

Customer: Rotor Components  
 Tecnológicos S.L  
 Contact person: Herr Victor Manuel Cabezas  
 Prieto  
 Date of Order: 2007-05-08

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**EXPRESS-Testreport**  
 Computer controlled fatigue test of a  
 Bicycle handlebar + stem  
 Test item no. 071957

**Test sample data**

	<b>handlebar</b>	<b>stem</b>
Manufacturer	Dummy	Rotor Components
Model name	Dummy	Agilis S1
Identity no.	None	None
weight (g)	-	107
Suspension		None
Application		MTB
Width handle bar (mm)	650	
Clamping torque (Nm)	3,5	2
Clamping diameter (mm)	31,8	28,6
Length stem (mm)		110
Remarks	none	

**Test description**

The handlebar / stem was fatigue tested following EFBe-Standard 7520. This means a computer controlled and documented single stage test (Wöhler-test) with an error less than 1% and a standard deviation less than 0,5%. In case of suspension test samples the test is carried out with spring rate, spring preload and damping at maximum.

**Fatigue test handlebar/stem EFBe TP-M**

The **test arrangement** is loading the handlebar ends antiphase and inphase. It is corresponding to EN 14764, clause 4.7.7.

The **requirements** are corresponding EFBe-class **Top Performance** for **mountain bikes** (TP M):

	<b>Anti phase</b>	<b>In phase</b>
<b>Top load:</b>	+270 N	+ 450 N
<b>bottom load:</b>	- 270 N	- 450 N
<b>Allocated number of cycles:</b>	100 000	100 000

**Test result:**

**Anti phase:** The allocated number of loads was reached without any crack or fracture.

**In phase:** The allocated number of loads was reached without any crack or fracture.

**The test was passed.**

**Remarks:** none

Test engineer: i.A. V. Stobberg  
 End of testing: 2007-05-11

Waltrop 2007-05-11 .....  
 stamp, sign

This test report may not be reproduced but with complete wording. It contains the result of a one-time type testing and no statements about quality of serial production components are made. Readings of dimensions, torques and weights are documented approximately only.

**Caution!**  
**Fatigue tested parts cannot be used further on.**  
**Acute danger of fracture!**