



ROVE

Ultra-lightweight 3D Printed Manual Wheelchairs

Additive Manufacturing

3D printing or additive manufacturing is the construction of a three-dimensional object from a CAD model. Titanium powder is melted into extremely precise forms by high-powered lasers.

Carbon fibre contributes to the chair's ultra-lightweight nature, enhancing manoeuvrability, while its strategic placement in protected areas ensures durability.

Titanium material placement ensures that the wheelchair is durable, especially in high-impact and wear-prone zones.

Titanium 'lugs' or joints serve as cushioning elements that absorb high-frequency vibrations, making the ride more comfortable compared to wheelchairs constructed solely of carbon fibre.

**More Strength.
Less Weight.**



This is the cross-section of one of the wheelchair lugs. Strong and ultra-light.



A Chair That's All About You

Your Wheelchair should be an extension of your individuality.

The Rove wheelchair offers an unparalleled range of customisation options, from specific measurements to functional and aesthetic choices. We offer over 25 different measurements that can be customised to suit your individual needs, ensuring a wheelchair that fits you like a glove.

With over 100 different customisation options available, you can truly make the wheelchair your own. These options range from choosing between a folding or rigid backrest, selecting from various wheel sizes, to customising side guards, among many others.

See below for sample script form, with customisation options.





3D Printed Ultra-Lightweight Fixed Frame Day Chair

Customer Details

Date _____
Name _____
Address _____

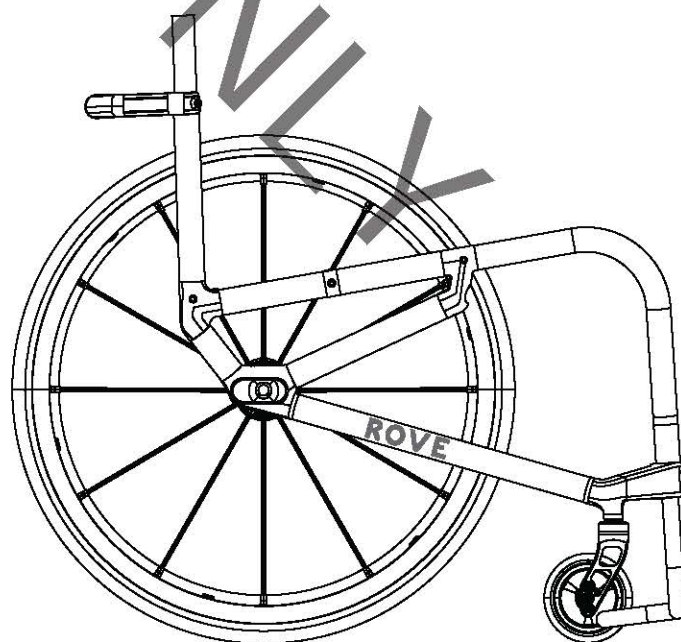
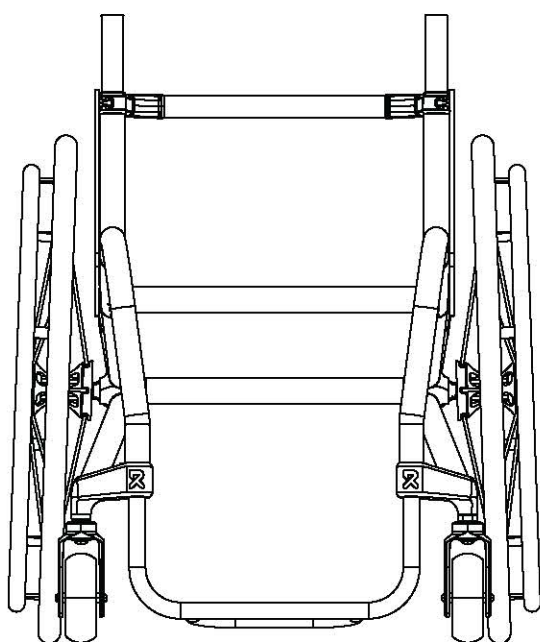
Phone _____
Email _____
Disability _____
Weight _____ Shoe Size _____
Height _____ T-Shirt Size _____

Therapist Name: _____
Scripter Name: _____
Delivery Details _____

Date Required By _____
Trail Chair Reference: _____

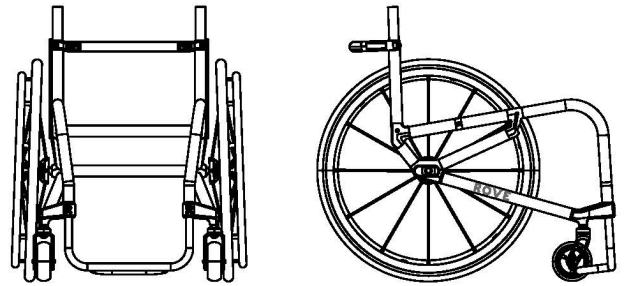
ROVE Use Only

Serial Number	_____
Script Date Issued	_____
Script Revision	_____





Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



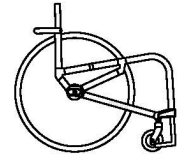
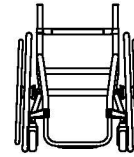
Customer Name _____
Therapist Name _____
Scripter Name _____

