



Lifestyle Brochure

Ultra-Lightweight Wheelchairs





NITRUM, THE ENERGY INTO MOTION CONCEPT.

The original QUICKIE is an icon that's influenced wheelchair design for over 40 years. What made it so special? A revolutionary design principle that minimised propulsion effort whilst maximising movement - or what we like to call **Energy into Motion.**

The NITRUM was born to redefine that principle. To find a perfect harmony of weight, rigidity, fit and fine-tuning. Because when those come together, that's when you truly achieve energy into motion.

So we refined every detail for weight-saving rigidity. Creating aerospaceinspired oval tubing that's lighter, stiffer and stronger like no other. And we did it whilst increasing adjustability and sizing. The result? A wheelchair that harmonises your geometry with its own. Positioning you for maximum energy transfer, so you get direct reactions with minimal effort.

A seriously-addictive ride, the NITRUM lets you to go further, faster and longer without the worry of fatique. Easy to fine-tune and even easier to lift, it's a wheelchair that's shaped around you - and your everyday life. Lets take you through our new spin on Energy into Motion.

Augmented Reality

Visit the link above to see the NITRUM in your own environment with the AR online feature.

LIGHTEST IN ITS CLASS, STRONGEST IN ITS DIVISION.

This is innovative engineering at its best. We employ state-of-the-art materials and principles to minimise weight (from 7.5 kg) and maximise frame rigidity, so you can go further, faster and for longer without the worry of fatigue.



Oval frame tubing

With fewer stress points thanks to its elongated sides, QUICKIE's unique oval tubing is stronger than a conventional round tube. Less likely to flex under pressure, the eloquent oval frame is also lighter as the shape uses less material. But that's not all - frame clamps can't rotate on an oval shape, so there are less moving parts too!

The material difference: 7020 Aluminium

Increasing strength doesn't always mean increasing weight. That's why the NITRUM's oval frame is sculpted from aerospace-grade 7020 Aluminium. Boasting exceptionally high strength-to-weight ratio, we specially heat-treat the 7020 to unlock its true potential. The result is a hardened frame that can be significantly thinner and lighter without any sacrifice to strength.

The result? A lighter, stronger 7.5 kg ride that transfers every inch of your push to propulsion, giving your shoulders a well-deserved day off.



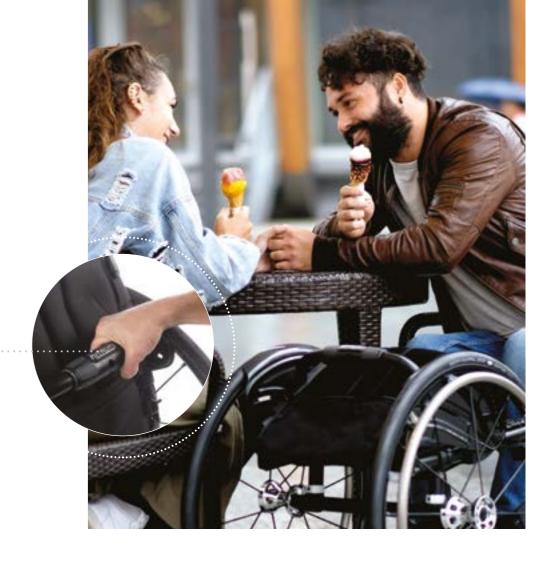


Easy car transfers with an open-frame design

Clean and minimalistic, once the rear wheels are removed, the underneath of the frame is completely open, so it can be easily lifted across (and closer to) your body when getting in-and-out of a car. The short axle tube and folding back help to save extra space.

A unique-twist to backrest folding

With **one hand**, simply grab the (optional) Twist-and-Lock backrest bar and twist it to release, fold and load the NITRUM into your car. With double-locking, you can also use the same bar to lift the chair. It'll also lock without removing your sideguards or low-profile cushion too.



Standard, push-bar release backrest

This push-bar provides a simple-to-use, quick-release folding mechanism. Just pull the bar upwards to un-lock and fold. Incredibly robust, it won't loosen over time. Available with double-locking, you can also fold the back with sideguards and a low profile cushions still on your wheelchair.



Designed to fit you.

The better the wheelchair fits you, the better it is at responding to you. That's why the NITRUM provides such a comprehensive choice of sizes - and it does it without any sacrifice to weight or rigidity:

- 1 3 Frame Angles: 88, 92 or 100°
- 2 3 Frame Insets: 0, 1 or 3 cm
- 3 2 Frame Lengths (long/short)
- 4 90 Seat width/depth combinations
- 5 Lower leg length selection
- 6 16 Castor house positions (preset)











The QUICKIE NITRUM is also available in larger seat width sizes of 480 and 500 mm.

