

#### Test Report No.: GZES221202381507

Date: 2023-02-21

#### The following sample(s) was/were submitted and identified on behalf of the applicant as:

Applicant: MovingLife Ltd.

Address: Kibbutz Netzer Sereni 7039500, Israel

Manufacturer: MovingLife Ltd.

Address: Kibbutz Netzer Sereni 7039500, Israel

Factory: Dongguan Tetro Limited

Address: No. 79, Lijiafang Rd, Lijia Fang Industrial District Shoal Town Dongguan

Guangdong, China

Testing Laboratory: SGS-CSTC Standards Technical Services Co., Lide Guangzhou Branch

198 Kezhu Road, Science City, Economic & Technology Development Area

Guangzhou, Guangdong, China

The standards: ISO 7176-8:2014

Requirements and test methods for static, impact and fatigue strengths

Test item description: Mobility scooter

Trademark: a movinglife

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Model/Type reference: ATTO, ATTO Sport, ATTO Sport MAX

Ratings: Charger:

Input: AC 100-240 V; 50/60 Hz; 2.5 A; Output: DC 54.6 V; 2.0 A

Internal Battery:

DC 48 V; 5200 mAh; 249,6 Wh

Test result: In the opinion of SGS – CSTC the presented appliance was found to be in

compliance with the test specification as indicated in the details on the

following pages.

Remark: None

Gary Guo / Albert Liu

Project Reviewer

George Gu

Project Engineer

Medical Electrical Equipment Laboratory



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#### Summary of testing:

Tests according to the following standard were carried out:

ISO 7176-8:2014

The submitted sample fulfilled the requirements of specified standard.

According to the declaration of applicant and construction check, ATTO Sport and ATTO Sport MAX are identical except for the Max. limit speed and weight capacity, details see below specification sheet

After technical reviewing, Model ATTO and ATTO Sport MAX were selected for the tests.

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#### Copy of marking plate:

#### Label on the mobility scooter









1. The Height of WEEE logo shall not be less than 7 mm.

#### Safety Labels



product lifting.







ATTO SPORT MAX



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Test item particulars...... Mobility scooter

Type classes .....: Class A

Model.....: ATTO, ATTO Sport, ATTO Sport MAX

Type and model of controller.....: Model: 700-004814 for ATTO

Model: 700-103985 for ATTO Sport MAX, ATTO

Sport

Rated Input: DC22-60V; IPX4

Manufactured by Tetro

controller was tested according to ISO 7176-

14:2008 (SGS test report No. GZES210702350101)

Type and model of motors.....: Model: 110ZWN36-170/PC110-10

(MT02-MM-XXXX-XXXXX (XX...is SN))

DC 48V; 250 W; Class F

Manufactured by Zhejiang LINIX Motor Co., Ltd.

Type and capacity of the batteries .....: Li-ion Battery Pack, Model: zn13s2p

5.2 Ah; DC 48 V; 249.6 Wh

Manufactured by Shenzhen Zhuoneng New

**Energy Corporation Limited.** 

Battery was tested according to IEC 62133-2:

2017 (Shenzhen TCT test report No.

TCT211011B060)

Or manufactured by Guangxi Ares Energy

Technology Co., Ltd

Battery was tested according to IEC 62133-2: 2017 (Shenzhen Precise Testing Technology Co.,

Ltd test report No. S-22076108A0)

Type and model of Charger.....: Model: FY5462000

Input: AC 100-240 V; 50/60 Hz; 2.5 A

Output: DC 54.6 V; 2.0 A

Manufactured by Fuyuan Electrical Co., Ltd.

Charger was tested according to IEC 60335-2-29:

2016 and IEC 60335-1:2010+A1+A2

(TUV Rheinland Certificate No. JPTUV-077244)

Alternative charger, Model: XVE126-5460200

Input: AC 100-240 V; 50/60 Hz; 2.5 A

Output: DC 54.6 V; 2.0 A

Manufactured by JIN XIN YU

POWER(SHENZHEN) SUPPLY CO., LTD.