Frame Dimensions

Frame Style

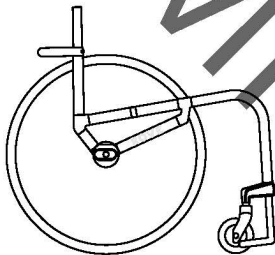
An ultra-lightweight, fully-customisable rigid everyday wheelchair.
Aerospace-grade 3D-printed titanium and carbon fibre frame.

Features include: Adjustable axle and camber, adjustable backrest.

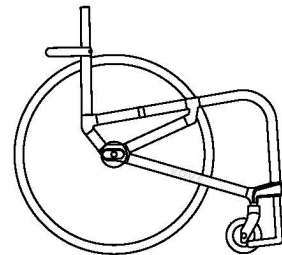


Frame Type

☐ Open Frame



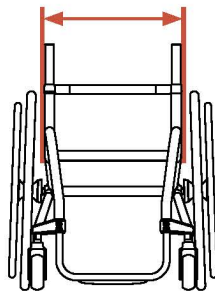
☐ Closed Frame



Seat Width

Measurement from outside
of seat tubes at rear of seat
upholstery.

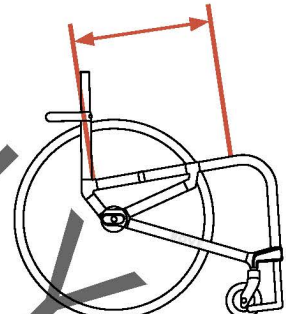
_____ mm



Seat Depth

Measurement from outside
of seat tubes at rear of seat
upholstery to the leading edge
of the upholstery.

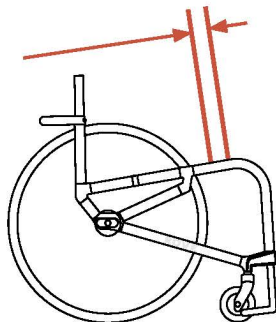
_____ mm



Seat Rail Extension

Depth measurement in
front of seat upholstery at
knee bend.

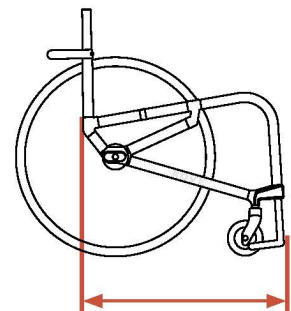
_____ mm



Overall Frame Length

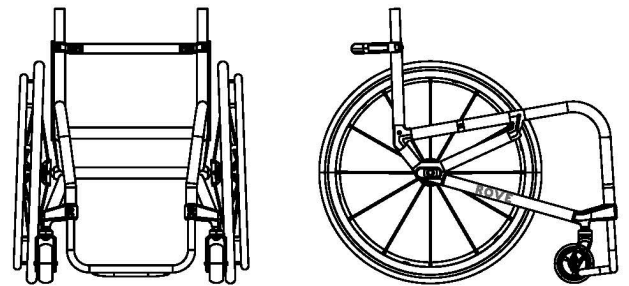
Measurement taken from the back
post to the front of the foot plate.
This determines the angle of the
front tubes.

_____ mm





Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



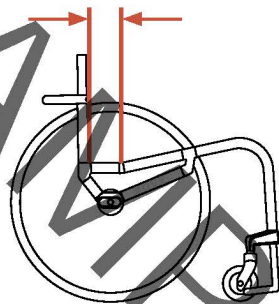
Customer Name _____
Therapist Name _____
Scripter Name _____

Ergonomic Seat

Measurement from front of
backrest post to center of
upward bend.

- ☐ No Ergo Seat
☐ Ergo Seat

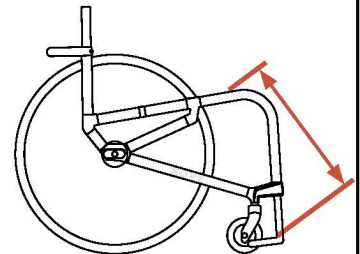
_____ mm



Footplate to Seat Height

Measurement from top of the
footplate to the front of the seat
upholstery.

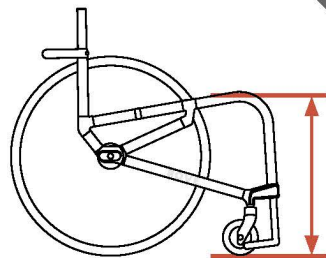
_____ mm



Front Seat Height

Measurement from floor to
top of front seat rail.

