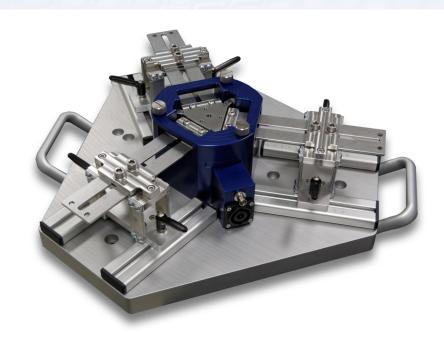
## SE-101 RES-HA



## **Calibration Vibration Exciter for High Acceleration**



## **Application**

- Secondary calibration of amplitude linearity of vibration sensors up to high-g-levels
- Fatigue testing

#### Range of Use

- Certified calibration laboratories with outstanding quality demands
- Departments of measuring instrument verification in research and industry
- Quality assurance in sensor manufacturing
- Testing of fatigue behavior of devices at high acceleration levels

#### **Features**

- Very high acceleration amplitudes (up to 400 g<sub>n</sub>)
- Low Transverse motions < 5 %
- Usable frequency range 65 Hz ... 500 Hz
- Maximum mass of DUT 300 gram
- Internal reference accelerometer (ICP®-type, sensitivity about 10 mV / g<sub>n</sub>)
- Customized solutions and modifications on request

## **Description**

The SE-101 is a high-tech product, which is the result of intensive theoretical and practical examinations. It is designed especially for checking and calibration of amplitude linearity of sensors at certain frequencies up to high acceleration levels.

Thus the significant feature of this exciter is the high acceleration limit of up to 400  $g_n$  using a sinusoidal excitation signal.

The drive of the exciter is electro dynamic. High acceleration amplitudes with very low temperature rise of the shaker and low transverse motions can be reached due to the special resonator design. The easily adjustable spring system allows quick changes of the resonance frequency.

# SE-101 RES-HA

# SPEKTRA

## **Calibration Vibration Exciter for High Acceleration**

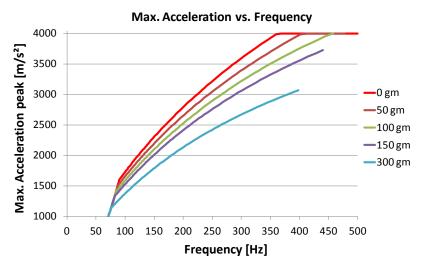
## Components

- Vibration exciter
- Internal reference accelerometer, ICP® accelerometer
- Base Plate
- · Adjustable spring system

### **Technical Data**

Vibration Exciter			
Frequency Range	65 Hz 500 Hz (bare	65 Hz 500 Hz (bare table)	
Max. Stroke	10 mm		
Max. Acceleration	400 g <sub>n</sub>		
Max. Payload	300 gram (higher payloads on request)		
Transverse Motion	typ. < 5 %		
Max. Current Input	9 A RMS		
Total Weight	21 kg	21 kg	
Working Temperature Range	23°C (± 2 K)	73,4°F (± 2 K)	
Storage Temperature Range	-25°C +55°C	-13°F +131°F	
Data of the Internal Reference Accelerometer	·	·	
Sensitivity (± 10 %)	1 mV / m/s² (10 mV / g <sub>n</sub> )		
Frequency Range	2 Hz 50 kHz		
Excitation Voltage	18 V <sub>DC</sub> 30 V <sub>DC</sub>		
Constant Current Excitation	2 mA 20 mA		
Output Bias Voltage	8 V <sub>DC</sub> 12 V <sub>DC</sub>	8 V <sub>DC</sub> 12 V <sub>DC</sub>	
Discharge Time Constant	0.5 sec 2.0 sec		
Settling Time (within 10 % of bias)	< 5 sec		
Connectors			
Sensor (Internal Reference)	BNC-connector	BNC-connector	
Shaker	Speakon <sup>®</sup> -SV (8-pin)		

Recommended Power Amplifier: **PA 14-180**Recommended optional extra: Remote shut-down



All data are subject to change without notice