

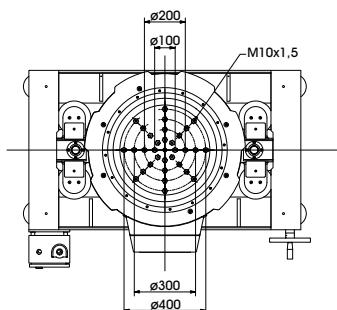
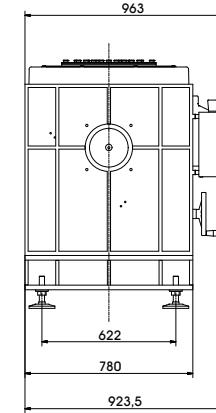
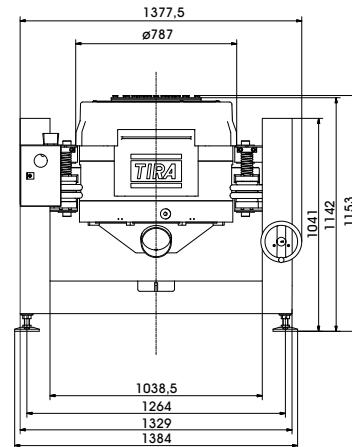
Vibration Test System TV 59322/*-440

TECHNICAL PARAMETERS Vibration exciter S 59322/*-440

Rated peak force Sine _{pk} /Random _{RMS} ¹ /Shock _{pk} ²	22000/17000/66000 N
Frequency range	5 - 3000 Hz
Main resonance frequency	> 2250 Hz
Max. displacement Peak-Peak	63.5/63.5/76.2 mm
Max. velocity Sine/Random/Shock	2.0/2.0/3.5 m/s
Max. acceleration Sine/Random/Shock	80/55/200 g
Suspension stiffness	150 N/mm
Effective moving mass	22 kg
Max. payload	300 kg
Total mass with trunnion RIT/AIT*	1750/2000 kg
Magn. stray field ³	<1.5 mT
Armature diameter	440 mm
Required compressed air supply	Min. 600 kPa
Interlocks	Temperature, displacement, cooling air, overcurrent, compressed air



S 59322/AIT-440 (Example drawing) Dimensions in mm



SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:
Vibration exciter 22 kN
Trunnion mount (RIT or AIT)
Power amplifier 22.5 kVA
Cooling blower
Connection cables (each 10 m)
Power cables (each 10 m)
for amplifier (CEE 63 connector)
and blower (CEE 32 connector)
Blower hose ø150 mm (5 m)
Compressed-air hose NW 7,2 (Standard) (5 m)

Options:
AIT-trunnion frame (see illustration)
with integrated vibration isolation
RIT-trunnion frame

Options:
Different hole pattern of armature
(different pitch diameter and/or thread inserts)
at customers request
Squeak&Rattle (Silent operation without blower)
Wheels&Rails (incl. 3m rails)
Airlide-option (Shaker movable on air cushions)
Thermobarrier (-40°C to +140°C)
Chamber leadthrough
Climatic chamber support kit
Remote control (Software)
ASM-Mode (Auto Shutdown Manager)
Silencer
for cooling blower (Noise reduction 9 - 15 dB(A))
Acoustic enclosure
for cooling blower (Noise reduction 5 - 23 dB(A))
Cable extension
Factory acceptance test

Options:
TIRA EMS Energy Management System

Operation with temperature-controlled
cooling blower (and optional with variable
field strength)

Features:
Vibration isolation < 3 Hz (AIT)
< 6 Hz (RIT;LB)
Coarse filter unit
Fully automatic pneumatic load compensation
AIT fixable
Automatic centering of the AIT-System and
the armature
Degauss kit to reduce stray magnetic field
Made in Germany
Servicehotline

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TECHNICAL PARAMETERS Amplifier A 3 09 11 042

Output power _{RMS}	22500 VA
Frequency range	DC - 5 kHz
Voltage _{RMS} , max.	±212 V
Current _{RMS} , max.	200 A
Signal input voltage	10 V
Total Harmonic Distortion (at 70A _{RMS} , 200 Hz)	< 0.2 %
Signal to noise ratio	> 80 dB
Field voltage	140 V
Field current	62 A
Total mass	450 kg
Dimensions (WxHxD)	600 x 2200 x 800 mm
Power supply (Standard)	3~ / N / PE 400 V±5% 50 Hz, CEE 63
Recommended fuse protection (Standard)	63 A slow
Max. power consumption at 400 V	29 kVA
Interlocks:	Overload, Temperature, Displacement, Cooling air, Compressed air, Phase monitoring, Emergency stop

Features:

- Field supply integrated
- Mains switch and integrated line filter
- Lo-Field/Hi-Field (Energy-saving mode)
- Field voltage/Field current variable according to customer spec.
- 4 Sigma peak current
- Color Touch Screen



Switch box (blower)

TECHNICAL PARAMETERS Cooling blower TB 7/FUK/11

Max. volume flow rate	1920 m ³ /h
Max. total pressure difference	16 kPa
Motor output	11 kW
Max. frequency	105 Hz
Hose diameter	150 mm
Hose length (Std.)	5 m
Total mass	113 kg
Dimensions (WxHxD)	625 x 775 x 602 mm
Max. sound pressure level	102 dB(A)
Switch box (fixation to wall):	
Mass	10 kg
Dimensions (WxHxD)	300 x 300 x 250 mm
Power supply (Standard)	3~ / PE 400 V±5% 50 Hz, CEE 32
Recommended fuse protection (Standard)	32 A slow
Max. current consumption at 400 V	25 A

Options:

- Silencer TB 7/FUK-SI (Noise reduction 9 - 15 dB(A))
Dimensions (LxD): 1120 x 280 mm
Mass: 9.2 kg
- Acoustic enclosure TB 7/FUK-AE (Noise reduction 5 - 23 dB(A))
Dimensions (WxHxD): 1250 x 1393 x 1470 mm
Mass: 103 kg
- Water-cooled acoustic enclosure WWT (Noise reduction 30 dB(A))
Dimensions (WxHxD): 1500 x 2080 x 1200 mm
Mass: 800 kg
Hose length according to customers request (up to 10 m)



Cooling blower TB 7/FUK/11



Silencer TB 7/FUK-SI
(optional)



Acoustic enclosure TB 7/FUK-AE
(optional)