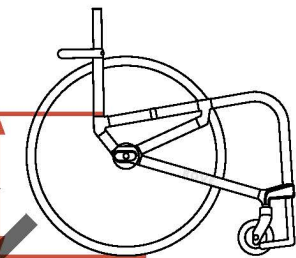
_____ mm



Rear Seat Height

Measurement from floor to top
of rear seat rail.

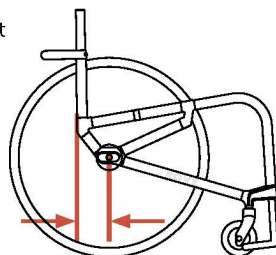
_____ mm



Rear Axle Centre of Gravity

Measurement from back of backrest
post to center of axle.

_____ mm



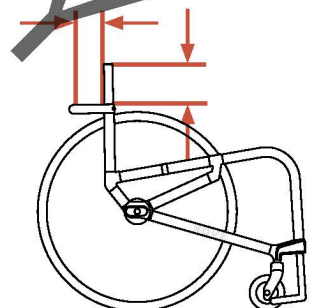
** This model has a fixed (non-adjustable) axle to center of axle.

Grab Bar

Height: Measure from top of back post
to top of grab bar.
Depth: Measure from rear of back post
to inside of the grab bar.

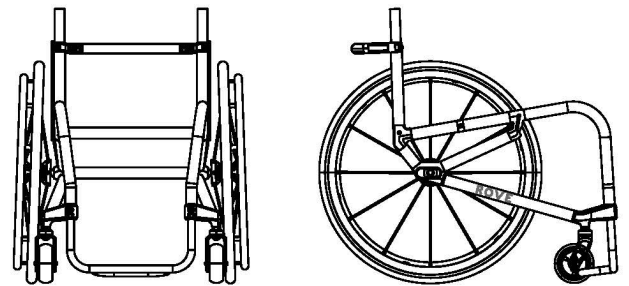
- ☐ Standard
(120mm High x 90mm Deep)
☐ Custom

_____ mm





Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



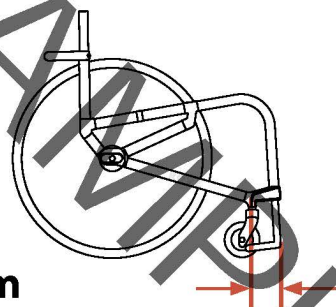
Customer Name _____
Therapist Name _____
Scripter Name _____

Castor Pivot Position

Measurement from front of footplate to the centreline of the castor pivots.

- ☐ Standard (85mm)
☐ Custom

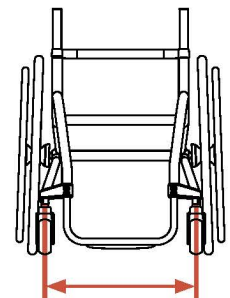
_____ mm



Castor Pivot Centres

Measurement from centreline of each castor pivot.

_____ mm

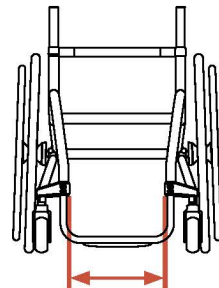


Footplate Width

Measurement from inside of footrest post to inside of opposite footrest post.

- ☐ XS (240mm)
☐ S (260mm)
☐ M (280mm)
☐ L (300mm)
☐ XL (320mm)
☐ Custom _____ mm

*A custom footplate size is also available for an additional \$200

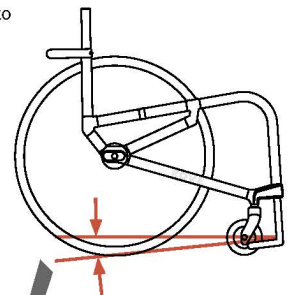


Footplate Angle

Measurement from inside of footrest post to inside of opposite footrest post.

- ☐ Standard (7 deg)
☐ Custom

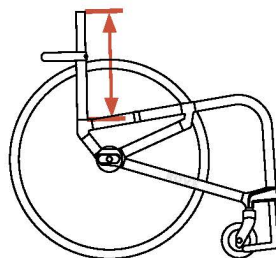
_____ deg



Back Height

Measurement from rear seat base to top of back.

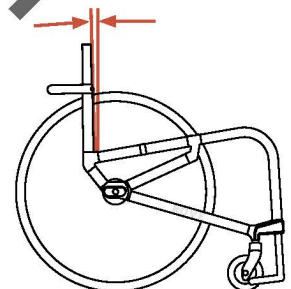
_____ mm



Back Angle

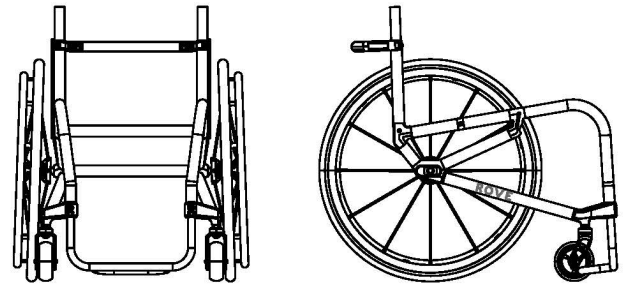
The angle from vertical to the back rest tube.

