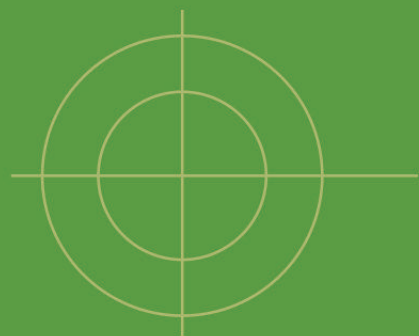


Unit
2

BICYCLE TESTERS

LOOK FORWARD TO THE FUTURE

Chun Yen have the right to modify the specification and design of machine without prior notice.



掌握航行全世界全方位的舵手
唯有 駿彥 團隊做得到





CY-6751

微電腦動態疲勞試驗機
(雙缸式)

MICRO COMPUTER DYNAMIC
FATIGUE TESTER (TWO CYLINDERS)



Bicycle & Exerciser





CY-6773B

微電腦動態疲勞試驗機(雙缸式)

MICRO-COMPUTER DYNAMIC FATIGUE
TESTER (TWO CYLINDER)



適用於:

前叉、立管、手把、手把頭管、曲柄、大齒盤

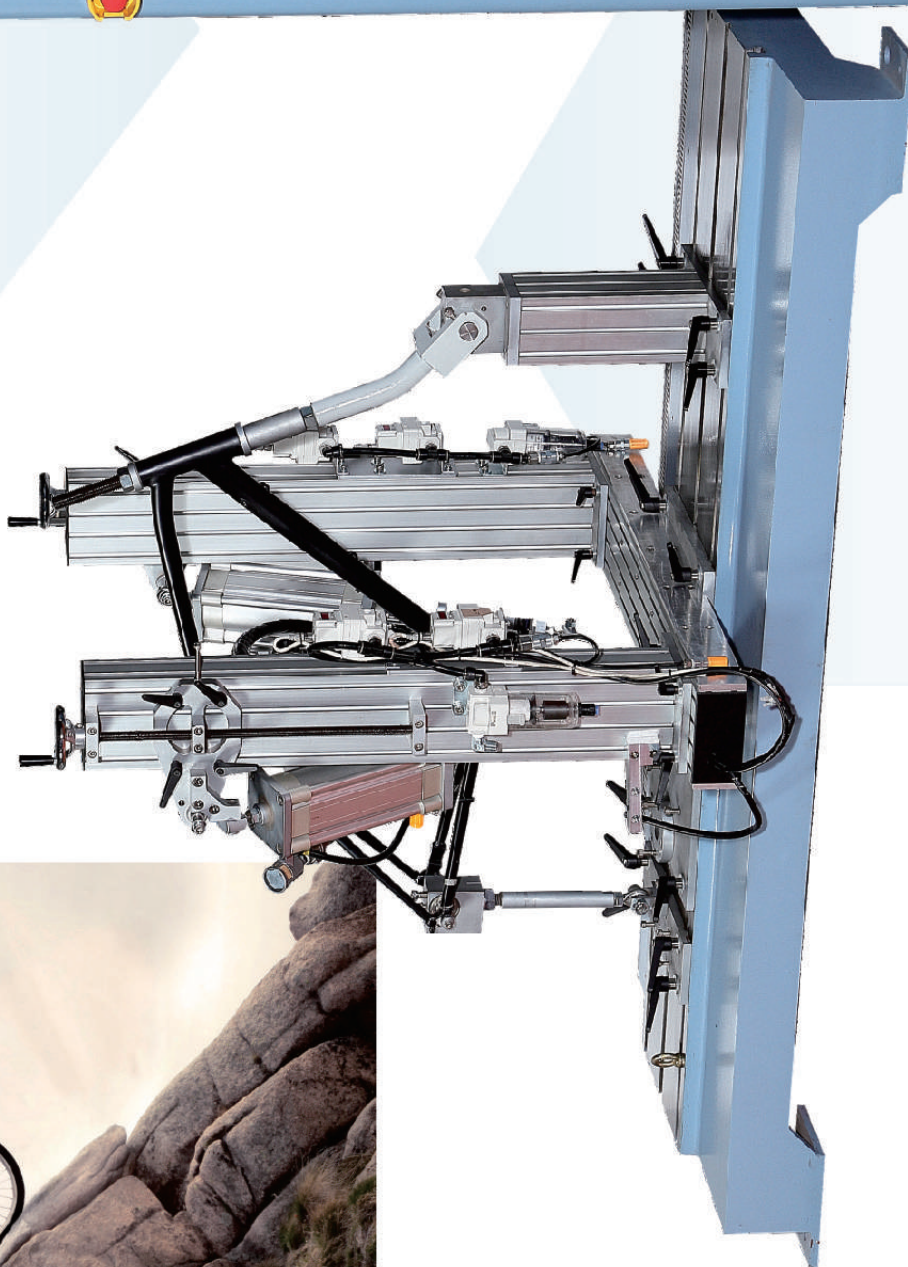
For Front Fork, handle-bar, handle-bar stem, crank, chain-wheel



CY-6772B

氣壓式多功能疲勞試驗機
(垂直、水平、加雙缸)

PNEUMATIC-TYPE MULTI-FUNCTION FATIGUE
TESING MACHINE
(VERTICAL+HORIZONTAL+DUAL+CYLINDER)



MICRO COMPUTER DYNAMIC FATIGUE TESTER (TWO CYLINDERS)

微電腦動態疲勞試驗機 (雙缸式)

DESCRIPTION

This tester is suitable to test bike's parts & materials and integrated dynamic fatigue state, the test functions are sufficient, and applications are wide, compliant to the bike test standards applied in numerous countries.

