

SignalForce[®] Shakers and Accessories



Shakers

Amplifiers

Accessories



SignalForce[®]

Shaker and Accessories



SignalForce Shaker Systems



Data Physics is a worldwide leader in supplying complete vibration test systems including electrodynamic shakers, power amplifiers, slip tables, head expanders, vibration controllers, and dynamic signal analyzers. All SignalForce electrodynamic shakers and accessories are made with the highest quality and performance in mind.

Data Physics approaches shaker design with the same drive for innovation that has characterized its signal analysis business since its founding. All shaker designs originate from proven designs and have been optimized to further improve reliability and performance. The SignalForce R&D staff, spread across two continents, employs computer aided engineering techniques to design and model dynamics, magnetic circuits, and thermal effects of shakers and acoustic power generators.

Shaker systems ranging from small 2 lbf shakers used in vibrating medical devices to large 50,000 lbf shakers used for satellite tests are available with accessories and fixtures appropriately optimized for the application. Vibration test solutions for applications ranging from environmental and MIL Spec testing to packaging design verification to automotive durability testing are easily met with the full range of SignalForce shakers and accessories.

Parts & Service

Data Physics has one of the largest shaker service operations in the world with service centers on both coasts of the USA, the UK, and China. Our uniquely qualified and experienced team of service engineers can service Data Physics, Ling, and all other brands and models of vibration test equipment installed in test labs around the world. Equipment installation, relocation, repair, calibration, and maintenance services are available.

Spare parts are available for all SignalForce and Ling equipment including shakers made long ago by Ling Electronics. Spare parts for many other shaker brands are also available directly from Data Physics. All spare parts are produced to the highest quality standards. In many cases, Data Physics can supply obsolete parts no longer manufactured by the original equipment manufacturer.

Complete Vibration Test Systems

Data Physics Vibration Test Systems provide complete dynamic testing solutions using the combination of SignalStar vibration controllers and SignalForce shakers, power amplifiers, slip tables, head expanders & fixtures. Users can now rely on a single supplier for their complete test system.

Shakers

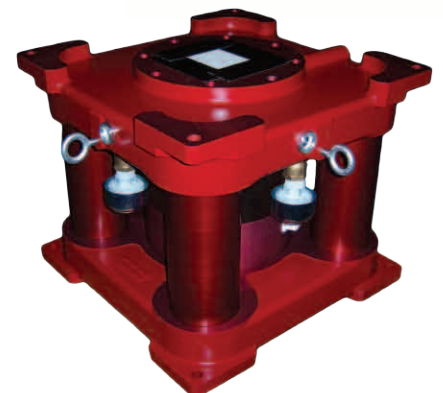
SignalForce Shakers and Acoustic Power Generators

SignalForce electrodynamic shakers and acoustic power generators are renowned for superior design and high reliability. Proven designs that have fielded thousands of shakers have been redesigned for better performance and dependability. SignalForce shakers are manufactured without cutting corners and without sacrificing reliability.

A full line of shaker sizes is available to meet the demands of any application. All shakers 3,000 lbf and higher are available with 3 inch pk-pk displacement to accommodate demanding military and automotive test profiles.

- Air Cooled Shakers – 2 lbf (9 N) to 15,000 lbf (66 kN)
- Water cooled Shakers – 18,000 lbf (80 kN) to 50,000 lbf (222 kN)
- Inertial Shakers – 6.7 lbf (30 N) to 56.2 lbf (250 N)
- Modal Shakers – 11 lbf (49 N) to 475 lbf (2 kN)
- Acoustic Power Generators – 10,000 Watts at low and high frequencies

All water cooled shakers are manufactured in the U.S.A., and all air cooled shakers are manufactured in either the U.S.A. or U.K.



Amplifiers

SignalForce Power Amplifiers

SignalForce amplifiers provide very high levels of efficiency with superior levels of performance. These amplifiers occupy little space and are suitable for driving shakers from all manufacturers, as well as other laboratory applications.

The amplifier designs include full use of Faraday cages, compartmentalization, filtered interconnections, segmented wiring, common mode chokes for symmetrical currents, mains filters, optical coupling of signals and screened cables to minimize EMC considerations.



- Linear amplifiers from 30VA to 1000 VA
- Digital switching amplifiers from 1kVA to 470kVA
- Up to 95% efficient
- Switches at >105 kHz
- Integral field & degaussing supplies
- Safety interlocks
- Protection against over current and over temperature
- E-Link Remote Control
- Drives all shaker brands



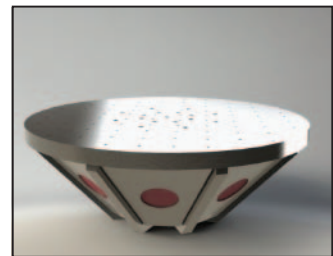
Accessories

SignalForce Vibration Test Accessories

SignalForce accessories include a wide selection of slip tables, head expanders, and fixtures. Standard models as well as application specific solutions are available to cover a wide range of uses. SignalForce accessories are engineered to facilitate the vibration testing process.

SignalForce Accessories include:

- Monobases
- Slip Tables
- Slip Table Guidance
- Head Expanders
- Head Expander Guidance Systems
- Fixtures
- Multishaker Configurations and Couplings
- Shaker Mobility Options
- Noise Reduction Enclosures
- Chamber Interfaces



Discover more at www.dataphysics.com



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Data Physics Corporation

1741 Technology Drive, Suite 260, San Jose, CA 95110

TEL: +1-408-437-0100 FAX: +1-408-437-0509



Data Physics has been supplying high performance test and measurement solutions for over 25 years. With the addition of a full line of electrodynamic shakers to complement its vibration controllers and dynamic signal analyzers, Data Physics is a total solution supplier for noise and vibration applications.

Data Physics Worldwide

Data Physics (UK) Ltd.

South Road
Hailsham
East Sussex
BN27 3JJ, United Kingdom
TEL: +44-(0)-1323-846464
FAX: +44-(0)-1323-847550

Data Physics (France) S.A.S.

142 avenue Joseph Kessel
78960 Voisins le Bretonneux
France
TEL: +33-(0)-1-39-30-50-60
FAX: +33-(0)-1-39-30-50-79

Data Physics (China)

Suite 7B, Zhao Feng Universe Building,
1800 Zhong Shan Road West,
Shanghai, China 200235
TEL: +86-21-621-86533
TEL: +86-21-644-00712
FAX: +86-21-644-00960

Data Physics (Deutschland) GmbH

Theodor Heuss Strasse 21
D-61118 Bad Vilbel
Deutschland
TEL: +49-(0)-6101-50-95-61
FAX: +49-(0)-6101-50-95-62

Data Physics (Bharat) Pvt. Ltd.

411, 15th Cross
2nd Block, Jayanagar
Bangalore - 560011, India
TEL: +91-80-2656-5810
TEL: +91-80-2656-3717
FAX: +91-80-2656-2609