



Compact Powerchair that doesnt downsize on performance

Training Guide





Q300 R

Q300 R Mini

Q300 R Product Training

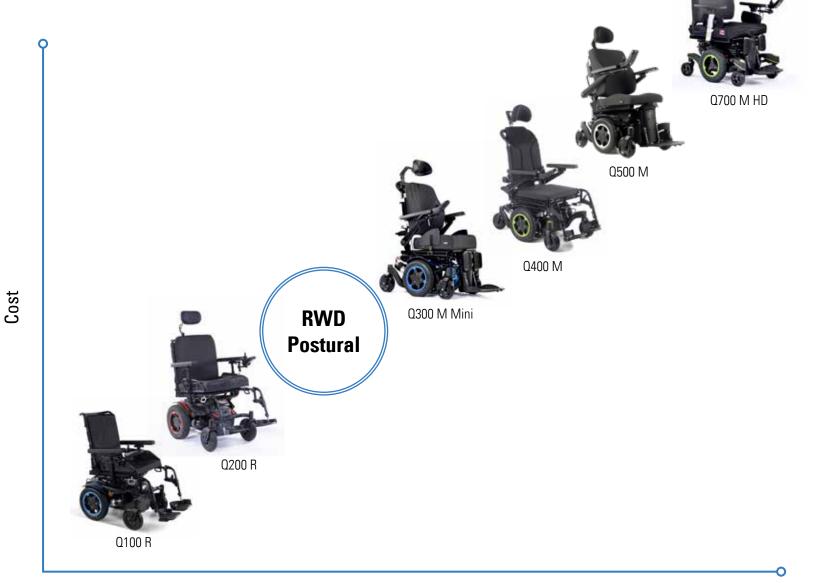
The following training guide aims to outline the key aspects of the Q300 R & Q300 R Mini:

- Customer Feedback
- Design Scope
- Key Features
- Product Comparison
- Technical Specification

DESIGN HISTORY

PRODUCT POSITIONING

Looking at the Q-Series range overview, there is a space in the RWD postural segment, previously filled by the Salsa R2



DESIGN HISTORY

CUSTOMER FEEDBACK



- Longer base for stability pushes the seat further forward to avoid caster clash – pushing COG and weight away from drive wheels = Poor traction
- Often find that even though the bases are larger, they still perform poorly outdoors
- COG is often set to maximize stability in 30° tilt, rather than optimise drive base performance

As with any new product, customer feedback drives our innovation and guides our design choices



 No access to high end postural seating options such as Flexi-Backrest, 30 degree tilt, Flip Back Armrests

 Too Large to use around the home

 Harder to cater for complex clients such as amputee's, moulded seating and asymetric postures



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Notes



DESIGN SCOPE

With the Q300 R we wanted to achieve the following

OBJECTIVES



Utilise the Q200R Drive Base to take the Market Leading Indoor and Outdoor Performance from the Drive Only Segment to Postural Tilt Segment

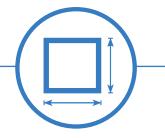
Combine with SEDEO Lite Seating and Powered Options to meet Postural Clinical Need

Develop the best-in-Class RWD Postural Seating Powered Wheelchair

Q300 R

OVERVIEW

Key Features are as follows:



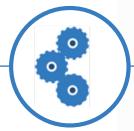
Compact Chassis

Best RWD indoor manoeuvrability



Smart Base

Optimised COG for traction & stability



Increased Fleet Compatibility

Shared base & seating components





Modular SEDEO Seating System

Moderate to complex postural seating

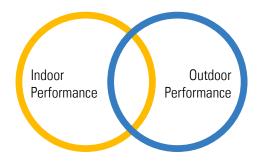


Proven Quality

Tried & Tested chassis and seating system

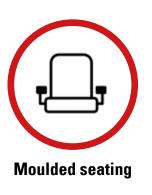
SMART-BASE TECHNOLOGY

Built upon the technology used in both the Q100 R & Q200 R, the Q300 R aims to take this one step further



- Q200 R was developed to address the feedback around traditional RWD powerchairs
- Balance of indoor and outdoor performance

As we move up to the Q300 R however we are focused on a more complex client group which present their own set of challenges

