

NITRUM NITRUM HYBRID



reddot winner 2022



Rev.:11/2023
Valid till 11/2024

ORDER FORM

Billing Address Or Customer-ID			Shipping Address		Identical To Billing Address	
C.-ID:			C.-ID:			
Name:			Name:			
Street:			Street:			
Town/PC:			Town/PC:			
E-Mail:			E-Mail:			
Phone:			Phone:			
Order Information			User Weight			
Order	Calculation	Built-4-Me®	Max. user weight 140 kg NTR010035 // max. user weight 125 kg NTR010034			
Purchase Order No.:			Art. No.: 66000004 & 66000003			
Reimbursement Code: xxx			User Weight: kg			
Order Date:	Day	Month	Year	Base Price		€ 3.833
				Nitrum		€ 4.098
				Nitrum Hybrid		

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° (+)

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 8,4 kg wheelchair, and how to order the lightest possible configuration for your Nitrum Hybrid.

Nitrum Hybrid: 8,4 kg configuration

Nitrum Hybrid Pro: 8,1 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

Sideguards: Carbon fibre, slim-style

Footrest: Tubular footrest

Axle-tube : Axle-assembly superlight, Carbon; Nitrum Pro: fixed welded CoG and Axle tube, carbon

Forks and casters: 111 mm carbotech-ture fork; 4" Castor, solid (soft), rim: carbon-composite, ultralight

Wheel-locks:
Lightweight compact brake EVO

Backrest: Lightweight Aluminium backrest, push-bar release, 325mm height; without push-handles (Nitrum Hybrid Pro: fixed welded backrest)

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 Hybrid

Sunrise Medical offers a wide variety of options for the Nitrum Hybrid 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 Hybrid

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



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



// **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):** lightweight 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)

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

Nitrum Hybrid

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☐ NTR010034	Open frame, backrest-angle and CoG adjustable, 125 kg max user weight	3.833
NTR010035	Hybrid frame, backrest-angle and CoG adjustable, 140kg max user-weight	4.098

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

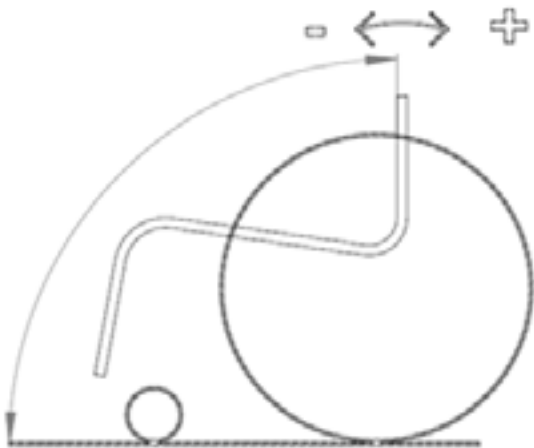
Important Note: Please check your measurements carefully as a Nitrum Pro is non returnable.

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	926
NTR010037	Pro: Hybrid frame, fixed welded CoG, 140kg max. user-weight	926

Backrest-style for Pro versions

NTR010044	Fixed welded, non angle-adjustable, non foldable (choose angle and backrest-height below. Choose Push handles and Backrest Upholstery in the Backrest-section)								–
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 mm clearance between backrest upholstery and cross-tube)								–
NTR030403	Backrest cross-tube, narrow (48 mm clearance between backrest upholstery and cross-tube)								–
NTR010038	Angle-adjustable, foldable (please choose further backrest options in the "Backrest"- or "Freestyle-backrest"-section- additional upcharges can apply)								–



// Nitrum Hybrid Pro



// Nitrum Pro

Seat Width (measured from outside frame tube to outside frame tube)

(mm)	320	340	360	380	400	420	440	460	480	500
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Seat Depth

(mm)	340	360	380	400	420	440	460	480	500
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Front Seat Height (in mm)

Fork (Length)	Frame (2)	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570
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 (the rear seat height can only be between 0 mm and 130 mm below the selected front seat height)

Rear seat height in mm	420	430	440	450	460	470	480	490	500	
24" rear wheels (4)									–	
25" rear wheels (5)										

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

24":	Min. Rear Seat Height 420mm (only with NTR020012/ 17/ 18/ 19 Seat sling, strap-style (airflow)) ; 430mm with NTR020002/ 3/ 4 Seat sling, nylon, tension adjustable
25":	Min. Rear Seat Height 430mm (only with NTR020012/ 17/ 18/ 19 Seat sling, strap-style (airflow)); 440mm with NTR020002/ 3/ 4 Seat sling, nylon, tension adjustable

