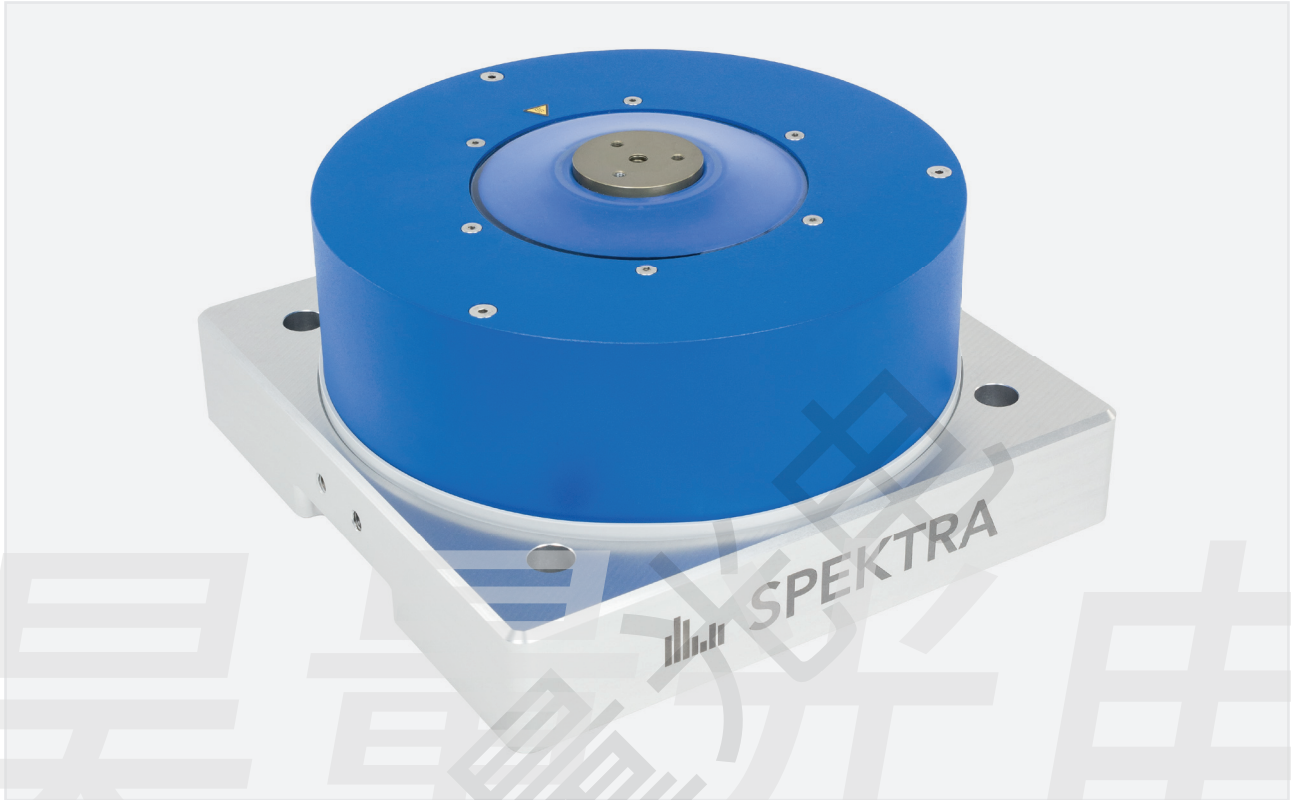


SE-20

Vibration exciter



Applications

- ✓ vibration tests of small-scale devices
- ✓ modal and structural testing
- ✓ calibration of vibration sensors according to ISO 16063-21
- ✓ education and training



Selected Data

- ✓ high frequency range from 3 Hz to 20 kHz
- ✓ acceleration up to 600 m/s^2 ($61 g_n$)
- ✓ low transverse motion typical $< 5 \%$
- ✓ payload max.: 2 kg (vert.) / 1 kg (horiz.)
- ✓ temperature range: $-40 \text{ }^\circ\text{C} \dots +120 \text{ }^\circ\text{C}$



Features

- ✓ highly scratch resistant hard-coated armature made from aluminum
- ✓ first axial resonance $> 22 \text{ kHz}$
- ✓ high payload capability for large sensors or geophones
- ✓ easy operation in climate chambers
- ✓ efficient electrodynamic drive using high flux motor
- ✓ optional internal reference accelerometer
- ✓ no compressed air supply or zero position controller required
- ✓ trunnion for vertical and horizontal mode



Technical data

Force rating, max. (sine-peak)	95 N (21 lbf) ¹⁾
Frequency range	DC ... 20 kHz 3 Hz ... 20 kHz with optional internal reference standard
Acceleration, max. (sine peak)	600 m/s ² (61 g _n) ¹⁾
Displacement, max. (peak-peak)	10 mm (0.39 in)
Transverse motion	typical < 5 % ²⁾
Payload, max.	2 kg (4.4 lbs) vertical 1 kg (2.2 lbs) horizontal
Temperature range (in operation)	-20 °C ... +80 °C standard version (-4 °F ... +176 °F) -40 °C ... +120 °C option as SE-20T version (-40 °F ... +248 °F)
DUT mounting	<ul style="list-style-type: none">• 50 mm (1.97 in) coupling surface diameter• hard coated surface• ¼-28 UNF thread hole• 3 plcs 10-32 UNF thread holes• other thread patterns on request
Stray magnetic field on table	< 3 mT
Armature weight	160 g (0.36 lbs)
Weight (total)	17 kg (37.5 lbs)
Dimensions (H × W × L)	138 mm × 270 mm × 285 mm (5.4 in × 10.6 in × 11.2 in)

All specifications are at room temperature unless otherwise specified. Technical data achieved with Power Amplifier PA 500 DM-HF.

1) interval mode of operation

2) single peaks up to 15 % / better than ISO 16063-11/21