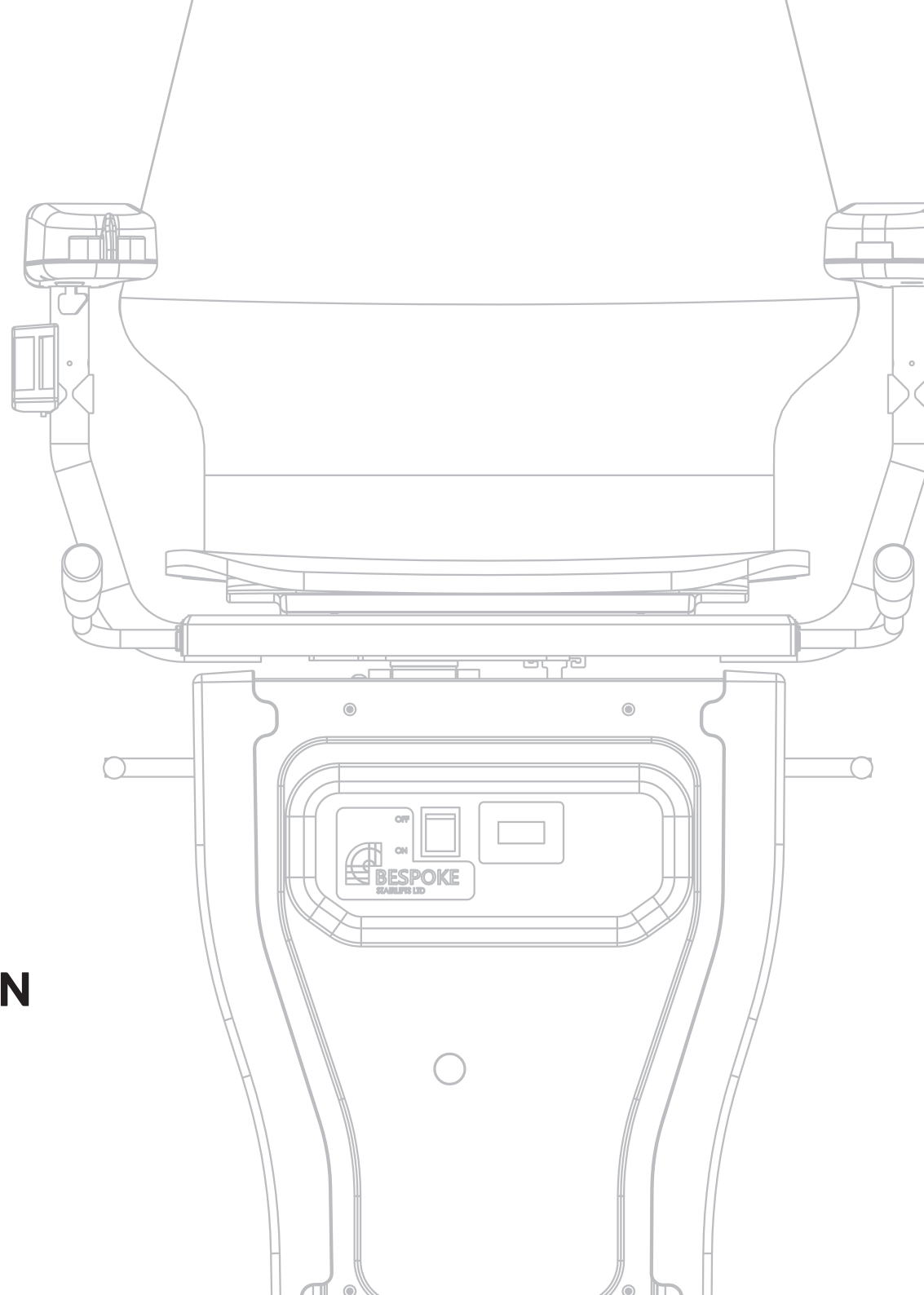




INFINITY

TECHNICAL INFORMATION

April 2025



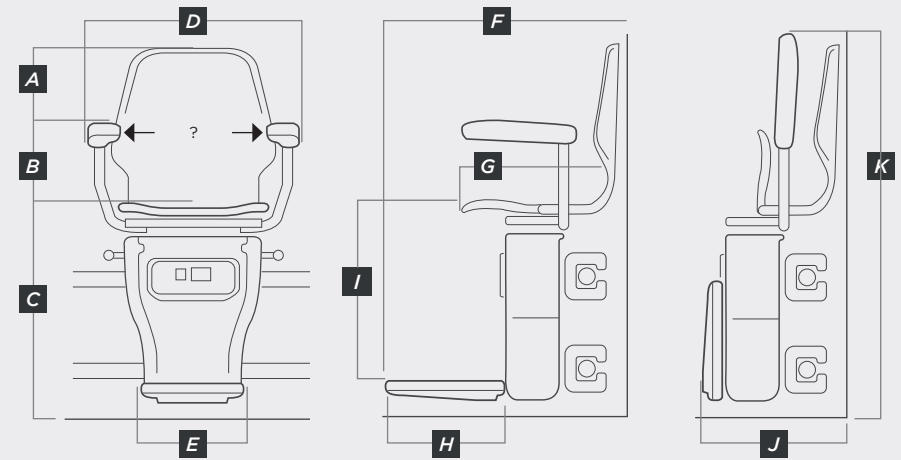


Product Overview

The Infinity Curved Stairlift is a motorised mobility device designed for safe and efficient transport along curved staircases.

It provides smooth and reliable operation while ensuring user comfort and security.

A	Total height (from floor)	1058mm
B	Height of arms (from floor)	837mm
C	Seat height (from floor)	594mm
D	Total width	607mm
E	Width of footrest	300mm
F	Total depth (from wall)	622mm
G	Seat depth (to backrest)	385mm
H	Depth of footrest	270mm
I	Footrest to seat	493mm
J	Total depth (folded)	407mm
K	Total height (folded)	1078mm



Key Features:

Custom Curved Rail System

Designed to fit various staircase layouts

Battery-Powered

Operates during power outages

Remote-Controlled

Supplied with two remotes and wall-mounted holders

Safety Sensors

Detects obstacles to prevent accidents

Folding Seat and Footrest

Space saving design when not in use

Smooth Start & Stop Mechanism

Eliminates jerky movements

Components & Inclusions:

- Infinity Carriage Unit
- Infinity Seat Unit
- Infinity Carriage Kit Box
- Remote Controls (x2) & Wall Holsters
- Battery Pack (2x 12V)
- Charger & Mounting Bracket
- Rail Sections

Technical Specifications:

Power Supply

24V DC battery (2x 12V batteries)

Charging Input