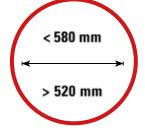






Larger degrees of tilt

Amputees





Larger clients

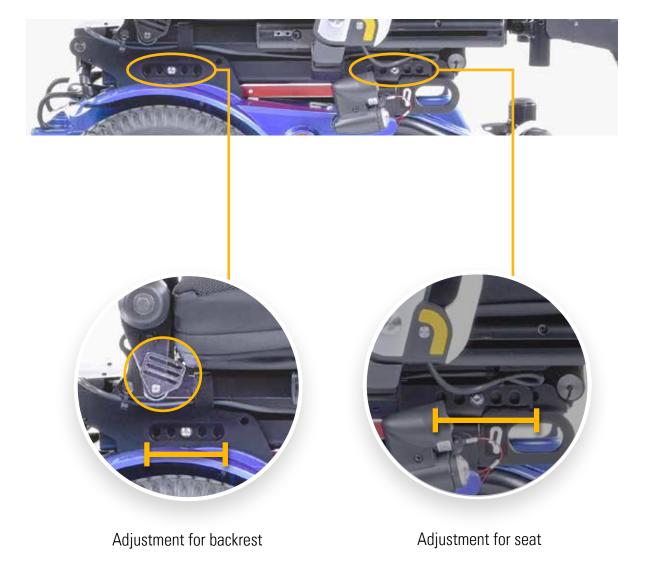
Heavier clients



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SMART-BASE TECHNOLOGY

Q300 R introduces modular seating technology to offer the widest COG range on the market



SMART BASE

SUMMARY

Q300 R takes the smart-base technology from Q200 R and makes it suitable for complex clients

Optimised base dimensions combined with enhanced COG adjustment



Enhanced Traction



Enhanced Stability



Greater Outdoor Performance



Wider Clinical Application

COMPACT BASE

The Q300 R is the most compact RWD complex powerchair, addressing the key prescription decision of indoor performance vs MWD



Base width vsMarket

	Base Width	Vs Q300 R
Q300 R	58 cm	
Salsa R2	64 cm	+ 6 cm
Spectra XTR	62 cm	+ 4 cm
Bora	62 cm	+ 4 cm
RX20	56 / 63.5 cm	- 2 cm / + 5.5 cm

- Greater indoor manoeuvrability with an Ultra-short base length of 107 cm
 and 58 cm wide, the Q300 R is easy to
 manoeuvre in through the smallest lifts and
 tight spaces.
- Compact Base Significantly narrower than historic RWD (Salsa R2)

Base length vsMarket

	Base Length	Vs Q300 R
Q300 R	110 cm	
Salsa R2	114 cm	+ 4 cm
Spectra XTR	116 cm	+ 6 cm
Bora	116 cm	+ 6 cm
RX20	118 cm	+ 8 cm

COMPACT BASE

Compared to other chairs in the same space, it is consistently more compact across all categories

Turning circle vsMarket

	Turning Circle	Vs Q300 R
Q300 R	180cm	
Salsa R2	190 cm	+ 10 cm
Spectra XTR	192 cm	+ 12 cm
Bora	192 cm	+ 12 cm
RX20	195 cm	+ 15 cm



Historic RWD challenge:

- RWD flick
- COG bias towards the front created a lot of resistance when trying to turn on carpets.

Optimised COG:

 Provides greater indoor control and reduces impact of the above





OUTDOOR PERFORMANCE

Compact indoors, the Q300 R doesn't compromise on outdoor performance



Module technology

Optimised traction65% over rear wheels



14" drive wheels

- Increased surface area contact maximises traction
- Std. Knobbly drive wheels for maximum traction and dirt shedding



NEW boot style kerb climber

- Traditional kerb climbing technique
- More familiar to users
- Provides smoother experience vs older Boot Style



High torque performance motors

- Increased Power (Obstacle / terrain climbing)
- No compromise on power Vs larger power chairs (Use same motors)
- Fleet compatibility Q300 M Mini, Q400 M & Q500 Series



Std. 56Ah batteries

- (31km) Maximum FOC range
- Lighter weight 50Ah batteries (29km)



Optional 64Ah batteries (40km):

- Clients with all powered options
- To Increase base weight



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PRODUCT OVERVIEW

SEDEO SEATING SYSTEM

Addresses the key feedback of the Q200 R - a lack of complex clinical seating options



