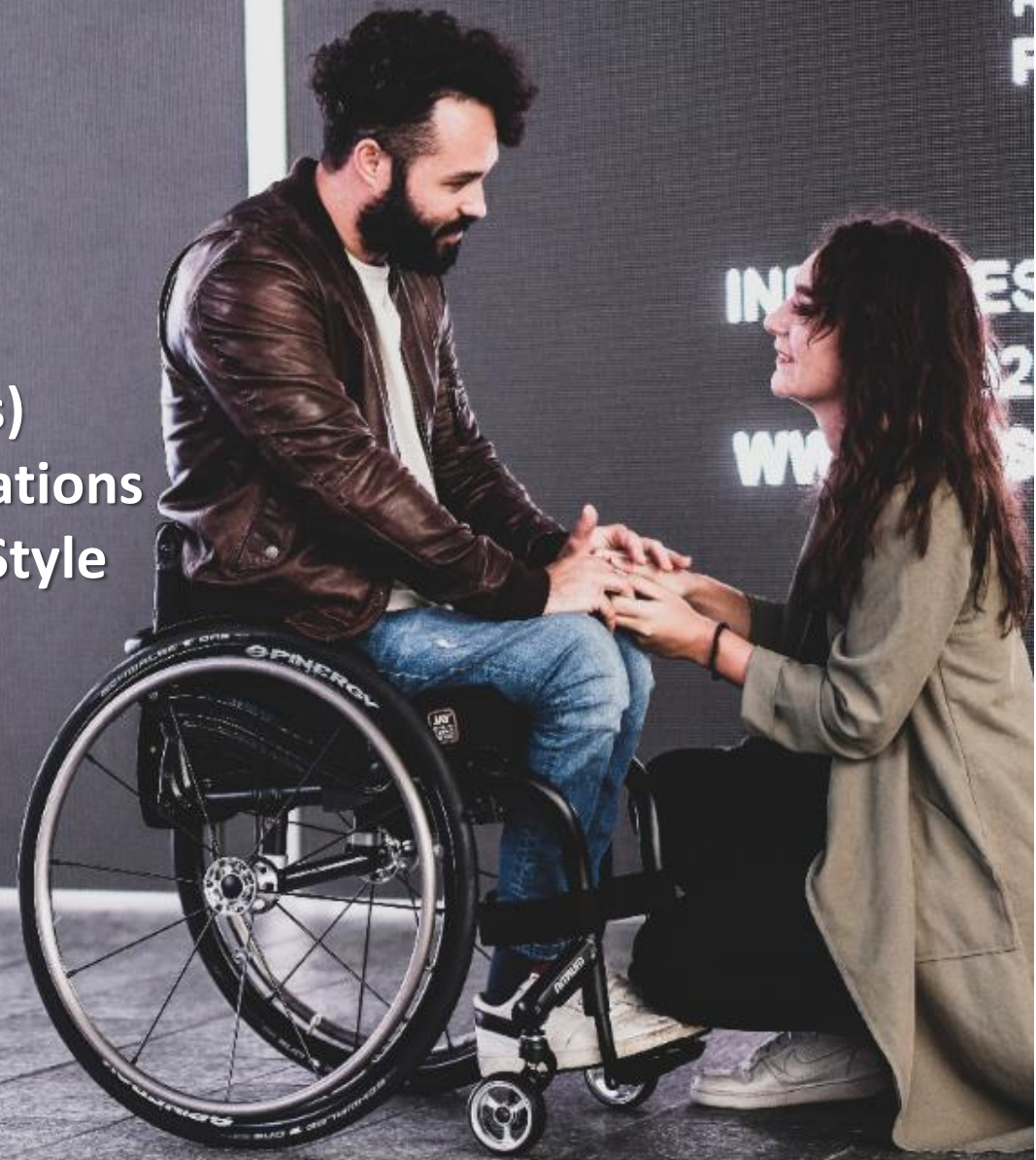


NITRUM

THE NITRUM

- Lightest in class
- Most configurable (32 frame-versions)
- User-driven Innovations
- Performance and Style



THE NITRUM

Marketing Campaign:
Performance and Style



THE NITRUM: THERAPEUTICAL



The benefits of configurability and adjustability

- The perfect chair for every user: no weight-penalty for light users
- Perfect positioning with 3 frame-angles and 3 insets
- Positioning is crucial for propulsion-efficiency: weight balance and handrim-access have a tremendous effect on propulsion-torque
- Adjustability of CoG: -15% rear-wheel load (more passive CoG) will increase propulsion torque during acceleration by 17%

Why weight matters

- Easier to propel: +1kg of weight will increase propulsion-torque by 2%
- Improved handling and maneuverability
- Transportability: weight can be the key to independence
- Lightweight requires high-level materials and will increase durability

THE NITRUM: FRAME-VERSIONS

- 7020 Aluminium, ovalized for optimized weight-to-stiffness ratio
- Open or Hybrid-frame- consider the following:
 - user-weight (125kg vs. 140kg)
 - chair weight (Hybrid: + 980g)
 - usage (i.e. often used with handbike or add-on-devices)
 - transportation (open frame is easier to handle and stow)
- Fixed-welded PRO-options
 - Optimised weight-to stiffness ratio (-300g with fixed-welded backrest)
 - Also available with folding backrest if necessary for transportation
 - Also available with Freestyle backrest
 - CoG is adjustable +/- 10mm
 - Option for experienced users and dealers

