

# Q50R



# CONTENT OVERVIEW



## 1. Design Objective

## 2. Quality

- ISO, CNAS, SGS, CE

## 3. Chassis

## 4. Base

- Wheels
- Forks
- Suspension
- Motors
- Batteries and Charger
- Battery removal

## 5. Seat

- Seat base
- Backrest
- Footrest platform
- Armrest

## 6. Electronics: VSI (Curtiss-Wright)

## 7. Stability

- Static
- Dynamic
- Lateral

## 8. Folding

- Measurements - folded

## 9. Technical specifications

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# Q50R

**“To develop a folding wheelchair that responds to the current needs of the market which surpasses the existing products on the market in terms of performance, quality and guarantees.”**

# CHASSIS



## Feature

- Q-Series styling
  - Matte black chassis
  - Black castors & Drive wheels
- 3 colour accents
  - Blue
  - Green
  - Red

## Benefits

- ✓ Stylish
- ✓ Easily recognisable – ‘Family’ feel
- ✓ Entry level fleet solution
- ✓ Low maintenance

# BASE - WHEELS



## Feature

- Solid 8" front castors
- Rear 12" solid wheels with mudguards
- Same as Q100 R
- Short turning circle of 1218mm

## Benefits

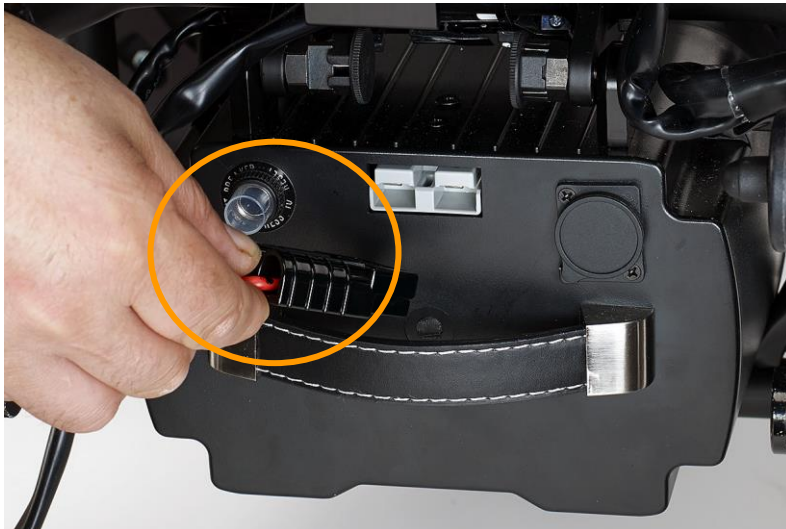
- ✓ Stylish
- ✓ Easily recognisable – 'Family' feel
- ✓ Low maintenance – fleet maintenance
- ✓ Highly manoeuvrable both indoors and outdoors

# BASE - BATTERIES AND CHARGER



## 30 Ah LITHIUM BATTERIES

- ✓ Range 50km (Market leading)
- ✓ Battery consumption: 720 Wh (watts/hour)
- ✓ Lithium batteries, if not used, will go to "sleep" mode
- ✓ No memory effect
- ✓ Tip: charge it for 45 minutes once the chair is delivered to "reactivate" it.



## BATTERY CHARGER

- ✓ 5 Amp
- ✓ Highest quality components
- ✓ Anderson battery connection plug - to ensure perfect fit



# BASE - BATTERY REMOVAL



# BASE - SUSPENSION



Front side by elastomer (vibrations and noise)



Springs under the seat

## Feature

- Front & Rear Suspension
  - ✓ Front – via elastomer blocks
  - ✓ Rear – springs under seat

## Benefits

- ✓ Optimal traction both indoors and outdoors
- ✓ Enhanced ride comfort
- ✓ Reduced noise



# BASE - MOTORS



## Feature

- 200W powerful motors – LINIX
  - In-line with wheel axis
- Max speed 6 kph
- ‘Free-wheel’ mode – for easy manoeuvring

## Benefits

- ✓ High quality motors for superior performance
- ✓ Low maintenance
- ✓ Enhanced user confidence