Charger was tested according to IEC 60335-2-29:

2016 and IEC 60335-1:2010+A1+A2

(TUV Rheinland Test report No. 50252088 001)



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**Test Report** Report No.: GZES221202381507

Date: 2023-02-21

ATTO and ATTO Sport: 120 kg, Maximum mass of the user .....:

ATTO Sport MAX: 136 kg

Possible test case verdicts:

- test case does not apply to the test object .....: N/A - test object does meet the requirement .....: P (Pass) - test object does not meet the requirement .....: F (Fail)

- test object was not evaluated for the requirement ....: N/E

**Testing** 

Date of receipt of test item....: 2023-01-03

Date (s) of performance of tests....: 2023-01-03 to 2023-02-21

The ambient temperature .....: 25 ℃

The mass of the dummy or human test occupant and ATTO and ATTO Sport: 120 kg, 

ATTO Sport MAX: 136 kg

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#### **General remarks:**

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Throughout this report a  $\square$  comma /  $\boxtimes$  point is used as the decimal separator.

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#### **General product information:**

This mobility scooters compose a line of mostly indoor mobility scooters that provides transportation for people with limited mobility or anyone that requires a mobility scooter.

This motorized, three-wheeled vehicle is a battery-powered device intended for medical purposes. It is used for both inside and outside transportation. Which is intended for people with temporary or permanent walking difficulties or walking disability, due to an injury, a physical disability, age, or a medical condition.

According to the declaration of applicant and construction check, ATTO Sport and ATTO Sport MAX are identical except for the Max. limit speed and weight capacity, details see below specification sheet

#### Specification sheet

Model	ATTO	ATTO Sport MAX	ATTO Sport
Class	А	А	А
Weight Capacity (kg)	120	136	120
Max. Speed (km/h)	6.4	6.0	10.0
Dimension HxLxW Trolley mode (cm)	72×39×42	72×39×44.5	72×39×44.5
Dimension HxLxW Drive mode (cm)	90×120×56	90×120×58.2	90×120×58.2
Total Weight (kg)	29	30.5	30.5
Controller	Model: 700-004814 Model: 700-103985		
Battery	Li-ion Battery Pack, Model: zn13s2p, 5.2 Ah; DC 48 V; 249.6 Wh		
Motor	Model: 110ZWN36-170/PC110-10 (MT02-MM-XXXX-XXXXX (XXis SN)) DC 48 V; 250 W		
Maximum Rated Slope	6°		
Tires	Type: Solid, Front: 8 in, Rear: 9 in		
Range Distance (km)	20		



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	ISO 7176-8:201	4	
Clause	Requirement	Remarks	Verdict
4	Requirements		Р
4.1	Strength requirements		Р
	When tested in accordance with Clauses 8, 9 shall meet all the following requirements at the		Р
	a) No component shall show evidence of visible cracks, be fractured, or have become detached, with the following exceptions.		Р
	Readjustment of postural supports is allowed after each of the tests in Clauses 8 and 9.		Р
	2) Re-tightening, readjusting, or refitting of components that are identified in the operator's manual as operator-adjustable components is allowed at 25 % intervals during each of the multi drum, drop, and manual brake fatigue testing procedures (Clause 10).		Р
	Operator adjustable components, as identified in the operator's manual, may not be adjusted using tools unless the tools are supplied with the wheelchair.		Р
	If there are operator adjustable components, fatigue test equipment may be stopped at 25 % plus or minus 5 % intervals, to determine if re-tightening, readjusting, or refitting of operator-adjustable components is required.		Р
	Retightening, readjusting, or refitting shall then be performed, following the procedures outlined in the operator's manual.		Р
	Retightening, readjusting, or refitting shall then be performed, following the procedures outlined in the operator's manual.		Р
	Restart the test equipment after retightening, readjusting, or refitting has been performed.		Р



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	ISO 7176-8:2014		
Clause	Requirement	Remarks	Verdict
	<ol> <li>Re-tightening, readjusting, or refitting of any other component is not allowed.</li> </ol>		Р
	4) During the fatigue testing (Clause 10), the following wear items, if they are identified in the operator's manual, may be replaced no more than twice per item: tyres (including solid tyres), inner tubes, drive belts, castor wheel rubber.		P
	In the case of castor wheels that are a single integral part, replacement is only permitted because of wear or failure of the running surface, but not for failure of the wheel structure or other elements (e.g. bearings).	No castor equipped	N/A
	No other wear items may be replaced.		Р
	5) Cracks in surface finishes, such as paint, that do not extend into the structural material do not constitute a failure.		P
	b) No externally visible electrical cable shall be cut, abraded, or crushed.		Р
	No externally visible electrical connector shall be crushed or disconnected.		Р
	c) All parts intended to move, rotate or be removable, folding or adjustable shall operate as described by the manufacturer.		Р
	d) All power-operated systems shall operate as described by the manufacturer.		Р
	e) Handgrips shall not be displaced.		Р
	f) No component or assembly of parts shall exhibit visible plastic deformation, free play, or loss of adjustment that adversely affects the function of the wheelchair.		P
	g) The brake mechanism shall not have moved from the pre-set positions.		Р
			Р