IN ACCORDANCE WITH

EN14764	EN14766
EN14765	EN14781
ISO 7500/1	BS 1610
EN 1002-2	DIN 5122
ASTME4	CNS 9471/9470
JIS B7721/B7733	JJG 475-88



A. MACHINE MECHANISM

Capacity	500kg.
Test space	0~800mm.
Test stroke	0~100mm.
Test frequency	3Hz.

The tester stops automatically when the test specimen breaks.

Servo hydraulic control system with cooling device.

B. FORCE SENSOR

Load cell	500kg.
Dynamic loading system.	
Output voltage 2MV.	
With break device.	

C. DISPLACEMENT SENSOR

LVDT displacement sensor.	
Test range	0~100mm.
Repeatability test	within 0.05mm.
Accuracy	0.5%

D. HYDRAULIC POWER

Constant pressure	150kg/cm ²
Max. Capacity	40 L/min.
Hydraulic box	300L.

Water cooling system, external connecting water source.

Servo system break directional valve.
Hydraulic overload prevention device.

E. PC SOFTWARE

Data acquisition and data analysis.
Constant load and constant stroke control.

Auto waves	sine wave, square wave, and triangle wave.
------------	--

Close loop control system.
Curve and information display.
Data save.
Curve display, time vs. force,
Displacement vs. Force.
Testing report print.

F. TEST GRIPS

Two sets of grips
(according to customers' requirement).

FOR BICYCLE
TWO CYLINDERS



2. Handlebar Fatigue Grip 把手疲勞夾具

上固定座: 固定於油壓缸
Upper Fixed Seat : Fixed on Hydraulic Cylinder

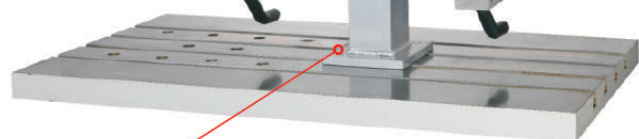
試件固定座
Specimen Fixed Seat

試件: 手把
Specimen : Handle Bar

試件固定座
Specimen Fixed Seat

In accordance with EN Standard

- 1.EN14764-4.7.7 (城市車)
- 2.EN14765-4.8.6 (童車)
- 3.EN14766-4.7.7 (登山車)
- 4.EN14781-4.7.7 (路跑車)



Lower Fixed Seat : Fixed on Base 下固定座: 固定於底座

4. Seat Post Grip 座管夾具

上固定座: 固定於油壓缸
Upper Fixed Seat : Fixed on Hydraulic Cylinder

座管固定座
Seat Post Fixed Seat

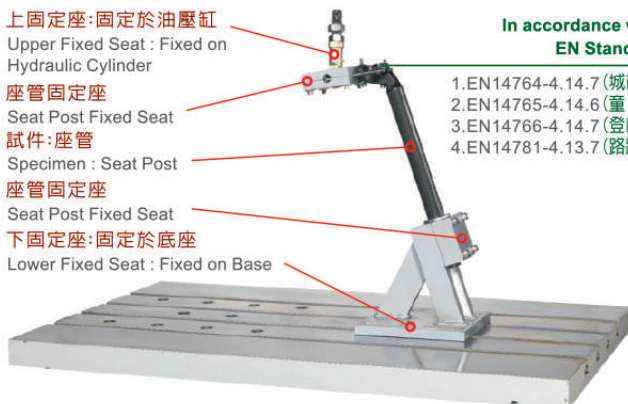
試件: 座管
Specimen : Seat Post

座管固定座
Seat Post Fixed Seat

下固定座: 固定於底座
Lower Fixed Seat : Fixed on Base

In accordance with EN Standard

- 1.EN14764-4.14.7 (城市車)
- 2.EN14765-4.14.6 (童車)
- 3.EN14766-4.14.7 (登山車)
- 4.EN14781-4.13.7 (路跑車)



6. Handlebar Stem 把手立管

上固定座: 固定於油壓缸
Upper Fixed Seat : Fixed on Hydraulic Cylinder

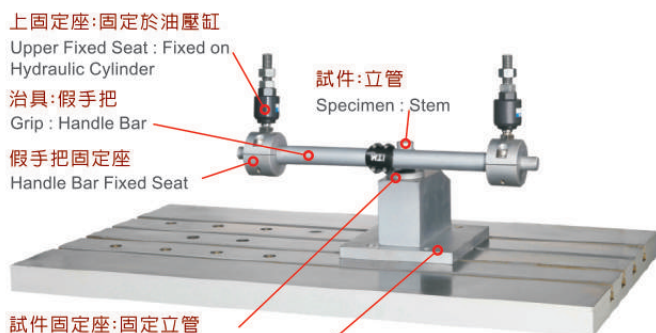
治具: 假手把
Grip : Handle Bar

假手把固定座
Handle Bar Fixed Seat

試件: 立管
Specimen : Stem

試件固定座: 固定立管
Specimen Fixed Seat : Fixed

下固定座: 固定於底座
Upper Fixed Base : Fixed on Base



1. Frame Grip 車架夾具

試件: 車架
Specimen : Frame

治具: 假前叉
Grip : Front Fork

In accordance with EN Standard

- 1.EN14764-4.8.3 (城市車)
- 2.EN14766-4.8.3 (登山車)
- 3.EN14781-4.8.3 (路跑車)