Hybrid and Pro-versions to be launched with Part 2



THE NITRUM: FRAME-VERSIONS

Do the math:

8 angle/inset-versions x open/hybrid-frame x adjustable/ fixed-welded
= **32 frame versions** in 90 seat-width (up to 500mm)/ seat depth-combinations

Angle	0 ins	10 ins	30 ins
100°	X	X	X
92°	x	x	x
88°	x	-	x

- **Frame angle is determined by:**
 - positioning of feet
 - accommodation of lower legs
 - positioning of the pelvis
 - Mobility of joints and Spasticity
 - 100° frame will add 45 mm frame-length compared with a 92° frame
 - 88° frame will reduce 40mm frame-length compared with a 92° frame

Will also affect:

- Front-end stability
 - turning radius
 - Center of Gravity
- **Frame length: add 20mm extra frame length for increased front-end stability**
 - Will also affect
 - Turning radius
 - Center of Gravity
- **Inset: choose between 0mm, 10mm or 30mm per side**
 - Position and stabilize lower legs
 - Has the potential to reduce spastics
 - Will decrease the front-frame width
 - Consider sufficient space for feet: seat-width -10mm- 2x inset



THE NITRUM: FRAME-VERSIONS

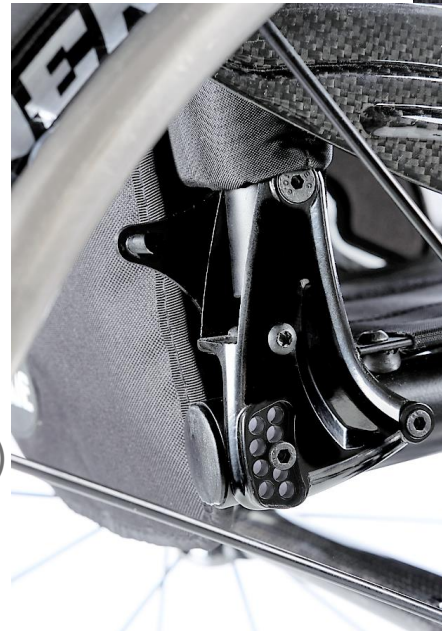
- **New caster-link Design**

- Unique, bold design
- High strength: one-piece, hollow-forged aluminium
- Re-inforced design of the caster mechanism
- **Optimised caster-position** for every frame-angle/inset/ caster-size improves handling and propulsion-efficiency
- **6-way adjustment:** angle , straight-run and height (=> no more floating casters)



- **New backrest-brackets**

- Forged aluminium
- Separates angle-adjustment and folding-mechanism
- Easy to adjust
- More stability, less play
- Double-locking available (angle-adjustable)
- 5 anodized colours available



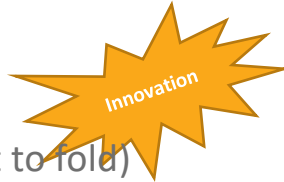
THE NITRUM: BACKREST VERSIONS



- **Aluminium backrest**
 - with **release-bar** (push-up to fold)
 - Height-adjustable in 25mm increments
 - Double-locking available as an option

Bild

- **Aluminium backrest, twist-lock**
 - With **Twist-Lock** handle (twist to fold)
 - “Double-shot” handle for improved “grip”
 - Height from 275mm-450mm, fixed height
 - Double-locking available as an option




- **Lightweight aluminium backrest**
 - with release-bar (push-up to fold)
 - Height from 250mm-450mm, fixed height
 - -200g weight
 - Crosstube available in “wide” and “close”
 - Double-locking available as an option

- **Freestyle backrest**
 - With J3 Carbon backrest-shell: optimised positioning, therapeutical adjustment

- **Double-locking** is now angle-adjustable: can be adjusted to lock with cushion on the chair



THE NITRUM: TWIN-LED LIGHT

- LED Light on the caster-links 
- Composite housing, water- and shockproof
- 4 LED per side light-up the area around the caster-wheels
- 3 Modes: high, low, blink
- Control-Box incl. Li-Ion battery mounted to the calf-strap (detachable for charging), 4hrs runtime
- Improved visibility and vision in the dark=> safety feature



THE NITRUM: SEAT UPHOLSTERY

- **Seat upholstery (Standard)**

- Tension adjustable
- Breathable fabric
- Block-and tackle tension-adjustment: easy to tension (double-force), stays tense



- **Strap-style (airflow) seat-sling** available as option



- **Bolts for CoG adjustment** are now accessible from the bottom for quick and easy CoG-adjustment



THE NITRUM: COMPACT BRAKE



- **Compact brake EVO**
 - Reinforced bi-lateral housing: less play, improved durability
 - Improved brake-force and handling
 - Keeps locked when moving the wheel
 - Weight-saving compared to predecessor: 60g
 - Transfer-friendly design
- As well available as lightweight Compact (direct mount, 180 g weight-saving)



THE NITRUM: OPTIONS

Numerous options available

- Flip-back and inwards-option for sideguards
- Neoprene frame protection
- Carbon axle-tube
- Free-Style Back
- Carbon-Composit Caster
- Colour options incl. Floating dots
- Ellipse and Carbolife handrims
- Flip-back footboard
- Divided Footboard
- Handbike-Axle
- Flip-up anti-tip (user operated)
- Sports anti-tip
- Transit-wheels
- One-arm brake
- Crash-test Option
- WheelDrive-Bundling
- Tubular armrest
- JAY Bundling
- Etc...

