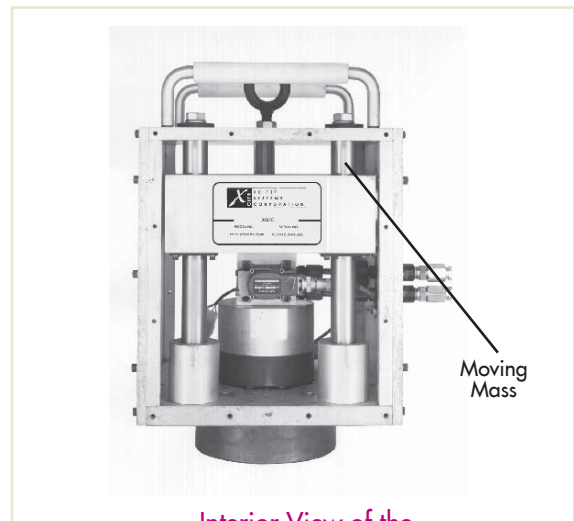


**Xcite 1100-5 Inertial Mass System** The 1100-5 Inertial Mass Modal Excitation system allows the testing of structures where backup fixturing is not available or possible. Accelerating an internal mass with the closed loop hydraulic excitation system generates the inertial forces. The compression control of the Xcite Master Controller maintains a constant force over a frequency sweep by continuously altering the drive signal to maintain the required dynamic force level.

The 1100-5 Exciter System is used in testing electrical transmission towers, turbine rotors, stators and bearing housings, generator armatures, stators and windings, diesel engines and motor-generator sets. The fixturing versatility of the system allows for testing ship bulkheads, prop shafts and propellers as well as structure borne noise isolation systems in submarines.