下固定座: 固定於底座
Lower Fixed Seat : Fixed on Base

3. Saddle Pole Fatigue Grip 座墊桿疲勞夾具

試件: 座椅
Specimen : Saddle

座椅固定座
Saddle Fixed Seat

下固定座: 固定於底座
Lower Fixed Seat : Fixed on Base

In accordance with EN Standard

- 1.EN14764-4.14.6 (城市車)
- 2.EN14765-4.14.6 (童車)
- 3.EN14766-4.14.6 (登山車)
- 4.EN14781-4.13.6 (路跑車)



5. Front-Fork Bending Fatigue Grip 前叉彎曲疲勞夾具

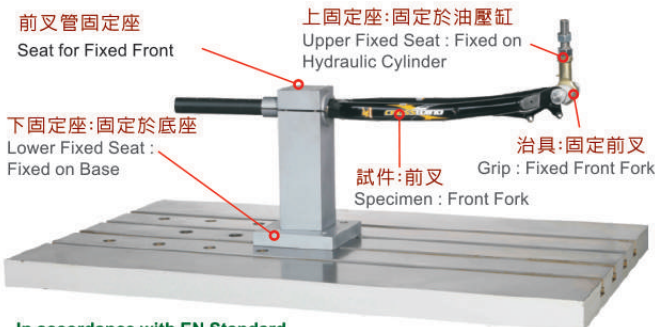
前叉管固定座
Seat for Fixed Front

上固定座: 固定於油壓缸
Upper Fixed Seat : Fixed on Hydraulic Cylinder

下固定座: 固定於底座
Lower Fixed Seat : Fixed on Base

治具: 固定前叉
Grip : Fixed Front Fork

試件: 前叉
Specimen : Front Fork



In accordance with EN Standard

- 1.EN14764-4.9.6 (城市車)
- 2.EN14765-4.10.2 (童車)
- 3.EN14766-4.9.6 (登山車)
- 4.EN14781-4.9.6 (路跑車)

7. Left Crank Alternative Grip, Horizontal Grip, Crank Shaft Grip 左曲柄交互夾具、水平軸夾具、曲柄軸夾具

上固定座: 固定於油壓缸
Upper Fixed Seat : Fixed on Hydraulic Cylinder

試件固定座: 固定腳踏桿
Specimen Fixed Seat : Fixed Pedal Level

治具: 假腳踏桿
Grip : Pedal Level

試件: 大齒盤
Specimen : Big Gear Disk

In accordance with EN Standard

- 1.EN14764-4.13.7 (城市車)
- 2.EN14765-4.13.6 (童車)
- 3.EN14766-4.13.7 (登山車)
- 4.EN14781-4.12.7 (路跑車)



下固定座: 固定於底座
Fixed Seat : Fixed on Base

Bicycle & Exerciser





微電腦自行車前叉動態疲勞試驗機(單缸式)

MICRO COMPUTER DYNAMIC FATIGUE TESTER (ONE CYLINDER)

