

DREAMFUSION TECHNOLOGIES · CHENNAI, INDIA

# SL250

## 7000 N BLDC Linear Actuator 250 mm stroke

The same 7000 N dynamic load, 24 V, 240 W brushless DC motor, Hall sensors, built-in limit switches and IP65 housing, with a shorter 250 mm stroke.

BLDC

IP65

HALL SENSORS

LIMIT SWITCHES



**7000 N**  
DYNAMIC LOAD

**6 / 4 mm/s**  
FREE / FULL-LOAD  
SPEED

**IP65**  
INGRESS  
PROTECTION

**24 V** BLDC  
240 W MOTOR

**3** Hall  
MOTOR SENSORS

**2** built-in  
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, 240 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**

Dreamfusion Technologies Pvt Ltd

**Chennai, India**

Designed and built in-house

**Exclusive design**

Motor controller

**Direct support**

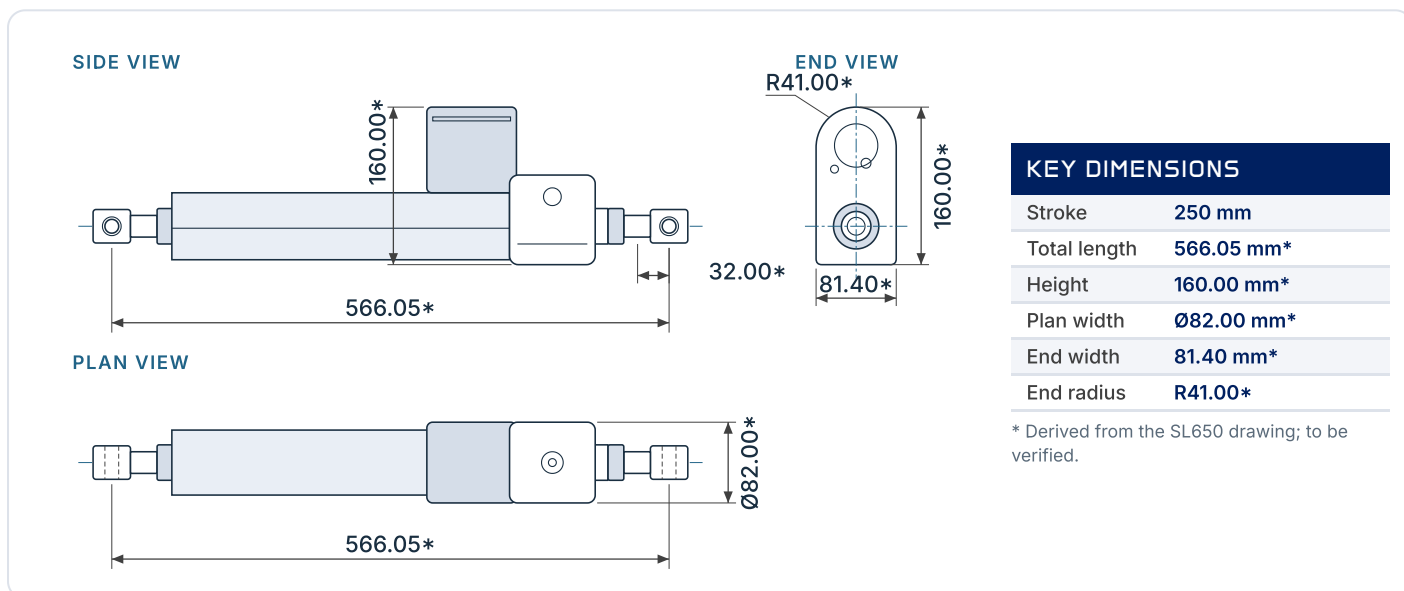
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## Technical specification

| MECHANICAL            |                                         |
|-----------------------|-----------------------------------------|
| Model                 | DF-LA-SL250                             |
| Stroke length         | 250 mm                                  |
| Installed length      | Confirmed in quotation                  |
| 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           | 240 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



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.