

WT-6027 shoe compression and sole penetration testing machine



1. Introductions

The safety shoe toe cap compression and sole penetration resistance testing machine is mainly used to test the compression resistance of the toe cap of safety shoes. The instrument applies a continuous pressing force to the fixed toe cap at a speed of 5mm/min, such as 15000N and holding the force for 1 minute, then measure the height of the cylinder inserted in the shoes. The fixture can also be replaced for nail penetration testing of safety shoe midsole materials. The specimen is fixed on the fixture and punctured or zero punctured at a speed of 10mm/min to measure the maximum nail penetration force value.

2. Relative test methods

GB/T 20991/ ISO 20344 personal protective equipment——test methods for footwear

CSA Z195 protective footwear

ASTM F2413 standard specification for performance requirements for protective (safety) toe cap footwear

BS 953 methods of test for safety and protective footwear

GB21148 / ISO 20345 personal protective equipment——safety footwear

3. specifications

No.	Item	Spec.
1	Static compression speed	5mm/min
2	Penetration test speed	10mm/min
3	Max. speed	25mm/min adjustable
4	Max. force	2000kg (can choose other capacity)
5	Unit	Kg, N, lb switchable
6	Displayer	LED-SLD806 displayer
7	Test mode	Compression and penetration mode
8	Protecting cover	With security protection lock
9	Precision	±0.25%
10	Motor	0.4kw
11	Dimension	710x300x760mm
12	Voltage	1 φ AC 220V 3A
13	Weight	108kg