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	ISO 7176-8:2014		
Clause	Requirement	Remarks	Verdict
	Manufacturers shall disclose in their specification sheets, in the manner and sequence specified in ISO 7176-15, if the wheelchair meets the strength requirements of this part of ISO 7176.		P

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TABL	TABLE 8 Static strength Model: ATTO P				
	naximum occupant mass $M_d$ (kg) 4, 8.5)	120			
	The dummy mass $M_{\vec{d}}$ (kg) (for 8.6, 8.7, 8.8, 8.9, 8.10)				
The wheelchair mass $M_w$ (kg) 29					
	Test item	Force to be applied	Result	Remarks	
8.4	Armrests: resistance to downward forces	914 N	No damage		
8.5	Footrests: resistance to downward forces	1177 N	No damage		
8.6	Tipping levers	N/A	N/A		
8.7	Handgrips	1140 N	No damage		
8.8	Armrests: resistance to upward forces	N/A	N/A		
8.9	Footrests: resistance to upward forces	N/A	N/A	The test of apply to s	
8.10	Push handles: resistance to upward load	1096 N	No damage		
8.11	Scooter steering handles: Resistance to forward forces	450	No damage		
8.12	Scooter steering handles: Resistance to rearward forces	450	No damage		
8.13	Scooter steering handles: Resistance to downward forces	914 N	No damage		
8.14 Scooter steering handles: Resistance to upward forces 1096 N No damage					
Suppl	ementary Information:				

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TABLE 8 Static strength Model:	ATTO Sp	oort MAX			Р
The maximum occupant mass $M_d$ (for 8.4, 8.5)	The maximum occupant mass $M_d$ (kg) (for 8.4, 8.5)				
The dummy mass $M_d$ (kg) (for 8.6, 8.7, 8.8, 8.9, 8.10)					
The wheelchair mass $\emph{M}_{w}$ (kg)	3	0.5			
Test item		Force to be applied	Result	Remarks	
8.4 Armrests: resistance to down forces	ward	952 N	No damage		
8.5 Footrests: resistance to down forces	nward	1226 N	No damage		
8.6 Tipping levers		N/A	N/A		
8.7 Handgrips		1274 N	No damage		
8.8 Armrests: resistance to upwa forces	rd	N/A	N/A		
8.9 Footrests: resistance to upware forces	ard	N/A	N/A	The test of apply to s	
8.10 Push handles: resistance to uload	upward	1225 N	No damage		
8.11 Scooter steering handles: Re to forward forces	sistance	450	No damage		
8.12 Scooter steering handles: Re to rearward forces	sistance	450	No damage		
8.13 Scooter steering handles: Re to downward forces	sistance	1036 N	No damage		
8.14 Scooter steering handles: Re to upward forces	sistance	1225 N	No damage		
Supplementary Information:					



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TABL	TABLE 9 Impact strength Model: ATTO P				
The d	ummy mass $M_{ec{d}}$ (kg)	120			
The w	heelchair mass $M_w$ (kg)	29			
	Test item	Angle of swing of the pendulum $\theta$ (°)	Result	Remarks	
9.3	Backrest: resistance to impact	30	No damage		
9.4	Handrim: resistance to impact	N/A	N/A		
9.5	Castors: resistance to impact	N/A	N/A		
9.6.3	Footrests: resistance to impact - Lateral impact	N/A	N/A		
9.6.4	Footrests: resistance to impact - Longitudinal impact	N/A	N/A		
9.7.1	Impacts on anti-tip devices - Upward impacts on anti-tip devices	N/A	N/A		
9.7.2	Impacts on anti-tip devices - Forward impacts on anti-tip devices	N/A	N/A		
9.7.2	Impacts on anti-tip devices - Rearward impacts on anti-tip devices	N/A	N/A		
9.7.3	Impacts on anti-tip devices - Lateral impacts on anti-tip devices	N/A	N/A		
Suppl	Supplementary Information:				