(1) Also available as one arm fork; please choose fork type on the following pages

(2) 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 420 and 490 mm

(5) No decline or increase of the seat height possible for rear height 430 and 500 mm

Seat							€	
Seat sling								
NTR020002	Seat sling, nylon, tension adjustable, 1 utility bag						–	
NTR020003	Seat sling, nylon, tension adjustable, 2 utility bags (1)						53	
NTR020004	Seat sling, nylon, tension adjustable, 1 utility bag, 1 catheter bag (1)						53	
NTR020012	Seat sling, strap-style (airflow), tension adjustable with 1 utility bag (2) (3)						93	
NTR020017	Seat sling, strap-style (airflow), tension adjustable with 2 utility bag (1) (2) (3)						144	
NTR020018	Seat sling, strap-style (airflow), tension adjustable with utility bag and catheter bag (1) (2) (3)						144	
NTR020019	Seat sling, Airflow, superlight without bag (max user-weight 85 kg) (2) (3) (4) (L)						144	
NTR020000	Without seat sling						–	
Seat cushion, cover with zipper, black								
NTR020101	Seat cushion, foam (medium-soft), cover with zipper, black, 30 mm						110	
NTR020102	Seat cushion, foam (medium-soft), cover with zipper, black, 50 mm						110	
NTR020103	Seat cushion, Latex (very soft), cover with zipper, black, 50 mm						110	
Seat accessories								
NTR090018	Lap belt with buckle (5)						83	
JAY Cushions – for complete product range see JAY order forms								
JAY020002	JAY Basic						155	
JAY020003	JAY Soft Combi P						227	
JAY020001	JAY Easy Visco C						333	
JAY020007	JAY Easy Fluid						573	
JAY020004	JAY Lite						525	
Backrest								€
NTR030157	Aluminium backrest, push-bar release (6)	250 - 300	300 - 350	350 - 400	400 - 450		–	
		250	300	350	400			
		275	325	375	425			
		300	350	400	450			
NTR030158	Aluminium backrest, twist-lock release (7)						233	
		275	350	425				
		300	375	450				
		325	400					
NTR030159	Lightweight Aluminium backrest, push-bar release (8) (L)						261	
		250	325	400				
		275	350	425				
		300	375	450				
	NTR030404 Backrest cross-tube, wide (78 mm clearance between backrest upholstery and cross-tube) (9)						–	
	NTR030403 Backrest cross-tube narrow (48 mm clearance between backrest upholstery and cross-tube) (9)						–	
NTR030012	Backrest, angle-adjustable (non foldable) (10)						–	
NTR030015	Backrest, angle-adjustable, fold-down. Standard colour: black (10)						–	
	Colour of the bracket	Orange		Silver		Red	Blue	17
NTR030102	Backrest, angle-adjustable, fold-down, locked when folded, colour: black						70	

(1) Only from SW 360 mm

(2) Not possible to convert strap-style upholstery to standard upholstery

(3) Max seat-width 460mm

(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

mm; 300 - 350 mm; 350 - 400 mm; 400 - 450 mm

(7) Not with seat width 320 mm; adjustability +/-10mm; not with NTR030012

(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°

Push handles (1)

NTR030200	Omit push handles (L)	–
NTR030201	Push handles long (2)	–
NTR030203	Push handles, fold-down (2) (3)	186
NTR030204	Push handles, height-adjustable (3) (+)	295
NTR030205	Push handles, height-adjustable for Jay backs (3) (+)	277

Backrest Upholstery (EXO Evo version)

NTR030316	EXO Backrest sling, synthetic fibre, padded, adjustable, 1 accessory bag, black	–
	Colour binding tape: Black Orange Silver Red Blue	–
NTR030317	EXO PRO Backrest, synthetic fibre, padded, adj., breathable, spacer fabric, 1 accessory bag, black	170
	Colour binding tape: Black Orange Silver Red Blue	–
NTR030300	Without backrest sling	–

Freestyle Back (Angle adjustable)

