

# LC1600 - Specifications



## Standard Features and Benefits

- For medical and ergonomic automation applications
- Self-supporting column in extruded, anodized aluminum
- Low weight and extremely quiet operation
- Thomson Whispertrak™ drive technology
- High load torque capability
- Maintenance free
- Dynamic braking and load-holding brake
- Electronic limit switches and mid-stroke protection

## General Specifications

Parameter	LC1600
Screw type	trapezoidal
Internally restrained	yes
Manual override	no
Dynamic braking	yes
Holding brake	yes
End-of-stroke protection	electronic limit switches (ELS)
Mid-stroke protection	yes
Motor protection	no
Motor connection	cable
Motor connector LX version NX and NE versions	flying leads Molex 8-pin plug
Certificates	CE
Options	ELS encoder position feedback
Compatible controls <sup>(1)</sup> DCG-154 DCG-254	operation of single unit synchronous operation of two units

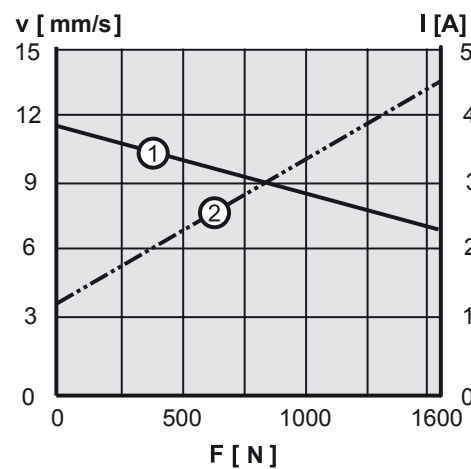
(1) See page 14 for more information.

## Performance Specifications

Parameter	LC1600
Maximum load [N]	1600
Maximum load torque, dynamic / static [Nm]	200 / 500
Speed, at no load / at maximum load [mm/s]	11 / 6.5
Available input voltages [VDC]	24
Standard stroke lengths (S) [mm]	200, 250, 300, 350, 400
Operating temperature limits [°C]	0 to +40
Full load duty cycle @ 20°C [%]	10
Maximum on time [s]	60
Maximum sound level [dB]	45
Lead cross section [mm <sup>2</sup> ]	1.5
Standard cable length [mm]	LX version NX and NE versions
	900 1900
Protection class	IP44

## Performance Diagram

Speed and Current vs. Load

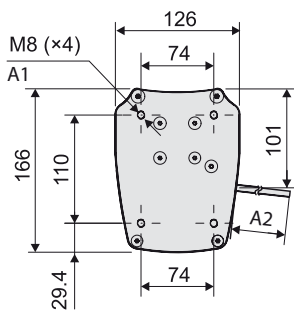
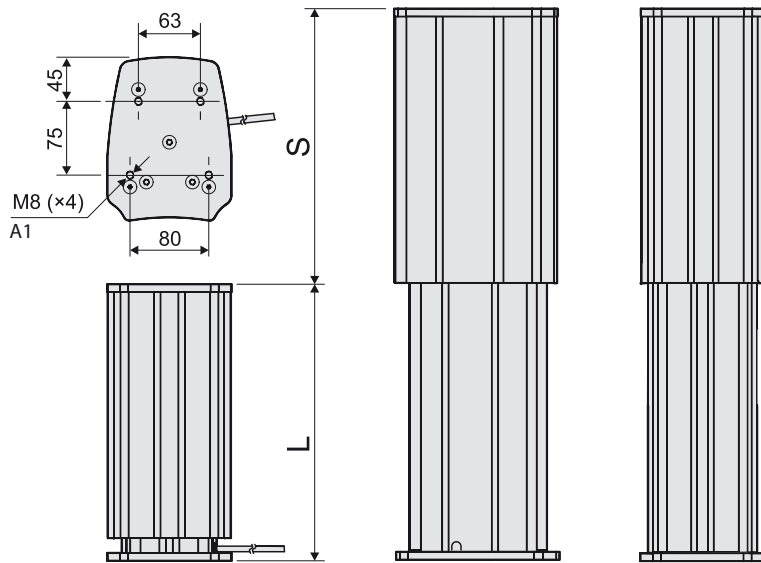


V: speed I: current F: load

1: speed  
2: current

# LC1600 - Dimensions and Performance

Dimensions	Projection
METRIC	



S: stroke  
 L: retracted length  
 A1: mounting screws must not enter deeper than 10 mm.  
 A2: LX version cable length = 900 mm, NX and NE versions = 1900 mm.

## Ordering Stroke, Retracted Length and Weight

The desired ordering stroke (S) will determine the minimum retracted length (L min) and the weight of the unit. The table provides the corresponding minimum retracted length (L min) and weight values to each of the available standard stroke lengths (S).

Stroke, retracted length and weight relationship						
Ordering stroke (S)	[mm]	200	250	300	350	400
Minimum retracted length (L min)	[mm]	380	430	480	581	631
Weight of unit	[kg]	9.1	9.8	10.5	11.8	12.4