FINE-TUNED PERFORMANCE.

Adjustability usually meant compromising rigidity or weight. However, the NITRUM maximises its adjustments, strength and stiffness without welding, so you can keep your ride fine-tuned for the very-best performance.

Height & angle adjustable backrest

Backrest brackets that have a dual-function of folding and angle-adjustment lose energy through movement of its parts. Instead, we've split it into two separate mechanisms. Made from forged aluminium, the bracket is extremely stiff with virtually no play. So it's significantly more energy efficient and you can still adjust the angle and height too.



Centre-of-gravity

Sitting too-far back in your wheelchair can decrease your propelling efficiency. Similarly, sitting too far forward can reduce rolling resistance. If you need to change your seated position over time, it can be easily adjusted with stepless centre-of-gravity adjustment (from 20 to 100 mm) via the positioning bolts under the seat sling.



Adjustable castor system

Instead of multiple welded parts, the patented castor mechanism is one hollow-forged component. Stronger, lighter and completely adjustable, the castor height and angle can be changed to improve handling whilst you're IN your wheelchair. Super-strong, the hollow-forged castor link is ideal for a power add-on too.







Block-and-Tackle Seat Upholstery

The easy-to-use tension adjustable straps can be easily tightened with less force - and remains tighter over a longer period of time compared to previous versions.



Freestyle Backrest

This back is all about freedom of movement. By providing a 360° range of upper body motion, you can freely twist and turn without catching your backrest posts.



Compact Wheel Lock

Completely redesigned, the compact wheel lock EVO is stronger, more durable and has a great transfer-friendly design. Looking to save weight? The direct-mount version provides a 180g weight reduction.

Get a super-light ride with these weight-saving options:



Titanium Axle Pin



Carbon Slim-Style Sideguards



Carbon Composite Castor Forks



Carbon Axle Tube

PERSONALISED PERFORMANCE.

QUICKIE has always been about how you roll. That's why you can dress your NITRUM to impress with an out-performing choice of colour and styling options.

Dark Chocolate

Cyan Metallic

Mars Red

Cappuccino

Flamingo Glitter

Matt Anthracite

Azure Blue

Sky Blue

32 Frame, Handrim & Hub/Rim Colours:



Brilliant Marine Matt Marine

Blue

Brilliant Purple

Matt Purple Red Ruby

Brilliant Red

Matt Red

Tuti Frutti Orange

Upholstery Trim Colours Black / Red / Blue / Orange / Silver



Anodized Castor Forks Silver / Blue / Red / Orange / Black



Anodized 24" Lightweight WheelsRed / Orange / Blue



Frame GraphicsBlack / Red / White / Yellow / Blue



The colours and finishes reproduced in this brochure are subject to the limitations of the printing process and may cary from the actual colour and paint finish.

SPECIFICATIONS

DIMENSIONS

| Seat width | 320 - 500 mm (in 20 mm steps) |
|-------------------|-------------------------------|
| Seat depth | 340 - 500 mm (in 20 mm steps) |
| Front seat height | 430 - 550 mm |
| Rear seat height | 300 - 550 mm |
| Backrest height | 250 - 450 mm |
| Backrest angle | from 59° to 105° |
| Frame versions | Rigid, Open-Frame |
| Frame angle | 100°, 92°, 88° |
| Castor wheel size | 3", 4", 5", 6" |
| Rear wheel size | 24", 25" |
| | |

WEIGHTS & USE

| Maximum user weight | 125 kg |
|--------------------------|--|
| Wheelchair weight | From 7.5 kg |
| Transport weight | From 4.9 kg |
| Crash tested | Yes (approved for transport in a vehicle according to ISO 7176-19 |
| Intended use environment | For people unable to walk and with limited mobility: inside and outside. Operation to user or assistant. |



Build your perfect NITRUM today with our online visualiser. Create the wheelchair of your dreams with our many options available. Visit sunrisemedical.co.uk/NITRUM for this and more!



Perfect match! See how the NITRUM looks in front of your very eyes with our Augmented Reality application. Scan the barcode with your phone's camera to see the NITRUM in your own environment with the AR app.

Ready to have some fun? Use our online visualiser to create the NITRUM of your dreams!

Online Visualiser

Visit the online visualiser to build and edit your own QUICKIE Nitrum wheelchair!



In line with our policy of continual product improvement, Sunrise Medical reserves the right to make changes at any time, and without notice. For the latest information, please visit www.sunrisemedical.co.uk/nitrum



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