# CHASSIS

## ADJUSTABLE ANTI-TIP WHEELS IN 3 POSITIONS



# BASE - ALUMINIUM FORKS



# BASE - SEAT



Cushion and belt



Storage bag

## Feature

- 430 mm width x 450 mm depth
- Adjustable tension seat straps
- 50 mm cushion thickness
- Lap belt
- Large under seat storage bag

## Benefits

- ✓ Adjustable seat enhances seated comfort over longer periods
- ✓ Ample storage for essential items



# BACKREST



## Feature

- Removable and height-adjustable backrest (range 100 mm)
  - Minimum position: 450 mm
  - Maximum position: 550 mm
- Tension adjustable backrest upholstery with zippered pocket
- Padded push handle

## Benefits

- ✓ Easily accommodates shorter and taller users
- ✓ Extra storage for essential items
- ✓ More comfortable and ergonomical hand position when pushing
- ✓ Reduced upper back discomfort for user



# FOOTREST PLATFORM



Folding footrest platform -  
adjustable in height in 2 positions



# FOOTREST PLATFORM



## Feature

- New Folding footrest mechanism (available from April/ May 2021)
- Same functionality

## Benefits

- ✓ More compact folding package for easier transfers
- ✓ Folds inside frame
- ✓ No loss in function



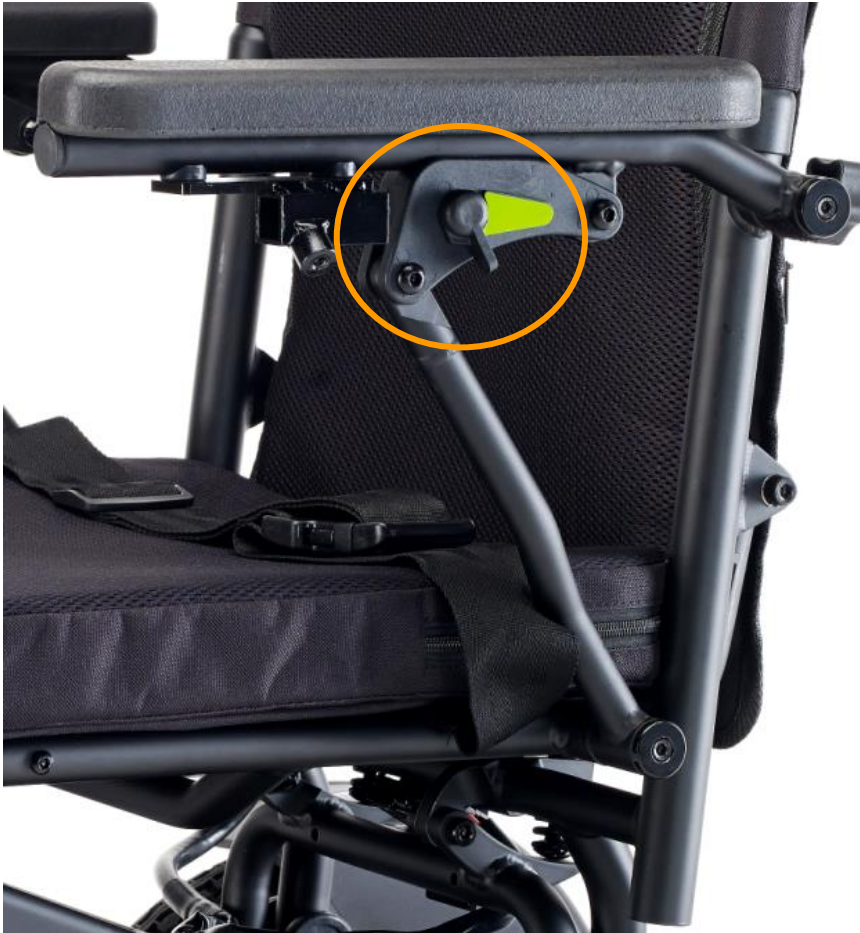
# ARMREST

## Feature

- Foldable and position-locking armrests
- Distances between armrests: 460 mm
- Armrest height:
  - Seat base to armrest: 270 mm
  - Cushion to armrest: 220 mm
  - It is NOT adjustable in height

