

SY-50 Transport Simulation Tester

The SY-50 transport simulation tester is a laboratory machine used to simulate the anti-shock and anti-vibration performance of various goods with specific load transported by vehicles on highways. It provides a basis for the assessment or confirmation of goods and their packages according to the impact of actual conditions on the loading, unloading, transport, packing, sealing, or internal goods in lab tests.



Functions and Features

1. Frequency band approach method is utilized to simulate broadband random vibration. Each frequency band contains a primary natural frequency. Its power spectrum can be achieved by the transit simulation testing equipment.
2. Acceleration factor is adjustable.
3. AC variable frequency control is available.
4. Customers are only requested to place the transport simulation tester on flat marble or concrete ground. No special foundation is needed during installation.

Main Specifications

Model	SY50-200	SY50-300	SY50-600	SY50-1000	SY50-1500	SY50-2000	SY50-3000	SY50-4000	SY50-6000
Max. Load (kg)	200	300	600	1000	1500	2000	3000	4000	6000
Vibration Waveform	Broad-brand Random Vibration								
Simulation of the Truck Speed	20 ~ 40km/h								
Simulation of the Road	Intermediate pavement of class-3 highway Intermediate or low-type pavement of class-4 highway								
Time Acceleration Level	1:1 (To be customized)								
Height of Specimen COG (mm)	<500	<600	<700	<700	<700	<700	<700	<800	
Working Table (mm)	1500x700	1500 x700	2000x1500	2400 x1700	2700 x1800	2700 x1800	4000 x 2500		
Power Consumption (kVA)	2.2	3.7	7.5	11	18.5	30	37		
Dimension (LxWxH: mm)	1920x850x960	1920x850x960	2550x1910x1360	2510x1920x1400	3000x2200x1600	3000x2200x1600		4500x2500x2200	

Weight (kg)	1600	1800	5500	6000	7000	7550	10000
Power Supply	Three-phase 380V, 50/60Hz						
Working Environment	Temperature range 0~40°C Humidity range $\leq 80\%$ (non condensing)						
Remark	1. The size of working table can be customized upon request. 2. In time acceleration level, the 1:4 type is referred to SY50A, and the 1:6.3 type represents SY50B.						