

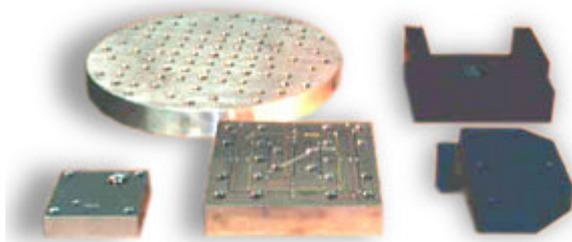
Derritron Options & Accessories

Technologically advanced, industry-leading accessories

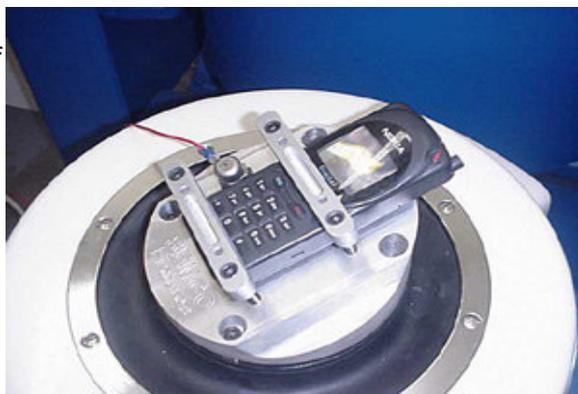
Implementing a vibration facility often requires the purchase of ancillary equipment such as fixtures, slip table and instrumentation. Derritron can supply all your additional equipment needs:

Fixtures

Mounting test items for vibration and shock input requires a viable fixture to secure the item to the shaker. Derritron can supply the latest in fixture technology providing our customers a quality fixture. Although fixtures can be made from aluminum or steel, magnesium alloy fixtures are the industry standard for most applications.



Standard fixtures such as Head Plates, "T" and "L" type fixtures can be supplied to fit all types of shakers. Large and small Custom fixtures can be supplied for mounting test items with unique mounting configurations. Cube type fixtures are also available. These fixtures add versatility to the testing process permitting simultaneous testing of multiple specimens in various axes of input.



Head Expanders



To maximize the capability of the shaker, we offer a wide variety of head expanders. Head expanders are excellent devices for expanding the shaker armature size for mounting large test items that exceed the shaker attachment pattern. Head expanders are also used for mounting multiple test items simultaneously.

Derritron offers head expanders for all types of shakers and for a variety of applications. These expanders are typically made of magnesium alloy offering a light weight solution for testing oversized/multiple items. Head expanders are available in many configurations and can be round, square, rectangular or other shapes. For large/heavy items a special Guided type fixture is available that provides addition load support and restraint to handle a wide variety of test profiles.



Slip Tables

Many test requirements can be achieved with the addition of an oil film Slip Table to perform three axes of testing. A magnesium slip plate is generally used on top of a granite block in the slip table. The shaker is rotated 90 degrees and the slip plate is connected to the shaker head. An oil film is provided (via a pump) between the plate and granite block to reduce friction during operation. Typical slip plate sizes range from 12" sq. to 48" sq.



Derritron provides both custom and standard slip tables either integrated into a base with the shaker or as a standalone table. Integrated tables provide a strong structural design insuring repeated alignment of shaker with slip plate. Standalone tables offer an economical solution for three axis testing.

Instrumentation

Proper measurement of vibration and shock signals require special instrumentation and sensors. Derritron can provide the latest in signal conditioning equipment and sensors for accurate readout and analysis of dynamic signals.



Derritron can supply signal conditioning from basic single or multi-channel power supplies for voltage mode accelerometers to sophisticated single or multi-channel accelerometer amplifiers that accept both charge mode and voltage mode accelerometers. Various features can be provided such as variable gain, multiple outputs, meters and filtering.



We can also supply sensors to meet the most demanding dynamic measurement requirements. Our general purpose charge and voltage mode accelerometers provide wide operating ranges for the majority of vibration and shock tests. For product response measurements we offer miniature accelerometers that attach directly to the test item. Other items available include rugged cabling, mounting pads and adhesives.