# SRE-3000 Elan Straight Rail Stairlift

## Technical Specifications

**MODEL NUMBER:** SRE-3000  
**ETL-Intertek C-US Listed:** Control Number: 4004689

### PERFORMANCE STANDARDS:
- **PRIVATE RESIDENCE ONLY**  
- **ANSI/ASME:** A18.1-2005 (Sec. 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
- **ANSI/ASME:** A18.1-2008 (Sec. 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
- **ANSI/ASME:** A18.1-2011 (Sec. 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
- **ANSI/ASME:** A18.1-2014 (Sec. 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
- **CSA B613 Private Residence Lifts**  
- **ANSI/ASME:** CSA B44.1/ASME A17.5 Elevator and Escalator Electrical Equipment

### RATED LOAD: 300 lb (136 kg) maximum

### NUMBER OF PASSENGERS: 1

### POWER SOURCE: 24VDC comprised of 2 each 3AH 12 volt sealed maintenance-free lead acid batteries; On/Off power switch to prevent battery drain over lengthy storage periods

### CHARGER: 105-230VAC/1.5 A input, 24VDC/1 A output continuous monitoring, full primary cut off

### DRIVE: 24VDC, 16A direct drive self-locking positive geared motor, 2 pole rated 442 lb-in (50Nm) torque, 25.5 rpm output speed, with right angle worm gear box (0.18 HP max.)

### FINAL DRIVE: integrated 8dp gear rack on rail with a spur gear on the gearbox output shaft

### MOTOR CONTROLLER: custom 24VDC PWM controller with acceleration ramping

### BRAKING: dynamic motor braking through the motor controller, worm gear box, electro-mechanical motor brake and overspeed protection

### CALL/SEND CONTROL: infra-red wireless control; momentary switching requiring a user to continuously hold button to control unit

### ARMREST CONTROL: 3-position, momentary rocker switch requiring user to continuously hold rocker switch to control unit; switch mounted under armrest

### SUPPORTS: clamps anchored to stair tread; normal rail position is 2” (50.8 mm) above step nose; number of clamps dependent on the length of rail; optional height-adjustable clamps available

### ANGLE: 22° to 45° (specials up to 52°)

### SPEED: maximum top speed 18 ft/min (0.09 m/s); actual speed varies depending on rider weight

### LENGTH OF TRACK: 15 feet 9 inches (4.9 m) and 19 feet 8 inches (6.1 m) standard; dealer to cut to fit the actual length of the stair (see application guide)

### TRACK CONSTRUCTION: aluminum extruded rail with covered metal gear rack; bolted joint plate at each rail joint

### FOOTREST: folding footrest with safety sensor panel

### SEAT: padded, folding and swivel with stops at 0° (forward), 67° (top), and 90° (top); no swivel at lower landing; multiple-position seat height adjustments.
**ARMRESTS:** fixed to seat frame; armrest may be individually rotated towards seat back for smaller profile when not in use and to facilitate transfers

**SAFETY EQUIPMENT:**
1) seat swivel switch allowing operation only when chair is in center position
2) carriage safety switches
3) seat positioning belt
4) 25A manual reset breaker on motor control circuit
5) final end stop bumper at each end of rail
6) final limit switch
7) full diagnostic alarms on circuit board
8) armrest safety switches to insure barrier arms down to operate
9) Overspeed protection against free fall or run away condition
10) charging light on charger
11) 5A fuse on control circuits

**BATTERY CAPACITY/POWER OUTAGE:**
Cycles: variable depending on angle, length of run, ambient temperature, and rider weight
Batteries: between 12 and 24 hours if power is disconnected

**WEIGHT OF UNIT:**
185 lb (86 kg) without rider in a typical 15’-9” (4.9 m) installation

**TESTING PERFORMED:**
1) Life cycle testing with full rated load at 45 degree on a 15’-9” rail
2) battery charger UL tested and listed to UL 1310
3) self-locking gear box statically tested with 2100 lb (953kg)(7 times rated load) on a 45° rail for 5 minutes with no carriage movement; test performed at manufacturer’s location
4) repetitive tests performed to determine power outage cycling
5) electrical discharge to ground testing
6) Overspeed free fall testing for repeated usage

**OPTIONS:**
1) keyed call/send controls
2) power swivel seat at top landing (up to 85° of rotation)
3) power folding footrest
4) manual folding rail
5) power folding rail