

# QUICKIE Live without limits.

## NITRUM NITRUM HYBRID



## reddot winner 2022

Base Price Nitrum Hybrid **€ x.xxx,-**



CE

Rev:11/2024 Valid:11/2025

ORDER FORM	Errors and omissions excepted.
CID:	CID:
Name:	Name:
Street:	Street:
Town/PC:	Town/PC:
E-Mail:	E-Mail:
Phone:	Phone:
Order Information	User Weight
Order Calculation Built-4-Me®	NTR010034 (max. user weight 125 kg) NTR010035 (max. user weight 140 kg)
Purchase Order No.:	Art. No.: 66000004 Art. No.: 66000003
Reimbursement Code: xxx	User Weight: kg
Order Date: Day Month Year	Base Price Nitrum <b>£x.xxx,-</b>

## Please follow this measuring method:

The following method is recommended on the basis of extensive practical experience. Deviations are possible in individual instances.

## Seat width (SW):

a) For the user: Allow space between sideguard and hip on each side of the chair (approx. 10 - 20 mm altogether).

b) On the wheelchair: From outside frame tube to outside frame tube.

## Seat depth (SD):

- a) For the user: When sitting upright: leave space for 2 3 fingers between front edge of the seat upholstery and back of knee (approx. 30 60 mm). Care must be taken with adjustable upholstery.
- b) On the wheelchair: From back tube to front of seat upholstery.

c) Nitrum with angle-adjustable backrest; use the backrest bracket as base for the measurement and then add 6mm (wall-thickness of the backrest-bracket) to achieve a correct measurement.

## Front seat height:

- a) For the user: When sitting with 90° kneeangle: From back of knee to bottom of shoe sole.
- b) On the wheelchair: From front edge of the seat-upholstry, next to the seat-tube to the ground (min. 30 mm longer than user measurement). Remember to include the cushion height.

## **Rear seat height:**

On the wheelchair: From rear edge of the seat-upholstery, next to the seat-tube to the ground. **Note:** Maximum seat height difference rear to front is 130 mm.

## **Back height:**

a) For the user: From the seat, including cushion, to be no more than 10 - 20 mm below the lower shoulder blade.

b) On the wheelchair: From top of the seat-upholstery to upper edge of backrest upholstery.

Note: The user's ability to sit upright has a major influence on the back height and it can therefore differ considerably.

## Back angle:

**Important:** The back height depends on the degree of disability. 0° is the angle 90° to the ground. Negative angles are <90°

(-) and positive angles are >90 $^{\circ}$  (+)

Technical Data				
Overall width:		Overall width with:	24" Rear wheel	25" Rear wheel
Overall width:		For 0° camber:	SW + 170 mm	SW + 170 mm
Max. overall height:	1120 mm	For 3° camber:	SW + 230 mm	SW + 240 mm
Max. overall length:	910 mm	For 6° camber:	SW + 290 mm	SW + 300 mm

Please note that the matrix is based on a std configuration: **Standard wheelchair 400 x 400 mm; 560 mm COG; Seat angle of 8°** All changes in the configuration might change the seat heights. Manufacturing tolerances of +/- 10 mm

## Weight

We want to be very transparent on weight. The following information will be a guide to the lightest possible Nitrum: how to achieve a 7,5 kg wheelchair, and how to order the lightest possible configuration for your Nitrum.

#### Nitrum: 7,5 kg configuration

Frame: high frame, 92°, 30 mm inset, seat width: 360 mm, seat depth: 400 mm. Seat height: front 470 mm, rear 430 mm. Seat-sling Airflow superlight

Footrest: tubular footrest



Forks and casters: 111 mm carbotecture fork; 4" Castor, solid (soft), rim: carbon-composite, ultralight **Backrest:** Lightweight Aluminium backrest, push-bar release, 325mm height; without push-handles

Sideguards: Carbon fibre, slim-style

Axle-tube : Axle-assembly superlight, Carbon

Wheel-locks: Lightweight compact brake EVO

**Rear wheels:** 24" Proton wheels with Aluminium handrims (coated or anodized) and Schwalbe One tyres; quick-release axles superlight, titan

(Please mind that there is a 5% tolerance on all weight specifications due to weight deviations on mounting parts (tyres, caster-wheels etc.)

#### Lightweight-Guide for ordering the Nitrum

Sunrise Medical offers a wide variety of options for the Nitrum to suit every user's needs. However, most options add significant weight to the wheelchair. To make this more transparent when filling in the order-form, and to assist you in ordering the lightest possible wheelchair, we indicate the approximate weight-increase of the options on the order form:

- (L) Indicates the lightest possible option within the range of options
- (+) Indicates that this option adds more than 500 g to the wheelchair's weight compared to the lightest option within the range

#### **Lightweight-Options for the Nitrum**

We developed several options for the Nitrum to save weight on the chair without sacrifing daily-use suitability, comfort or durability



// Seat sling, Airflow, superlight (NTR020019): fully adjustable seatsling with composite buckles and lighter straps (max. user weight 85 kg) (-120 g compared to seat sling "airflow")

#### Lightweight aluminium backrest, push-bar release (NTR030159): (-180 g compared to Standard backrest)



// Axle-assembly superlight, Carbon (NTR010403):(only 0° camber): glued into the axle-tube, no adjustability of the track-width possible (-160 g compared to NTR010402 carbon axle-tube)



// Castor, solid (soft), rim: carbon-composite, superlight (NTR080060): lightweigt rim, made of carbon-composite material (-80 g compared to Castor, solid (soft), rim: aluminium)



// Quick-release axle superlight, Titan (NTR070153): (-70 g compared to Standard steel quick-release axles)

XXX,-

XXX,-

Nitrum		€
NTR01	0034 Open frame, backrest-angle and CoG adjustable, 125 kg max user weight	XXX,-
NTR01	0035 Hybrid frame, backrest-angle and CoG adjustable, 140kg max user-weight	XXX,-

## Pro Options for Nitrum and Nitrum Hybrid: fixed welded center of gravity and backrest-angle

Important Note: Please check your measurements carefully as a Nitrum Pro is non returnable.

