

Xcite 1200 Laboratory Series

The Xcite 1200 Series provides medium levels of force for testing vehicles such as trucks, locomotives, off road construction equipment and power generation equipment such as turbines and generator rotors, stators and bearings. The larger force capability is still coupled with a frequency response in the 500 Hz to 1000 Hz range for modal studies of highly damped and non-linear structures.

The 1200 Series systems are used extensively in the automotive industries for component and system sub-assembly modal testing for correlation of damping and non-linear characteristics with simulation models.



Hydraulic Power Supply
Master Controller
Exciter Head
Static Force
Dynamic Force
Stroke
Rod
Bore
Thread
Load Cell
LVDT
Exciter Design

Xcite 1200-1 System

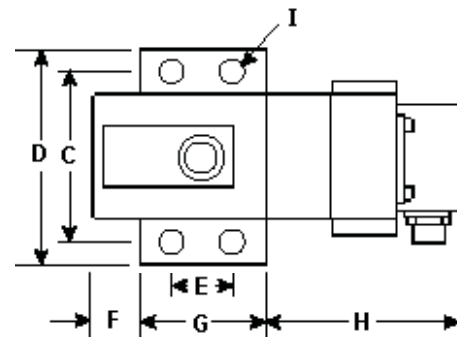
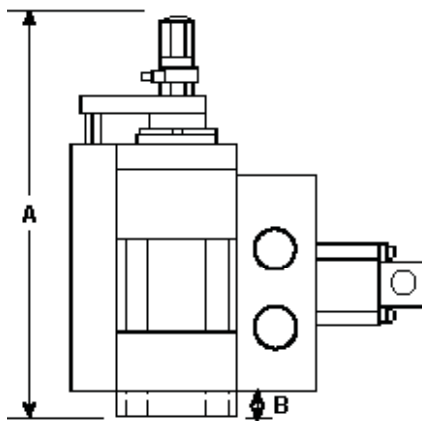
1201B 5 GPM (20 l/m)
1204-Mod4
1206-8-T/C
2,000 lb (8,900 N)
2,000 lb (8,900 N)
1.0 in (25 mm)
1.0 in (25 mm)
1.5 in (37 mm)
.50 - 20
5,000 lb (22,250 N)
1.0 in (25 mm)
Single Ended

Xcite 1200-3 System

1201B 5GPM (20 l/m)
1204-Mod4
1215-8-T/C
Total Static & Dynamic
Force = 2,000 lb (8,900 N)
2.0 in (50 mm)
1.0 in (25 mm)
1.5 in (37 mm)
.50 - 20
5,000 lb (22,250 N)
2.0 in (50 mm)
Double Ended

Xcite 1200-6 System

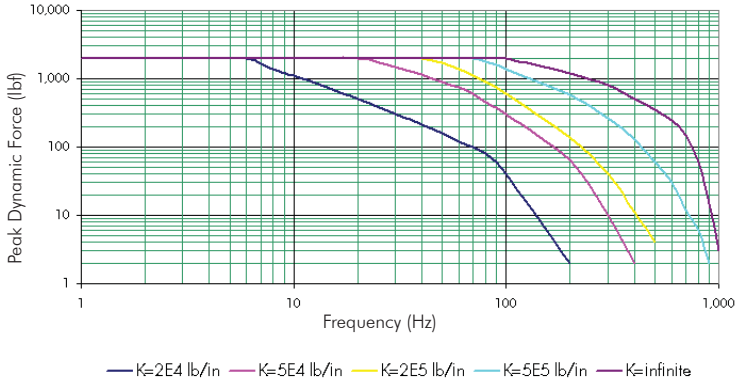
1201B 5 GPM (20 l/m)
1204-Mod4
1207-8-T/C
2,000 lb (8,900 N)
2,000 lb (8,900 N)
2.0 in (50 mm)
1.0 in (25 mm)
1.5 in (37 mm)
.50 - 20
5,000 lb (22,250 N)
2.0 in (50 mm)
Single Ended



