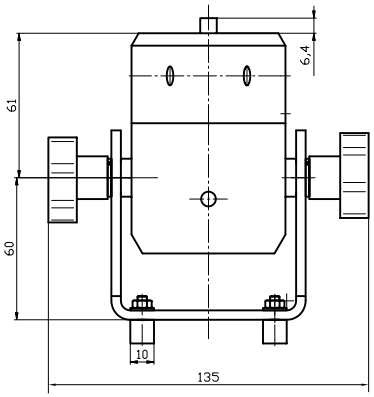
Vibration Test System TV 50009

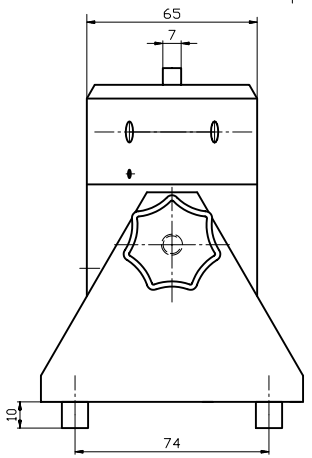
TECHNICAL PARAMETERS Vibration exciter S 50009

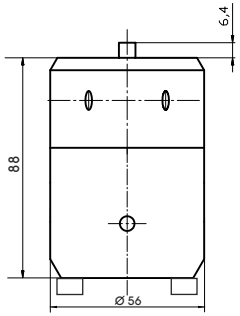
Rated peak force Sine$_{pk}$	9 N
Frequency range	2-20000 Hz
Main resonance frequency	>13000 Hz
Max. displacement Peak-Peak[1]	3 mm[1]
Max. velocity Sine	1.5 m/s
Max. acceleration Sine	60 g
Suspension stiffness	4 N/mm
Effective moving mass	0.015 kg
Total mass without/with trunnion	1.7 kg / 2.2 kg
Armature coupling thread size	M4

1) Specimen mass has an impact on the possible maximum displacement

S 50009 (Example drawing) (mm)







SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:
- Vibration exciter 9 N
- Power amplifier 200 VA
- Connection cable (3 m(9.8 ft))
- Power cable (1.5 m(4.9 ft)) for amplifier (CEE 7/7 connector)

Options:
- Trunnion mount (see right picture above)
- Cable extension
- Factory acceptance test

Features:
- Vibration isolation
- High cross-axial stiffness
- 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	50 VA (operation with S 50009)
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

TIRA GmbH Eisfelder Str. 23/25, 96528 Schalkau, Germany • Tel.: +49 36766 280-0 • Fax: +49 36766 280-99 • Internet: www.tira-gmbh.de • Email: st@tira-gmbh.de

Subject to modifications

TIRA Vibration Test Systems TV 50009