No adjustment of rear seat-to-floor height possible; only +/- 10 mm center of gravity adjustment.

- NTR010036 Pro: Open frame, fixed welded CoG, 125kg max. user-weight
- NTR010037 Pro: Hybrid frame, fixed welded CoG, 140kg max. user-weight

#### **Backrest-style for Pro versions**

NTR010044	Fixed welded, n Backrest Uphols			ble (choose ang	le and backrest-	height below. (	choose Push han	dles and	-		
Angle (to the ground)	-4° (86°)	-2° (88°)	-0° (90°)	+2° (92°)	+4° (94°)						
Backrest height	275	300	325	350	375	400	425	450			
NTR030404	Backrest cross-	tube, wide (78 r	nm clearance be	etween backres <sup>-</sup>	t upholstery and	l cross-tube)			-		
NTR030403		Backrest cross-tube, narrow (48 mm clearance between backrest upholstery and cross-tube)									
NTR010038	Angle-adjustab additional upch			her backrest opt	tions in the "Bac	krest"- or "Free	style-backrest"-:	section-	-		





// Nitrum Hybrid Pro



// Nitrum Pro

(mm)	320	340	360	38	0	4	00		420		440		460		48	80	Ę	500
Seat Depth																		
(mm)	340	360	380		400	D		420		44(	)		460		480	כ	ļ	500
Front Seat Hei	ght (in mm	)				,												
Fork (Length)			Frame (2)	430	440	450	460	470	480	490	500	510	520	530	540	550	560	57
3″																		
3" / 111 mm (1)			Low				-	-	-	-	-	-	-	-	-	-	-	-
3" / 111 mm (1)			High	-	-	-	-				-	-	-	-	-	-	-	-
4″																		
4" / 111 mm (1)			Low	-					-	-	-	-	-	-	-	-	-	-
4" / 123 mm			Low	-	-					-	-	-	-	-	-	-	-	-
4" / Frog Leg			Low	-	-	-	-				-	-	-	-	-	-	-	-
4" / 111 mm (1)			High	-	-	-	-	-					-	-	-	-	-	-
4" / 123 mm			High	-	-	-	-	-	-					-	-	-	-	-
4" / Frog Leg			High	-	-	-	-	-	-	-	-				-	-	-	-
5″																		
5" / 111 mm (1) (3)			Low	-	-	-				-	-	-	-	-	-	-	-	-
5" / 123 mm			Low	-	-	-	-				-	-	-	-	-	-	-	-
5" / Frog Leg			Low	-	-	-	-	-	-	-	-			-	-	-	-	-
5" / 111 mm (1) (3)			High	-	-	-	-	-	-	-				-	-	-	-	-
5" / 123 mm			High	-	-	-	-	-	-	-	-				-	-	-	-
5" / Frog Leg			High	-	-	-	-	-	-	-	-	-	-	-	-			
6″																		
6" / 123 mm			Low	-	-	-	-	-				-	-	-	-	-	-	-
6" / Frog Leg			Low	-	-	-	-	-	-	-	-	-	-		-	-	-	-
6" / 123 mm			High	-	-	-	-	-	-	-	-	-				-	-	-
6″ / Frog Leg			High	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Rear seat height in mm	370	380	390	400	410	420	430	440	450	460	470	480	490	500
24" rear wheels (4) (6)														-
25" rear wheels (5) (6)	-													

The ordered rear seat height is adjustable ± 10 mm (Pro-Option: no adjustment possible).

#### Nitrum Hybrid and Nitrum Hybrid Pro:

Min. Rear Seat Height 420mm (only with NTR020012/17/18/19 Seat sling, strap-style (airflow)); 430mm with NTR020002/3/4 Seat sling, 24": nylon, tension adjustable

Min. Rear Seat Height 430mm (only with NTR020012/ 17/ 18/ 19 Seat sling, strap-style (airflow); 440mm with NTR020002/ 3/ 4 Seat sling, 25": nylon, tension adjustable

Also available as one arm fork; please choose fork type on the following pages
 High Frame is 40 mm taller than Low Frame. On lower or medium seat-heights, the high frame gives

you the opportunity to choose a shorter fork/smaller caster (3) 460mm (low frame) and 500mm (high frame) not with one-arm fork

(4) No decline or increase of the seat height possible for rear height 370 and 490 mm