Standard mains power via charger

Maximum Load Capacity

125 kg (275 lbs)

Speed

Approx. 0.12 m/s

Rail Angle

Customisable
(Based on staircase assessment)

Operating Temperature Range

5°C to 40°C

Safety Features:

- Safety Belt for User Restraint
- Obstacle Detection Sensors
- Manual Lowering Mechanism in Case of Emergency
- Keyed Operation to Prevent Unauthorised Use

Maintenance & Troubleshooting:

Regular Cleaning

Keep the rail and seat free of dust and debris

Battery Replacement

Recommended every 2-3 years

Diagnostic Indicators

LED display for fault detection

Lubrication

Periodic application to moving parts for smooth operation

Professional Inspection

Annual servicing recommended

Upgrade List:

- Upholstery Options
- Powered Swivel
- Intermediate Charge Point/Parking
- Leg Covers
- Rail Cover
- HD Option

Power Supply: Input 120v-240v
Output 1.2Ah
Battery: 2x 12v
Rail Drive: Rack & Pinion
Max. seat rotation: 80°
Max user weight: 125kg (19.5 stone)

Minimum required staircase width:

EXTERNAL*

650mm (or BTK+100mm)

INTERNAL

730mm (or BTK+120mm)

**Use largest measurement*

Parking requirements:

RAIL & CARRIAGE

680mm (standard)
600mm (drop nose)

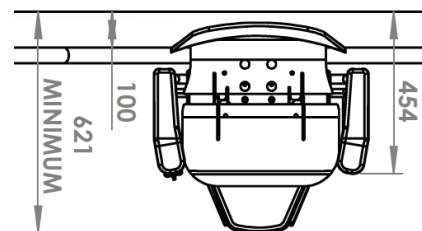
RAIL ONLY

400mm (standard)
340mm (drop nose)

(Dependent on angle)

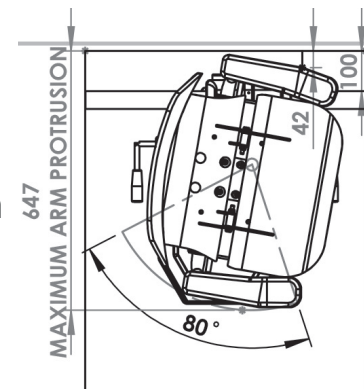
Min. stair angle: 0° **Max. stair angle:** 50°