_____ deg





Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



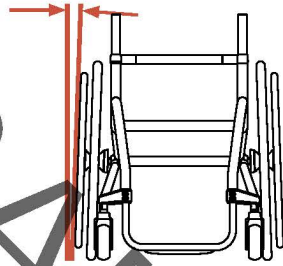
Customer Name _____
Therapist Name _____
Scripter Name _____

Wheel Camber

Measured from vertical to the
angle of the wheel.

- ☐ Standard (2 deg)
☐ Custom

_____ deg

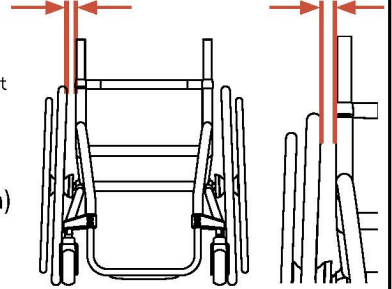


Rear Wheel Offset

Measure from outside of backrest
post to inside of top of tire.
(Gap between wheel and post).

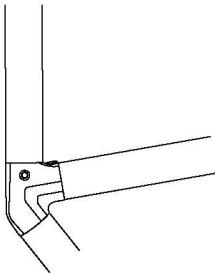
- ☐ Standard (25mm)
☐ Custom

_____ mm

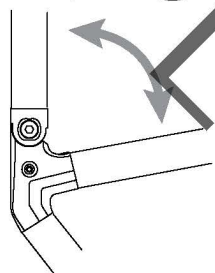


Backrest Style

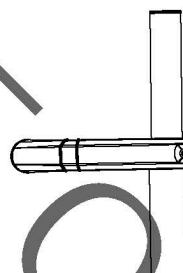
☐ Rigid



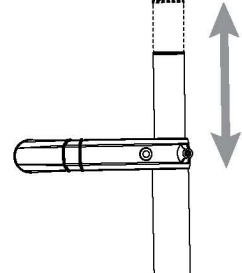
☐ Folding w/ Locking



☐ Fixed



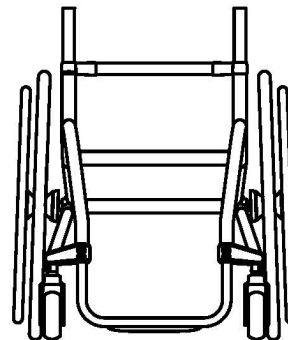
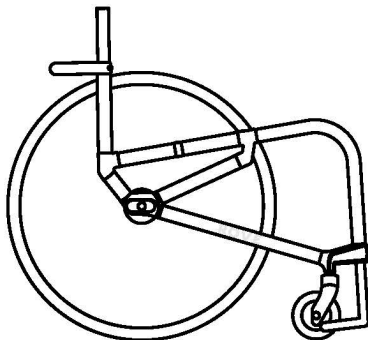
☐ Telescopic / Adjustable



Additional Customisations

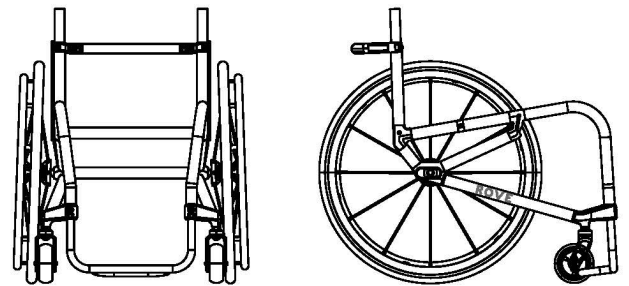
Please add in here other required customisations.

Please mark up the wheelchair below to help explain what is required.





Advanced Ultra-Lightweight Fixed Frame Day Wheelchair






Customer Name _____
Therapist Name _____
Scripter Name _____

Wheelchair Options + Accessories

Footrest Style

- ☐ Open Loop 
- ☐ Plastic Plate 
- ☐ Angle Adjustable Plate 
- ☐ Carbon Plate 
- ☐ Winged Carbon Plate  **COMING SOON!**

Front Castor Forks

- ☐ Standard Lightweight Fork 
- ☐ Unitine Lightweight Fork 
- ☐ Frog Leg Phase 2 

Front Castors

Wide Soft Roll, Aluminium Hub

- ☐ 3" x 1.4"
- ☐ 4" x 1.4"
- ☐ 5" x 1.4"