(5) No decline or increase of the seat height possible for rear height 380 and 500 mm (6) Rear seat height 370mm (24") and 380mm (25") only possible with NTR020012/ 17/ 18 seat-sling strap-style airflow

aat cling							
eat sling	Cost cline autor torsion editotable 1						
NTR020002	Seat sling, nylon, tension adjustable, 1						- 
NTR020003	Seat sling, nylon, tension adjustable, 2						XX
NTR020004	Seat sling, nylon, tension adjustable, 1		-				XX
NTR020012	Seat sling, strap-style (airflow), tension			-			XX
NTR020017	Seat sling, strap-style (airflow), tension		, ,		/ - / - / - / - /		XX
NTR020018	Seat sling, strap-style (airflow), tension				ag (1) (2) (3)		XX
NTR020019	Seat sling, Airflow, superlight without b	ag (max user-	weight 85 kg)	(2) (3) (4) <b>(L)</b>			XX
NTR020000	Without seat sling						-
	over with zipper, black						
NTR020101	Seat cushion, foam (medium-soft), cove						XX
NTR020102	, , , ,	r with zipper,	black, 50 mm				XX
eat accessorie							
NTR090018	Lap belt with buckle (5)						XX
	for complete product range see JAY	order forms					
JAY020002	JAY Basic						XX
JAY020003	JAY Soft Combi P						XX
JAY020001	JAY Easy Visco C						XX
JAY020007	JAY Easy Fluid						XX
JAY020004	JAY Lite						XX
Backrest							
	Aluminium backrest, push-bar release						
NTR030157	(6)	250 - 300	300 - 350	350 - 400	400 - 450		-
		250	300	350	400		
		275	325	375	425		
		300	350	400	450		
NTR030158	Aluminiun backrest, twist-lock release (	7)					X>
		275	350	425			
		300	375	450			
		325	400				
NTR030159	Lightweight Aluminium backrest, push-l	oar release (8)	(L)				XX
		250	325	400			
		275	350	425			
		300	375	450			
ackrest							
ush handles (1)							
NTR030200	, Omit push handles (L)						_
NTR030201	Push handles long (2)						_
NTR030203	Push handles, fold-down (2) (3)						XX
NTR030203	Push handles, height-adjustable (3) (+)						XX
NTR030204	Push handles, height-adjustable (s) (+)	backs $(3)(1)$					X
1111030203	T usin handles, height-aujustable for bay	Dacks (5) (+)					N
	NTR030404 Backrest cross-tube, wi	de (78 mm cle	arance betwe	en backrest ur	pholstery and cross-	tube) (9)	-
	NTR030403 Backrest cross-tube nar						-
NTR030012	Backrest, angle-adjustable (non foldable				. ,		
NTR030012 NTR030015	Backrest, angle-adjustable, fold-down.		ur: black (10)				
101000010	Colour of the bracket			Silvor	Pod	Plue	-
NTR030102	Colour of the bracket Backrest, angle-adjustable, fold-down, l		ange alded aalour:	Silver	Red	Blue	X>
	Backtost and a adjustant told down	INCKER WIDEN T	uided colour.	DIACK			XX

(4) Max user weight 85kg, max seat-width 400mm
(5) Not with fixed welded backrest
(6) Choose back height factory setting (mm). Height adjustments possible in the range 250 - 300

(7) Not with seat which 3zu mm; adjustability +/-10mm; not with N1R030012
(8) Fixed height; not with height-adjustable push handles
(9) Only with NTR030159 Lightweight Aluminium backrest, push-bar release
(10) Adjustable: -17,5° to +10°

NTR030316	EXO Backrest sling, synth	netic fibre, padded, s	adjustable, 1 acc	essory bag, black			-
	Colour binding tape:	Black	Orange	Silver	Red	Blue	-
NTR030317	EXO PRO Backrest, synth	etic fibre, padded, a	adj., breathable, s	spacer fabric, 1 acc	essory bag, black		XXX
	Colour binding tape:	Black	Orange	Silver	Red	Blue	-
NTR030300	Without backrest sling						-
estyle Ba	<b>ck</b> (Angle adjustable)						
NTR030090	Freestyle back with J3 C	arbon Back (SC)					XXX
	Backrest shell height	: 240 mm (4)					-
	Backrest shell w	idth 320 mm – can l	be used from SW	′ 320 mm			-
	Backrest shell w	idth 370 mm – can l	be used from SW	′ 380 mm			-
	Backrest shell w	idth 420 mm – can l	be used from SW	′ 440 mm			-
	Backrest shell height	310 mm (5)					-
	Backrest shell w	idth 320 mm – can l	be used from SW	′ 320 mm			-
	Backrest shell w	idth 370 mm – can l	be used from SW	′ 380 mm			-
	Backrest shell w	idth 420 mm – can l	be used from SW	′ 440 mm			-
NTR030012	Backrest, angle-adjustab	le (non foldable) (6)					-
NTR030015	Backrest, angle-adjustab	le, fold-down. Stand	dard colour: black	< (6) (7)			-
	Orar	ige Silver	Red	Blue			XXX
NTR030102	Backrest, angle-adjustab	le, fold-down, locke	d when folded. S	tandard colour: bla	ick		XXX
NTR030211	Push handles removable	(8)					XXX

JAY J3 Back, Shallow Contour (SC)	Short (S	)	Medium (	M)	Tall (T)		
Mid Thoracic (MT)			JAY030010	340 mm	JAY030033	380 mm	XXX,-
Upper Thoracic (UT)	JAY030012	420 mm	JAY030019	460 mm	JAY030025	500 mm	XXX,-
Shoulder Height (SH)	JAY030015	530 mm	JAY030022	570 mm	JAY030028	610 mm	XXX,-
JAY J3 Back, Mid Contour (MC)	Short (S	)	Medium (	M)	Tall (T)		

#### **Seat Upholsteries & Cushions**



// NTR020002-020004 Seat sling, nylon, tension adj.



