



# Test Report



Contract No : 10040604B-1

Issue Date : Apr. 16 , 2010

Applicant : U-MOUTH ENTERPRISE CO., LTD

Address : No.553-1 Sec. 3Li-Ming Rd,407 Taichung,Taiwan  
R.O.C.

Product : Wheel assembly

Model No : HCWS

Test Method : BS EN 14764 : 2005 City and trekking  
bicycles-Safety requirements and test methods, Annex D  
Wheel/tyre assembly –Fatigue test.

- Note: (1)The product is supplied by the applicant which has been tested by CHC and the test result is shown in this test report.
- (2)This test report is responsible only for the tested product, not for the suit.
- (3)This test report has 4 pages which shall not be abstracted and partial copied.
- (4)There is only one test report for the applicant.

Approved by : *James Sun*

Tested by : *Gavin Lin*

FORM NO : RI20-02



**CHC**

財團法人自行車暨健康科技工業研究發展中心  
Cycling & Health Tech Industry R&D Center

Page 1 of 4

407台中市台中工業區37路17號  
17,37Rd.,Taichung Industry Park,  
407,Taichung, Taiwan  
<http://www.tbnet.org.tw>

TEL : (04)23501100  
FAX : (04)23504590  
E-MAIL: [tbmaster@tbnet.org.tw](mailto:tbmaster@tbnet.org.tw)

研  
究  
發  
展  
中  
心

1. Test item : Fatigue test.
2. Test standard : BS EN 14764 : 2005 City and trekking bicycles-Safety requirements and test methods, Annex D Wheel/tyre assembly –Fatigue test.
3. Test equipment: Route testing system(D4)
4. Test procedure :
  - 4.1 Assemble the wheel, tyre and inner tube(when fitted) and inflate the tyre to 80% of the maximum pressure.
  - 4.2 Load the radial force applied to the wheel/tyre assembly is 640 N.  
The wheel and drum axes vertically aligned is shown in Fig. A.
  - 4.3 The diameter of the drum is 760 mm, and the slats width 50 mm  $\pm$  2.5 mm, thickness 10 mm  $\pm$  0.25 mm, and have 45° chamfered edges of half their thickness. The circumferential spacing between the centerlines of the two consecutive slats not less than 400 mm.
  - 4.4 Rotate the drum to give a linear surface speed of 25 km/h for a period to provide 750000 impacts between the tyre and the slats.



財團法人  
自行車暨  
健康科技  
工業研究  
發展中心  
馬

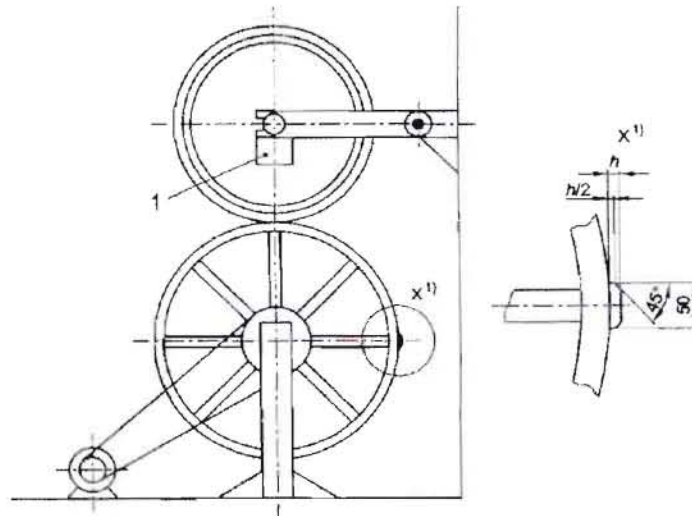


Fig. A Fatigue test

5. Test Results :

5.1 Test sample : As shown in Fig. 1, before the test, function is normal.



Fig. 1 Test sample



自行車  
可達章



## 5.2 The condition after test:

The Wheel/tyre assembly has no crack or fracture. The fatigue test is shown in Fig. 2.



Fig. 2 Fatigue test

Null below

