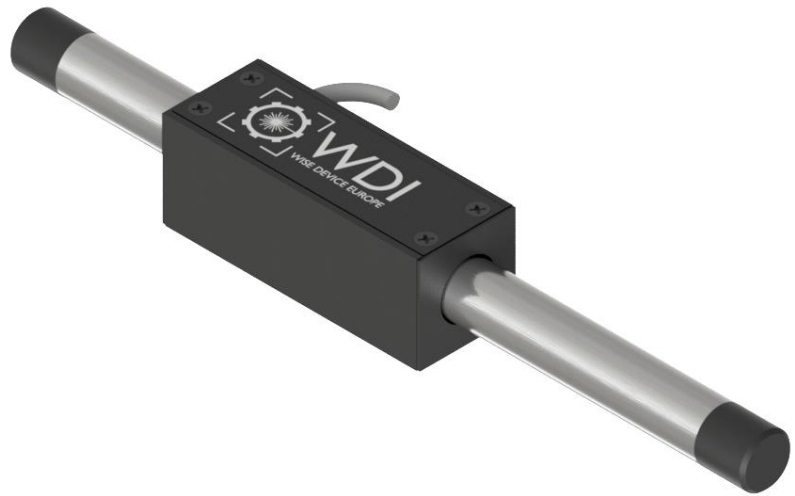


INFORMATION

The Linear Motor is a high precision direct drive linear servomotor. It is optimal solution for linear movement, where precision and speed, together with reliability and zero maintenance are needed. Linear Motor consists of only two parts, a magnetic shaft and a forcer. Between them there is a gap – no contact no friction. They can generate a high force comparing to size.



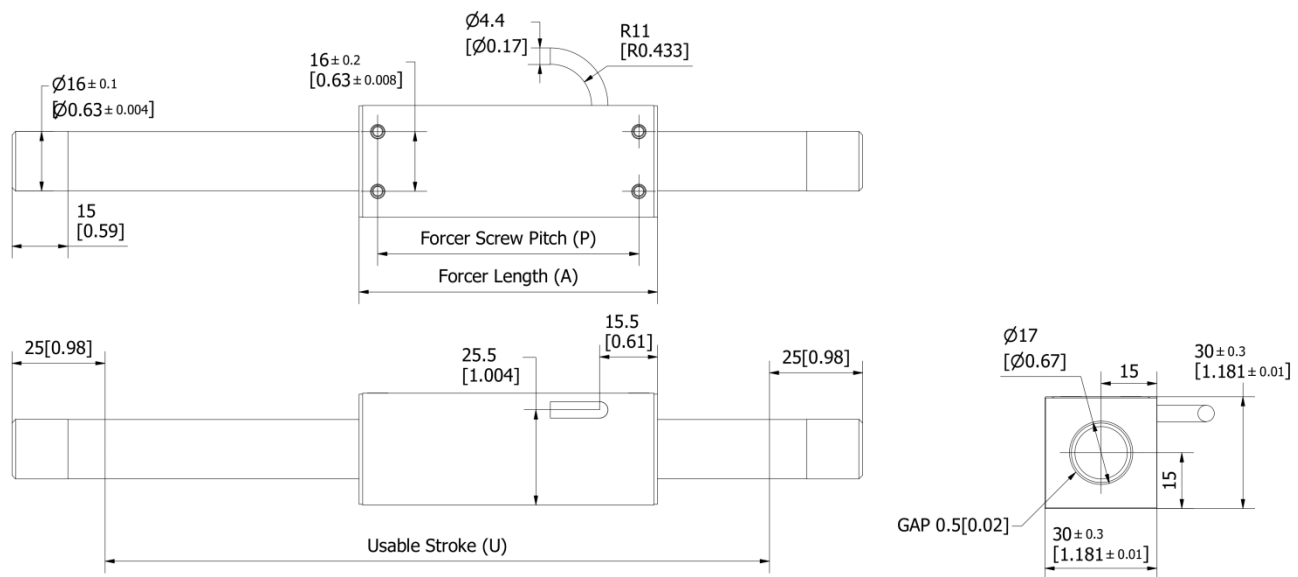
Features of Linear Motors:

- High precision *
- High speed (greater than 10m/s)
- High acceleration
- Low speed drive *
- No speed fluctuation
- Quiet – due to the absence of friction

* the precision of repetitive positioning depends on the resolution of the linear encoder same as low speed drive

MAIN ELECTRICAL / MECHANICAL SPECIFICATIONS

	LM160D	LM160T	LM160Q
CONTINUOUS FORCE	10N [2.25lbs]	15N [3.37lbs]	20N [4.50lbs]
PEAK FORCE	40N	60N	80N
FORCER LENGTH (A)	80mm [3.15in]	110mm [4.33in]	140mm [5.51in]
FORCER WEIGHT	0.15kg	0.20kg	0.30kg



ELECTRICAL SPECIFICATIONS

	LM160D	LM160T	LM160Q
CONTINUOUS CURRENT	0.6Arms	0.6Arms	0.6Arms
PEAK CURRENT	2.5Arms	2.5Arms	2.5Arms
FORCE CONSTANT	16N/Arms	24N/Arms	33N/Arms
BACK EMF	5.4V/m/s	8.1V/m/s	11V/m/s
RESISTANCE 25°C	21Ω	33 Ω	43Ω
INDUCTANCE	8.2mH	12mH	16mH
FUNDAMENTAL MOTOR CONSTANT	3.51NvW	4.20NvW	4.98NvW
MAGNETIC PITCH (NORTH-NORTH)	60mm	60mm	60mm

THERMAL SPECIFICATIONS

	LM160D	LM160T	LM160Q
MAX PHASE TEMPERATURE	135°C(275°F)	135°C(275°F)	135°C(275°F)
THERMAL RESISTANCE (COIL)	13.6°C/W	8.7°C/W	6.7°C/W

STANDARD TEMPERATURE DIFFERENCE BETWEEN THE COIL AND FORCER SURFACE 15°C

MECHANICAL SPECIFICATIONS

	LM160D	LM160T	LM160Q
FORCER SCREW PITCH	70mm	100mm	130mm
GAP	0.5mm	0.5mm	0.5mm