

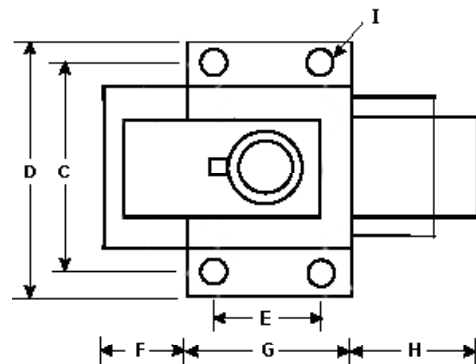
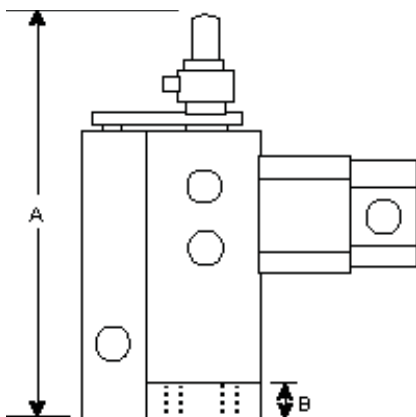
Xcite 1100 Laboratory Series

The Xcite 1100 Laboratory Series is the most popular of the Xcite product line because of its large force capacity and broad frequency range compared to its extremely compact size. The 5 GPM 3-Phase hydraulic power supply used in the system provides a high level of low frequency displacement response for testing system subassemblies and non-linear structures such as suspensions and elastomeric dampers. The small piston area of the exciter and the high performance servovalve combine to provide excitation to over 1000 Hz allowing structure borne noise path evaluations.

The systems are used for applications ranging from machine tools to jet engine bearing studies. The small package allows fixturing in small spaces such as under vehicles and inside gearboxes and drive trains of earthmovers, trains and trucks. The compact package is especially well suited for engine mount structural tests in automobiles and jet engine mounting pod evaluations.



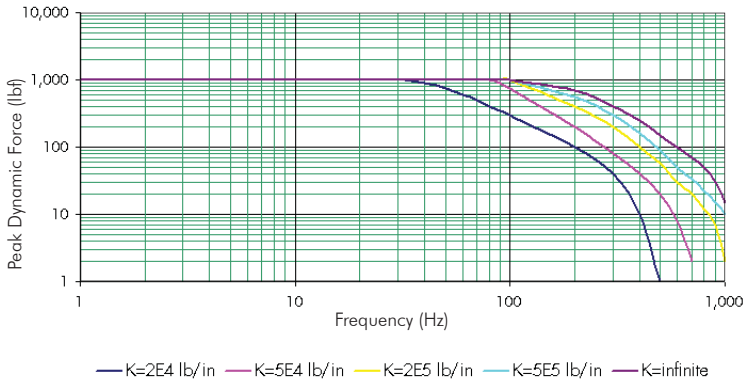
	Xcite 1100-4 System	Xcite 1100-6 System	Xcite 1100-7 System
Hydraulic Power Supply	1201B 5 GPM (20 l/m)	1201B 5 GPM (20 l/m)	1201B 5 GPM (20 l/m)
Master Controller	1104-Mod4	1104-Mod4	1104-Mod4
Exciter Head	1106-4-T/C	1107-4-T/C	1114-4-T/C
Static Force	1,000 lb (4,450 N)	1,000 lb (4,450 N)	Total Static & Dynamic Force = 1,000 lb (4,450 N)
Dynamic Force	1,000 lb (4,450 N)	1,000 lb (4,450 N)	1,000 lb (4,450 N)
Stroke	1.0 in (25 mm)	2.0 in (50 mm)	1.0 in (25 mm)
Rod	.75 in (18 mm)	.75 in (18 mm)	.75 in (18 mm)
Bore	1.0 in (25 mm)	1.0 in (25 mm)	1.0 in (25 mm)
Thread	.38 - 24	.38-24	.38-24
Load Cell	2,500 lb (11,125 N)	2,500 lb (11,125 N)	2,500 lb (11,125 N)
LVDT	1.0 in (25 mm)	2.0 in (50 mm)	1.0 in (25 mm)
Exciter Design	Single Ended	Single Ended	Double Ended



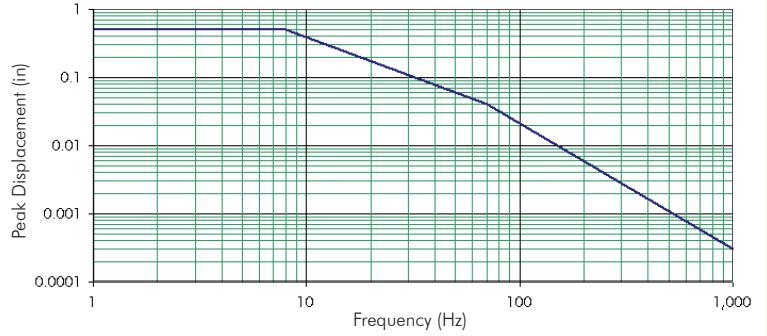
Exciter Head	A		B		C		D		E		F		G		H		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in(dia)	mm(dia)	in(dia)	mm(dia)
1106-4-T/C	6.12	153	0.60	15	3.12	78	3.75	94	1.38	35	1.12	28	2.00	50	2.75	69	0.28	7
1107-4-T/C	7.12	178	0.60	15	3.12	78	3.75	94	1.38	35	1.12	28	2.00	50	2.75	69	0.28	7
1114-4-T/C	8.78	220	0.60	15	3.12	78	3.75	94	1.38	35	1.12	28	2.00	50	2.75	69	0.28	7

