

HYDRAULIC SHAKER IN QUIET ROOM FOR SQUEAK & RATTLE TESTING

Hydraulic Shaker conceived to obtain the maximum versatility of use. It allows to perform classical vibration testing and to mount structures to support the fixed borders of the tested items.

A further setup by the means of load cells, allows to measure the dynamic features of various materials; we can in fact track the K dynamic curve of a damper and to measure the entire matrix of a joint as well.

This low noise shaker is located in a quiet room to fulfill Squeak & Rattle detection testings.

The large dimensions of the room are suitable for testing either components or the entire vehicle.

The shaker can be controlled in acceleration, velocity, displacement and can perform 24/24h tests for long duration; these features make the shaker perfect to perform fatigue testings too.



Fig. 1: Hydraulic shaker during a S&R test



Fig. 2: Quiet room

HYDRAULIC SHAKER	
General description	Hydraulic shaker
Force (peak)	10 kN
Useful frequency range	0,1 - 300 Hz
Max displacement	50 mm (pk-pk)

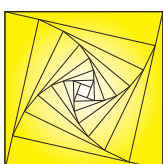
VIBRATION CONTROLLER	
Channels	up to 16
Software	Sine, Random, Shock and more*

* Shock SRS, Resonant search and tracked dwell, Random-on-Random, Sine-on-Random and other on request.

QUIET ROOM	
Internal Dimension (WxDxH)	6x4,2x3,15(h) mt
Noise reduction	40 dB
Background noise	35 dB



Fig. 3: Hydraulic shaker measuring the dynamic matrix of a flexible hose



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