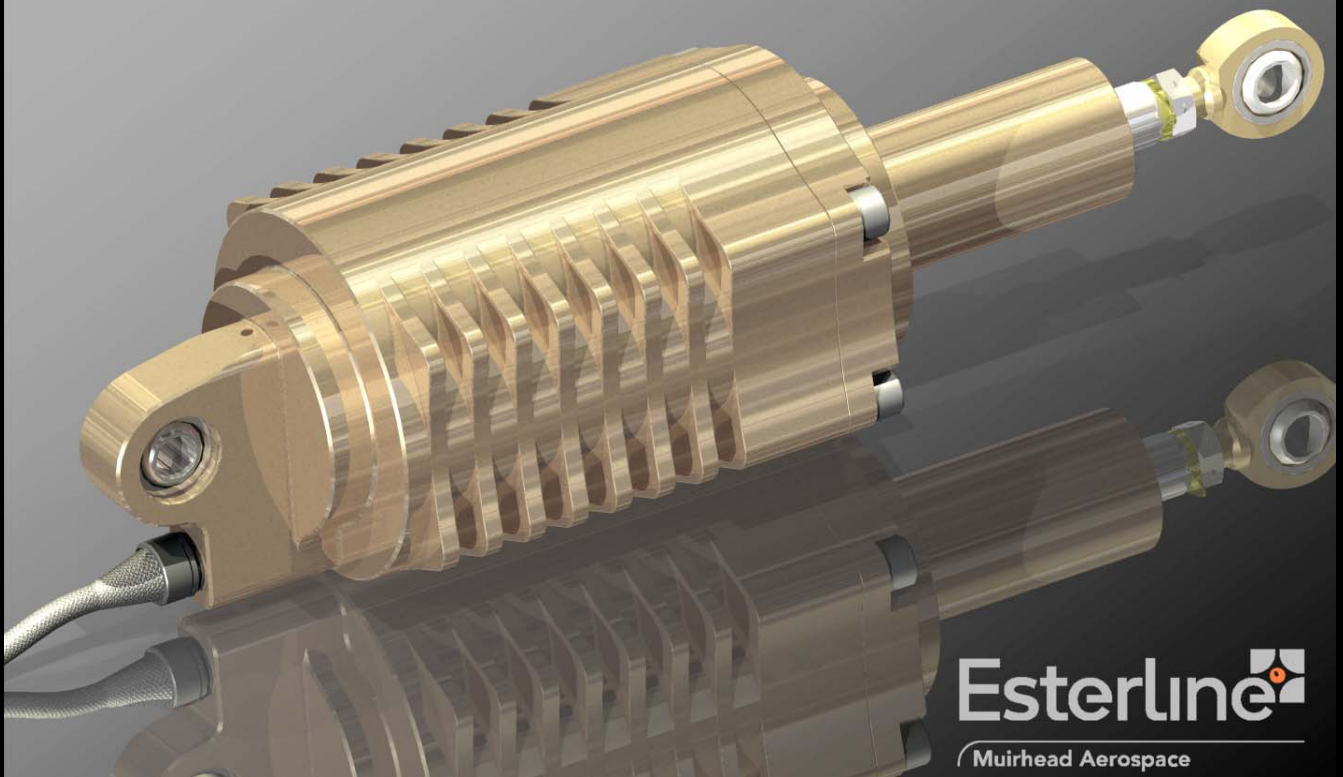


### 117PE101 Specification

Motor Type	3 Phase Brushless		
Winding Type	Dual Channel , Redundant Wound, Fault Tolerant design		
Commutation Sensor	Field Director / Dual Field Director		
Stroke	100mm	3.94 in	
Nominal Linear Speed	133mm / sec	5.25 in / sec	
Nominal Force	12.73 kN	2863 lb	
Force (at reduced rate)	40 kN	8990 lb	
Accuracy	± 0.25% of full stroke		
Actuator working temperature	Continuous	-55°C to 125°C	- 67 to +257°F
	10% of life	250°C	482°F
Degree of Protection	IP67		
Operating Voltage	270 Vdc		
Weight	6.4kg	14.08 lb	
Diameter	123.5mm	4.86 in	
Length Retracted	383.5mm	15.09 in	
Length Extended	483.5mm	19.03 in	
Life	50,000 hours on aircraft		

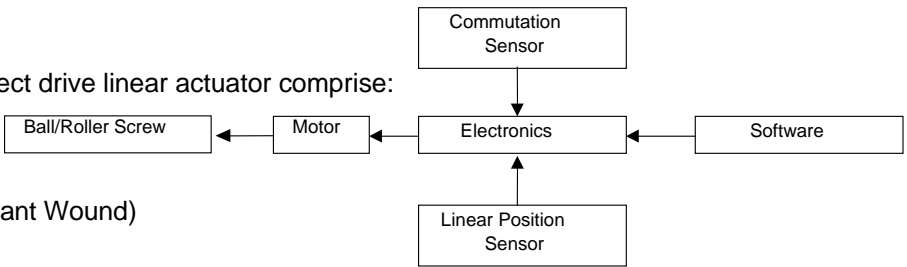


**Esterline**  
Muirhead Aerospace

### Major Components

The major components of a direct drive linear actuator comprise:

- Ballscrew/Rollerscrew
- Commutation Sensor (Dual)
- Linear Position Sensor (Dual)
- Brushless DC Motor (Redundant Wound)
- Local Electronics (Optional)



### Levels of redundancy

For Actuator Sensor, shall have the following levels of redundancy

