



NG-SHM Class C – Servo Hydraulic Testing Machine

Standards: [ISO 7500-1](#), [ASTM E4](#)



ULTIMATE USER-FRIENDLINESS



LEADING DEPENDABILITY AND RELIABILITY



STRICT COMPLIANCE WITH INDUSTRY STANDARDS



STOCKED CONSUMABLES AND SPARES



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Description

The [NG-SHM Class C](#) series is designed to provide a solution for your high-force mechanical testing of a diverse range of materials covering many different industries. Class C has been designed specifically with a longer jaw face for tensile testing of steel wire.

Force Capacity: 600kN (134885.36 lbf), 1000kN (224808.94 lbf)

Load Frame Configuration: 6 column, servo-controlled hydraulic

Test Space: Dual zone (tension on top, compression on bottom)

Typical Specimens: Fasteners, rebar, chain, welds, castings, stranded steel wire

Load Frame

- Specifically designed with a longer jaw face for tensile testing of stranded steel wire
- Lead screw driven crosshead to adjust the test space
- Durable 6-column load frame design incorporates 3-position crosshead, adjustable specimen positioning, precision guide columns, thick crosshead and a base beam

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minimizes the load frames stored energy while producing reliable, stable, accurate loads, strain and modulus values.

- Ergonomically designed load frames ensure safety, reduce operator fatigue, and provide the highest level of flexibility.
- Standard Dual Zone Test Space for reducing setup time
- "Quick Return" hydraulic valve for higher throughput
- Automatic limit checking for crosshead position, overload, over temperature, over voltage, etc.
- The system can return automatically, the oil cylinder can return to the original position manually or automatically after finishing testing
- Positive specimen holding is ensured by the wedge action hydraulic operated grips
- Encoder mounted on the seat is for position measurement of the crosshead to provide higher accuracy
- Servo valve provides high stability and reliability

Load Cell

- Uses strain gauge load cell technology to measure the force being applied to your specimen. The load cell is located in the lower grip and is used to directly measure tensile force.
- Precise load cell measures and captures sensitively tension and compression force, high accuracy load measurement resolution reaches 1/350000.
- Quality load cell ensures high precision and repeatability.



NG-SHM Class C - Servo Hydraulic Testing Machine Technical Specifications

Servo-Hydraulic Universal Testing Machine		
Model	SHM605	SHM106
Class	Class C	
Capacity	600kN (134885.36 lbf)	1000kN (224808.94 lbf)
Calibration accuracy	Class 1 / Class 0.5	
Force range	1% - 100%FS	
Force accuracy	Better than $\pm 1\% / \pm 0.5\%$	
Extension Range	1% - 100%FS	
Extension Accuracy	Better than $\pm 1\% / \pm 0.5\%$	
Extension Resolution	1/350000 of max extension	
Actuator (piston) speed (mm/min)	0 - 140	0 - 100
Force Loading Speed	0.02% - 2% FS /s	
Column Number	6	6
Column Spacing (test space width) (cm)	41	43
Maximum Tension Space(cm)	110	110



Servo-Hydraulic Universal Testing Machine		
Maximum Compression Space (cm)	95	95
Diameter of Round Specimens (mm)	Ø9 - Ø18	Ø9 - Ø18
Diameter of Threaded Steel (mm)	Ø10 - Ø30	Ø10 - Ø45
Thickness of Flat Specimens (mm)	2 - 20	2 - 40
Compression Platens (cm)	∅15	20 x 20
Actuator (piston) Stroke (cm)	25	25
Frame Dimensions (l x w x h) (cm)	94 x 65 x 294	102 x 67 x 305
Hydraulic Power Unit Dimensions (l x w x h) (cm)	45.5" x 24" x 35.5" / 115 x 60 x 90 cm	
Power Consumption (kW)	6	6
Frame Weight	6613.868 lbs / 3000 kg	11023.11 lbs / 5000 kg

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