RollerBlade Castor

- ☐ 76mm
- ☐ 100mm

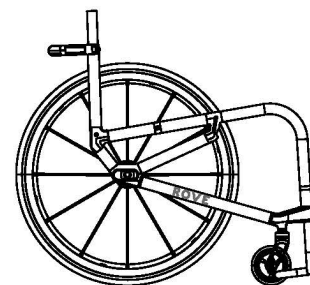
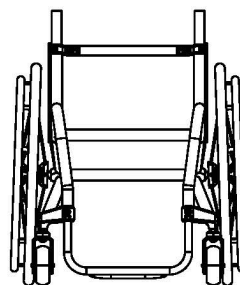


Select Colour

- ☐ Black
- ☐ Silver
- ☐ Custom Anodised



Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



Customer Name _____

Therapist Name _____

Scripter Name _____

Wheelchair Options + Accessories

Rear Wheels

☐ 20" (451) ☒ 22" (501) ☐ 24" (540) ☐ 25" (559) ☐ 26" (590)

☐ No Rear Wheels



☐ Spinergy LX



☐ Spinergy CLX



☐ Spinergy SLX



☐ Spinergy LXL



☐ Spinergy Blade LXL



☐ Spinergy XLX



☐ Spinergy XSLX



☐ Carbon Blade



☐ Off-Road Rim



Axle Type

☐ Standard (Steel)



☐ Standard (Titanium)



☐ Quad Release (Steel)



Hand Rims

☐ None



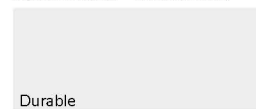
☐ Alloy



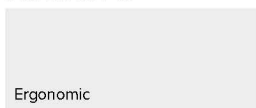
☐ Titanium



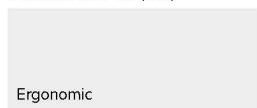
☐ Stainless Textured



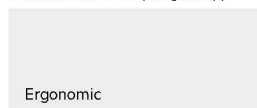
☐ Natural Fit



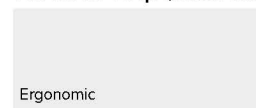
☐ Natural Fit (Lite)



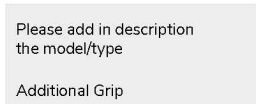
☐ Natural Fit (Surge Grip)



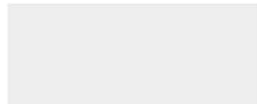
☐ Natural Grip (Thumb Guard)



☐ Carbo-Life

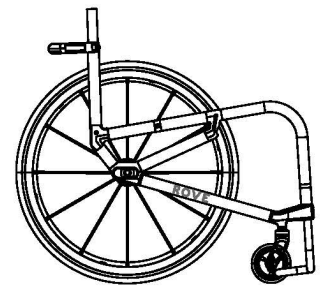
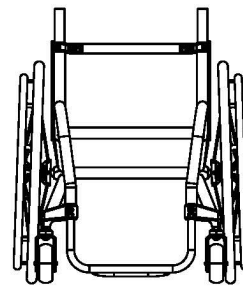


☐ Q-Grip





Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



Customer Name _____
Therapist Name _____
Scripter Name _____

Wheelchair Options + Accessories

Tyres

- ☐ Schwalbe One ☐ Schwalbe Marathon Plus ☐ Schwalbe Billy Bonkers



1.00"

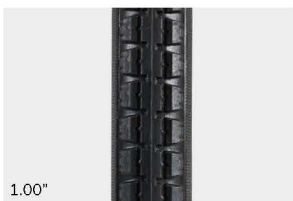


1.00"



1.50"

- ☐ Solid PU Tyre ☐ Schwalbe Marathon Plus ☐ Custom Tyre



1.00"

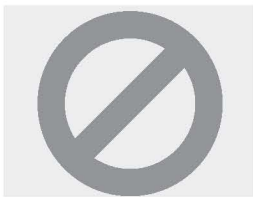


1 3/8"

If a custom tyre is required please
add details here:

Brakes

- ☐ No Brakes ☐ Eagle Scissor Lock ☐ Push Locks ☐ Hub Locks



Alloy



Composite



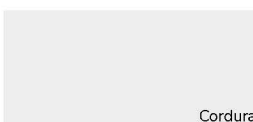
Internally
Routed

COMING SOON!

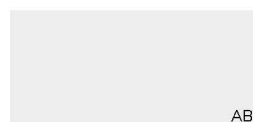
Side Guards

- ☐ None ☐ Fixed ☐ Removable ☐ No Rubber Edging

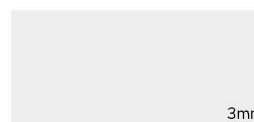
- ☐ Fabric ☐ Plastic ☐ Carbon Straight



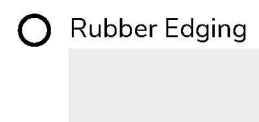
Cordura



ABS

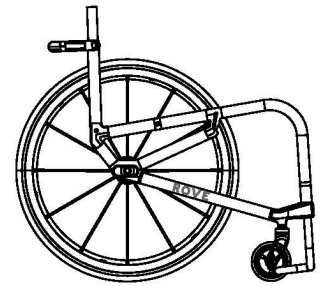
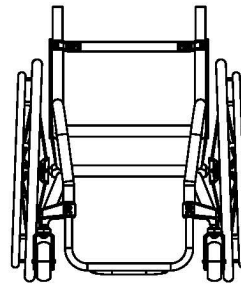