## Benefits

- ✓ Stable armrests for more secure seated position and safer transfers
- ✓ Fold up design ensures easier one-handed folding into compact package



# ELECTRONICS: VSI CURTISS-WRIGHT



**CURTISS-  
WRIGHT**

**VSi**



## Feature

- Fully certified VSi control system from Curtiss-Wright (Industry-leading manufacturer)
- Simple, non-expandable system
- Integrated power module in the joystick
- Integral swing away control mounting
- Programmable (PP1, DTT, PC Programmer)

## Benefits

- ✓ High quality and durability for low maintenance
- ✓ Reliable and precise drive control
- ✓ Easily customizable to user need

# STABILITY



Q50R		
	Minimum	Maximum
Static stability on downward slope	25.9°	26.7°
Static stability on upward slope	22.7°	24.1°
Dynamic upward stability	8°	
Lateral static stability	20.8°	22.7°



# EASY FOLDING SYSTEM



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# MEASUREMENTS WHEN FOLDED



- ✓ Height when folded: 400 mm
- ✓ Length when folded: 800 mm
- ✓ Width when folded: 600 mm

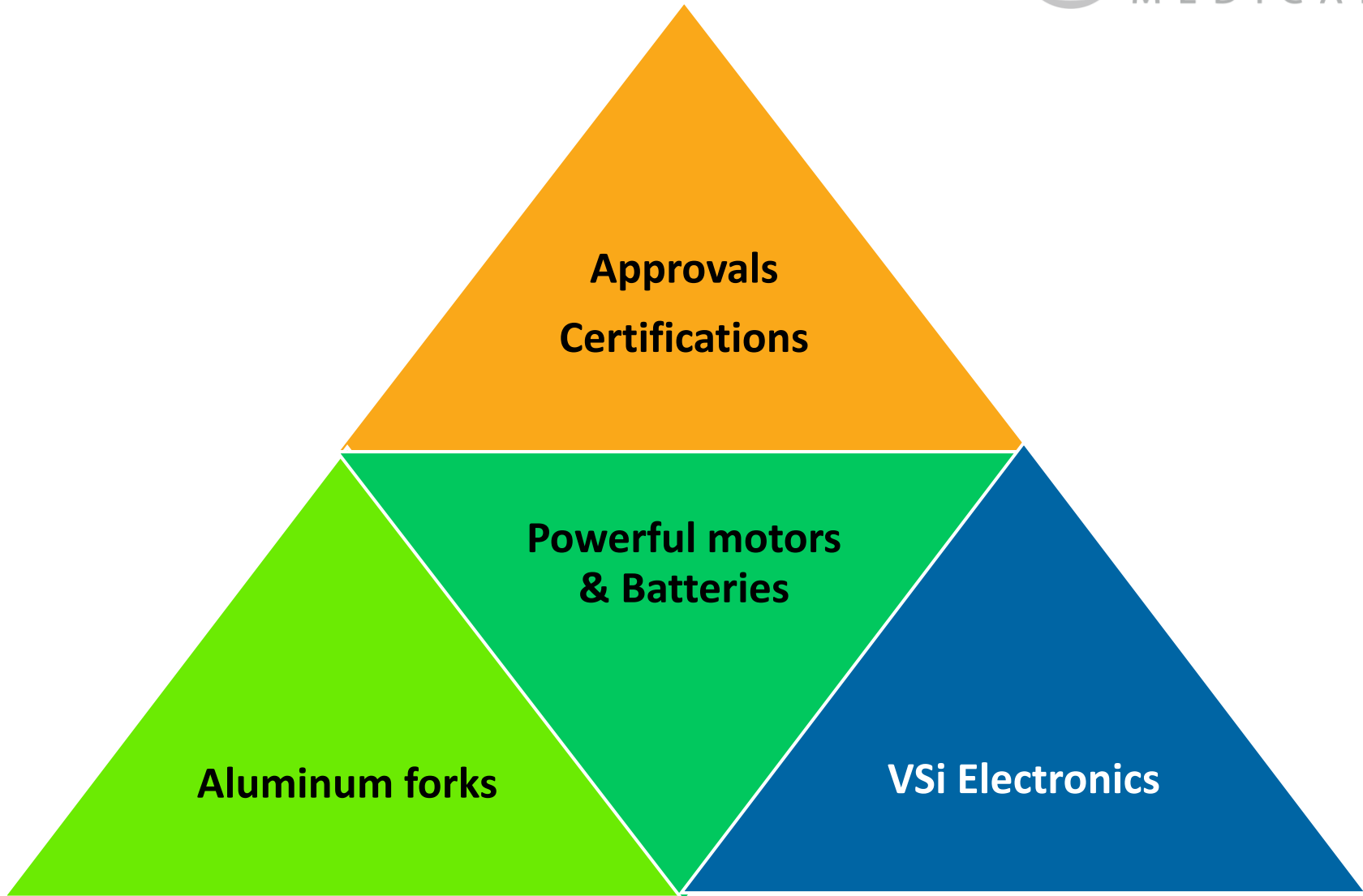


# Q50 R - SPECIFICATIONS



Q50R		
Weight	Total weight without batteries	32kg
	Total chair weight with batteries	37.5kg
	Weight of the batteries	5.5 kg
	<b>Maximum user weight</b>	<b>136 kg</b>
Measurements	<b>Overall width</b>	<b>600 mm</b>
	Minimum total length of the chair when open	850 mm
	<b>Maximum total length of the chair when open</b>	<b>1030 mm</b>
	Overall height with backrest in lower position	905 mm
	Overall height with backrest in highest position	1005 mm
	<b>Seat to floor height (excl. cushion)</b>	<b>490mm</b>
	Seat-base height of the footrest (from the base)	410 mm

# Q50 R - KEY POINTS



# FREQUENTLY ASKED QUESTIONS



**QUESTION:** Is the Q50 R suitable for air travel?

**ANSWER:** In order to comply with the IATA air travel approval, the Q50 R can only be shipped on a passenger plane in the original shipping box, complete with battery installed. Air travel of power products can vary considerably depending on the carrier – in all cases Sunrise Medical recommend to contact the airline prior to any air travel to confirm their latest requirements.

**QUESTION:** Does the Q50R have any accessories?