Turning requirements

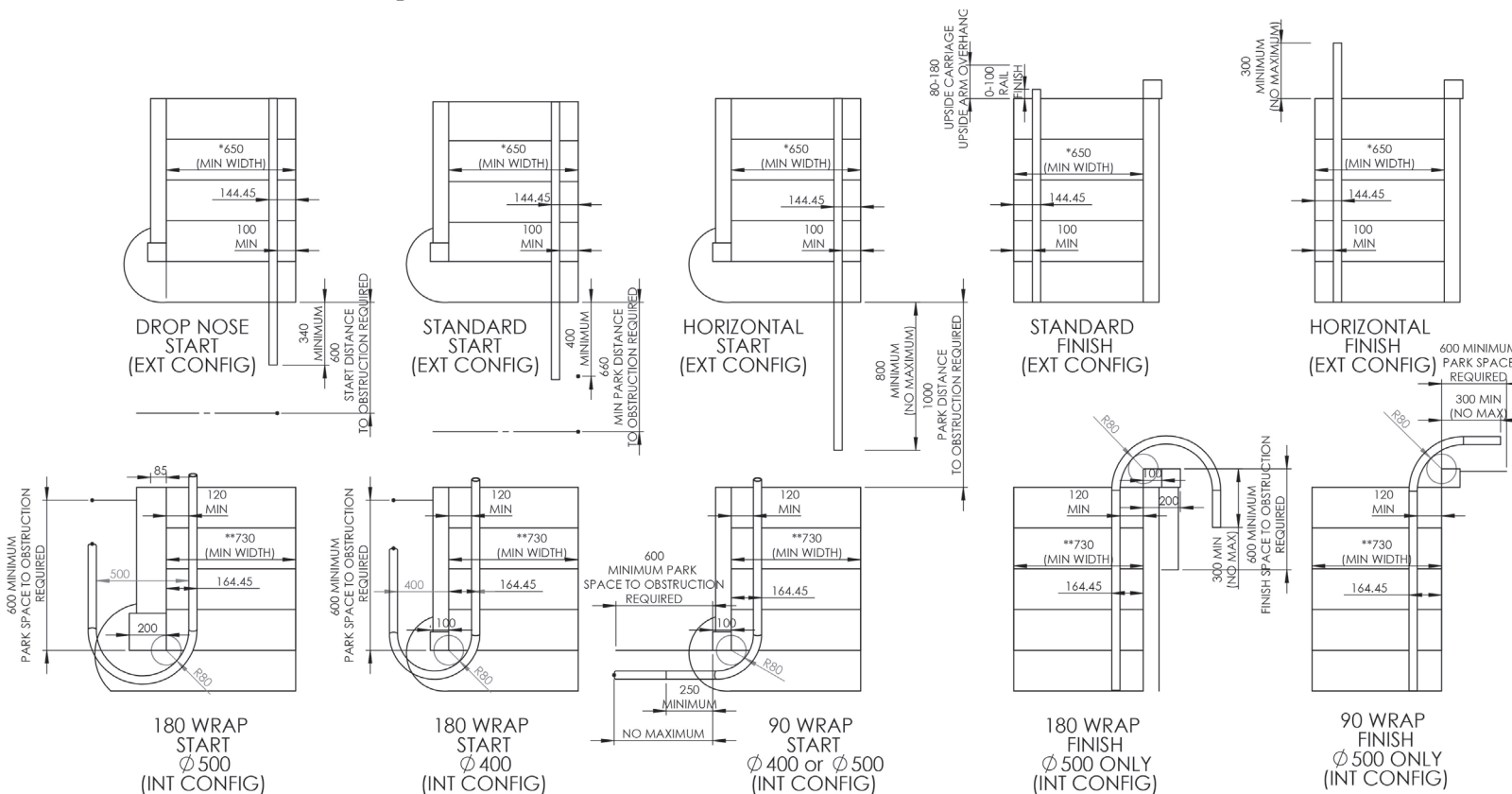


Travel Position

Swivel Position



Start and finish requirements

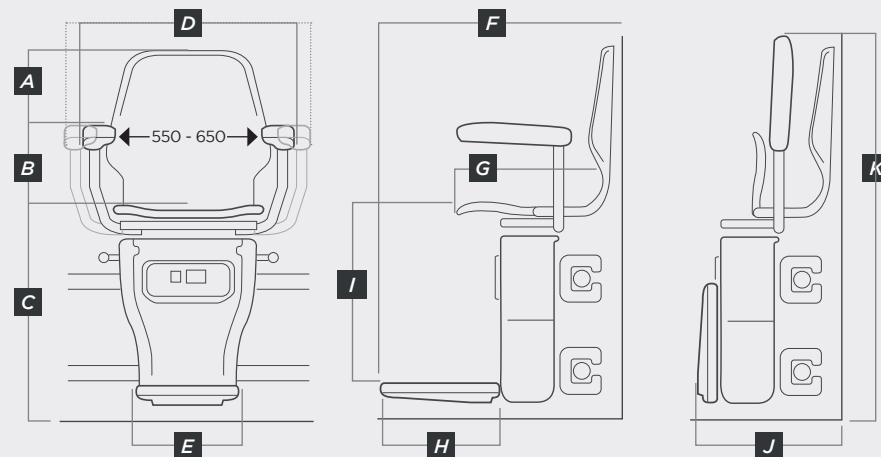


NOTE:
Take care when measuring 180° internal start configuration where newel post exists. Minimum width will differ depending on newel post dimensions.



INFINITY HEAVY DUTY CURVED STAIRLIFT

A	Total height (from floor)	1058mm
B	Height of arms (from floor)	837mm
C	Seat height (from floor)	594mm
D	Total width	607-707mm (varies depending upon arm width)
E	Width of footrest	300mm
F	Total depth (from wall)	622mm
G	Seat depth (to backrest)	385mm
H	Depth of footrest	270mm
I	Footrest to seat	493mm
J	Total depth (folded)	407mm
K	Total height (folded)	1078mm



Power Supply: Input 120v-240v
Output 1.2Ah
Battery: 2x 12v
Rail Drive: Rack & Pinion
Max. seat rotation: 80°
Max user weight: 160Kg (25 stone)

Minimum required staircase width:

EXTERNAL*