3mm





Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



Customer Name _____
Therapist Name _____
Scripter Name _____

Accessories

Handles

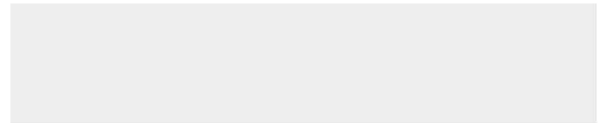
- ☐ No ☐ Yes



Folding + Removable

AntiTips

- ☐ No ☐ Yes



Under Chair Bag

- ☐ No ☐ Yes



Perfect for phone, keys and everyday objects.

Neoprene Hanger Protectors

- ☐ No ☐ Yes

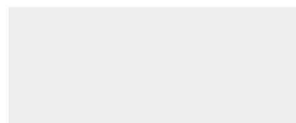
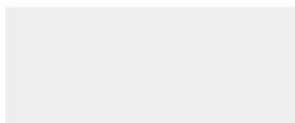


Protects the frame

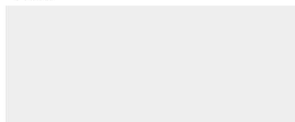
Seating

Seat Base

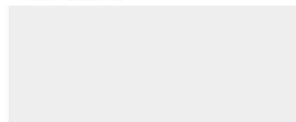
- ☐ Lightweight Mesh Fixed ☐ Lightweight Mesh Wrap-Around ☐ Rigid Carbon Seat Composite



- ☐ Solid Fabric Fixed



- ☐ Solid Fabric Wrap-Around



Backrest Upholstery

- ☐ Standard Lightweight ☐ Heavy Duty ☐ Rigid Backrest



Breathable + Light

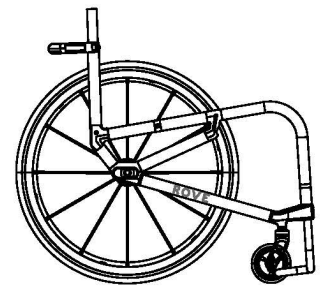
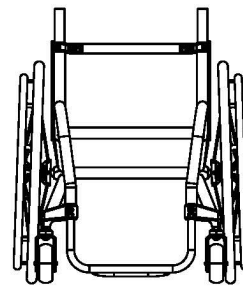


Cordura Fabric

Please provide details below of required rigid backrest.



Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



Customer Name _____
Therapist Name _____
Scripter Name _____

Cushion

☐ No Cushion



Foam Cushion

☐ 1"

☐ 2"

☐ 3"

☐ Medical Cushion

Please provide brand + description of cushion in additional comments if selected.

Wheelchair Finish

Lug Finish

☐ Satin (Blasted)



Standard

☐ Polished



Standard

☐ Hard Coated Lugs



Gold

(TIN)



Grey

(TICN)



Purple

(TiAIN)

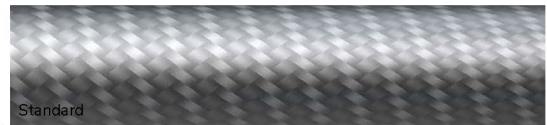


Rose Gold

(TiAl)

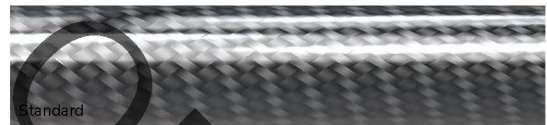
Carbon Tube Finish

☐ Matt



Standard

☒ Gloss



Standard

☐ Colour Tinted Carbon



Please provide description of colour used in carbon tube tint.

☐ Full Colour Paint

Please provide description of full colour paint in description box below. Including colour, location and as much description as possible.

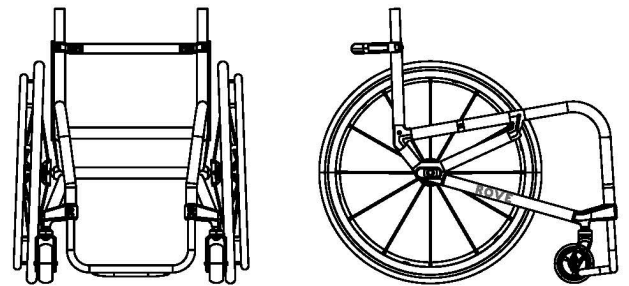
☐ Custom Paint

Please provide description of full colour paint in description box below. Including colour, location and as much description as possible.