// NTR020012-020018 Seat sling strap style (airflow)





// JAY020001 JAY Easy Visco

(pictured without cover)

// JAY020003 JAY Soft Combi P

(pictured without cover)



// JAY020004 JAY Lite (pictured without cover)

// JAY020002 JAY Basic (pictured without cover)

#### **Backrest**



// NTR030201 Push handles long



// NTR030203 Push handles, folddown



// NTR030015 Backrest, angle-adjustable, fold-down



// NTR030090 Freestyle Back mit JAY J3 Carbon Rücken (SC)



// NTR030157 Aluminium backrest, push-bar release



// NTR030158 Aluminium backrest, angle-adjustable, twist-lock release





// NTR030211 Pushhandles removable, for Freestyle Back



// NTR030316 EXO Backrest sling (EXO Evo version)



// NTR030317 EXO PRO Backrest (EXO Evo version)



Mid Thoracic (MT)	)			JAY030011	340 mm	JAY030018	380 mm	XXX,-
Upper Thoracic (U	T)	JAY030013	420 mm	JAY030020	460 mm	JAY030026	500 mm	XXX,-
Shoulder Height (S	SH)	JAY030016	530 mm	JAY030023	570 mm	JAY030029	610 mm	XXX,-
JAY J3 Carbon E	Back, Shallow Contour (SC)							
Lower Thoracic		JAY060001	170 mm			JAY060002	240 mm	XXX,
Mid Thoracic		JAY060003	300 mm			JAY060004	380 mm	XXX,-
Accessories for	JAY J3 Backs							
WHT030415	Whitmyer Headrest, COBRA XT	RA, flip back (2)						XXX,
WHT030416	Whitmyer Headrest, AXYS, Sta	ndard (2)						XXX,
JAY090058	JAY Accessory bag (3)							XXX,
Armrests & S	ideguards							ŧ
Armrests & S	idequards							€
NTR040101	Sideguard, carbon fibre, slim, b							€ XXX,-
NTR040101 NTR040102	Sideguard, carbon fibre, slim, b Sideguard, aluminium, cold we	ather protection (in						XXX, XXX,
NTR040101 NTR040102 NTR040103	Sideguard, carbon fibre, slim, b Sideguard, aluminium, cold we Sideguard, aluminium, cold we	ather protection (in ather protection, fe	nder (in fram	e colour) (6)				XXX, XXX, XXX,
NTR040101 NTR040102	Sideguard, carbon fibre, slim, b Sideguard, aluminium, cold we	ather protection (in ather protection, fe	nder (in fram	e colour) (6)				XXX, XXX, XXX, XXX,
NTR040101 NTR040102 NTR040103	Sideguard, carbon fibre, slim, b Sideguard, aluminium, cold we Sideguard, aluminium, cold we	ather protection (in ather protection, fe , cold weather prote	nder (in fram ection, black	e colour) (6) (6)				_
NTR040101 NTR040102 NTR040103 NTR040104	Sideguard, carbon fibre, slim, b Sideguard, aluminium, cold we Sideguard, aluminium, cold we Sideguard, carbon fibre, fender	ather protection (in ather protection, fe , cold weather prote lle, 21 cm high (310	nder (in fram ection, black 1 mm long), bl	e colour) (6) (6) ack (7)				XXX, XXX, XXX, XXX,
NTR040101 NTR040102 NTR040103 NTR040104 NTR040107	Sideguard, carbon fibre, slim, b Sideguard, aluminium, cold we Sideguard, aluminium, cold we Sideguard, carbon fibre, fender Sideguard, composite, removab	ather protection (in ather protection, fe cold weather prote le, 21 cm high (310 djustable, removab	nder (in fram ection, black I mm long), bl Ile, armpad (2	e colour) (6) (6) ack (7) (50 mm) (7) (8) <b>(+)</b>	+)			XXX, XXX, XXX, XXX, XXX, XXX,
NTR040101 NTR040102 NTR040103 NTR040104 NTR040107 NTR040050	Sideguard, carbon fibre, slim, b Sideguard, aluminium, cold we Sideguard, aluminium, cold we Sideguard, carbon fibre, fender Sideguard, composite, removab Single-post sideguard, height-a	ather protection (in ather protection, fe , cold weather prote ole, 21 cm high (310 djustable, removab djustable, removab	nder (in fram ection, black 1 mm long), bl 1le, armpad (2 1le, armpad lo	e colour) (6) (6) ack (7) (50mm) (7) (8) <b>(+)</b> ing (330mm) (7) (8) <b>(</b>				XXX, XXX, XXX, XXX, XXX,
NTR040101 NTR040102 NTR040103 NTR040104 NTR040107 NTR040050 NTR040051	Sideguard, carbon fibre, slim, b Sideguard, aluminium, cold we Sideguard, aluminium, cold we Sideguard, carbon fibre, fender Sideguard, composite, removat Single-post sideguard, height-a	ather protection (in ather protection, fe cold weather prote le, 21 cm high (310 djustable, removab djustable, removab (330 mm), tool heig	nder (in fram action, black I mm long), bl Ie, armpad (2 Ie, armpad lo Ie, armpad lo	e colour) (6) (6) ack (7) (50 mm) (7) (8) <b>(+)</b> ing (330 mm) (7) (8) ( justable, removabl				XXX, XXX, XXX, XXX, XXX, XXX, XXX,