Versatile SEDEO LITE Frame

- Tried and tested across the Q Series range
- For users with mild to moderate postural needs
- Wide range of comfortable cushions
- Round Tubing Easy interface for third party backrests



Total Flexibility / Highly Adjustable

- Intuitive adjustment one tool adjustment (5 mm Allen key)
- Measuring scales on the frame
- Stepless adjustment to produce the best support
- Shared options & accessories

SEDEO SEATING SYSTEM

SEDEO modular seating introduces Flip-Back armrests, Flexi backrest and much more



Complex Seating – SEDEO PRO

- Complex Seating flexible base with adjustable straps, follows and supports the curve of user's back
- Optimised postural stability.

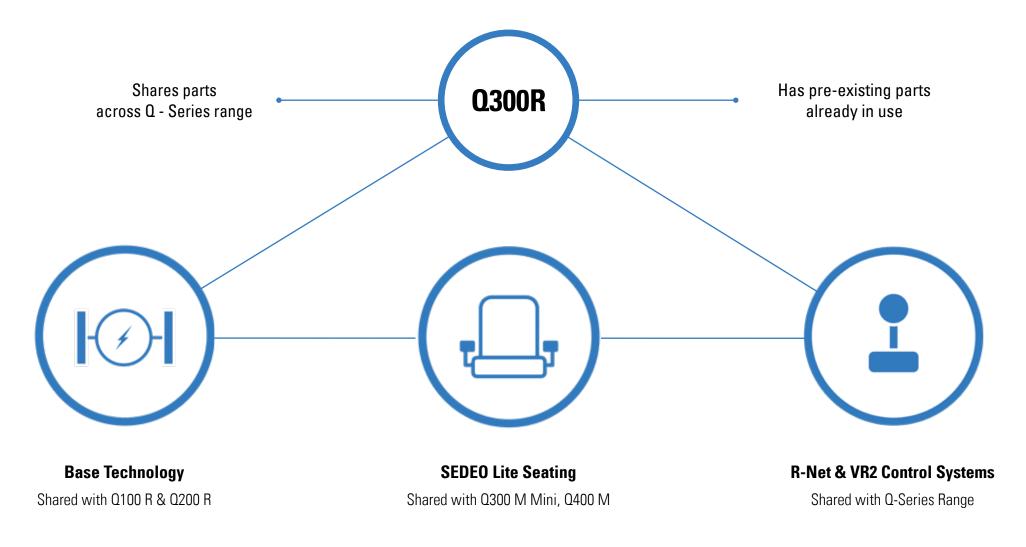
Vs Q200 R Sling Seating

	Q200 R	Q300 R
Lift	No	Yes - 300mm
Tilt	22°	30°
Recline	30°	30°
Flexi Backrest	No	Yes



FLEET COMPATABILITY

Area of focus - Reduce Complexity | Reduce Stock | Reduce Cost

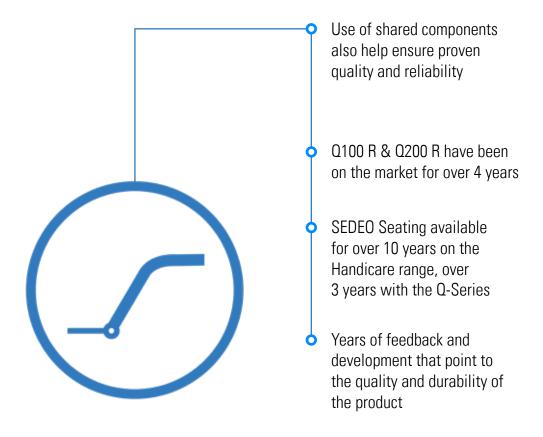


SEDEO Pro Options & Accessories

Shared with Q500 M, IBIS

PROVEN QUALITY

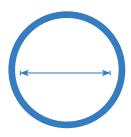
Using tried and tested technology allows us to ensure quality from day one





In Summary, the Q300 R:

Address the feedback associated with Postural RWD Powerchairs:



Too large to get around the house easily



Poor outdoor performance associated with incorrect COG set up



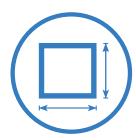
Smart Base
Optimised COG for traction & stability



