

TEST REPORT

Hardline Laboratory

Report No. : THA0128/2025

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Date : NOV. 04, 2025

Mai Bikes

Wilhelmsdorfer Str. 6, 33604 Bielefeld, Germany

The following merchandise was submitted and identified by the applicant as:

Product Description: Mai Versa CGP frameset, Gravel Bike

Country of Origin: China

Sample Quantity: 2 carbon forks

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Requested: Clauses 4.9.4, 4.9.5, 4.9.6, 4.9.7 and 4.9.8 of ISO 4210-2:2023 Cycles – Safety requirements for bicycles - Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles.

Test Method: Clauses 5.2, 5.3, 5.4, 5.5 and 5.6 of ISO 4210-6:2023 Cycles – Safety requirements for bicycles - Part 6: Frame and fork test methods.

Bicycle type: City and trekking Young adult Mountain Racing

Test Result: --See following sheet(s)--

Date of Receipt: OCT. 22, 2025

Testing Period: OCT. 23, 2025 ~ NOV. 03, 2025

Signed for and on behalf of
SGS Taiwan Ltd.



Chihhao Lien
Asst. Manager



Testing Site: No.9, 14th Road, Taichung Industrial Park, Taichung City, Taiwan

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Test Result:

ISO 4210-2:2023 Cycles - Safety requirements for bicycles - Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles.

Bicycle type: City and trekking Young adult Mountain Racing

Clauses	Test Item	Sample No. / Test Sequence	Result	Remark
4.9	Front fork			
4.9.4	Front fork - Tensile test			
4.9.4.1	Suspension fork	--	N/A	--
4.9.4.2	Rigid non-welded fork	#1 / 4	Pass	Annex 1
4.9.5	Front fork - Static bending test	#1 / 2	Pass	Annex 2
4.9.6	Front fork - Rearward impact test			
4.9.6.1	Forks made entirely of metal	--	N/A	--
4.9.6.2	Forks which have composite parts	#1 / 5	Pass	Annex 3
4.9.7	Front fork - Bending fatigue test plus rearward impact test			
	- Bending fatigue test	#2 / 1	Pass	Annex 4
	- Rearward impact test	#2 / 2	Pass	Annex 4
4.9.8	Forks intended for use with hub- or disc-brakes			
4.9.8.1	Static brake-torque test	#1 / 3	Pass	Annex 5
4.9.8.2	Fork for hub-brake - Brake mount fatigue test	--	N/A	--
4.9.8.3	Fork made of composite materials designed for disc-brakes - Brake mount fatigue test	#1 / 1	Pass	Annex 6

- Note:**
1. "--" = Blank.; N/A = Not applicable.
 2. Sample Information: Material (Carbon), Mass (#1: 468 g; #2: 458 g).
 3. The bearings needed to conduct the test were provided by the applicant.
 4. Wheel diameter: 700C × 50C.

Annex 1:

Front fork - Tensile test (Rigid non-welded fork)						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 5.2.2 (ISO 4210-6:2023)	Force (N)	5,000	5,000	5,000	5,000	No detachment or loosening.

Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

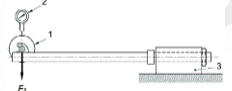
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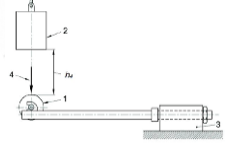
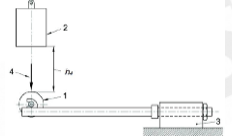
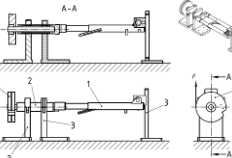
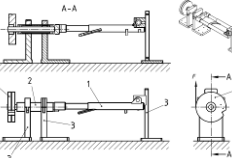
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Annex 2:

Front fork - Static bending test						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 5.3 (ISO 4210-6:2023) 	Force, F ₇ (N)	1,000	1,000	1,500	1,200	1. Permanent deformation: 1.46 mm. 2. No cracks.

Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

Annex 3:

Front fork - Rearward impact test						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 5.4.1 (ISO 4210-6:2023) 	Drop height, h ₄ (mm), (Forks made entirely of metal)	180	180	360	360	N/A
Clause 5.4.2 (ISO 4210-6:2023) 	Drop height, h ₄ (mm), (Forks which have composite parts)	320	320	600	640	1. Permanent deformation: 11.9 mm. 2. Visible cracks were observed after testing, but they were within the acceptable range of the test criteria. (See photos "E" to "I".)
Clause 5.4.3 (ISO 4210-6:2023) 	Drop height (mm) (only for forks made entirely of metal)	600	600	600	600	N/A
Clause 5.4.3 (ISO 4210-6:2023) 	Torque, M (Nm)	50	50	80	80	No relative movement.

Note: 1. C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.
 2. N/A = Not applicable.

