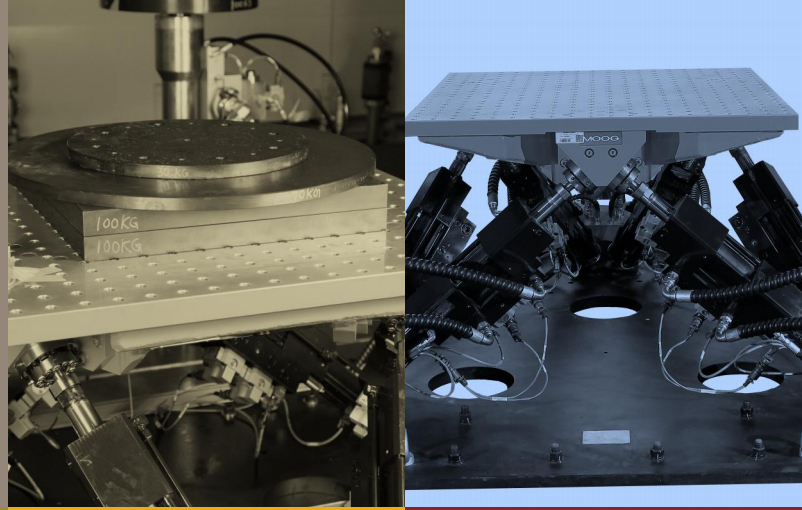


LIGHT PAYLOAD HYDRAULIC SIMULATION TABLE

A cost-effective versatile and stiff test system designed for payloads up to 300 kg



Moog Hydraulic Simulation Table (HST) is a dynamic system, designed to perform research and development tests. The hexapod configuration used by Moog HST is the optimum design to achieve simulation and test capability using acceleration, force, and displacement inputs, and to reproduce data collected on proving grounds regardless of your test type, method, or specimen.

The Light Payload Hydraulic Simulation Table can accommodate loads up to 300 kg and frequencies up to 60 Hz. It has a compact design of the structure which occupies a smaller footprint of facility.

The Light Payload HST is a cost-effective versatile and stiff test system. It is especially suitable for small and tiny article testing applications.

ADVANTAGES

- 6 Degree of freedom motion
- Low friction double-ended hydraulic actuators
- Six identical actuators working synchronization
- Compact design with small footprint

APPLICATIONS

- Expansion joints and bellows durability test
- Exhaust Flexible Coupling Fatigue Testing
- Small automobile parts for passenger car and commercial vehicle
- Fuel tank slosh testing



TECHNICAL DATA

System Payload	300 kg				
Table Mass	220 kg				
Total Payload (combined)	520 kg				
Table Size (L×W)	1,000 × 1,000 mm				
Table Mounting Pattern	50 × 50 mm				
Table Mounting Hole Size	M12				
Actuator Peak Force	25 kN				
Frequency	60 Hz				
	Excursion ¹⁾	Velocity ²⁾	Acceleration		
			(bare table)	(200 kg payload)	(300 kg payload)
(X) Surge	-61/+57 mm	±1.3 m/s	±19 g	±13 g	±10 g
(Y) Sway	±52 mm	±1.1 m/s	±15 g	±11 g	±9 g
(Z) Heave	-64/+60 mm	±1.3 m/s	±22 g	±16 g	±11 g
Roll	±8 °	±200 °/s	-	-	-
Pitch	±8 °	±180 °/s	-	-	-
Yaw	±7 °	±160 °/s	-	-	-

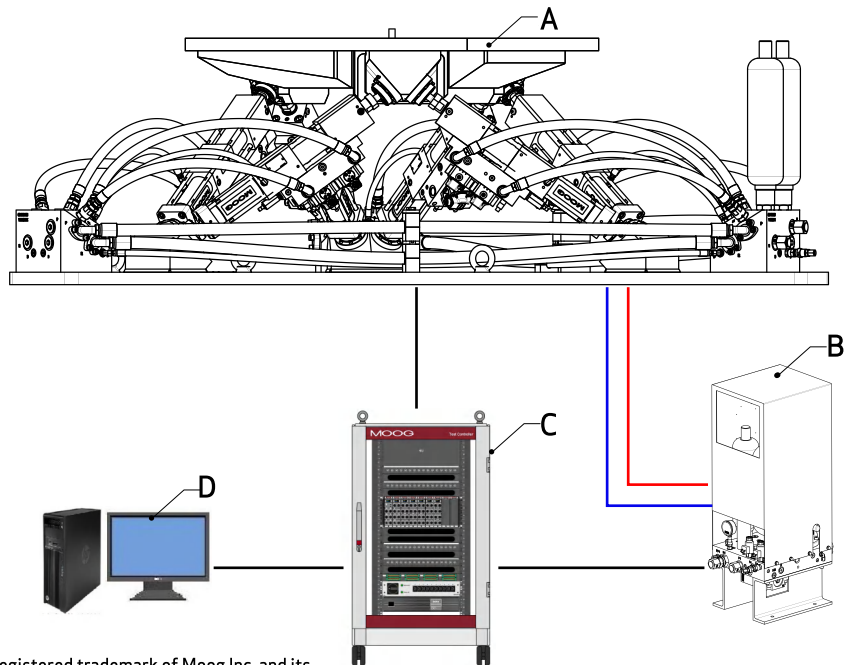
This technical data is based on current available information and is subject to change at any time by Moog. All numbers in the table are abbreviated to improve readability. Specifications for specific systems or applications may vary.

¹⁾ Actuator dynamic stroke 80 mm (20 mm buffer in both ends)

²⁾ Actuator with 2 × G761, system payload 300 kg

LIGHT PAYLOAD HST TEST SYSTEM

Moog Light Payload Hydraulic Simulation Table is the main component of the Light Payload HST Test System. The entire system consists of (A) a Light Payload HST, (B) a Hydraulic Service Manifold (HSM), (C) a Test Controller, and (D) an Application Computer.



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Light Payload Hydraulic Simulation Table
MSH/Rev.-, May 2023, CDL67280-en

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