

HST 5kN/10kN/20kN/50kN Foam polymeric Material Testing Machine



The picture is for reference only

Usage:

It is used to test and study the mechanical properties of flexible foam polymer materials and rigid foam plastics such as indentation hardness, compressive strength, tensile force, tensile strength and other mechanical properties.

1. Test materials:

Flexible foam polymer materials (latex foam, polyurethane (PU) foam, polyurethane flexible foam, polyvinyl chloride (PVC) open-cell foam, high resilience foam (HRF), bulk foam, slow resilience foam, Experimental testing and research on mechanical properties such as crust foam (ISF), semi-rigid energy absorbing foam, ordinary soft foam, super soft foam, high load-bearing soft foam, and high resilience foam.

Rigid foam (polystyrene foam, rigid polyurethane foam, phenolic foam, amino foam, epoxy foam, thermosetting acrylic resin, rigid polyvinyl chloride foam) and other mechanical properties the study.

Furniture cushion material, vehicle seat cushion material, soft liner laminated composite material, interlayer material, filter material, sound insulation material, shockproof material, construction material, decoration material, packaging material, heat insulation material, automobile steering wheel, head Experimental testing and research on foam polymerization mechanical properties of pillows, armrests, motorcycle seats, bicycle

seats, easy chair armrests and headrests, door handles, spoilers, bumpers, etc.

2. Features:

Indentation hardness index; indentation hardness characteristics (indentation force value ratio, indentation 25%, 65%, 40%); indentation Hardness Test.

Support plate (smooth and smooth ϕ 6x20mm porous); preload 5N; indentation (70 ± 2.5)%; unloading-loading; deformation retention.

Tensile strength, tear strength, elongation at break, relative deformation / compression deformation 10%, compression elastic modulus. Rigid foam (no flexibility, high compression hardness, deformation can be generated when the stress reaches a certain value, and it cannot be restored after stress relief; ISO stipulates that the foam is reduced to more than 10% after compression to 50% and then relieved of pressure. Styrofoam).

3. Technical Parameters

Model	WDW-10	WDW-10E	WDW-20	WDW-20E	WDW-30	WDW-30E	WDW-50	WDW-50E
Max. Load(kN)	10	10	20	20	30	30	50	50
Load accuracy	Class 1	Class 0.5	Class 1	Class 0.5	Class 1	Class 0.5	Class 1	Class 0.5
Load range	2%~ 100%F·S	0.2%~ 100%F·S	2%~ 100%F·S	0.2%~ 100%F·S	2%~ 100%F·S	0.2%~ 100%F·S	2%~ 100%F·S	0.2%~ 100%F·S
Load resolution	1/300000				1/300000			
Resolution of deformation	0.04um				0.04um			
Accuracy of displacement	Within $\pm 0.5\%$ of indicating load				Within $\pm 0.5\%$ of indicating load			
Resolution of displacement	0.01mm				0.01mm			
Test speed(mm/min)	0.05-1000 stepless arbitrary setting				0.05-500 stepless arbitrary setting			
Speed accuracy	within $\pm 1\%$ / $\pm 0.5\%$ of set speed				within $\pm 1\%$ / $\pm 0.5\%$ of set speed			
E-Tensile space(mm)	800 (can be customized)				700 (can be customized)			
E-Compression space(mm)	800 (can be customized)				700 (can be customized)			
D-Test width(mm)	400 (can be customized)				500 (can be customized)			

F-Beam travel distance(mm)	1140	1050
H-Workbench thickness(mm)	30	58
I-Base height(mm)	210	435
Power supply	AC220V±10%, 50Hz/60Hz (can be customized)	AC220V±10%, 50Hz/60Hz (can be customized)
Video show	https://youtu.be/KyIRjSt60mQ	https://youtu.be/KyIRjSt60mQ





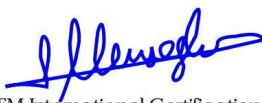
MACHINERY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive Annex VIII has been taken as references for these processes.

Company Name : **JINAN HENSGRAND INSTRUMENT CO., LTD.**
Company Address : NO.4915, WEST JINGSHI ROAD, JINAN, CHINA
Related Directives and Annex : **2006/42/EC Machinery Directive/Annex VIII**
Related Standards : **EN ISO 12100:2010, EN 60204-1:2018**
Product Name : **TESTING MACHINE**
Report No and Date : TCF-JHIC230128-MD
Product Brand/Model/Type : WDS-1, WDS-2, WDS-3, WDS-5, WDS-10, WDS-20, WDS-30, WDS-50, WDS-100, WDS-200, WDS-300, WDS-500, WDW-1, WDW-2, WDW-3, WDW-5, WDW-10, WDW-20, WDW-30, WDW-50, WDW-100, WDW-200, WDW-300, WDW-500, WDW-600, WDW-1000, WE-300, WE-600, WE-1000, WE-2000, WEW-300, WEW-600, WEW-1000, WEW-2000, WAW-300, WAW-600, WAW-1000, WAW-2000, WAW-3000, WAW-5000, WAW-6000, LAW-1000, JB-300B, JBS-300, JBW-300, JB-500B, JBS-500, JBW-500, JBW-750, CST-50, VU-2Y, VU-1S, DWC-40, DWC-60, DWC-80, DWC-100, DWC-196, YES-2000, YES-300, YAW-1000, YAW-300, YAW-2000, YAW-3000, YAW-5000, NDS-200, NDS-500, NDS-1000, NDS-2000, NDW-200, NDW-500, NDW-1000, NDW-2000, NDW-3000, NDW-5000, NDW-10000, HEZ-3, HEZ-6, HEZ-10, JWJ-10, TLS, TLW, HST-P50, HST-P100, HST-P200, HST-P300, RDJ, NDT, DWTT, GBW-60, GW-50, HST, XNR-400

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