Modal Vibration Test System TV 51110-M

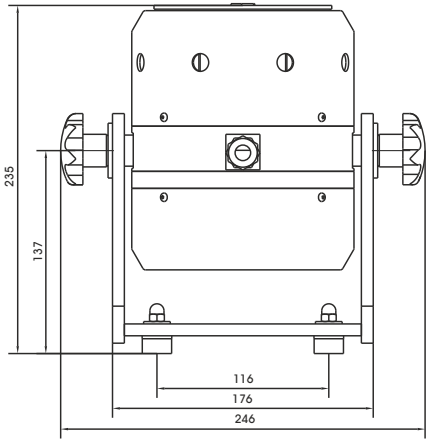
TECHNICAL PARAMETERS Modal exciter S 51110-M

Rated peak force $Sine_{pk}$/$Random_{RMS}$ [1]	100/70 N
Frequency range	DC - 5000 Hz
Main resonance frequency (free-swinging)	>2680 Hz
Max. displacement Peak-Peak	13 mm
Max. velocity	1.5 m/s
Suspension stiffness	8 N/mm
Effective moving mass	0.23 kg
Total mass	12 kg
Coupling thread	M6

1) Random force according to ISO 5344:2004



S 51110-M (Example drawing) (mm)

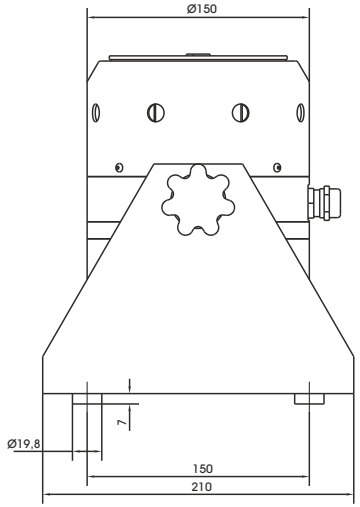


SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:
- Modal exciter
- Trunnion mount
- Power amplifier
- Connection cable (3 m)
- Power cable (1.5 m) for amplifier (CEE 7/7 connector)

Options:
- Stinger (see Modal brochure for details)
- Cable extension
- Factory acceptance test

Features:
- Vibration isolation
- High cross-axial stiffness
- Light weight construction by using rare earth magnet
- Minimum maintenance effort
- Made in Germany
- Service hotline



TECHNICAL PARAMETERS Power Amplifier BDA 120

Continuous sine output power, max.	120 VA
Frequency range (small signal / full power)	DC - 100 kHz / 40 Hz - 20 kHz
Voltage-/Current mode	yes/no
$Voltage_{RMS}$, max.	22 V
$Current_{RMS}$, max.	5.5 A
Signal input $voltage_{PK}$ (at 1 khZ sine for max. power)	3.5 V
Distortion THD (frequency range 40 Hz to 20 kHz)	< 0.1 %
Signal to noise ratio	> 100 dB(A)
Total mass	2 kg
Dimensions (W x H x D)	240 x 48 x 226 mm
Power supply	1~ / N / PE 100..230 V±5% 50/60 Hz CEE 7/7
Recommended fuse protection	16 A slow
Max. power consumption	180 VA
Interlocks:	Overcurrent, Temperature

Features:
- High Signal to noise ratio of > 100 dB(A)
- Low Distortion factor (THD) of < 0.1 %



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Subject to modifications

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