Please provide any finish requirements or details below:



Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



Script Summary

Serial Number: _____

Script Date Issued _____
Script Revision _____

Seating + Wheelchair Fit

Seat Width _____ mm
Seat Depth _____ mm
Seat Height - Front _____ mm
Seat Height - Rear _____ mm
Back Height _____ mm
Back Angle _____ deg
Seat to Footplate _____ mm
Footplate Width ☐ XS ☐ S ☐ M ☐ L ☐ XL
240mm 260mm 280mm 300mm 320mm

Frame Options

Frame Type ☐ Open ☐ Closed
Seat Type ☐ Non-Ergo ☐ Ergo
Backrest Folding Type ☐ Rigid ☐ Folding
Backrest Adjustment Type ☐ Fixed ☐ Adjustable
Front Hanger Taper Style ☐ Pro-T ☐ V-Front
Castor Fork Type ☐ Lightweight ☐ Unfine
☐ FrogLegs 2
Castor Type/Size ☐ SoftRoll (3") ☐ SoftRoll (4")
☐ SoftRoll (5") ☐ Castor (76mm)
☐ Castor (100mm)
Castor Colour ☐ Black ☐ Silver
☐ Custom

Wheelchair Feel

Centre of Gravity _____ mm
Seat Rail Extension _____ mm
Grab Bar Height _____ mm
Overall Frame Length _____ mm
Castor Pivot Position _____ mm
Castor Centres Position _____ mm
Camber Angle _____ deg
Overall Width _____ mm

Options

Wheel Offset ☐ 25mm ☐ Custom
Side Guard Type ☐ Fixed ☐ Removable
Side Guard Design ☐ Fabric ☐ Plastic
☐ Carbon ^(Straight) ☐ Carbon ^(Curved)
Push Handles ☐ Yes ☐ No
AntiTips ☐ Yes ☐ No
Brake Type ☐ Scissor Lock ☐ Push-to-Lock
☐ Hub Lock
Footplate Type ☐ Open ☐ Plastic
☐ Adjustable ☐ Carbon ^(Flat)
☐ Carbon ^(Winged)
Underchair Bag ☐ Yes ☐ No
Frame Protectors ☐ Yes ☐ No

Rear Wheel Options

Wheel Size ☐ 20" ☐ 22" ☐ 24" ☐ 25" ☐ 26"
240mm 260mm 280mm 300mm 320mm
Wheel Type ☐ None ☐ LX ☐ CLX ☐ SLX ☐ LXL
Standard Standard Standard Standard Standard
☐ LXL ☐ XLX ☐ XSLX ☐ Blade ☐ OffRoad
Blade Standard Standard Carbon Spinegy
Tyre Type ☐ One ☐ M.Plus ☐ M.Plus ☐ Solid ☐ Billy.B
Schwalbe Schwalbe Schwalbe Schwalbe Schwalbe
☐ Custom Tyre
Hand Rims ☐ None ☐ Alloy ☐ Ti ☐ S.Steel ☐ NF
Handrim Handrim Handrim Handrim Standard
☐ NF ☐ NF ☐ NF ☐ CarboLif ☐ Q-Grip
Life Surge Tb Guard Handrim Handrim