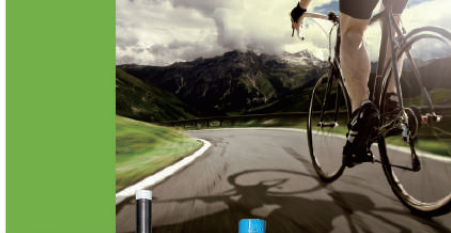
CY-6773A

前叉、座椅、座管、
大齒盤、曲柄

Front Fork, seat, seat post,
chainwheel, crank



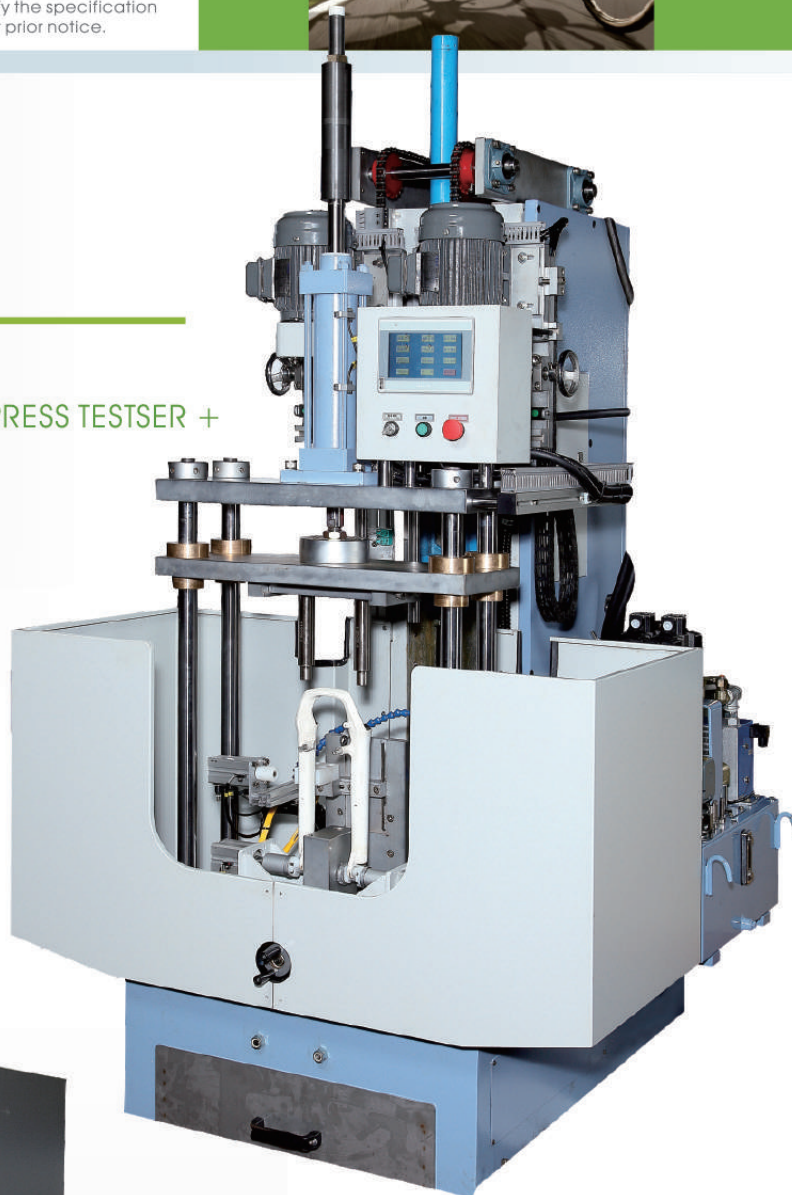
For Bicycle



CY-6724A

前叉外管塑膠襯套壓入及絞孔機

FRONT FORK OUTTUBE PLASTIC BUSHING PRESS TESTSER +
REAMING MACHINE



CY-6831

自行車輪圈偏擺試驗機

BIKE RIM OSCILLATION TESTSER



CY-6717C

微電腦耐寒輪組偏擺試驗機

MICRO COMPUTER FREEZING
WHEEL SET OSCILLATION TESTER



CY-6699

微電腦自行車輪胎漏氣試驗機

MICRO COMPUTER BIKE TIRE LEAKAGE TESTER





CY-6831

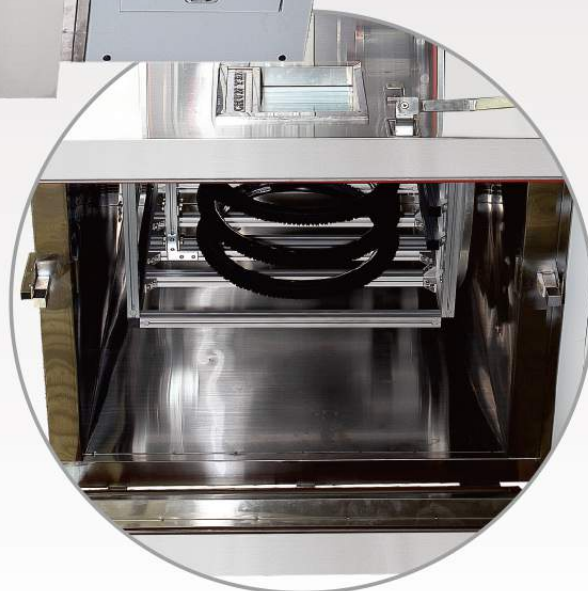
微電腦卡鞋扣合試驗機
MICRO COMPUTER CYCLING
SHOE LOCK TESTER



CY-6832

滑板車試驗機
SCOOTER TESTER





CY-6623D

臭氧試驗機

MICRO COMPUTER

TIRE OZONE OVEN TESTER



CY-6713B

微電腦四工位輪組壽命試驗機

MICRO COMPUTER WHEEL SET DURABILITY TESTER (4 -POSITION)





CY-6916

微電腦自行車輪胎滾動阻力試驗機

MICRO COMPUTER BILE TIRE ROLLING RESISTANT TESTER





CY-6040A2

腳踏車專用微電腦材料試驗機
(特大號)

MICRO-COMPUTER UNIVERSAL
TESTER FOR BICYCLE ONLY
(EXTRA BIG)





CY-6772A

微電腦腳踏車車架頭管座管垂直.水平力疲勞壽命驗機
MICRO COMPUTER BICYCLE FRAME HEAD TUBE, SEAT TUBE,
FATIGUE DURABILITY TESTER





EN MICRO COMPUTER FRAME HEAD TUBE, SEAT TUBE FATIGUE DURABILITY TESTER (HYDRAULIC TYPE)

EN 微電腦車架頭管座垂直.水平力疲勞壽命試驗機

In accordance with

EN 14764 : 4.8 EN 14766 : 4.8
EN 14765 : 4.9 EN 14781 : 4.8

DISPLACEMENT SENSOR

- a. LVDT Displacement Sensor
- b. Test Range : 0~100mm.
- c. Repeatability test : within 0.05mm.
- d. Accuracy : 0.5%.

FORCE SENSOR

- a. Capacity of Load Cell : Max. 500kg.
- b. Repetition loading system.
- c. Output Voltage : 2MV
- d. with signal and break device.

