Illustrative image

DREAMFUSION TECHNOLOGIES · CHENNAI, INDIA

SL250

7000 N BLDC Linear Actuator
250 mm stroke

A compact IP65-rated linear actuator with a 7000 N dynamic load, a 24 V, 120 W brushless DC motor, Hall sensors and built-in limit switches, with a shorter 250 mm stroke.

BLDC · IP65 · HALL SENSORS · LIMIT SWITCHES



7000 N	6 / 4 mm/s	IP65	24 V BLDC	3 Hall	2 built-in
DYNAMIC LOAD	FREE / FULL-LOAD SPEED	INGRESS PROTECTION	120 W MOTOR	MOTOR SENSORS	LIMIT SWITCHES

Typical applications

- **Solar trackers** – Panel-tilt and positioning drives.
- **Greenhouse and vent control** – Vent, window and shutter operation.
- **Gates and barriers** – Gate, door and access-control operation.
- **Furniture and adjustable beds** – Height and position adjustment.
- **Industrial automation** – Machinery and motion-control tasks.

Examples only. Suitability for a given application must be confirmed in quotation.

Key features

- **7000 N** dynamic load capacity
- **24 V, 120 W BLDC motor** with 3 Hall sensors
- Motor controller of exclusive design
- **2 limit switches** built in
- **IP65** extruded aluminium profile tube (6063), silver grey
- Halogen-free, 8-core copper motor cable (OD 11.5 mm)
- Synthetic paste base grease
- Operating temperature −10 °C to 55 °C



Production batch of Dreamfusion linear actuators.

Safety & warranty notes

Read the manual, wear suitable PPE, mount securely and disconnect power before installation or maintenance. Do not exceed the rated load.

Warranty: 1 year against manufacturing defects. Misuse, incorrect installation, unauthorised modification or use outside these specifications may void it. Returns require an RMA number from Dreamfusion.

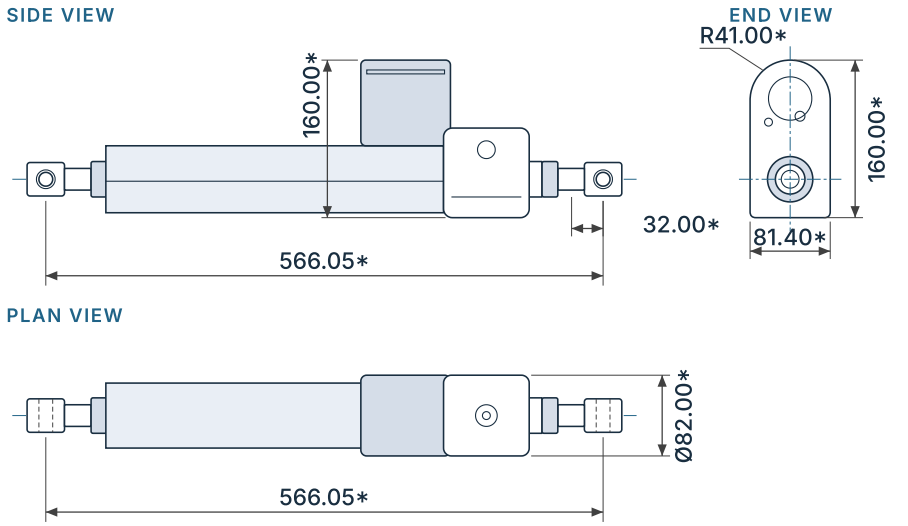
Founded 2018	Chennai, India	Exclusive design	Direct support
Dreamfusion Technologies Pvt Ltd	Designed and built in-house	Motor controller	WhatsApp or email, see page 2

Technical specification

MECHANICAL	
Model	DF-LA-SL250
Stroke length	250 mm
Front end mounting	DIA14 square connector, adjustable hole
Rear end mounting	DIA14 square connector, adjustable hole
Dynamic load capacity	7000 N
Free-load speed	6 mm/s
Full-load speed	4 mm/s
Housing	Extruded aluminium profile tube 6063
Housing colour	Silver grey
IP class	IP65
Special grease	Synthetic paste base

MOTOR & ELECTRICAL	
Motor	BLDC
Motor voltage	24 V
Motor power	120 W
Motor torque	1.2 Nm at full load
Motor current	No load 1.8 A; full load 3 A
Full-load current	≤ 10 A
Motor sensors	Hall sensors, 3 nos
Motor controller	Exclusive design
Limit switches	2, built in
Motor cable	OD 11.5 mm, 8-core Cu, halogen free
Motor temp. range	-10 °C to 65 °C
Operating temp. range	-10 °C to 55 °C

Dimensional drawing



KEY DIMENSIONS	
Stroke	250 mm
Total length	566.05 mm*
Height	160.00 mm*
Plan width	Ø82.00 mm*
End width	81.40 mm*
End radius	R41.00*

* Derived from the SL650 drawing; to be verified.

All dimensions in mm. * Derived from the SL650 drawing by Dreamfusion engineering – to be verified before use in a design.

CONNECTOR & WIRING	
Cable	8-core Cu, OD 11.5 mm, halogen free
Power cores	3
Communication cores	5
Hall sensors	3 nos
Limit switches	2, built in
Pin-out, connector	Confirmed in quotation

ORDERING	
Model code	DF-LA-SL250
Stroke	250 mm
Supply	24 V DC
Custom stroke / fittings	Enquire
Cable length	Confirmed in quotation
Lead time and price	Confirmed in quotation

CONTACT

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Specifications subject to change; confirm in quotation.