Xcite 1100-4 Laboratory System 1106-4-T/C Exciter Head

Peak Dynamic Force vs. Frequency

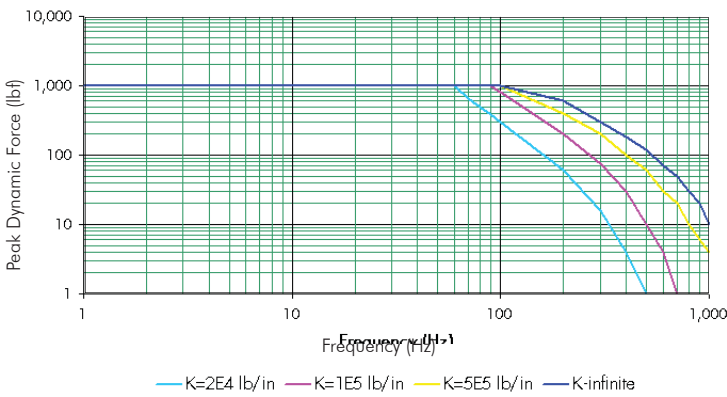


Peak Displacement vs. Frequency

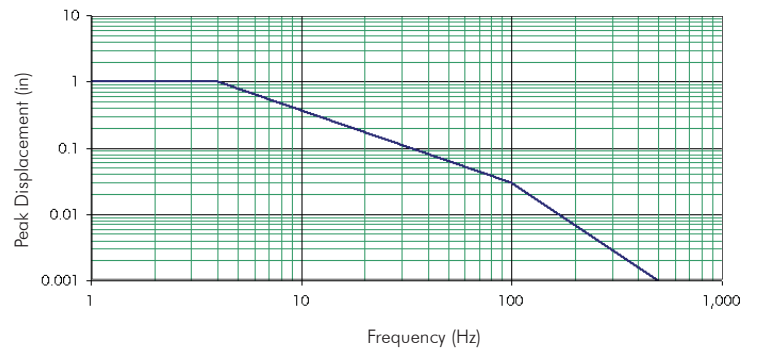


Xcite 1100-6 Laboratory System 1107-4-T/C Exciter Head

Peak Dynamic Force vs. Frequency

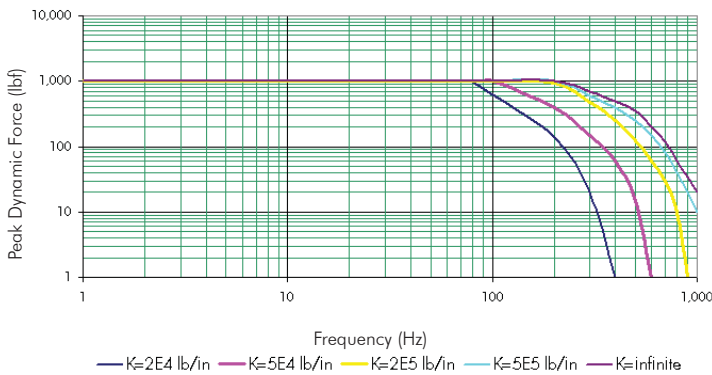


Peak Displacement vs. Frequency

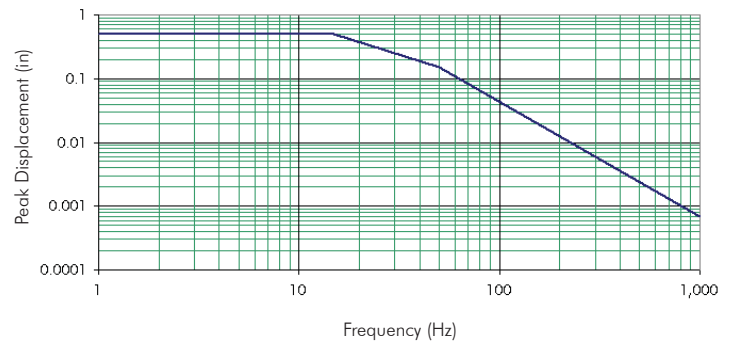


Xcite 1100-7 Laboratory System 1114-4-T/C Exciter Head

Peak Dynamic Force vs. Frequency



Peak Displacement vs. Frequency



Note: The above force curve is for the Xcite 1114 Head used in Tension/Compression mode with ZERO STATIC FORCE and the load cell rigidly connected to the structure for "PUSH/PULL" operation. In Compression mode only with 500 lbs of Static Force the curves are derated to a maximum of 400-500 lbs Peak Dynamic. (Depending on the structure stiffness of the test article).