Modular SEDEO Seating System Moderate to complex postural seating



Proven Quality
Tried & Tested chassis
and seating system



Compact Chassis

Best RWD indoor
manoeuvrability

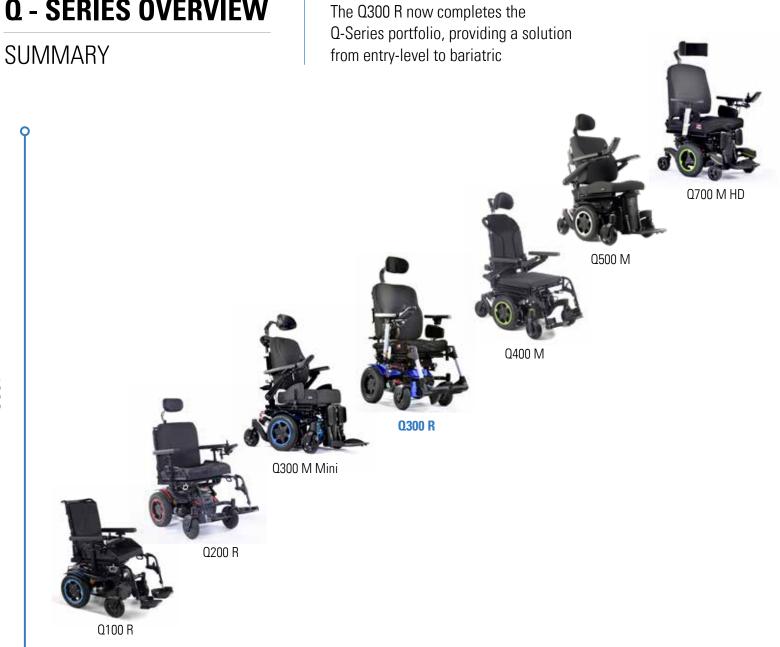


Increased
Fleet Compatibility
Shared base &

Shared base & seating components

Cost





DESIGN SCOPE

DESIGN OBJECTIVES

Need something smaller? We wanted to offer a more compact solution focused on the indoors

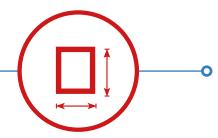






Prescription decision between **MWD** as the most manoeuvrable vs.

RWD due to customer preference, historic user or other reasoning



Can we further develop the Q300 R to address this feedback and reduce this compormise as much as possible



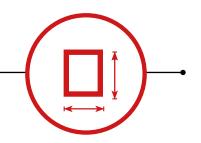
Develop an ultra-compact RWD chassis to reduce as much as possible the prescription compromise of a RWD chair for indoor manoeuvrability

Provide #1 solution for indoor, complex RWD powerchair users

Q300 R MINI

OVERVIEW

An overview of the Q300 R Mini, giving an insight in the key features



Most compact postural RWD tilt-in-space chair on the market – 56 cm



Smart Base

Utilises the same Smart Base technology as Q300 R



Maintains fleet compatibility

Thanks to shared components





Modular SEDEO Seating System

Utilises same SEDEO Lite seating system



Proven Quality

Drive base and seating

ULTRA COMPACT

The Q300 R Mini is much more compact version of the Q300 R drive base





- Same option used on Q300 M Mini & Q400 M
- Reduces overall length & turning circle for an even more compact and manoeuvrable base



Base width vsMarket

	Base Width	Vs Q300 R
Q300 R Mini	56 cm	-
Q300 R	58 cm	+ 2 cm
Salsa R2	64 cm	+ 8 cm
Spectra XTR	62 cm	+ 6 cm
Bora	62 cm	+ 6 cm
RX20 (Tilt)	56 / 63.5 cm	+ 7.5 cm

ULTRA COMPACT

And even more narrow than the Q300 R when compared to the rest of the market

O Base length vs

Market

	Base Length	Vs Q300 R
Q300 R Mini	106 cm	
Salsa R2	114 cm	+ 8 cm
Spectra XTR	116 cm	+ 10 cm
Bora	116 cm	+ 10 cm
RX20 (Tilt)	118 cm	+ 12 cm