HYDRAULIC POWER

- a. Constant Pressure : 150kg/cm².
- b. Max. Capacity : 15 L/Min.
- c. Hydraulic Box : Above 100 L
- d. Water cooling system, external connecting water source.
- e. Servo system break directional valve.
- F. Hydraulic Overload Protection Device

SPECIFICATIONS

Application : For testing frame head tube, seat tube

1. Load Cell	S-500kg for measuring tension & pressure value during test (2 set)
2. Display	VU-52C (Small Type) to display tension & pressure value test (2 set) for 20"~28"
3. Frame	Max. 150kg
4. Max. Tension	Using pneumatic type for Up & Down Transmission
5. Transmission Type	Max. test distance : 10cm 30μ x stroke 100mm
6. Hydraulic Cylinder	Max. 10HZ
7. Test Frequency	Using [Nickel-Chromium Steel] material
8. Fatigue Crank	

- 9. Auto. Stopping Device when the frame broken
- 10. Servo Hydraulic Control System with hydraulic cooling device
- 11. Test Grip : For Bicycle Frame : (1) Horizontal Fatigue Test Grip (Head Tube)
(2) Vertical Fatigue Test Grip (Seat Tube)





微電腦自行車碟剎動力路況試驗機

MICRO COMPUTER DISK BRAKE FORCE DURABILITY TESTER

CY-6758A





DESCRIPTION

※ This machine is specialized in testing the battery's life.



CY-6735A

電動自行車動態路況試驗機

MICRO COMPUTER E-BIKE ROAD PERFORMANCE TESTER



CY-6760

微電腦電動車馬力、轉速、電流、電壓動態壽命試驗機

MICRO COMPUTER E-BIKE MOTOR POWER, RPM, CURRENT, VOLTAGE FATIGUE DURABILITY TESTER





CY-6781

微電腦避震器衰減力試驗機

MICRO COMPUTER SHOCK ABSORBER ATTENUATION TESTER



CY-6708

腳踏車車架(前叉)衝擊綜合試驗機

BIKE FRAME/ FRONT FORK ASSEMBLY IMPACT (FALLING MASS) TESTER

Description

1. For impact test on a frame
 - A. Impact load: 22.5 kg
 - B. Test height : 180 cm
 - C. Low Mass Roller : Max. 1 kg
2. For rearward impact test on a front fork
 - A. Impact load: 22.5 kg
 - B. Test height : 640mm
 - C. Accuracy of load: 1%
3. Transmission : Motor maximum for safe switch.
4. Dimension of main Body:
800 x 750 x 2500 mm (N.W.: 350kg)
Dimension of control Box:
550 x 4000 x 1050 mm (N.W.: 45kg)

CY-6707

腳踏車車架前叉摔落試驗機

BIKE FRAME/ FRONT FORK ASSEMBLY DROP TESTER



CY-6752

腳踏車車架前叉快速震動試驗機

BIKE FRAME FRONT FORK FREQUENT VIBRATION TESTER

將後側車架的後鐵固定在專用機上
用專用前叉與偏心度 25mm 凸輪接觸
車架上管與立管中心線的交點
加固定知荷動
凸輪以 250 rpm 旋轉
查看衝擊幾次會斷裂