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TABLE 9 Impact strength Model: ATTO Sport MAX				
ummy mass $M_d$ (kg)	136			
heelchair mass $M_w$ (kg)	30.5			
Test item	Angle of swing of the pendulum $\theta$ (°)	Result	Remarks	
Backrest: resistance to impact	30	No damage		
Handrim: resistance to impact	N/A	N/A		
Castors: resistance to impact	N/A	N/A		
Footrests: resistance to impact - Lateral impact	N/A	N/A		
Footrests: resistance to impact - Longitudinal impact	N/A	N/A		
Impacts on anti-tip devices - Upward impacts on anti-tip devices	N/A	N/A		
Impacts on anti-tip devices - Forward impacts on anti-tip devices	N/A	N/A		
Impacts on anti-tip devices - Rearward impacts on anti-tip devices	N/A	N/A		
Impacts on anti-tip devices - Lateral impacts on anti-tip devices	N/A	N/A		
	Impacts on anti-tip devices - Rearward impacts on anti-tip devices - Rearward impacts on anti-tip devices - Lateral Impacts on anti-tip devices - Lateral Impacts on anti-tip devices - Rearward impacts on anti-tip devices - Lateral Impacts on anti-tip devices - Rearward impacts on anti-tip devices - Lateral Impacts on anti-tip devices - Lateral Impacts on anti-tip devices - Forward Impacts on anti-tip devices - Lateral Impacts on anti-tip devices - Rearward Impacts on anti-tip devices - Lateral Impacts on anti-tip devices - Lateral	Test item  Test item  Angle of swing of the pendulum $\theta$ (°)  Backrest: resistance to impact  Handrim: resistance to impact  Castors: resistance to impact  N/A  Castors: resistance to impact  Footrests: resistance to impact - Lateral impact  N/A  Impacts on anti-tip devices - Upward impacts on anti-tip devices  Impacts on anti-tip devices - Forward impacts on anti-tip devices  Impacts on anti-tip devices - Rearward impacts on anti-tip devices  Impacts on anti-tip devices - Lateral  N/A  Impacts on anti-tip devices - Rearward impacts on anti-tip devices  Impacts on anti-tip devices - Lateral	Test item  Test item  Angle of swing of the pendulum $\theta$ (°)  Result  Backrest: resistance to impact  Handrim: resistance to impact  N/A  N/A  Castors: resistance to impact  N/A  Footrests: resistance to impact  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Test item  Angle of swing of the pendulum $\theta$ (°)  Result  Remarks  Backrest: resistance to impact  Handrim: resistance to impact  Castors: resistance to impact  N/A  N/A  Footrests: resistance to impact  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/

TABLE 10.3 Multi-drum test					
The dummy mass (kg)	Number of cycles	Loading speed (RPM)	Result	Remarks	
120	200000	1,0 m/s	Meet the requirement	ATTO	
136	200000	1,0 m/s	Meet the requirement	ATTO Sport MAX	
Supplementary Information:					



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Report No.: GZES221202381507

Date: 2023-02-21

TABLE 10.4 Drop test					
The dummy mass (kg)	Number of cycles	Drop height	Result	Remarks	
120	6666	50 mm	Meet the requirement	ATTO	
136	6666	50 mm	Meet the requirement	ATTO Sport MA	
Supplementary Information:					

TABLE 10.5 Fatigue test of manually operated parking brakes				
Manually operated parking brake	Number of cycles	Result	Remark	is .
ATTO Sport MAX 6000 Meet the requirement				
Supplementary Information:				

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Report No.: GZES221202381507

Date: 2023-02-21

#### **Attachment 1: Photo documentation**

Details of: ATTO

View:
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Details of: ATTO





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Report No.: GZES221202381507

Date: 2023-02-21

Details of: ATTO

View:

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Details of: ATTO

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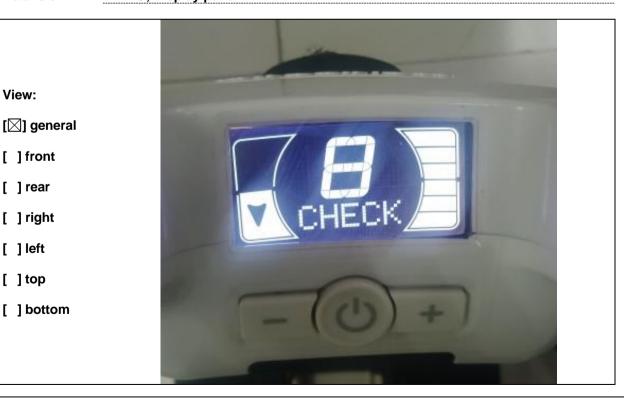
Report No.: GZES221202381507