**ES-301-2 Inertial Mass Exciter**

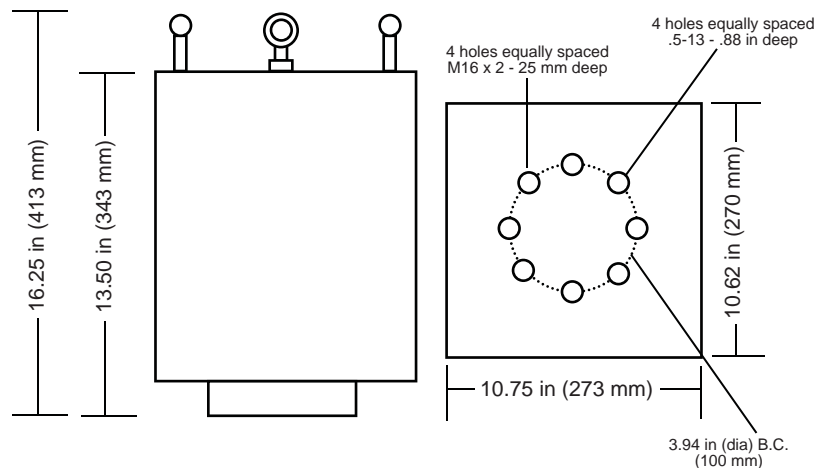


**Interior View of the ES-301-2 Inertial Mass Exciter**

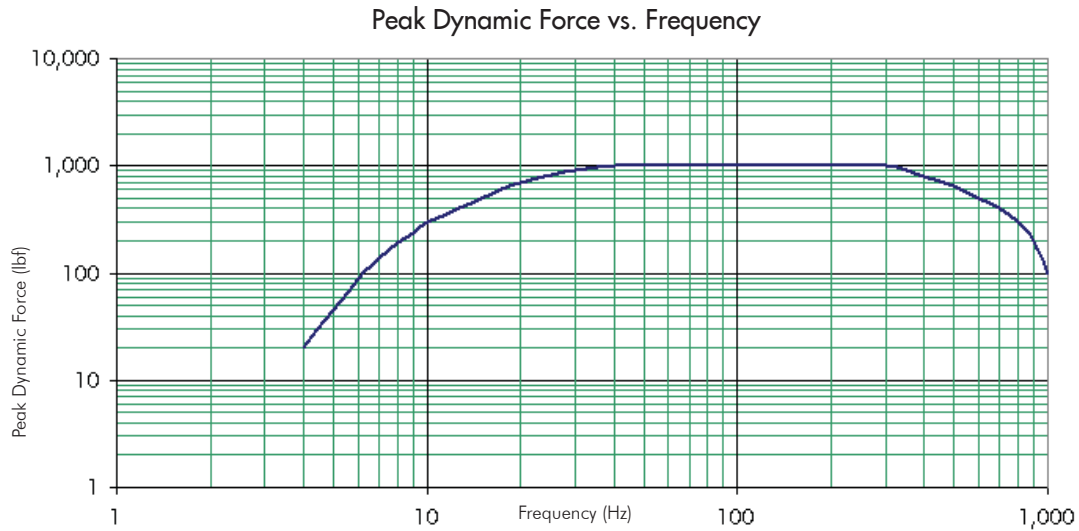
Dynamic Force  
Stroke  
Rod  
Bore  
Moving Mass  
Load Cell  
LVDT  
Exciter Design  
Weight

**ES-301-2 Inertial Mass Exciter Head**

1,000 lb (4,450 N)  
1.0 in (25 mm)  
.75 in (18 mm)  
1.0 in (25 mm)  
55 lb (25 kg)  
2,500 lb (11,125 N)  
1.0 in (25 mm)  
Double Ended  
135 lb (61 kg)

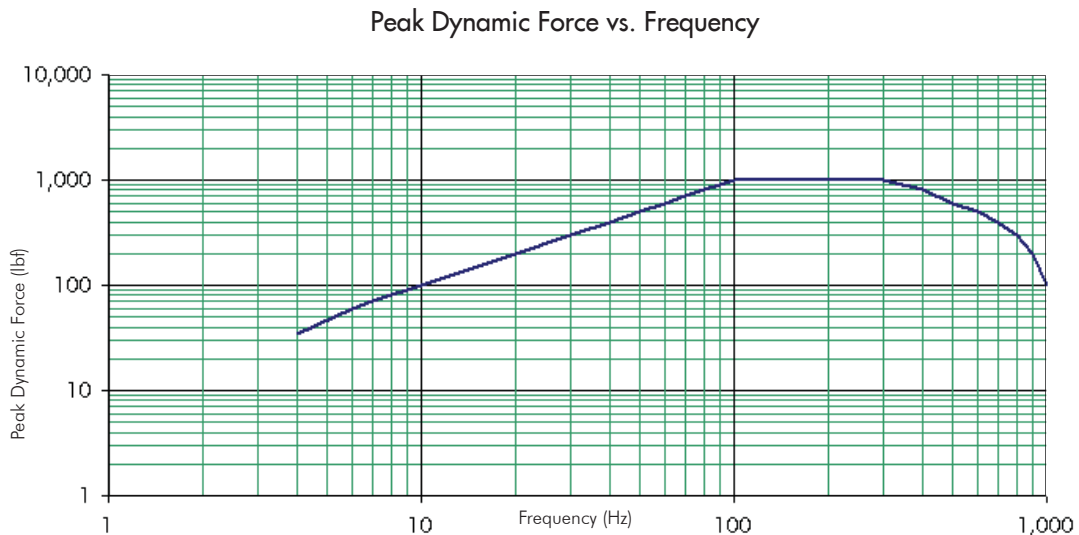


## Xcite 1100-5 Laboratory System



Hydraulic Power Supply	1201B 5GPM (20 l/m)
Master Controller	1104-Mod2
Exciter Head	ES-301-2

## Xcite 1100-5 Field Test System



Hydraulic Power Supply	1101P 1.2GPM (5 l/m)
Master Controller	1104-Mod2
Exciter Head	ES-301-2