Seating + Upholstery

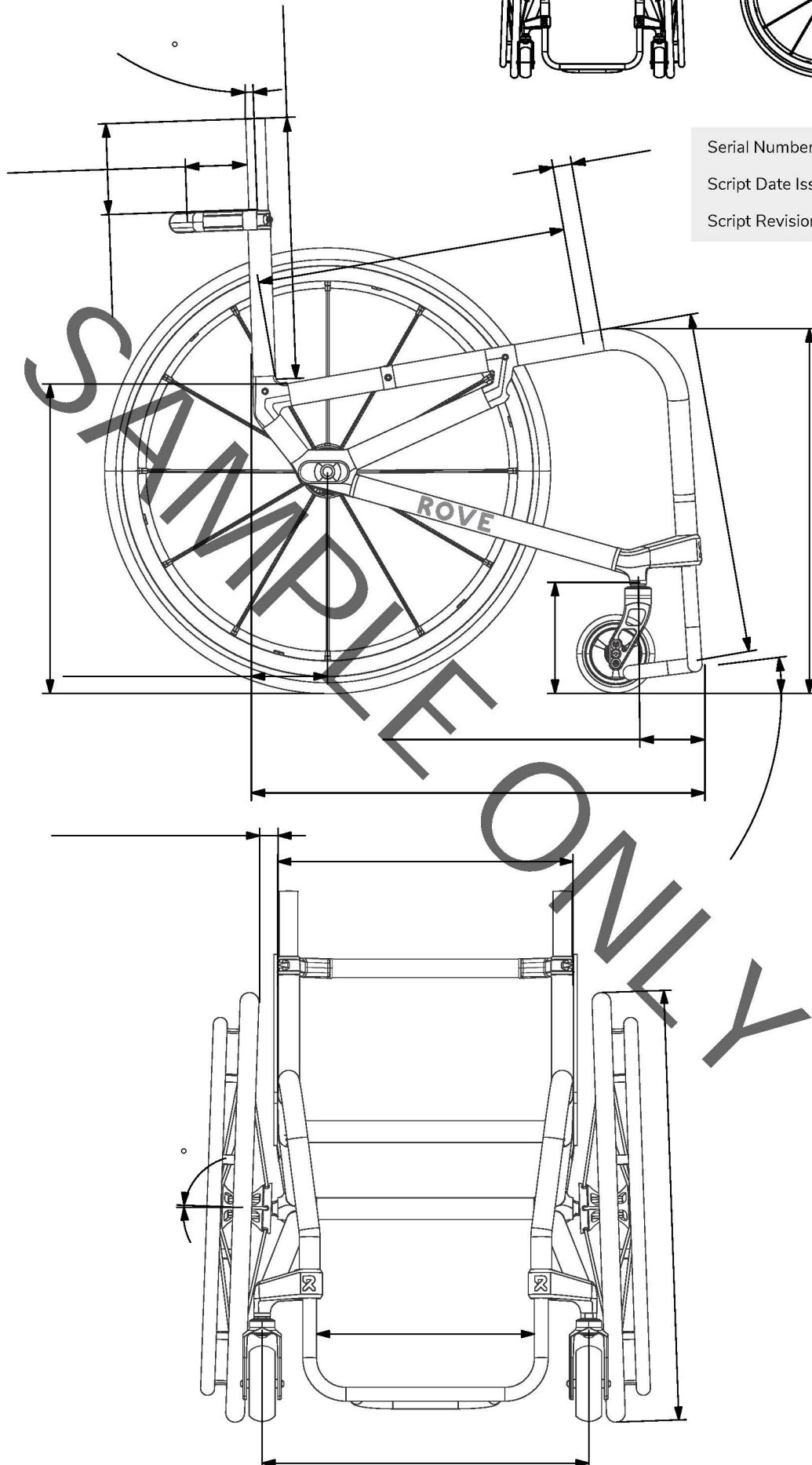
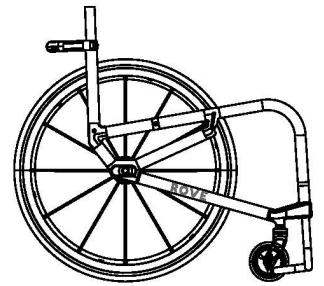
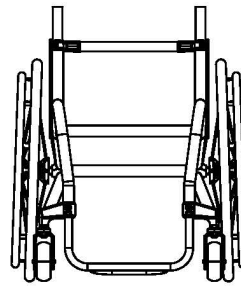
Seat Base Type ☐ Mesh ^(Fixed) ☐ Mesh ^(Wrap-Around)
☐ Fabric ^(Fixed) ☐ Fabric ^(Wrap-Around)
☐ Carbon
Upholstery Type ☐ Lightweight ☐ Heavy Duty
☐ Custom ☐ Rigid Back

Wheelchair Finish

Carbon Finish ☐ Matt ☐ Gloss ☐ Colour Tint
Titanium Lug Finish ☐ Satin ☐ Polished ☐ Coated
Other Finishes ☐ Full Paint ☐ Custom
Custom Details: _____



Advanced Ultra-Lightweight Fixed Frame Day Wheelchair



Serial Number
Script Date Issued
Script Revision



ROVE. A New Era.

ROVE Braking System

Frame integrated.
Lightweight & stylish.



3D Printed Titanium

Ultra-lightweight.
Strong.



Upholstery Re-Imagined

High flow breathability.
Superior comfort.



Your Style

A reflection of you.
Customised finish
and accessories.



ROVE Flip Chip*

Integrated. Adjustable.
Lightweight.

*Patent Pending.

Price
Fully Customisable?
Frame Weight
Transport Weight
Weight Limit
Warranty
Compatible with power assist?
Compatible with medical cushion?
Compatible with custom wheelset?
Compatible with Freewheel?
Folding
Adjustability
Optional Extras
Manufacturing Country

\$12,950 AUD - \$22,000 AUD
Yes - Frame size, angles, sideguards, footplate and aesthetic
Approx. 1.8kg - 2.4kg
Approx. 3.6kg - 4.9kg
110kg
3 years on frame, 1 year on parts
Yes - Smartdrive, Smoov, Batec, E-motion and more
Yes
Yes
Yes
Folding backrest optional
Centre of gravity can be changed into 3 different positions
Anti-Tip, Push Handles, Frame Protection, underchair storage, inbuilt pouches
Handmade in Melbourne, Australia



Since being founded in 2020, ROVE is committed to bringing cutting-edge designs and technology into wheelchairs and assistive technology products.

We are a paralympian and long-term wheelchair user, an engineer who has spent time in a wheelchair and a father of a wheelchair athlete. Each founder has a unique story that unites us. Together we are committed to manufacturing a fully customised, ultra-lightweight wheelchair to suit your individual lifestyle.



**Have questions?
Enquire with us now.**

info@rovewheelchairs.com

1300 007 683