Date: 2023-02-21

Details of: ATTO, Bottom view

View:
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Details of: ATTO, Display panel





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Report No.: GZES221202381507

Date: 2023-02-21

Details of: ATTO, Driving Console

View:
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Details of: ATTO, Driving Console





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Report No.: GZES221202381507

Date: 2023-02-21

Details of: ATTO, Internal view of console

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Details of: ATTO, Internal view of console





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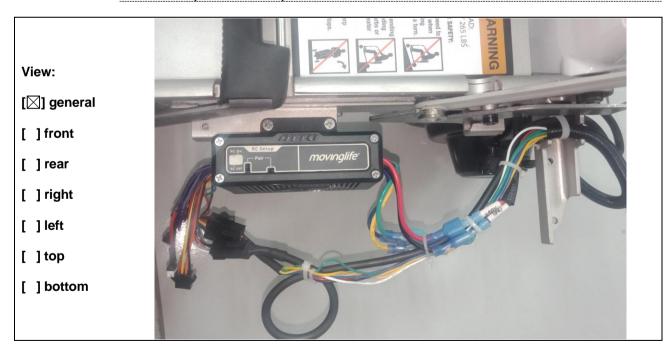
Report No.: GZES221202381507

Date: 2023-02-21

Details of: ATTO, Internal view of console



Details of: Controller (for all models)





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Report No.: GZES221202381507

Date: 2023-02-21

Details of: Battery (for all models)

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Details of: Alternative battery (for all models)

Manufacturer: Guangxi Ares Energy Technology Co., Ltd





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Report No.: GZES221202381507

Date: 2023-02-21

Details of: ATTO, Rear tire

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Details of: ATTO, Front tire and motor





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Details of: Battery charger (for all models)



Details of: Battery charger (for all models)





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Report No.: GZES221202381507

Date: 2023-02-21

Details of: ATTO Sport and ATTO Sport MAX

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Details of: ATTO Sport and ATTO Sport MAX





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Report No.: GZES221202381507

Date: 2023-02-21

Details of: ATTO Sport and ATTO Sport MAX

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Details of: ATTO Sport and ATTO Sport MAX





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Report No.: GZES221202381507

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#### Details of: ATTO Sport and ATTO Sport MAX, Bottom view



#### Details of: ATTO Sport and ATTO Sport MAX, Display panel





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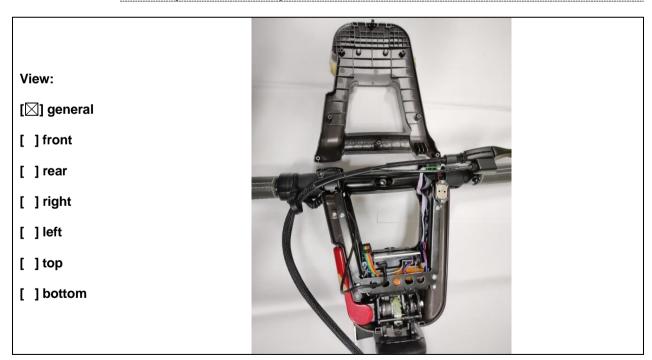
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Date: 2023-02-21

#### Details of: ATTO Sport and ATTO Sport MAX, Driving Console

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#### Details of: ATTO Sport and ATTO Sport MAX, Internal view of console





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Report No.: GZES221202381507

Date: 2023-02-21

Details of: ATTO Sport and ATTO Sport MAX, Internal view of console

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Details of: ATTO Sport and ATTO Sport MAX, Internal view of console





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Date: 2023-02-21

#### Details of: ATTO Sport and ATTO Sport MAX, Rear tire

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#### Details of: ATTO Sport and ATTO Sport MAX, Front tire and motor





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Report No.: GZES221202381507

Date: 2023-02-21

#### Details of: ATTO Sport and ATTO Sport MAX, Front tire and brake

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#### Details of: Motor for all models



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