670mm (or BTK+125mm)

INTERNAL

730mm (or BTK+145mm)

**Use largest measurement*

Minimum stair angle:

10°

Maximum stair angle:

45°

Parking requirements:

RAIL & CARRIAGE

680mm (standard)

600mm (drop nose)

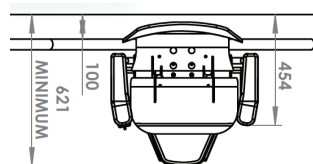
RAIL ONLY

500mm (standard)

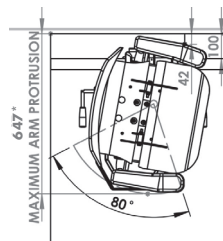
400mm (drop nose)

(Dependent on angle)

Turning requirements



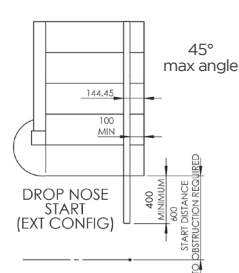
Travel Position



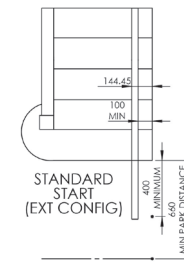
Swivel Position

(*697mm needed if arms fully extended)

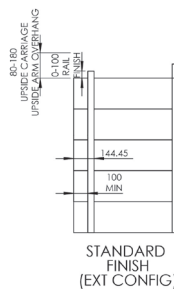
Start and finish requirements



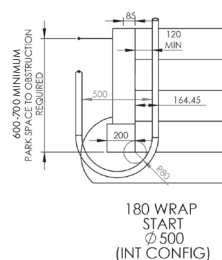
DROP NOSE START (EXT CONFIG)



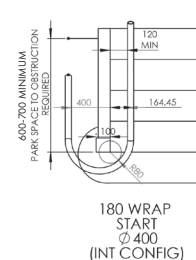
STANDARD START (EXT CONFIG)



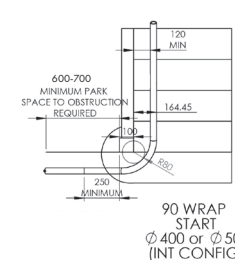
STANDARD FINISH (EXT CONFIG)



180° WRAP START (INT CONFIG)



180° WRAP START (INT CONFIG)



90° WRAP START (INT CONFIG)