



**Astro-
und Feinwerktechnik
Adlershof GmbH**

Environmental Testing

Vibration

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7,5-kN Shaker (RMS)

35-kN Shaker (TIRA)

Sine Vibration

Random Vibration

Mixed SoR / RoR

Shock classic / SRS

Force Measurement

Force Notching

Vibration test facilities for mechanical,
electronic and electrical components,
instruments or any other designs used in aerospace

- various shaker systems with slip tables using a control unit for all types of vibration and shock tests are available
- we have experience in conducting tests, in evaluating test requirements and in developing and validating test instruments and equipment

Daten (TIRA Shaker)

Shaker Vibration/Schock

Sinuskraft: ca. 35 kN

Rauschkraft: ca. 35 kN

Schockkraft max. 105 kN

Frequenzbereich: DC~2500 Hz

max. Beschleunigung

Sinus / Rauschen: 104 g

Schock: 207 g

max. Geschwindigkeit

Sinus / Rauschen: 1,8 m/s

Schock: 2,5 m/s

max. Auslenkung: 76,2 mm
(Spitze zu Spitze)

Durchmesser der Armatur: 440 mm

Gleittisch

Aufspannfläche Platte: 610 mm x 610 mm

Stärke: 50 mm, 2fach hydrostatisch
gelagerte Platte

Gewicht der Platte: 43 kg, maximale
Zuladung: ca. 550 kg

nutzbarer Frequenzbereich: 0 Hz – 2 kHz

Digitaler Verstärker

Ausgangsleistung: 57 kVA

Control unit VibControl m+p international

Signal Analyzer VibRunner VR16

modernste IC-Technologie,
102,4 kHz max. Abtastrate

Data (TIRA Shaker)

Shaker Vibration/Shock

sine force: about 35 kN

random force: about 35 kN

shock force max. 105 kN

frequency range: DC~2.500 Hz

maximum acceleration

Sine / Random: 104 g

Shock: 207 g

maximum velocity

Sine / Random: 1.8 m/s

Shock: 2.5 m/s

maximum displacement: 76.2 mm
(peak to peak)

armature diameter: 440 mm

Slip table

mounting area: 610 mm x 610 mm

thickness: 50 mm, double hydrostatic
supported plate

weight of plate: 43 kg, maximum
additional payload: about 550 kg

useable frequency range: 0 Hz – 2 kHz

Digital amplifier

output power: 57 kVA

Controlunit VibControl m+p international

signal Analyzer VibRunner VR16

state-of-the- art IC technology,
102.4 kHz sampling rate