#### Accessories for Sideguards

NTR040061 Flip-back option for sideguards (17)

Footboards		€
NTR050029	Footrest, tubular, lightweight, aluminium (11) (L)	-
NTR050030	Footrest, tubular, lightweight, aluminium, with cover (11)	XXX,-
NTR050025	Platform footplate lightweight angle & depth adjustable composite (11)	XXX,-
NTR050024	Platform footplate lightweight angle & depth adjustable aluminium (colour: frame colour) (11)	XXX,-
NTR050026	Platform footplate lightweight angle & depth adjustable carbon (11)	XXX,-
NTR050034	Footboard, platform, lightweight, aluminium, angle and depth-adjustable, high-mount, calf strap, frame colour	XXX,-
NTR050125	Performance footplate angle adjustable (11)	XXX,-
NTR050128	Footboard, platform, plastic, angle and depth adjustable, flip-up (to the back) (12) (14) (+)	XXX,-
NTR050022	Footboard, divided, aluminum, angle-adjustable, flip-up (sideways), heel loop, black (13) (15) (+)	XXX,-

#### **Accessories for Footboards**

NTR050127 Adjustable side protection, to create a side-stop on the footboard (16)

Lower Leg	Lower Leg Length (LLL) (LLL has to be 25 mm less than front seat height, measurements in mm)												
220	230	240	250	260	270	280	290	300	310	320			
330	340	350	360	370	380	390	400	410	420	430			
440	450	460	470	480	490	500	510	520					

(1) Not with NTR030090 Freestyle back with J3 Carbon Back (SC)

(2) Only with JAY J3 backs

(3) Only with JAY J3 Carbon Backs

(4) With 24" rear wheel min. rear seat height 410 mm; with 25" rear wheel min. rear seat height 430

mm (5) Slim style, cabron fibre (6) Minimum seat height 390 mm

(7) Quickie style

(8) Not with tubular armrest

(9) Not with COG 92 mm & 104 mm

(10) Not in combination with handbike axle, not in combination with fixed welded PRO backrest (11) LLL 360 mm - 520 mm

£

XXX,-

Nitrum and Nitrum Hybrid

(12) LLL from 330 mm, not with 4" castor, min. seat-width 340 mm

(13) LLL from 380 mm with low frame, from 420 mm with high frame, not with 4" & 6" castor

(14) 125 kg max user weight
(15) Only up to 480 mm seat width
(16) Only for platform footplates lightweight angle & depth adjustable
(17) Only with NTR040102 Sideguard aluminium, not with Pro option in combination with fixed

welded backrest, not in combination with NTR030158 Backrest, twist-lock

## JAY J3 Backs (More JAY products available on separate JAY order forms)





// JAY J3 Back Heights from Left to Right: Lower Thoracic, Mid Thoracic, Upper Thoracic, Shoulder Height



// Shallow Contour (SC)

// Mid Contour (MC)

#### **Sidegurad & Armrest**



// NTR040101 Sideguard, carbon fibre, slim, black



// NTR040102 Sideguard, aluminium, cold weather protection (in frame colour)



// NTR040103 Sideguard, aluminium, cold weather protection, fender (in frame colour)



// NTR040104 Sideguard, carbon fibre, fender, cold weather protection (black)



// NTR040061 Flip-up Sideguard in combination with NTR040102

#### Footrest



// NTR050029 Footrest, tubular, lightweight, aluminium



// NTR050026 Footboard, platform, lightweight, carbon fibre, angle and depth-adj.



// NTR050030 Footrest, tubular, lightweight, aluminium, with cover



// NTR050127 Foot positioning plate



// NTR050034 Footboard, platform, lightw., alum., angle & depth-adj., high-mount, frame colour



// NTR010040 Design frame protection



// NTR050125 Footboard, platform, Performance, aluminum, angle-adj.

Low frame: LLL 220 - 350 mm only with high mounted footrest; for all other footrests from LLL 360 - 500 mm. High Frame: LLL 220 - 390 mm only with high mounted footrest; for all other footrests from LLL 400 - 520 mm.

Frame Chara	cteristics	€
Frame length		
NTR010206	Frame standard	-
NTR010207	Frame long (1)	-
Frame angle		
NTR010012	100° frame (2)	-
NTR010013	92° Performance frame (2)	XXX,-
NTR010009	88° Performance compact frame (2) (3)	XXX,-
Frame inset		
NTR010100	Inset: Standard (0 mm)	-
NTR010101	Inset: Small (10 mm) (4)	-
NTR010103	Inset: Performance (30 mm) (5)	XXX,-
Accessories		
NTR010040	Design Frame protection	XXX,-
NTR110156	Twin-LED light (mounted on caster links, battery and controller on calf-strap)	XXX,-
NTR010500	Wheelbase extension for add-on bike (6) (+)	XXX,-

Centre of Gravity (COG; all measurements are in mm; measured from front of back post; choose only one option)