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NTR030090	Freestyle back with J3 Carbon Back (SC)	1.467
	Backrest shell height 240 mm (4)	–
	Backrest shell width 320 mm – can be used from SW 320 mm	–
	Backrest shell width 370 mm – can be used from SW 380 mm	–
	Backrest shell width 420 mm – can be used from SW 440 mm	–
	Backrest shell height 310 mm (5)	–
	Backrest shell width 320 mm – can be used from SW 320 mm	–
	Backrest shell width 370 mm – can be used from SW 380 mm	–
	Backrest shell width 420 mm – can be used from SW 440 mm	–
NTR030012	Backrest, angle-adjustable (non foldable) (6)	–
NTR030015	Backrest, angle-adjustable, fold-down. Standard colour: black (6) (7)	–
	Orange Silver Red Blue	17
NTR030102	Backrest, angle-adjustable, fold-down, locked when folded. Standard colour: black	70
NTR030211	Push handles removable (8)	124

(1) Not in combination with Freestyle back

(2) Not with height adjustable push handles

(3) Only available from 325 mm backrest height

(4) Backrest height 275 - 350 mm

(5) Backrest height 325 - 425 mm

(6) -17,5° - +10°

(7) Always with push-bar release

(8) Only with NTR030090 Freestyle back with J3 Carbon Back (SC)

Seat Upholsteries & Cushions



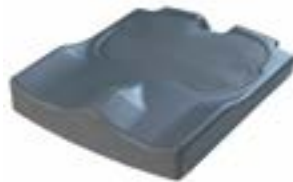
// NTR020002-020004
Seat sling, nylon, tension adj.



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



// JAY020002 JAY Basic
(pictured without cover)



// JAY020001 JAY Easy Visco
(pictured without cover)



// JAY020003 JAY Soft Combi P
(pictured without cover)



// JAY020004 JAY Lite
(pictured without cover)

Backrest



// NTR030201 Push handles long



// NTR030203 Push handles, fold-down



// 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)

JAY Backs (1)

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JAY J3 Back, Shallow Contour (SC)	Short (S)		Medium (M)		Tall (T)		
Mid Thoracic (MT)			JAY030010	340 mm	JAY030033	380 mm	846
Upper Thoracic (UT)	JAY030012	420 mm	JAY030019	460 mm	JAY030025	500 mm	939
Shoulder Height (SH)	JAY030015	530 mm	JAY030022	570 mm	JAY030028	610 mm	1.006
JAY J3 Back, Mid Contour (MC)	Short (S)		Medium (M)		Tall (T)		
Mid Thoracic (MT)			JAY030011	340 mm	JAY030018	380 mm	926
Upper Thoracic (UT)	JAY030013	420 mm	JAY030020	460 mm	JAY030026	500 mm	1.033
Shoulder Height (SH)	JAY030016	530 mm	JAY030023	570 mm	JAY030029	610 mm	1.087
JAY J3 Carbon Back, Shallow Contour (SC)							
Lower Thoracic	JAY060001	170 mm			JAY060002	240 mm	1.316
Mid Thoracic	JAY060003	300 mm			JAY060004	380 mm	1.316

Accessories for JAY J3 Backs

WHT030415	Whitmyer Headrest, COBRA XTRA, flip back (2)	538
WHT030416	Whitmyer Headrest, AXYS, Standard (2)	322
JAY090058	JAY Accessory bag (3)	87

Armrests & Sideguards

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NTR040101	Sideguard, carbon fibre, slim, black (4) (L)	147
NTR040102	Sideguard, aluminium, cold weather protection (in frame colour)	227
NTR040103	Sideguard, aluminium, cold weather protection, fender (in frame colour)	276
NTR040104	Sideguard, carbon fibre, fender, cold weather protection, black	287
NTR040107	Sideguard, composite, removable, 21 cm high (310 mm long), black	-
NTR040050	Single-post sideguard, height-adjustable, removable, armpad (250 mm) (5) (+)	252
NTR040051	Single-post sideguard, height-adjustable, removable, armpad long (330 mm) (5) (+)	252
NTR040052	Single-post sideguard, armpad (330 mm), tool height-, depth-adjustable, removable (5) (6) (+)	252
NTR040117	Tubular armrest, Alu, swing away (sideways), padded, removable (7) (+)	240
NTR040000	Without Sideguard	—

Accessories for Sideguards

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NTR040061	Flip-back option for sideguards (14)	352
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Footboards

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NTR050029	Footrest, tubular, lightweight, aluminium (8) (L)	—
NTR050030	Footrest, tubular, lightweight, aluminium, with cover (8)	76
NTR050025	Platform footplate lightweight angle & depth adjustable composite (8)	116
NTR050024	Platform footplate lightweight angle & depth adjustable aluminium (colour: frame colour) (8)	116
NTR050026	Platform footplate lightweight angle & depth adjustable carbon (8)	251
NTR050034	Footboard, platform, lightweight, aluminium, angle and depth-adjustable, high-mount , calf strap, frame colour	195
NTR050125	Performance footplate angle adjustable (8)	240
NTR050128	Footboard, platform, plastic, angle and depth adjustable, flip-up (to the back) (9) (11) (+)	240
NTR050022	Footboard, divided, aluminum, angle-adjustable, flip-up (sideways), heel loop, black (10) (12) (+)	254