依據

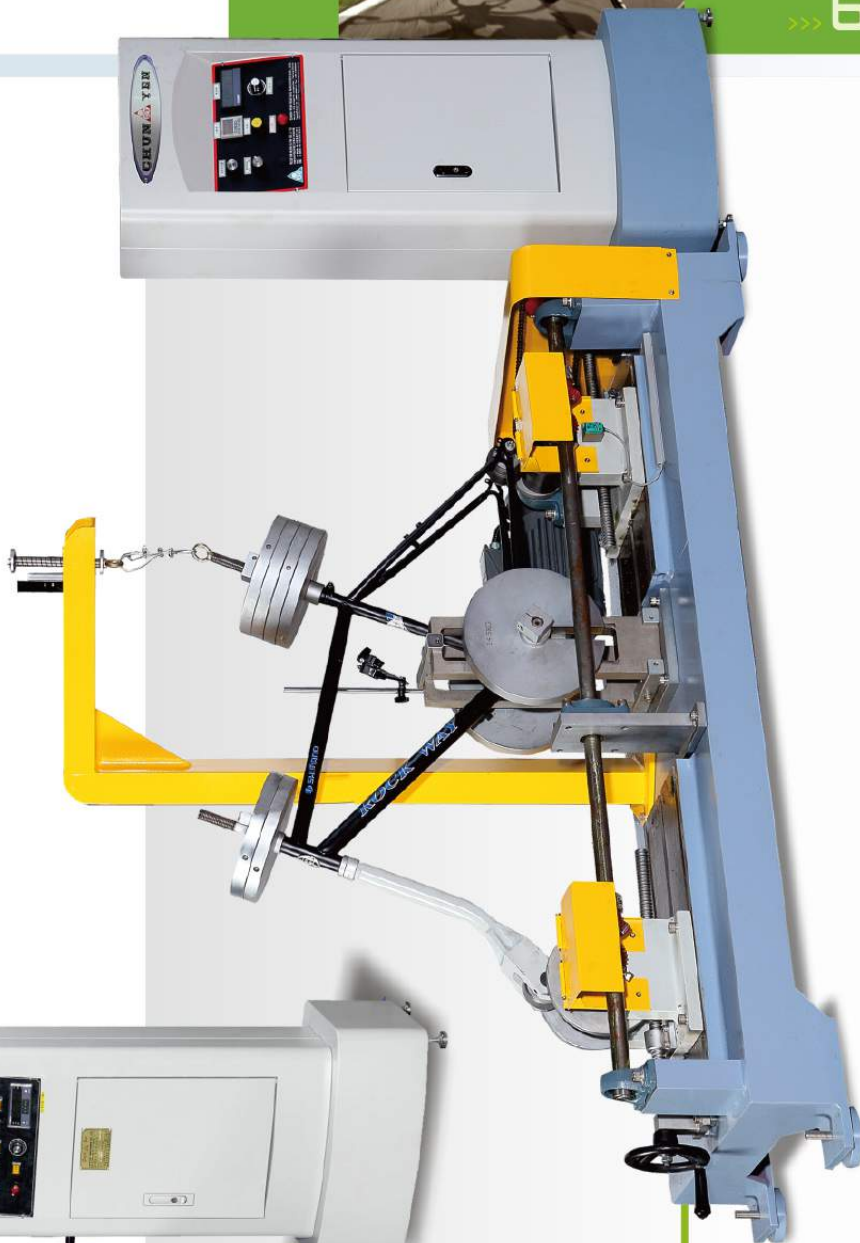
GB-3567-83 規格設計



CY-6706

腳踏車車架前叉前後震動試驗機

BIKE FRAME FRONT FORK FRONT / REAR VIBRATION TESTER





CY-6702

腳踏車踏板／踏臂系統動態試驗機 BIKE PEDAL/CRANK SYSTEM DYNAMIC TESTER

將踏板裝緊於試驗機旋轉軸上
載荷重50kg氣壓（可調式）
然後以100rpm 速度測試
連續1,000,000轉
測試完畢踏板或踏臂螺紋之任何部位不得有可見之破裂



CY-6701

花鼓耐磨試驗機 BIKE WHEEL HUB DURABILITY TESTER

本機專用花鼓耐磨
將花鼓固定重量
啟動馬達
查看幾萬次後
花鼓是否彎曲、變形、斷裂.....等現象

IN ACCORDANCE WITH

GB-3565-83 JIS-D-9416
ISO-28-2



CY-6702B

微電腦腳踏耐磨耗試驗機(三組，氣壓式)

MICRO COMPUTER BIKE PEDAL ABRASIVE TESTING MACHINE
(3 SETS, PNEUMATIC-TYPE)



微電腦腳踏車正比性試驗機
MICRO COMPUTER BICYCLE PEDAL BRAKING
PERFORMANCE LINEARITY TESTER

CY-6857



CY-6731

腳踏車車架嬰兒座墊震動搖擺試驗機

BIKE FRAME WITH CHILDREN'S SEAT
VIBRATION TESTER



CY-6619

微電腦汽車載物架震動壽命試驗機

MICRO COMPUTER AUTOMOBILE
LUGGAGE CARRIER(BIKE) VIBRATION TESTER



CY-6713 煞車器路況壽命試驗機

BRAKE SYSTEM ROAD PERFORMANCE TESTER



本機專用於煞車器路況測試仿如乾燥天氣與下雨天測試車性能好壞如能測試不同速度需要多少煞車距離及煞車幾次會造成煞車器脫膠·磨損·鋼纜斷裂等現象

IN ACCORDANCE WITH

ISO-30 GB-3565-83 for determining the performance of braking system of a bicycle ridden along a test track at a specified velocity, evaluate any fracture of braking system.



CY-6717A

微電腦花鼓棘輪組偏擺試驗機
MICRO COMPUTER BIKE FREE-HUB
OSCILLATION DURABILITY TESTER





CHUN YEN

Chun Yen has the right to modify the specification and design of machine without prior notice.



CY-6722

微電腦自行車前叉線上全檢試驗機

MICRO COMPUTER BIKE FRONT FORK FULL INSPECTION TESTER

自動雷射設備





CY-6722A

微電腦自行車前叉豎管
壓入線上全檢試驗機

MICRO COMPUTER BIKE FRONT
FORK STEMS PRESS FULL INSPECTION
TESTER



CY-6722B

微電腦自行車前叉內管
壓入線上全檢試驗機

MICRO COMPUTER BIKE FRONT FORK
UPPER TUBES PRESS FULL INSPECTION
TESTER





CY-6724A

工業4.0 AI人工智慧自行車前叉無人化自動組生產系統(A面)

INDUSTRIAL 4.0 AI SYSTEM FRONT FORK AUTO. ASSEMBLING PRODUCTION LINE



CY-6724A

工業4.0 AI人工智慧自行車前叉無人化自動組生產系統(B面)
INDUSTRIAL 4.0 AI SYSTEM FRONT FORK AUTO. ASSEMBLING PRODUCTION LINE





駿諺精機股份有限公司

CHUN YEN TESTING MACHINES CO., LTD.