#### Frame Accessories (15)

Frame Acces	501165 (15)	t
NTR090031	Suspension (up to 70 kg) (7) (8) (+)	XXX,-
NTR090032	Suspension (up to 120 kg) (7) (8) (+)	XXX,-
Tip assist (step t	tube)	
NTR090001	Tip assist, left	XXX,-
NTR090002	Tip assist, right	XXX,-
NTR090003	Tip assist, pair (9) (+)	XXX,-
NTR090009	Crutch holder (10)	
Anti-tip tubes s	wing-away	
NTR090004	Anti-tip tubes, swing-away, left (+)	XXX,-
NTR090005	Anti-tip tubes, swing-away, right (+)	XXX,-
NTR090006	Anti-tip tubes, swing-away, pair (11) (+)	XXX,-
NTR090007	Anti-tip tubes, plug-in, pair (+)	XXX,-
Frame Acces	sories	
Anti-tip flip up (	user operated)	

NTR090033	Anti-tip tubes, flip-up (upwards), LH (12) (+)	XXX,-
NTR090008	Anti-tip tubes, flip-up (upwards), RH (12) (+)	XXX,-

(1) 20 mm additional frame length between front edge of seat upholstery and knee bend

(2) No change from 3" & 4"castor to 5" & 6" afterwards possible

(3) Only with 0 mm and 30 mm inset, minimum seat-height difference front / rear: 30 mm

(4) Not in combination with 88° frame angle

(5) Not available for seat width 320 mm (6) Always 3° more than the standard axle camber. Not in Combination with Pro option.

(7) Not with COG 68 - 104 mm. Not with seat height 370 - 420 mm and 24" & 370 - 430 mm with

25". Not with carbon axle tube. Not with sport anti-tip & tip-assist

(8) Not for handbike use, only up to seat width 460 mm. Not in combination with Hybrid frame or Pro

versions

(9) Not available with anti-tip

(10) Only in combination with tip assist

(11) Not available with tip assist

(12) Not in combination with handbike axle (13) Not with carbon axle; not with COG 20 mm

(14) 3" wheels

(15) No frame accessories possible in combination with NTR010403 Axle-assembly superlight,

Carbon

## **Frame Versions**

	Inset (in mi	m per side)	
Angle ( $\alpha$ )	0 mm	10 mm	30 mm
100°	х	х	х
92°	х	х	х
88°	х	-	х

// NTR010207 Frame long: Additional 20 mm frame-length ("x") between front-edge of seat-upholstery and the kneebend

Width between frame-tubes ("y") at the footrest: use the following formula: seat-width - 50 mm - 2x inset Example for 400 mm seat-width and 30 mm inset: 400 mm - 50 mm - (2 x 30 mm) = 290 mm



#### **Twin-LED light**



// NTR110156 Twin-LED light (mounted on caster stems, battery and controller on calf-strap)



Integrated Li-Ion Battery (3,6V, 2600mAh),onoff-button on controller-box, 3 modes: full power, low power, flash-mode, incl. USB to micro-USB cable for charging

#### **Frame Accessories**



// NTR090001 Tip assist left



// NTR090004 Anti-tip tubes, swing-away



// NTR090007 Anti-tip tubes, plugin, pair



// NTR090035 Anti-tip tubes, aluminium, sport, plug-in



// NTR090008 Anti-tip tubes, flip-up (upwards), user operated



 Sublique

 COD
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// NoGo Matrix for Emulse F55 Bundling

NTR090035	Anti-tip tubes, aluminium, sport, plug-in (13) (+)	XXX,-
NTR090010	Transit wheels (14) (+)	XXX,-
Preparation	for ATTITUDE Add-on bike	€
NTR090211	Preparation for ATTITUDE, w/o ATTITUDE order (1)	XXX,-
NTR090212	Preparation for ATTITUDE, with ATTITUDE order (2)	-
F 1 FFF		0
Empulse F55		€
	With Empulse F55* oder, not mounted to the wheelchair (3)	-
EM0000102	With Empulse F55* order, mounted to the wheelchair (3) - Additiona cost XXX - Attach F55* OF	XXX,-
Empulse F35	Bundling	€
EM0000301	With Empulse F35 oder, not mounted to the wheelchair (14) (Please use seprate OF to order F35)	-
EM0000302	With Empulse F35 order, mounted to the wheelchair (14) (Please use seprate OF to order F35)	-
Forks (Compar	e with your choice on the first page)	€
NTR080013	Castor fork, Carbotecture ® (not suitable / approved for power add-ons), black (4) (L)	-
	Orange Silver Red (5) Blue (5)	XXX,-
NTR080029	Castor fork, Aluminium, black (6)	-
	Orange Silver	XXX,-
NTR080008	Castor fork, aluminium, one-arm. Standard colour: black (7)	XXX,-
	Orange Silver Red Blue	XXX,-
NTR080007	Castor fork, aluminium, suspension (Frog Legs ®), black (8) (+)	XXX,-
Castor Whee	s (Compare with your choice on the first page)	€
NTR080301	Castor, solid (hard), rim: composite, black (9)	-
NTR080302	Castor, solid (soft), rim: composite, black (10)	-
NTR080303	Castor, solid (hard), light-up, rim: composite, black (11)	XXX,-
NTR080304	Castor, solid (hard), rim: aluminium (12)	XXX,-
NTR080306	Castor, solid (soft), rim: aluminium, silver (12)	XXX,-
	Colour rim: Black Orange Red Blue	XXX,-
NTR080060	Castor, solid (soft), rim: carbon-composite, ultralight (13) (L)	XXX,-
Rear Wheels	Compare with your choice on the first page) (14)	£
NTR070000	Without rear wheel	_
NTR070001	Rear wheel, Universal, 36 spokes (silver), cross-wise spokes (15) (+)	-
NTR070002	Rear wheel, Design, 36 spokes (silver), straight spokes (15)	-
NTR070003	Rear wheel, Lightweight, 24 spokes (silver), straight spokes (16)	-
NTR070004	Rear wheel, Proton, 24 spokes (black), straight spokes (17) (L)	XXX,-
NTR070005	Rear wheel, Spinergy, 18 spokes (black), straight spokes; hub: silver	XXX,-
NTR070007	Rear wheel, Spinergy, 12 spokes (black), straight spokes, hub black	XXX,-
NTR070009	Rear wheel, Mountainbike, 36 spokes (silver), straight spokes (15)	XXX,-
NTR070010	Mountainbike wheel, replacement kit incl. tyre (extra coarse profile) (15)	XXX,-