Accessories for Footboards

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NTR050127	Adjustable side protection, to create a side-stop on the footboard (13)	68
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(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) Slim style, carbon fibre

(5) Not with tubular armrest

(6) Not with COG 92 mm & 104 mm

(7) Not in combination with handbike axle, not in combination with fixed welded PRO backrest

(8) LLL 360 mm - 520 mm

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

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

(11) 125 kg max user weight

(12) Only up to 480 mm seat width

(13) Only for platform footplates lightweight angle & depth adjustable

(14) 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)

Sideguard & 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-back option for sideguard in combination with NTR040102 Sideguard, aluminium



Footrest



// NTR050029 Footrest, tubular, lightweight, aluminium



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



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



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



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



// NTR050127 Foot positioning plate



// NTR010040 Design frame protection

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		

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 Characteristics

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Frame length

NTR010206	Frame standard	–
NTR010207	Frame long (1)	–

Frame angle

NTR010012	100° frame (2)	–
NTR010013	92° Performance frame (2)	153
NTR010009	88° Performance compact frame (2) (3)	153

Frame inset

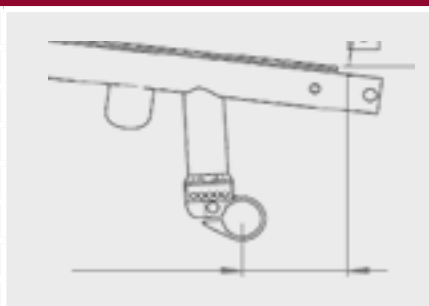
NTR010100	Inset: Standard (0 mm)	–
NTR010101	Inset: Small (10 mm) (4)	–
NTR010103	Inset: Performance (30 mm) (5)	153

Accessories

NTR010040	Design Frame protection	70
NTR110156	Twin-LED light (mounted on caster links, battery and controller on calf-strap)	226
NTR010500	Wheelbase extension for add-on bike (6) (+)	344

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

COG20	Centre of Gravity 20 mm
COG32	Centre of Gravity 32 mm
COG44	Centre of Gravity 44 mm
COG56	Centre of Gravity 56 mm
COG68	Centre of Gravity 68 mm
COG80	Centre of Gravity 80 mm
COG92	Centre of Gravity 92 mm
COG104	Centre of Gravity 104 mm

**Frame Accessories (13)**

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Tip assist (step tube)

NTR090001	Tip assist, left	68
NTR090002	Tip assist, right	68
NTR090003	Tip assist, pair (7) (+)	137
NTR090009	Crutch holder (8)	39

Anti-tip tubes swing-away

NTR090004	Anti-tip tubes, swing-away, left (+)	159
NTR090005	Anti-tip tubes, swing-away, right (+)	159
NTR090006	Anti-tip tubes, swing-away, pair (9) (+)	317
NTR090007	Anti-tip tubes, plug-in, pair (+)	155

Anti-tip flip up (user operated)

NTR090033	Anti-tip tubes, flip-up (upwards), LH (10) (+)	206
NTR090008	Anti-tip tubes, flip-up (upwards), RH (10) (+)	206
NTR090035	Anti-tip tubes, aluminium, sport, plug-in (11) (+)	383
NTR090010	Transit wheels (12) (+)	272

(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 available with anti-tip

(8) Only in combination with tip assist

(9) Not available with tip assist

(10) Not in combination with handbike axle

(11) Not with carbon axle; not with COG 20 mm

(12) 3" wheels

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

Frame Versions

	Inset (in mm per side)		
Angle (α)	0 mm	10 mm	30 mm
100°	x	x	x
92°	x	x	x
88°	x	-	x

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

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), on-off-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



	Seating width							
CGG	340	360	380	400	420	440	460	480
20	19	19	19	19	19	19	19	19
32	19	19	19	19	19	19	19	19
44	19	19	19	19	19	19	19	19
56	19	19	19	19	19	19	19	19
68	19	19	19	19	19	19	19	19
80	19	19	19	19	19	19	19	19
92	19	19	19	19	19	19	19	19
104	19	19	19	19	19	19	19	19