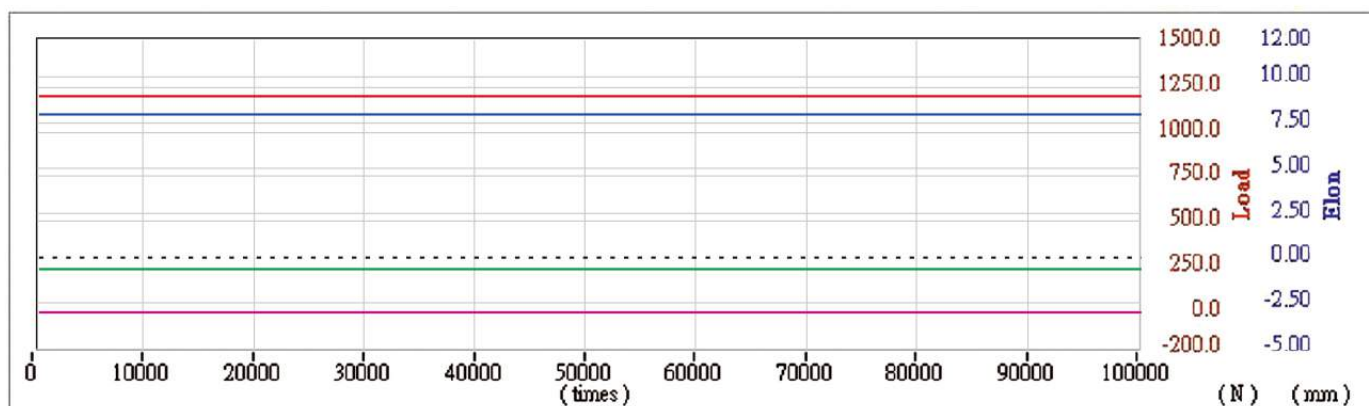
台灣省台中市龍井區忠和里工業路216巷25號

TEL: 886-4-26391141 FAX: 886-4-26392354

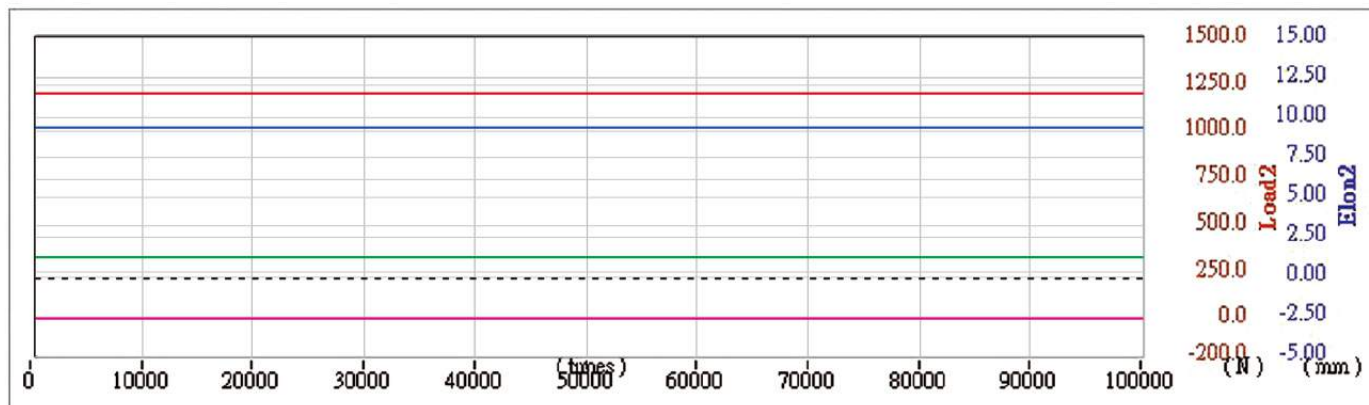
動態試驗報告

1. 公司名稱: CHUN YEN CO., LTD.
2. 操作者: 吳水和
3. 試件批號:
4. 試驗日期: 2008/4/23
5. 試驗時間: PM 03:05:28
6. 試驗溫度:
7. 試驗型態: 動態試驗
8. 試驗標準: EN-14766-4.8.3
9. 試件名稱: 車架
10. 試件型式: 車架-踏力疲勞測試
11. 試件頻率: 定荷重 3.0 Hz
12. 試驗範圍: 1200.0 ~ -0.0 N
13. 試驗次數: 100000 / 100000 Cycle
14. 試驗耗時: 09:14:59

15. 備註:
16. 檔案名稱: C:\C009-03\Test-車架踏力3-1.tst
- The Set -----
- 每段動作: 連結動作
- 循環設定: 1 段數設定: 1
- Ch1 -----
- 控制選擇: 定荷重
- 頻率: 3.0 Hz
- 上定設定: 1200.0 N
- 下定設定: 0.0 N
- 次數: 100000
- Ch2 -----
- 控制選擇: 定荷重
- 上定設定: 1200.0 N
- 下定設定: 0.0 N



CH1



CH2

測試: _____

審核: _____



駿諺精機股份有限公司

CHUN YEN TESTING MACHINES CO., LTD.

台灣省台中市龍井區忠和里工業路216巷25號

TEL: 886-4-26391141 FAX: 886-4-26392354

CY-6758 微電腦碟刹制動力壽命試驗機 試驗報告

1. 公司名稱: CHUN YEN CO., LTD.