 Docking pins assembled; not with suspension, not with lightweight compact brake
 Docking pins assembled; not with suspension, not with lightweight compact brake; ATTITUDE order on separate order form

(3) Please use separate OF to order F55. Not with suspension, not with Lightweight Compact brake EVO. Please consult NoGo matrix on previous page.
 (4) Only 111 mm

(5) Red and Blue only in combination with soft castor

(6) Only 123 mm

(7) Only 111 mm length & only with 4" & 5" aluminium soft, aluminium solid or 4" composite, ultralight

(8) Only in combination with 4" & 5" solid & all aluminium castors. Only black

- (9) 3" 6"; not with one arm fork
  (10) Only 5" & 6"; not with one arm fork
  (11) Not available for 3" and 6"; not with one arm fork

(12) Only for 4" & 5"

(13) Only 4"

(13) Only 4
(14) For users with higher user weight than 100 kg, we recommend cross spoked wheels
(15) Only 24"
(16) See colour options on last page
(17) User weight limit 100 kg
(18) Standard, stainless steel
(10) Net with Using reacting and Pattern

(19) Not with Universal wheel, Red Button

13

## **Rear Wheels**



// NTR070001 Rear wheel, Universal, 36 spokes (silver), cross-wise spokes



// NTR070002 Rear wheel, Design, 36 spokes (silver), straight spokes



// NTR070003 Rear wheel, Lightweight, 24 spokes (silver), straight spokes



// NTR07004 Rear wheel, Proton, 24 spokes (black), straight spokes



// NTR07010 Mountainbike wheel



// NTR07003 Rear wheel, Lightweight, 24 spokes in combination with color selection on last page (NTR100336 - NTR100338)

## **Tyres & Forks**



// NTR070101 Schwalbe Right Run



// NTR070107 Schwalbe One



// NTR070104 Schwalbe Marathon Plus Evolution



// NTR070102 Tyre, puncture proof, tread



//  $\rm NTR080013$  &  $\rm NTR080306$  Castor fork, Carbotecture & Castor solid (soft) aluminum



// NTR080008 Castor fork, aluminum, one-arm, blue

ale Dalaan				
ck Releas				
NTR070150 NTR070153	Quick-release axle (18)	Titon (40) (1)		
1111070153	Quick-release axle superlight	, 11(811(19) <b>(L)</b>		
es NTR070101	Tyre, pneumatic, fine profile,	Schwalbe Bight B	ID	
NTR070107	Tyre, pneumatic, slick, Schwa	, e		
NTR070102	Tyre, puncture proof, tread (+			
NTR070104			e Marathon Plus Evolution (+)	
ndrims				
NTR070201	Handrims, aluminium, powde	r-coated, clear (L)		
NTR070202	Handrims, aluminium, anodis	ed, silver (L)		
NTR070203	Handrims, aluminium, powde	r-coated, coloured	(1) <b>(L)</b>	
NTR070204	Handrims, stainless steel, sil	ver (+)		
NTR070205	Handrims, titanium, untreate	d		
NTR070206	Handrims, titanium, powder-	coated, clear		
NTR070207	Handrims, Supergrip ® (+)			
NTR070208	Handrims, Maxgrepp $^{\textcircled{\sc 8}}$ (2) (+)			
NTR070212	Handrims, Ellipse 3R, black (4	-)		
NTR070250	Handrim cover, rubber (3)			
B4M	Handrims, Carbolife QUADRO	) (2) (4) (+)		
B4M	Handrims, Carbolife GEKKO (	4) <b>(+)</b>		
drim mounti	-			
NTR070307	Handrim mount, super narrov			
NTR070317	Handrim mount, narrow (17 n			
NTR070327	Handrim mount, wide (27 mm	1)		
e Tube				
	Axle tube, aluminium, black			
NTR010402	Axle tube, carbon, black (6)	1		
NTR010403	Axle-assembly superlight, Ca	rbon (6) (7) <b>(L)</b>		
eel Camb				
NTR070600 NTR070603	0° 3°			
NTR070603	6° (8)			
NTR070609	9° (9)			
oke Guard	<b>s</b> (2)			
NTR070831	Transparent	NTR070813	Galaktica	
NTR070823	Princess	NTR070818	Jungle Fever	
NTR070816	Happy Lions	NTR070811	Feather	
NTR070819	Monkeys	NTR070821	Pirates	
NTR070820	Oriental	NTR070806	Chrome	
NTR070829	Superhero	NTR070814	Graffiti	
NTR070817	Hot Wheels	NTR070802	Basketball	

Select colour on last page
 Only 24"
 Not with 25" and 26" and Ellipse
 B4M leadtimes and conditions apply
 Only with stainless steel and Ellipse
 Add-ons (push-devices, trailers etc.) must not be clamped to the carbon tubes