// NoGo Matrix for Emulse F55 Bundling

Preparation for ATTITUDE Add-on bike €

NTR090211	Preparation for ATTITUDE, w/o ATTITUDE order (1)	–
NTR090212	Preparation for ATTITUDE, with ATTITUDE order (2) (attache OF for Attitude)	–

Empulse F55 Bundling €

EMO000101	With Empulse F55 oder, not mounted to the wheelchair (3)	–
EMO000102	With Empulse F55 order, mounted to the wheelchair (3) (Attach OF for F55)	–

Forks (Compare 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)	–
NTR080029	Castor fork, Aluminium, black (6)	–
	Orange Silver	51
NTR080008	Castor fork, aluminium, one-arm. Standard colour: black (7)	206
	Orange Silver Red Blue	51
NTR080007	Castor fork, aluminium, suspension (Frog Legs ®), black (8) (+)	617

Castor Wheels (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)	72
NTR080304	Castor, solid (hard), rim: aluminium (12)	98
NTR080306	Castor, solid (soft), rim: aluminium, silver (12)	148
	Colour rim: Black Orange Red Blue	51
NTR080060	Castor, solid (soft), rim: carbon-composite, ultralight (13) (L)	190

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)	376
NTR070005	Rear wheel, Spinergy, 18 spokes (black), straight spokes; hub: silver	678
NTR070007	Rear wheel, Spinergy, 12 spokes (black), straight spokes, hub black	951
NTR070009	Rear wheel, Mountainbike, 36 spokes (silver), straight spokes (15)	344
NTR070010	Mountainbike wheel, replacement kit incl. tyre (extra coarse profile) (15)	522

Quick Release Axle €

NTR070150	Quick-release axle (18)	–
NTR070153	Quick-release axle superlight, Titan (19) (L)	107

Tyres €

NTR070101	Tyre, pneumatic, fine profile, Schwalbe Right Run	–
NTR070107	Tyre, pneumatic, slick, Schwalbe One (L)	53
NTR070102	Tyre, puncture proof, tread (+)	–
NTR070104	Tyre, pneumatic, puncture proof, tread, Schwalbe Marathon Plus Evolution (+)	54

(1) Docking pins assembled

(2) Docking pins assembled; ATTITUDE order on separate order form

(3) Please use separate OF to order F55. 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"

(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

(19) Not with Universal wheel, Red Button

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



// NTR070004 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



// NTR080013 & NTR080306 Castor fork, Carbotech & Castor solid (soft) aluminum



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

Handrims			€
NTR070201	Handrims, aluminium, powder-coated, clear (L)		–
NTR070202	Handrims, aluminium, anodised, silver (L)		–
NTR070203	Handrims, aluminium, powder-coated, coloured ⁽¹⁾ (L)		68
NTR070204	Handrims, stainless steel, silver (+)		–
NTR070205	Handrims, titanium, untreated		248
NTR070206	Handrims, titanium, powder-coated, clear		248
NTR070207	Handrims, Supergrip [®] (+)		351
NTR070208	Handrims, Maxgrepp [®] ⁽²⁾ (+)		463
NTR070212	Handrims, Ellipse 3R, black (+)		368
NTR070250	Handrim cover, rubber ⁽³⁾		133
B4M	Handrims, Carbolife QUADRO ⁽²⁾ ⁽⁴⁾ (+)		542
B4M	Handrims, Carbolife GEKKO ⁽⁴⁾ (+)		542

Handrim mounting

NTR070307	Handrim mount, super narrow (7 mm) ⁽⁵⁾		126
NTR070317	Handrim mount, narrow (17 mm)		–
NTR070327	Handrim mount, wide (27 mm)		–

Axle Tube

NTR010401	Axle tube, aluminium, black		–
NTR010402	Axle tube, carbon, black ⁽⁶⁾		230
NTR010403	Axle-assembly superlight, Carbon ⁽⁶⁾ ⁽⁷⁾ (L)		502

Wheel Camber

NTR070600	0°		–
NTR070603	3°		–
NTR070606	6° ⁽⁸⁾		–
NTR070609	9° ⁽⁹⁾		–

Spoke Guards ⁽²⁾

NTR070831	Transparent					192
NTR070823	Princess	NTR070813	Galaktica	NTR070806	Chrome	255
NTR070816	Happy Lions	NTR070821	Pirates	NTR070803	Basketball 2	255
NTR070819	Monkeys	NTR070814	Graffiti	NTR070828	Space	255
NTR070820	Oriental	NTR070802	Basketball	NTR070812	Flying Water	255
NTR070829	Superhero	NTR070827	Silk	NTR070833	Zebra	255
NTR070817	Hot Wheels	NTR070830	Tiger	NTR070818	Jungle Fever	255
NTR070822	Pool	NTR070811	Feather			255