2. 操作者: YUCHUN

3. 試件批號: T920304

4. 試驗日期: 2009/6/26

5. 試驗時間: PM 01:23:23

6. 使用規範: EN14766 - 登山車

7. 試驗名稱: 刹車性能

8. 使用刹車器: 前輪

9. 測試次數: 1 / 3 Cycles

10. 正比性限定: 20.0%

12. 循環次數: 6 / 8 Cycles

13. 刹車時間: 3.0 sec

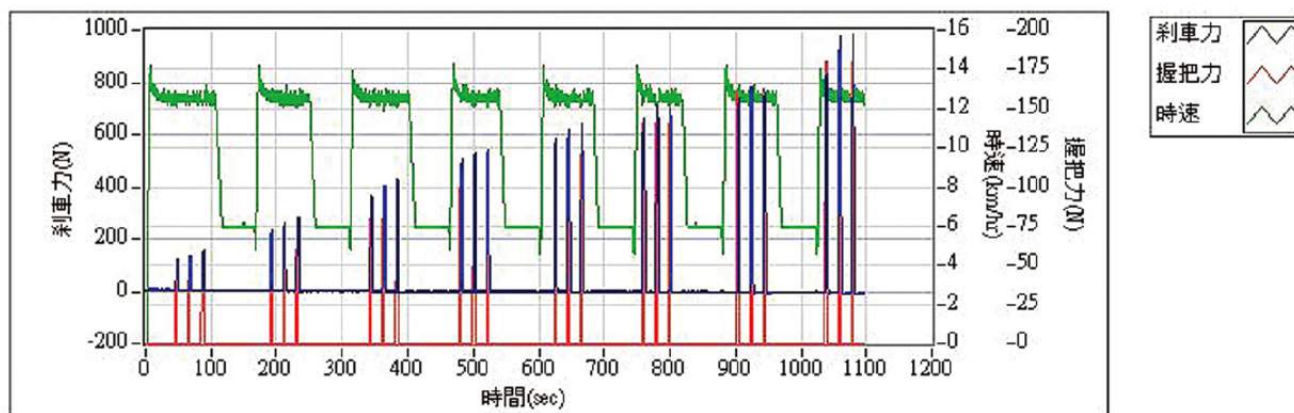
14. 休息時間: 60.0 sec

15. 釋放時間: 17.0 sec

16. 行車時速: 12.5 km / hr

17. 檔案名稱: C:\C055-E01\T980626-3.tst

乾式 ▼	Fop.Intend	Fbr.corr 1	Fbr.corr 2	Fbr.corr 3	Fbr.avg	Distance
1	40.0	114.4	132.0	148.4	131.6	16.26
2	60.0	221.4	255.3	282.3	253.0	9.13
3	80.0	345.6	400.6	429.6	391.9	6.39
4	100.0	471.3	522.9	537.6	510.6	5.23
5	120.0	563.4	602.3	635.6	600.4	4.66
6	140.0	642.2	706.5	693.3	680.6	4.27
7	160.0	703.3	779.6	755.4	746.1	4.02
8	180.0	816.5	961.1	961.4	913.0	3.54
Judge	PASS	-	-	-	913.0	3.54



測試: _____

審核: _____



駿諺精機股份有限公司

CHUN YEN TESTING MACHINES CO., LTD.

台灣省台中市龍井區忠和里工業路216巷25號

TEL: 886-4-26391141 FAX: 886-4-26392354

CY-6758 微電腦碟刹制動力壽命試驗機 試驗報告

1. 公司名稱: CHUN YEN CO., LTD.

2. 操作者: YUCHUN

3. 試件批號: T920304

4. 試驗日期: 2009/6/26

5. 試驗時間: PM 01:23:23

6. 使用規範: EN14766 - 登山車

7. 試驗名稱: 剎車性能

8. 使用剎車器: 前輪

9. 測試次數: 1 / 3 Cycles

10. 正比性限定: 20.0%

12. 循環次數: 6 / 8 Cycles

13. 剎車時間: 3.0 sec

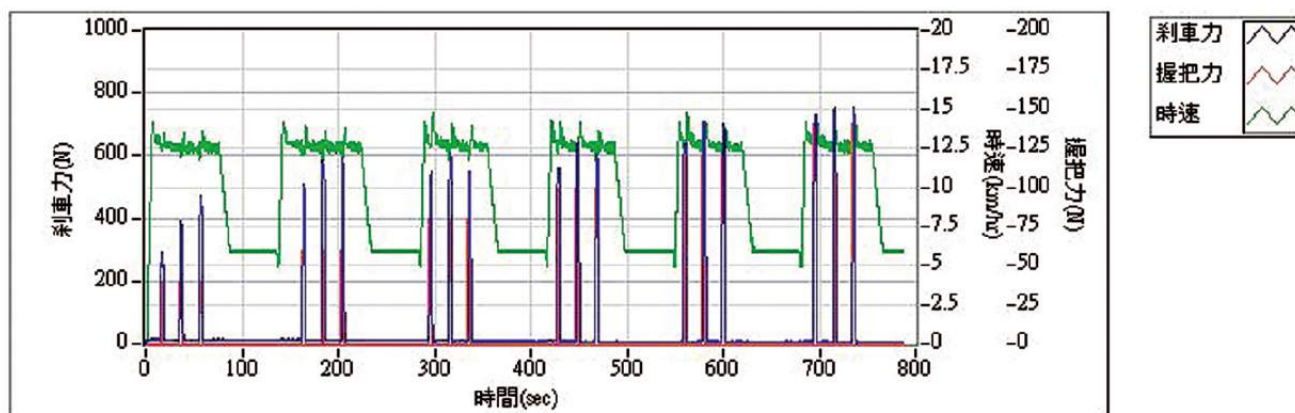
14. 休息時間: 60.0 sec

15. 釋放時間: 17.0 sec

16. 行車時速: 12.5 km / hr

17. 檔案名稱: C:\C055-E01\T980626-3.tst

乾式 ▼	Fop.Intend	Fbr.corr 1	Fbr.corr 2	Fbr.corr 3	Fbr.avg	Distance
1	40.0	278.0	381.7	444.8	368.2	6.71
2	60.0	496.1	556.2	566.9	539.7	5.02
3	80.0	540.5	603.7	550.0	564.7	4.86
4	100.0	552.1	638.8	594.8	595.2	4.68
5	120.0	625.0	702.3	690.1	672.5	4.31
6	140.0	720.7	747.7	734.7	734.4	4.06
Judge	PASS	-	-	-	734.4	4.06



測試: _____

審核: _____



客來笑語聲，迷倒多少人



橫跨20至21世紀自行車的舵手劉金標董事長



我們可以這樣停車您相信嗎？



近恭遠來、客流不息一把你、我、他、無空間的距離拉在一起



21世紀自行車停車塔長像這樣一酷，結合運動與休閒