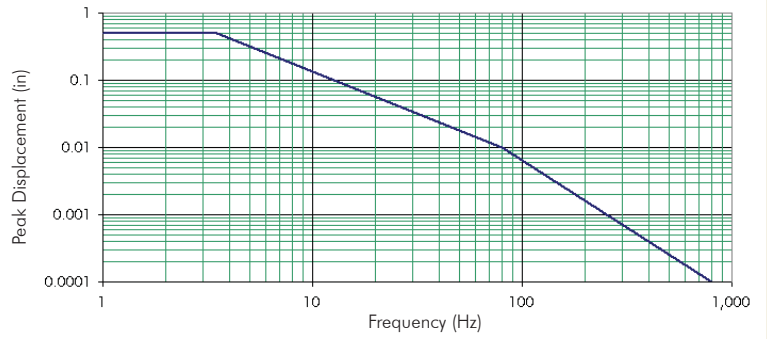
Exciter Head	A		B		C		D		E		F		G		H		I	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in(dia)	mm(dia)	in(dia)	mm(dia)
1206-8-T/C	9.75	244	0.60	15	3.50	88	4.18	105	1.62	41	1.12	28	2.50	63	4.25	106	0.48	12
1215-8-T/C	12.50	313	0.60	15	3.50	88	4.18	105	1.62	41	1.12	28	2.50	63	4.25	106	0.48	12
1207-8-T/C	10.75	269	0.60	15	3.50	88	4.18	105	1.62	41	1.12	28	2.50	63	4.25	106	0.48	12

Xcite 1200-1 Laboratory System 1206-8-T/C Exciter Head

Peak Dynamic Force vs. Frequency

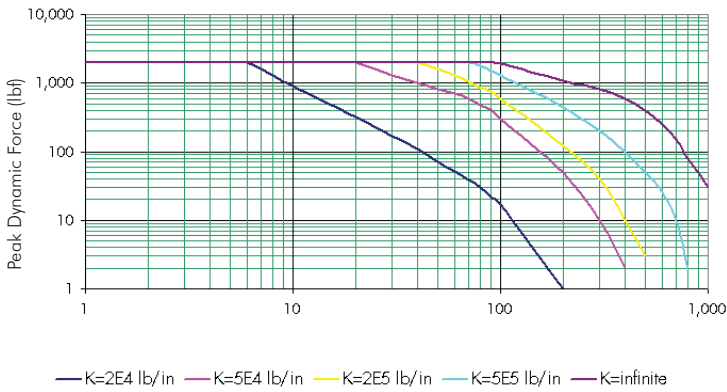


Peak Displacement vs. Frequency

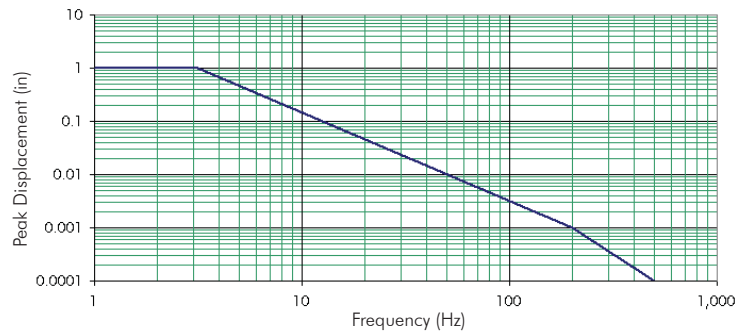


Xcite 1200-3 Laboratory System 1215-8-T/C Exciter Head

Peak Dynamic Force vs. Frequency



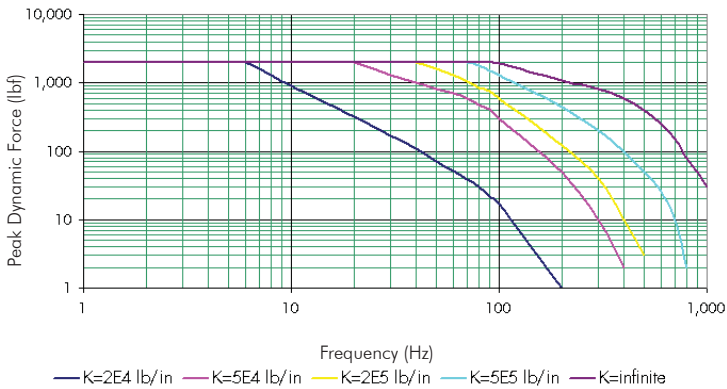
Peak Displacement vs. Frequency



Note: The above force curve is for the Xcite 1215 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 1000 lbs of Static Force the curves are derated to a maximum of 900-1000 lbs Peak Dynamic. (Depending on the structure stiffness of the test article).

Xcite 1200-6 Laboratory System 1207-8-T/C Exciter Head

Peak Dynamic Force vs. Frequency



Peak Displacement vs. Frequency

