PRODUCT DATA

Lateral Modal Exciter Stands — UA 1607, UA 1608

USES

- Lateral Modal Exciter Stands UA 1607 and UA 1608 are used for demanding modal test applications and are matched for use with Modal Exciter Types 4824, 4825 and 4826

FEATURES

- Durable and extremely rugged construction
- Two different heights – 1.4 meters and 2.0 meters
- Perfectly suited for use with push/pull stingers as well as tension wire stingers
- Exciter can be suspended via four turnbuckles (standard accessory), or positioned on top of bracket arm
- Modal Exciter Types 4824, 4825 and 4826 have the possibility of 360 degrees of rotation when mounted on top of bracket arm
- Heavy-duty wheels for easy movability
- Aluminium I–profile arm for easy custom–built exciter suspension
- Low-geared spindle for swift change of exciter height
- Rubber feet on adjustable steel legs
- Pre-tensioning of tension wire stingers via turnbuckle and coil spring (standard accessory)

Description

Designed for demanding modal test applications, Lateral Modal Exciter Stands UA 1607 and UA 1608 provide reliable, stable and long-lived operation. A rugged construction and a variety of possibilities for modal exciter mounting, assure a versatile means of lateral modal excitation for any modal test requiring attached excitation.

The Lateral Modal Exciter Stands UA 1607 and UA 1608 are designed to be used in conjunction with Brüel & Kjær Modal Exciter Types 4824, 4825 and 4826, but they can be used with any exciter (with or without added inertial mass) up to a maximum suspended weight of 60 kg. Mounting of the modal exciter can be achieved via the “classical” suspension method using four turnbuckles or via a unique mounting plate that allows the modal exciter to be mounted on top of the bracket arm. The latter provides for the possibility of rotating the exciter 360 degrees around its own main axis, making excitation setup from under a structure as easy as lateral excitation from the side of the structure.

Lateral Modal Exciter Stands UA 1607 and UA 1608 are suited for push/pull stingers as well as tension wire stingers, such as Brüel & Kjær’s UA 1600. In a traditional setup for horizontal excitation, the latter is accommodated by feeding the tension wire through the modal exciter, mounted in its trunnion and suspended via four turnbuckles. The tension wire then goes around the pulley (height adjustable) and finally connects to a turnbuckle fastened to the base of the Lateral Modal Exciter Stand (UA 1607 or UA 1608), via a coil spring. The coil spring has a pre-tensioning limit of 400 N (90 lbf).

An (optional) DC Static Centering Unit Type 1056, allows the use of tension wire stingers, even when the modal exciter is mounted on top of the bracket arm. The DC Static Centering Unit makes it possible to achieve wire pre-tensioning by adding an adjustable DC current to the AC current (drive signal) from the power amplifier, hence providing the necessary pre-tensioning of the attached wire.

Specifications — Lateral Modal Exciter Stands UA 1607, UA 1608

Type	Weight	Max. Exciter Elevation	Min. Exciter Elevation	Max. Spring Tension	Max. Suspended Mass
UA 1607	approx. 135 kg (301 lb)	1240 mm (48.8 inches)	531 mm (20.9 inches)	400 N	60 kg (134.4 lb)
UA 1608	approx.140 kg (314 lb)	1640 mm (64.6 inches)	531 mm (20.9 inches)	400 N	60 kg (134.4 lb)

Ordering Information

Lateral Modal Exciter Stands UA 1607 and UA 1608 include the following accessory:

DL 1048 Small turnbuckle with coil spring

Optional Accessories

STINGERS, COLLET CHUCKS AND ADAPTORS

UA 1596 Five push/pull steel stingers. Content: Ten adaptors diameter 2.5 mm to 10–32 UNF. Five Steel rods, length 200 mm, diameter 2.5 mm. Ten fastening screws

UA 1597 Five push/pull steel stingers. Content: Ten adaptors, diameter 3.5 mm to 10–32 UNF. Five steel rods, length 200 mm, diameter 3.5 mm. Ten fastening screws

UA 1598 Three push/pull steel stingers. Content: Three fastening screws. Three adaptors diameter 2.5 mm to 10–32 UNF. Three steel rods, length 500 mm, diameter 2.5 mm. One 2.5 mm collet chuck (chuck nut with collet insert)

UA 1599 Three Push/Pull steel stingers. Content: Three fastening screws. Three Adaptors, diameter 3.5 mm to 10–32 UNF. Three steel rods, length 500 mm, diameter 3.5 mm, one 3.5 mm collet chuck (chuck nut with collet insert)

UA 1600 One tension wire. Content: One fastening screw. One adaptor, diameter 0.75 mm to 10–32 UNF. One tension wire, length 5000 mm, diameter 0.75 mm, on a spool. One 0.75 mm collet chuck (chuck nut with collet insert)

UA 1601 Three tension wires. Content: Three fastening screws. Three adaptors, diam. 2.0 mm, 10–32 UNF three tension wire, length 500 mm, diameter 2.0 mm, three 2.0 mm collet chucks (chuck nut with collet insert)

UA 1602 Collet chuck and adaptor for tension wire with diameter 0.75 mm. Content: Three chuck nuts. Three collet inserts for wire diameter 0.75 mm. Three fastening screws. Three adaptors, diameter 0.75 mm to 10–32 UNF

UA 1603 Collet chuck and adaptor for tension wire with 2.0 mm. Content: Three chuck nuts. Three collet inserts for wire diameter 2.0 mm. Three fastening screws. Three adaptors, 2.0 mm to 10–32 UNF

UA 1604 Collet chuck and adaptor for push/pull rod, diameter 2.5 mm. Content: Three chuck nuts. Three collet inserts for push/pull rod diameter 2.5 mm. Three fastening screws. Three adaptors, 2.5 mm to 10–32 UNF

UA 1605 Collet chuck and adaptor for push/pull rod, diameter 3.5 mm. Content: Three chuck nuts. Three collet inserts for push/pull rod diameter 3.5 mm. Three fastening screws. Three adaptors, 3.5 mm to 10–32 UNF

UA 1606 Five nylon stingers. Content: Five nylon rods, 200 mm, diameter 3.5 mm. Ten fastening screws. Ten adaptors, diameter 3.5 mm to 10–32 UNF

THREAD AND BUSHING ADAPTORS

EE–5227–002 Bushing Adaptor, 10–32 UNF to ¼–28 UNF

EE–5004 Adaptor, Male 10–32 UNF to Male ¼–28 UNF

ELECTRICAL TENSION WIRE PRE-TENSIONING

Type 1056 DC Static Centering Unit

FORCE TRANSDUCERS AND IMPEDANCE HEAD

EE–0357 ENDEVCO® 2312 Piezoelectric Force Sensor

EE–0358 ENDEVCO 2313 Piezoelectric Force Sensor

EE–0112 ENDEVCO 2311–1 ISOTRON® Force Transducer

EE–0113 ENDEVCO 2311–10 ISOTRON Force Transducer

EE–0114 ENDEVCO 2311–100 ISOTRON Force Transducer

EE–0115 ENDEVCO 2311–500 ISOTRON Force Transducer

Type 8203 Force Transducer/Impact Hammer

Type 8001 Impedance Head

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