**ANSWER:** As of today, it does not have accessories, but we are working to offer in the short-term, support for canes, support for the accompanying control and headrest.

**QUESTION:** Is it possible to put individual footrests?

**ANSWER:** Not at the moment, but we will evaluate that option according to the demand

**QUESTION:** Is there an option for pneumatic wheels?

**ANSWER:** No, there is no configuration option as of today. The solid wheel is a soft one, but if you still need pneumatic wheels, it's the same wheel as the one in Q100R, you can order it as a spare.



# FREQUENTLY ASKED QUESTIONS



QUESTION: Can the chair be fixed in the car and can the user sit in the chair during transport?

ANSWER: No, this chair cannot be used in transport with the user seated, it does not have crash test

QUESTION: Can the seat depth be changed?

ANSWER: No, the structure is fixed and integrated to provide greater stability and less weight.

QUESTION: Is the armrest upholstery depth adjustable?

ANSWER: No, it cannot be changed either in height or in depth

QUESTION: How is the backrest height adjusted?

ANSWER: The backrest has two hand wheels, which when removed allow you to adjust the height of the backrest either up or downwards 100 mm

# FREQUENTLY ASKED QUESTIONS



**QUESTION:** Can JAY backs be attached?

**ANSWER:** There are no configuration options on this chair, but the diameter of the backrest tube does allow for fitting of a JAY back

**QUESTION:** Are you going to include electric folding?

**ANSWER:** Not at the moment, because the folding is very simple and fast, which does not need strength and we do not think that it will make much difference to the user, and it consumes battery.

**QUESTION:** Can batteries be added?

**ANSWER:** The chair can only carry one battery at a time, but we are considering offering spare batteries so that the user can have two batteries, which can be easily exchanged thanks to the quick-release system for when the user travels.

**QUESTION:** Can the battery be charged outside the chair?

**ANSWER:** Yes, the battery has a charging port.

# Q50R



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