

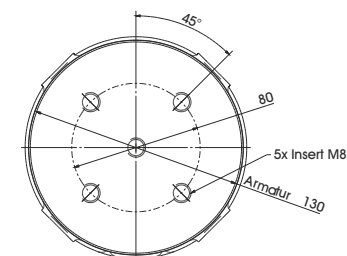
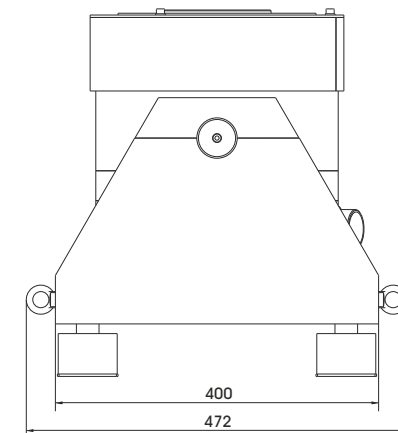
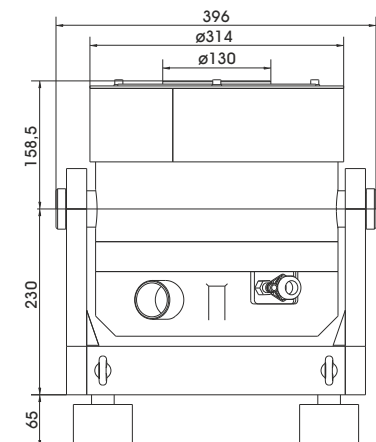
TECHNICAL PARAMETERS Vibration exciter S 5220-C

Rated peak force $Sine_{pk}/Random_{RMS}$ ¹	800/400 N
Frequency range	1 - 20000 Hz
Main resonance frequency	> 13000 Hz
Max. displacement Peak-Peak	25.4 mm
Max. velocity	1.5 m/s
Max. acceleration Sine/Random	60/30 g
Suspension stiffness	electronically adjustable
Effective moving mass ($\pm 5\%$)	1.35 kg
Total mass	110 kg
Magn. stray field without/with degaussing ²	< 8.5/< 1 mT
Armature diameter	130 mm
Interlocks	Field coil temperature, displacement, cooling air, overcurrent

1) Random force according to ISO 5344:2004

2) measured at 150 mm above armature

For long-term tests, the load must be reduced to 80 %. Continuous operation at maximum load can cause damage.



SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:

Vibration exciter
Trunnion mount
Power amplifier
Field power supply (FPS)
Electronic zero point regulation
(Tira Middle Control=TMC)
Cooling blower
Connection cable (5 m)
Power cables (each 1.5 m)
for amplifier, FPS and TMC
(CEE 7/7 connector)
Blower hose $\varnothing 50$ mm (5 m)

Options:

Different thread inserts in the armature
at customer request
Degauss kit to reduce stray magnetic field
Squeak&Rattle (Silent operation without blower)
19" Rack for integrating of amplifier/FPS/TMC
Thermobarrier
Chamber leadthrough
Silencer
for cooling blower (Noise reduction up to 8 dB(A))
Acoustic enclosure
for cooling blower (Noise reduction 15 - 23 dB(A))
Cable extension
Factory acceptance test

Features:

Vibration isolation < 6 Hz
Coarse filter unit
Fully automatic electronic
load compensation
Electronic zero point regulation
with adjustable stiffness
Automatic centering of the armature
High cross-axial stiffness
Minimum maintenance effort
Made in Germany
Servicehotline

TECHNICAL PARAMETERS Amplifier BDA 1300-ET

Output power _{RMS} , max.	1300 VA
Frequency range	2 - 25000 Hz
Voltage-/Current mode	yes/no
Voltage _{RMS} , max.	72 V
Current _{RMS} , max.	18 A
Signal input voltage _{PK}	3.5 V
Distortion (THD, at frequency range 40 Hz to 1 kHz)	< 0.1 %
Signal to noise ratio	> 90 dB(A)
Field power supply (FPS)	yes (external)
Field voltage, max.	69 V
Field current, max.	9 A
Total mass (Amplifier+FPS+TMC)	43 kg
Dimensions (Amplifier+FPS+TMC, WxHxD)	440 x 260 x 500 mm
Power supply Amplifier+TMC (Standard)	1~ / N / PE 230 V±5% 50 Hz, CEE 7/7
Power supply FPS+Blower (Standard)	1~ / N / PE 230 V±5% 50 Hz, CEE 7/7
Recommended fuse protection (Standard)	each one 16 A slow
Max. power consumption at 230 V (Amplifier)	1.3 kVA
Max. power consumption at 230 V (FPS+blower)	1.6 kVA
Max. power consumption at 230 V (TMC)	0.1 kVA
Interlocks:	Overload, temperature, clipping

Features:

- High Signal to noise ratio of >90 dB(A)
- Monitoring output of voltage and current



Zero point regulation, Field power supply and Amplifier

TECHNICAL PARAMETERS Cooling blower TB 0140

Volume flow rate	max. 140 m³/h
Total pressure difference	max. 150 mbar
Power	1.1 kW
Frequency	50 Hz
Hose diameter	50 mm
Hose length (Std.)	5 m
Total mass	16 kg
Dimensions (WxHxD)	286 x 302 x 292 mm
Sound pressure level, max.	max. 63 dB(A)
Power supply (standard)	by Field power supply (FPS)
Max. current consumption at 400 V	7.3 A

Options:

Silencer TB 0140-SI (Noise reduction up to 8 dB(A))

Dimensions (LxD): 308 x 82 mm

Mass: 0.2 kg

Acoustic enclosure TB 0140-AE (Noise reduction 15 - 23 dB(A))

Dimensions (WxHxD): 650 x 760 x 860 mm

Mass: 45 kg

Hose length according to customers request (up to 10 m)



Cooling blower TB 0140



Silencer TB 0140-SI
(optional)



Acoustic enclosure TB 0140-AE
(optional)