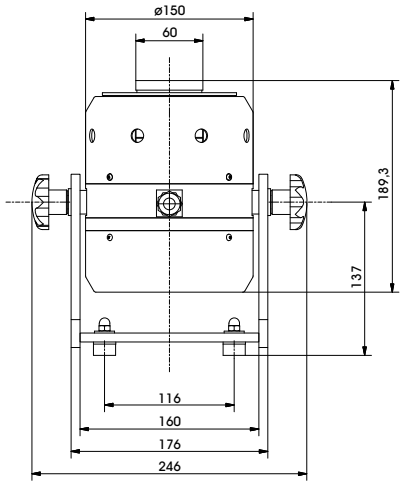
Vibration Test System TV 51110

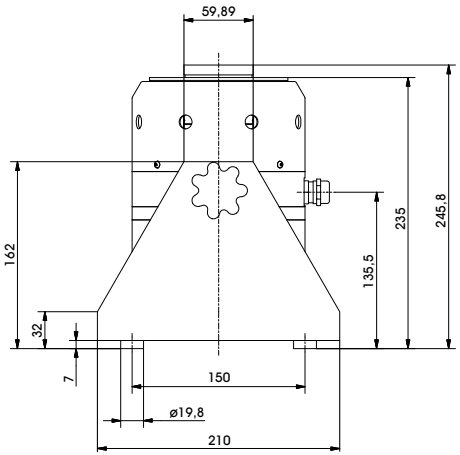
TECHNICAL PARAMETERS Vibration exciter S 51110

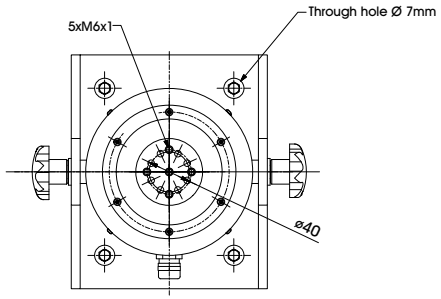
Rated peak force $Sine_{pk}$/$Random_{RMS}$ [1]	100/70 N
Frequency range	2 - 7000 Hz
Main resonance frequency	>6500 Hz
Max. displacement Peak-Peak [2]	13 mm
Max. velocity	1.5 m/s
Max. acceleration Sine/Random	45/30 g
Suspension stiffness	8 N/mm
Effective moving mass	0.23 kg
Total mass	12 kg
Armature diameter	60 mm

1) Random force according to ISO 5344:2004
2) Payload has an impact on the possible maximum displacement

S 51110 (Example drawing) (mm)







SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:
- Vibration exciter 100 N
- Trunnion mount
- Power amplifier 200 VA
- Connection cable (3 m)
- Power cable (1.5 m) for amplifier (CEE 7/7 connector)

Options:
- Cable extension
- Modal adapter M6
- Stinger (see Modal brochure for details)
- 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 DA 200

Output $power_{RMS}$	200 VA
Frequency range	1.5 - 22000 Hz
Voltage-/Current mode	yes/no
$Voltage_{RMS}$, max.	30 V
$Current_{RMS}$, max.	10 A
Signal input $voltage_{RMS}$	7 V
Distortion	< 0,1 %
Signal to noise ratio	> 90 dB
Total mass	3.5 kg
Dimensions (WxHxD)	390 x 80 x 260 mm
Power supply (Standard)	1~ / N / PE 100...264 V 50..60 Hz CEE 7/7
Recommended fuse protection (Standard)	10 A slow
Max. power consumption at 230 V	75 VA (operation with S 51110)
Interlocks:	Overload, Temperature, Clipping

Features:
- High Signal to noise ratio of >90 dB
- Low distortion factor of < 0.1 %
- Safety management system monitors functions as temperature, overcurrent and overvoltage

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