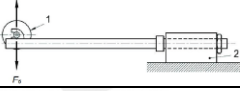
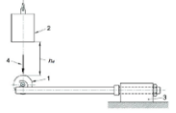
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Annex 4:

Front fork - Bending fatigue test plus rearward impact test						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 5.5 (ISO 4210-6:2023) 	Force, F_8 (N)	±450	±450	±650	±620	1. No cracks. 2. The peak deflections was no more than 20% of the initial values.
	Test cycles	100,000	100,000	100,000	100,000	
	Frequency	3 Hz				
Clause 5.4.1 (ISO 4210-6:2023) 	Drop height, h_4 (mm), (Forks which have composite parts)	320	320	600	640	1. Permanent deformation: 21.6 mm. 2. Visible cracks were observed after testing, but they were within the acceptable range of the test criteria. (See photos “J” to “O”.)

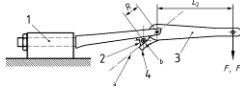
Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

Annex 5:

Static brake-torque test						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 5.6.2 (ISO 4210-6:2023) 	Force (N)	1,000	1,000	1,000	1,000	No cracks.
	Arm Length, L_2	365 mm				

Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

Annex 6:

Fork made of composite materials designed for disc-brakes - Brake mount fatigue test							
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result	
	Test condition						
Clause 5.6.4.2 (ISO 4210-6:2023) 	Stage 1	Force, F_9 (N)	600	600	600	600	No cracks.
		Test cycles	1,000	1,000	1,000	1,000	
		Temperature	100 °C	100 °C	100 °C	100 °C	
		Frequency	3 Hz				
		Arm Length, L_2	365 mm				
	Stage 2	Force, F_9 (N)	600	600	600	600	No cracks.
		Test cycles	11,000	11,000	11,000	19,000	
		Temperature	Ambient temperature				
		Frequency	3 Hz				
		Arm Length, L_2	365 mm				

Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

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*The content of this report is invalid if it is not presented as the entire report.

*The decision rule of the statements of conformity is following the ILAC G8:09/2019 by using the simple acceptance decision rule.

– Picture(s) –

	
Photo “A” Appearance of Sample	Photo “B” Appearance of Sample
	
Photo “C” Appearance of Sample	Photo “D” Appearance of Sample

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– Picture(s) –



Photo "E" Appearance of Sample after testing

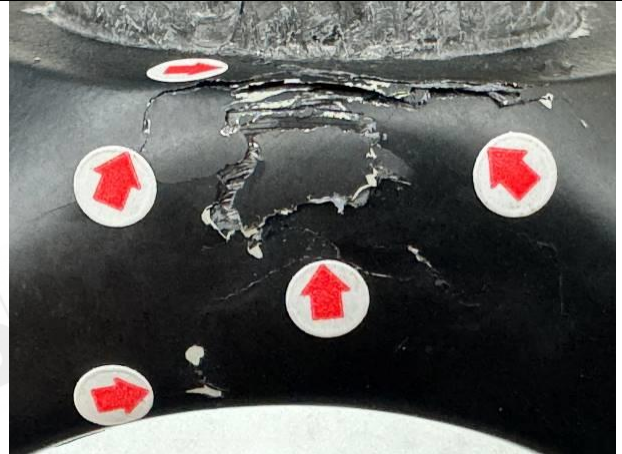


Photo "F" Appearance of Sample after testing



Photo "G" Appearance of sample after testing



Photo "H" Appearance of sample after testing



Photo "I" Appearance of sample after testing



Photo "J" Appearance of sample after testing

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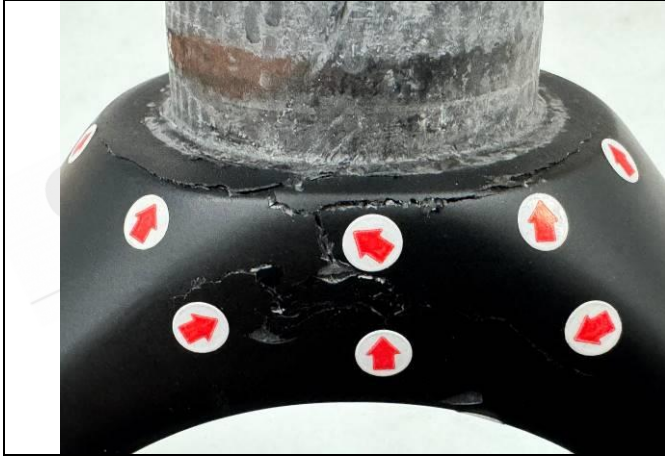


Photo "K" Appearance of sample after testing



Photo "L" Appearance of sample after testing



Photo "M" Appearance of sample after testing



Photo "N" Appearance of sample after testing



Photo "O" Appearance of sample after testing

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--- End of Report ---

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