Wheel Locks

NTR060001	Standard brake		–
NTR060002	Knee-lever brake		64

(1) Select colour on last page

(2) Only 24"

(3) Not with 25" and Ellipse

(4) B4M leadtimes and conditions apply

(5) Only with stainless steel and Ellipse

(6) Add-ons (push-devices, trailers etc.) must not be clamped to the carbon tubes

(7) Not with WheelDrive; only 0° camber, no adjustment of track-width possible. Not in combination with Pro option. No anti-tips or tip-assist possible. Max. user-weight 125kg.

(8) Not with carbon axle tube. Not with WheelDrive

(9) Not with carbon axle tube. Not with handbike axle & WheelDrive

Handrims



// NTR070208 Handrim Maxgrepp®



// NTR070212 Handrim Ellipse 3R

Axle Tubes



// NTR010403 Axle assembly super-light



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



// NTR010036 Nitrum Hybrid 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

NTR060023	Compact brake EVO (1)	92
NTR060024	Lightweight compact brake EVO (1)(2) (L)	124
NTR060010	Brake lever extension, knee-lever brake, fold-down (3)	30
NTR060006	Compact one-arm brake, left actuation (+)	206
NTR060007	Compact one-arm brake, right actuation (+)	206

Accessories

€

NTR090000	Tool kit	–
NTR090024	High pressure pump (0 - 11 bar)	87
NTR090025	Air pump	16
NTR090030	Back pack	82
NTR090100	Tie down brackets for transportation (6)	89
NTR090026	Mobile phone pocket	26

Frame Colours (4) *frame with cost

	Frame	Handrim	Hub/Rim (5)		Frame	Handrim	Hub/Rim (5)
02 Brillant Silver				29 Black			
03 Silver Matt*				31 Matt Black			
06 Sun Yellow				32 Signal White			
14 Blue				33 Pink			
15 Brillant Marine				34 Dark Chocolate Metallic*			
16 Matt Marine*				35 Skyblue*			
19 Brillant Purple				36 Cyan-Metallic*			
21 Red Ruby				37 Marsred (Orange)*			
22 Brillant Red*				40 Kiwi*			
23 Matt Red*				41 Flamingo-Glitter*			
24 Tutti Frutti Orange				42 Matt Anthracite			
27 Graphitemetallic				46 Mamba Green			
	94	68	186		94	68	186

Sticker Colours „NITRUM“ & „QUICKIE“

€

NTR100550	Black	–
NTR100551	Silver	–
NTR100552	Orange	–
NTR100553	Red	–
NTR100554	Blue	–

(1) Not available with 6° & 9° camber

(2) Adjustment of COG ±20 mm on a wheelchair in the field.

(3) Only with NTR060002

(4) Please consult our colour catalogue to review your colour choice

(5) Only with rear wheel, universal

(6) In combination with Pro option only possible with NTR010038 backrest angle-adjustable, foldable. Max. user weight 136kg.

Axle Stem Clamp Colours (1)		€
NTR100560	Silver	–
NTR100561	Orange	15
NTR100562	Red	15
NTR100563	Blue	15

Frame Graphic "Floating Dots" Colours (2)		€
NTR100570	Black	222
NTR100575	Matt Black	222
NTR100571	Silver (Grey)	222
NTR100572	Orange	222
NTR100573	Red	222
NTR100574	Blue	222

24" Lightweight Wheel Colours		€
	Black	–
NTR100336	Orange anodised (3)	186
NTR100337	Blue anodised (3)	186
NTR100338	Red anodised (3)	186

(1) No choice in combination with Pro option or Axle-assembly superlight, Carbon

(2) No choice of sticker colours (NTR100550-554) in combination with frame graphic "Floating Dots" possible. The "Nitrum" sticker on the caster-link is always the same colour as the chosen Floating Dots- colour

(3) Anodised colours for hub and rim, black spokes. Only with lightweight wheel in 24"

Frame Graphics



// Frame Graphics "Floating Dots"



// NTR100336
Lightweight wheel, anodized orange



// NTR100337
Lightweight wheel, anodized blue



// NTR100338
Lightweight wheel, anodized red

Comments

Nitrum Hybrid

€

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

Date

Signature

Day Month Year

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