Turning circle vsMarket

	Base Length	Vs Q300 R
Q300 R Mini	170 cm	
Salsa R2	190 cm	+ 20 cm
Spectra XTR	192 cm	+ 22 cm
Bora	192 cm	+ 22 cm
RX20 (Tilt)	195 cm	+ 25 cm







Q300 R MINI

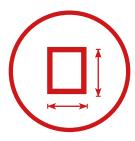
SUMMARY

Utilises all the features of the Q300 R as previoulsy mentioned, in a much more compact package



Develop an ultra-compact RWD chassis to reduce as much as possible the prescription compromise of a RWD chair for indoor manoeuvrability

Provide #1 solution for indoor, complex RWD powerchair users



Ultra Compact Chassis

Most compact postural RWD tilt-in-space chair on the market – 56 cm



Modular SEDEO Seating System

Utilises same SEDEO Lite seating system



Proven Quality

Drive base and seating



Smart Base

Utilises same Smart Base technology as Q300 R



Increased Fleet Compatibility

Maintains fleet compatibility thanks to shared components

COMPARISON

Q300 R

- Sedeo Lite Seating System
- Sling Backrest
- Fixed Tilt
- Angle Adjustable Backrest
- Flip Back Armrest
- Side Guard
- SEDEO Lite 70 degree S/A Legrest
- VR2 Joystick
- 10kph Motor
- 14" Drive Wheels
- 9" Castors
- 56ah Batteries



COMPARISON

Q300 R MINI

- Sedeo Lite Seating System
- Sling Backrest
- Fixed Tilt
- Angle Adjustable Backrest
- Flip Back Armrest
- Side Guard
- SEDEO Lite Centre Mount Legrest
- VR2 Joystick
- 6kph Motor
- 12" Drive Wheels
- 8" Castors
- 56ah Batteries



MOTABILITY SPECS

Q300 R

10kph, Fixed Tilt & SEDEO Pro Flexi Backrest

Complete Package RRP	£7,681
Product ID Code	706361
Motability Weekly Rental	£43.35

10kph, Powered Tilt & SEDEO Pro Flexi Backrest

Complete Package RRP	£8,856
Product ID Code	706360
Motability Weekly Rental	£48.79

10kph, Powered L&T & SEDEO Pro Flexi Backrest

Complete Package RRP	£9,616
Product ID Code	706359
Motability Weekly Rental	£53.12

MOTABILITY SPECS

Q300 R MINI



6kph, Fixed Tilt & SEDEO Pro Flexi Backrest

Complete Package RRP	£6,810
Product ID Code	706364
Motability Weekly Rental	£42.18

6kph, Powered Tilt & SEDEO Pro Flexi Backrest

Complete Package RRP	£7,985
Product ID Code	706363
Motability Weekly Rental	£47.63

6kph, Powered L&T & SEDEO Pro Flexi Backrest

Complete Package RRP	£8,745
Product ID Code	706362
Motability Weekly Rental	£51.96

TECHNICAL DATA



	Seat width	385 - 520 mm	Maximum range (ISO 7176-4)	32 km
	Seat depth	410 - 510 mm	Product weight (with 50 Ah batteries)	124 kg
	Seat height	410 - 490 mm	Maximum user weight	136 kg
	Back height	460 - 510 mm	Drive wheels	12" / 14"
	Lower leg length	305 - 460 mm	Castor wheels	8" / 9"
1	Power tilt	0 - 30°	Maximum speed	10 kph
1	Total width	550 - 580 mm	Battery size	50 / 55 / 63 Ah
	Total length (with centre-mount)	1060 - 1100 mm	Electronics	VR2 / R-Net
Ī	Turning circle	1150 mm	Crash tested	Yes - approved for forward facing transport in a vehicle (ISO 7176-19).
	Maximum safe	6°		Attachment: 4 chair fixing points with 2 double straps rear and 2 single straps front. No anchored belt restraints allowed.
Ø.	Maximum kerb climbing	100 mm		The ease of access and manoeuvrability in vehicles depends on the wheelchair size.
	Transport without user	Fix the wheelchair safe in the vehicle (e.g. car or plane).		
	Intended use and environment	For people with limited mobility, indoor and outdoor use. Wheelchair type class B		



Sunrise Medical cares about your safety. Please read your owner's manual for safe operating instructions and maintenance guidelines.

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