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GT-7042-AF1 運動鞋減震試驗機 Athletic Footwear Shock Attenuating Tester

SATRA TM142、ASTM F1976-2024、GB/T 24152-2018 (4.7)、GB/T 30907-2014

適用於檢驗正規賽跑運動中使用的運動鞋中底所用的材料體系。
評估材料減震特性和快速衝擊力量-位移關係。

The GT-7042-AF1 is specifically designed to assess the shock attenuating characteristics, as well as rapid rate force-displacement relationships of materials. This instrument is well-suited for materials system utilized in midsole of athletic shoes for use in normal running.



符合規範 Conformance	ASTM F1976-2024、GB/T 24152-2018 (4.7)、GB/T 30907-2014	SATRA TM142
衝擊頭規格 Impact striker	頂部R角半徑為 $R=1.0\pm0.25\text{mm}$ ，頂部為圓形，直徑45mm，重量小於0.2kg Rounded edge of the tup with radius of $1.0\pm0.25\text{mm}$, 45 mm flat circular diameter, mass of tup less than 0.2 kg	下表面為半球形，曲率半徑為 $37.5\pm0.5\text{mm}$ ，半球底部的直徑約為45mm A dome with radius of curvature of $37.5\pm0.5\text{mm}$ on the lower surface; 45mm diameter of the base of dome
衝擊能量 Impact energy	$5\pm0.5\text{J}$; $7\pm0.5\text{J}$	5J
測試速度 Test speed	每個週期 2 ± 1 秒 $2\pm1\text{ sec per cycle}$	每個週期2~3秒 $2\text{ to }3\text{ sec per cycle}$
衝擊方式 Test method	自由落體 Free-fall dropping	
荷重元容量 Capacity	5000lbf，採樣頻率大於1000HZ 5000lbf; sampling rate > 1000HZ	
位移傳感器 Stroke sensor	0~100mm，採樣頻率大於1000Hz 0 to 100mm; sampling rate > 1000Hz	
體積 Dimensions (W×D×H)	89cm×55cm×117cm	
電源 Power	1φ AC 220V 50Hz	

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