## Handrims



// NTR070208 Handrim Maxgrepp®

#### **Axle Tubes**



// NTR010403 Axle assembly superlight

// NTR070212 Handrim Ellipse 3R



// NTR010402 Carbon axle-tube // NTR100553 Axle-stem clamp colour, red



// NTR010036 Nitrum Hybrid Pro



// NTR010037 Nitrum Pro

#### Wheel Locks



// NTR060001 Standard brake



// NTR060002 Knee-lever brake



// NTR060023 Compact brake EVO



// NTR060004 Lightweight Compact brake EVO

## Accessories



// NTR090000 Tool kit



// NTR090024 High pressure pump



// NTR090025 Air pump



// NTR090030 Back pack



// NTR090026 Mobile phone pocket

€.

NTR070822	Pool	NTR070812	Flying Water		XXX,-
NTR070827	Silk	NTR070828	Space		XXX,-
NTR070830	Tiger	NTR070833	Zebra		XXX,-

Wheel Locks	;	€
NTR060001	Standard brake	-
NTR060002	Knee-lever brake	XXX,-
NTR060023	Compact brake EVO (1)	XXX,-
NTR060024	Lightweight compact brake EVO (1) (2) (L)	XXX,-
NTR060010	Brake lever extension, knee-lever brake, fold-down (3)	XXX,-
NTR060006	Compact one-arm brake, left actuation (+)	XXX,-
NTR060007	Compact one-arm brake, right actuation (+)	XXX,-

## Accessories

1			Ŭ
	NTR090000	Tool kit	-
	NTR090024	High pressure pump (0 - 11 bar)	XXX,-
	NTR090025	Air pump	XXX,-
	NTR090030	Back pack	XXX,-
	NTR090100	Tie down brackets for transportation (9)	XXX,-
	NTR090014	Frame reinforcement kit for add on bike (6)	XXX,-
	NTR090026	Mobile phone pocket	XXX,-

## Frame Colours (7)

	Frame	Handrim	Hub/Rim (8)		Frame	Handrim	Hub/Rim (8)
			, (-)				
02 Brillant Silver				26 Silver Texture			
03 Silver Matt				27 Graphitemetallic			
06 Sun Yellow				29 Black			
14 Blue				31 Matt Black			
15 Brillant Marine				32 Signal White			
16 Matt Marine				33 Pink			
19 Brillant Purple				34 Dark Chocolate Metallic			
21 Red Ruby				35 Skyblue			
22 Brillant Red				36 Cyan-Metallic			
23 Matt Red				37 Marsred (Orange)			
24 Tutti Frutti Orange				46 Mamba Green			
				40 Kiwi			
				41 Flamingo-Glitter			
				42 Matt Anthracite			
				43 Azure Blue			
		XXX,-	XXX,-			XXX,-	XXX,-

Sticker Colou	irs "NITRUM" & "QUICKIE"	€
NTR100550	Black	-
NTR100551	Silver	-
NTR100552	Orange	-

Not available with 6° & 9° camber
 Adjustment of COG ±20 mm on a wheelchair in the field. Not for use with add-on bikes
 Only with NTR060002
 Not in combination with high mounted footrest
 Not with LLL 220 - 360 mm
 Not necessary in combination with ATTITUDE handbikes. Not possible and not necessary for

Nitrum Hybrid. (7) Please consult our colour catalogue to review your yolour choice (8) Only with rear wheel, universal (9) In combination with Pro option only possible with NTR010038 backrest angle-adjustable, foldable

NTR100553	Red	-
NTR100554	Blue	-
Axle Stem C	amp Colours (3)	€
NTR100560	Silver	-
NTR100561	Orange	XXX,-
NTR100562	Red	XXX,-
NTR100563	Blue	XXX,-
		,
	ic "Floating Dots" Colours (1)	€
	ic "Floating Dots" Colours (1)	
Frame Graph NTR100570	ic "Floating Dots" Colours (1)	€
Frame Graph NTR100570	ic "Floating Dots" Colours (1) Black	€ XXX,-
Frame Graph NTR100570 NTR100575	<b>ic "Floating Dots" Colours</b> (1) Black Matt Black	€ XXX,- XXX,-
Frame Graph NTR100570 NTR100575 NTR100571	ic "Floating Dots" Colours (1) Black Matt Black Silver (Grey)	€ XXX,- XXX,- XXX,-
Frame Graph NTR100570 NTR100575 NTR100571 NTR100572	ic "Floating Dots" Colours (1) Black Matt Black Silver (Grey) Orange	€ XXX,- XXX,- XXX,- XXX,-

24" Lightweight Wheel Colours			
	Black	-	
NTR100336	Orange anodised (2)	XXX,-	
NTR100337	Blue anodised (2)	XXX,-	
NTR100338	Red anodised (2)	XXX,-	

(3) No choice in combination with Pro option

## **Frame Graphics**







// Frame Graphics "Floating Dots"





// NTR100336 Lightweight wheel, anodized orange

// NTR100337 Lightweight wheel, anodized blue



// NTR100338 Lightweight wheel, anodized red

Nitrum Base Price	00,000.00
Total Of Additional Equipment	
Packaging And Transport	
Exclusive VAT	
VAT	
Total Price	

Date			Signature
Day	Month	Year	



## Sunrise Medical GmbH

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