

# TIRAvib

## Vibration generator

TIRAvib 50009  
TIRAvib 50018

### DESCRIPTION

The TIRA vibration generators TV 50009 and TV 50018 are designed as both stationary and portable wide band exciter sources to reproduce environmental conditions.

TIRA vibration generators are designed for continuous operation. They are fitted with a light weight rugged magnesium armature and a tested and proven suspension system which provides excellent lateral and rotational restraint as well as axial stiffness.

Several optional features make the generators available in shaker and modal shaker variations.

To complete the package, TIRA also offer customer specific fixtures for each test system.

TIRA's fully equipped package, including Digital Vibration Controller, enables the user to test under all national and international standards such as DIN, ISO, ASTM, BS, MIL, IEC, etc...



### POWER AMPLIFIER

#### FOR TIRAvib 50009

sinus continuous rating	60 VA
voltage	16 V
current	3.8 A
distortion	< 0.1 %
weight	6 kg
size (WxHxD)	483x90x350mm

#### FOR TIRAvib 50018

sinus continuous rating	60 VA
voltage	16 V
current	3.8 A
distortion	< 0.1 %
weight	6 kg
size (WxHxD)	483x90x350mm

### MODAL SHAKER



### SUSPENSION SYSTEM

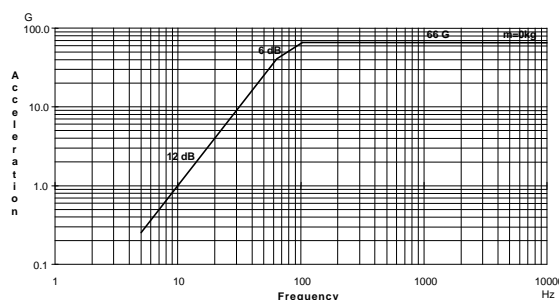
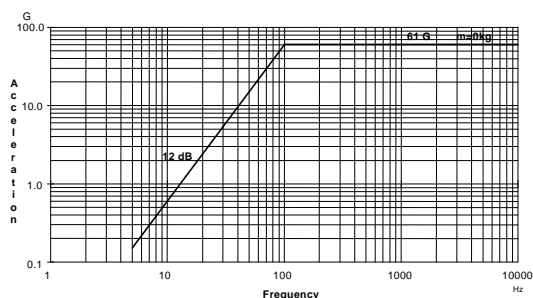


# Technical Specification

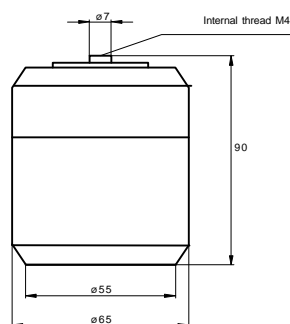
		TIRAvib 50009	TIRAvib 50018
Rated peak force [N (kgf)]	Sine	9 (0.9)	18 (1.8)
Frequency range [Hz]		2 - 13000	2 - 11000
Max. rated travel [mm]		3	5
Max. velocity [m/s]	Sine	1.0	1.0
Max. acceleration [g]	Sine	60	65
Rated current [A]		2.7	3.8
Nominal impedance [W]		4	4
Suspension stiffness [N/mm]		4	4.4
Effective moving mass [g]		15	28
Main resonance frequency [kHz]		>12	>11
Weight (with trunnion) [kg]		1.5	3.2 (4.5)

PERFORMANCE DIAGRAM TV 50009

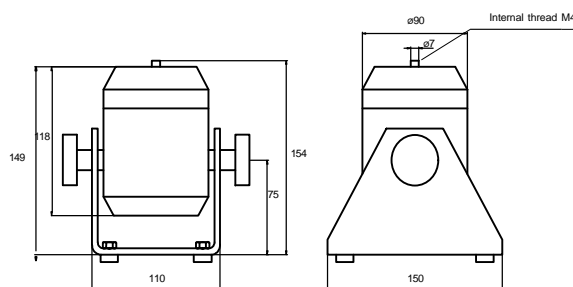
PERFORMANCE DIAGRAM TV 50018



## DIMENSIONS



TV 50009



TV 50018

## MANUFACTURER



- ◆ MEASURING
- ◆ TESTING
- ◆ BALANCING
- ◆ CNC

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## PRODUCT RANGE

- Shaker 9 N - 245 kN
- Servohydraulic up to 1000 KN
- Longstroke systems up to 600 mm
- Amplifier, digital / analog
- Modal shaker
- Vibrations control system
  - Sine, Random, Shock, Mixed mode
- Oil film slip table for horizontal test
- Climate and temperature system
- Headexpander and special construction