



品質、技術、服務

電腦控制、伺服式鋼絞線鬆弛試驗機

COMPUTER CONTROL SERVO TYPE STRESS-RELAXATION TESTING MACHINE FOR STEEL WIRES



- 獲度量衡國家實驗室認證體系實驗室評鑑認可
- 力校正實驗室認可編號 No: 0002, 認可證書號碼: CNLA-ZL90275 (符合 ISO-GUIDE 25)
- 依實驗室認證體系作業程序可核發校正報告書
- 1995年工業局自動化工程服務機構登錄
- 通過ISO-9001國際品質認證
- DULY APPROVED BY CHINESE NATIONAL LABORATORY ACCREDITATION, REPUBLIC OF CHINA, REF NO. CNLA-ZL90275 (CNLA, ISO GUIDE 25)
- FORCE CALIBRATION LABORATORY REGISTRATION NO. 0002
- ISSUE AUTHORIZED CALIBRATION REPORT
- QUALITY MANAGEMENT SYSTEM ACCREDITED BY ISO-9001 WITH CERTIFICATE NO.Q10161

● 適用預力混凝土用應力消除無被覆鋼線及鋼絞線測試。

● 符合CNS3332、3073、ASTM
、A416/A416M-99、E328



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HUNG TA INSTRUMENT CO., LTD.

H T-9602

■ 用途

本儀器適用於預力混凝土用應力消除無被覆鋼線及鋼絞線測試。

Application: this machine is used to test uncoated stress-relieved steel wires and strands for prestressed concrete.

■ 概述

本儀器依據CNS3332、G3073，ASTM A416/A416M-99及E328規範設計製造，結構體採FCD 55整體成型鑄造，可依據鋼絞線規格，輸入基本資料及控制參數(1.定荷重速率、2.定荷重+持續時間、3.保持夾距/標距1000hr)進行測試，並可連線溫度計、伸長計、夾距變位計、偵測伸長變位、溫度及夾距變位記錄並可提供記錄顯示，〔荷重-時間〕、〔伸長率-時間〕、〔鬆弛率-時間〕、〔溫度-時間〕等多種圖形。

This machine is designed and manufactured as per the standards of CNS3332、G3073 & ASTM A416/A416M-99 & E328. The whole frame of this machine is of high stiffness of molded casting of FCD55, and is available to input the basic information and control parameters (such as 1. constant load rate 2.constant load + holding time 3.holding clamp distance/ gauge length for 1000 hr) to test according to the specifications of steel wires and strands, and is available to be on line to display and to record the test data of elongation, temperature and displacement of gauge length (grips) by using the sensors of thermometer, extensometer, and available to view and to record the graphs of [Load-Time], [Elongation-Time], [Relaxation rate-Time], [Temperature-Time].

■ 規格

型式 (Type)		A	B
容量 (Capacity) (精度±1%)		30Tons	50Tons
力量分段 Gain (Auto Range自動轉換)		30,15,6,3	50,25,10,5
鬆弛試驗 Relaxation test	夾持間距 (Gripping distance)	500~1000	550~1200
	夾具範圍 (替換式) Gripping range (interchangeable)	ø9.5、ø12.7、ø15.2mm or other sizes optional 可選用或訂制其他規格	ø9.5、ø12.7、ø15.2、ø21.8mm or other sizes optional 可選用或訂制其他規格
負荷速率 Test speed(mm/min)		MAX.15(可調整設定adjustable)	MAX.15(可調整設定adjustable)
時間設定	初負載 Initial-load(秒 Sec)	0~999	0~999
	持續時間 Holding time(hr)	0~1000	0~1000
溫度顯示 Display of temperature		選用 Optional 解析度 Resolution±0.1°C 數字顯示 Digital display 配備 Equipped with AMP +PC	
變位計 Extensometer	伸長變位計mm Extensometer	標距 Gauge length 200-1000 精度 accuracy±0.1% 量測範圍 measuring range 0~10mm	
	夾具變位計mm Extensometer	量測範圍 0~500mm 解析度: 1μ	
機台尺寸 W×D×H Dimensions	主機 Frame	80×80×330cm	80×80×350cm
	控制 Control	120×60×140cm	120×60×140cm
電源 Power 220V×60HZ		3.7KW	7.5KW
安裝空間 Space required(W×D×H)		230×100×390cm	230×100×410cm
電腦硬體規格 Computer hardware		如附件說明(at attached)	
電腦軟體規格 Computer software		如附件說明(at attached)	

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軟體規格說明 Computer software

- 測試功能符合CNS 3332, ASTM A416/416M 規定
Test function conforms to the standards of CNS 3332, ASTM A416/416M
- 長度單位提供 mm, cm, inch三種換算
Unit of length available to interchange among mm, cm & inch
- 力量單位提供 Kg, g, ton, Lb, N, kN, 三種換算
Unit of force available to interchange among Kg, g, ton, Lb, N & kN
- 測試中可隨機顯示多種與時間構成的曲線
Available to view on line test graphs to the ordinate of time
- 測試標準以資料庫存檔，設定後可重複選用 減少人工設定的時間與錯誤
Test standards can save into the database and can re-take for new tests without having to re-input in order to save time and manual errors
- 報表功能：完成開放使用者自行編輯報表同時可於報表上加入最多四張圖形曲線
Report function: open for user to input his own form of report that permits maximum 4 inserts of test graphs

硬體規格說明 Hardware of Data Acquisition

- 放大器電壓訊號輸入範圍2mv/v~4mv/v均可。
Input range of amplifier voltage signal: 2~4mV/V
- A/D轉換分解能力16bit。
A/D converting resolution: 16 bits
- D/A轉換分解能力16bit。
D/A converting resolution: 16 bits
- 數位輸入感應接點4點。
Digital input sensing connection point: 4 points
- 數位輸入控制接點5點。
Digital input control connection point: 5 points

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