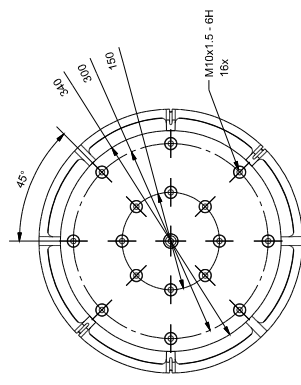
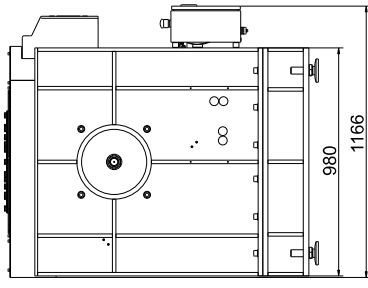
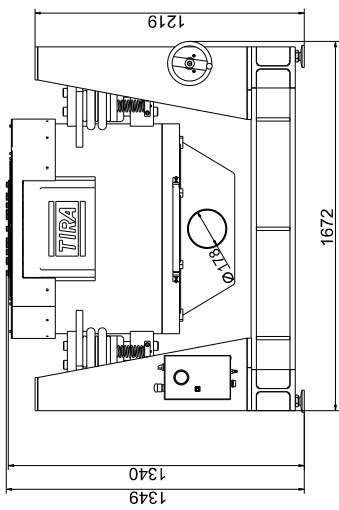


TECHNICAL PARAMETERS Vibration exciter S 59355/AIT-340

Rated peak force $S_{pk}/Random_{rms}/Shock_{pk}^1$	55000/51000/165000 N
Frequency range	5 - 3000 Hz
Main resonance frequency	> 2100 Hz
Max. displacement Peak-Peak	50.8 mm
Max. velocity Sine/Random/Shock	2.0/2.0/2.5 m/s
Max. acceleration Sine/Random/Shock ¹	100/100/264 g
Suspension stiffness	200 N/mm
Effective moving mass	43.0 kg
Max. weight tested	910 kg
Weight with trunnion	4550 kg
Magn. stray field std./low degaussing	<1.5/<0.8 mT
Armature diameter	340 mm
Min. required compressed air supply	600 kPa
Interlocks	Temperature, displacement, cooling air, overcurrent, compressed air

¹⁾ theoretical maximum shock value. Depends on payload, amplifier, shock and shock width



Armature 340 (Standard)

SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

<p>Scope of delivery: Vibration exciter 55 kN Trunnion mount with integrated vibration isolation (AIT) Power amplifier 113 kVA Cooling blower Frequency converter Connection cables (each 10 m) Power cables (10 m) for amplifier (direct connection) and cooling blower (CEE 63 connector) Blower hose ø175 mm (5 m) Compressed-air hose NW 7,2 (Standard) (5 m)</p>	<p>Options: Different hole pattern of armature (different pitch diameter and/or thread inserts) at customers request Low degaussing kit to further reduce stray magnetic field Airglide-option (Shaker movable on air cushions) Low Pressure unit for operation with vacuum chambers Wheels&Rails (incl. 3m rails) Thermobarrier (-40°C to +140°C) Chamber leadthrough Climatic chamber support kit Remote control (Software) Silencer for cooling blower (Noise reduction 9 - 15 dB(A)) Acoustic enclosure for cooling blower (Noise reduction 5 - 23 dB(A)) Water-cooled acoustic enclosure for cooling blower (Noise reduction 30 dB(A)) Cable extension Factory acceptance test</p>	<p>Features: AIT-trunnion mount with integrated vibration isolation < 3 Hz 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 Integrated mains switch and line filter Integrated field power supply Energy-saving mode Noise-button Input voltage analyzer Voltage clipping limiter to avoid clipping 3 Sigma peak current Made in Germany Servicehotline</p>
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TECHNICAL PARAMETERS Amplifier A 4 1 1 3 1 1 3

Output power_{rms}
 Frequency range
 Voltage_{rms} max.
 Current_{rms} max.
 Load resistance, opt.
 Signal input voltage_{rms} (switchable)
 Distortion
 Signal to noise ratio
 Field voltage, max.
 Field current, max.
 Weight
 Dimensions (WxHxD)
 Power supply (Standard)
 Recommended fuse protection (Standard)
 Max. power consumption at 400 V
 Interlocks:

113000 VA
 DC - 4 kHz
 150 V
 750 A
 1 Ohm
 2.5/5/10 V
 < 0.7 %
 > 90 dB
 112 V
 100 A
 910 kg
 1200 x 2200 x 800 mm
 3~ / N / PE 400 V ±5% 50 Hz
 Direct connection (terminal block)
 120 A slow
 62 kVA
 Overload, temperature, clipping
 and more

Features:
 High signal to noise ratio of > 90 dB
 Field supply integrated
 Mains switch and integrated line filter
 ESD-monitoring
 (Protection of the system against damage)
 Field voltage/Field current variable
 according to customer spec.

Lo-Field/Hi-Field button (Energy-saving mode)
 Noise-button
 Input voltage analyzer
 Voltage clipping limiter to avoid
 clipping
 3 Sigma peak current

TECHNICAL PARAMETERS Cooling blower TB 7/FU/20

Volume flow rate*
 Total pressure difference*
 Power
 Frequency
 Hose diameter
 Hose length (Std.)
 Weight
 Dimensions (WxHxD)
 Sound pressure level, max.
 Frequency converter (moveable):
 Weight
 Dimensions (WxHxD)
 Power supply (variable)
 Recommended fuse protection (Standard)
 Max. power consumption at 400 V

3000-3300 m³/h
 9.5 - 10.2 kPa
 20 kW
 105 Hz
 175 mm
 5 m
 157 kg
 625 x 700 x 575 mm
 105 dB(A)
 150 kg
 600 x 1400 x 400 mm
 3~ / PE 400 V ±5% 50 Hz
 CEE 63
 50 A slow
 27 kVA

Options:
 Silencer TB 7/FU-SI (Noise reduction 9 - 15 dB(A))
 Dimensions (LxD): 1120 x 280 mm
 Weight: 9.2 kg
 Acoustic enclosure TB 7/FU-AE (Noise reduction 5 - 23 dB(A))
 Dimensions (WxHxD): 1130 x 1630 x 1630 mm
 Weight: 103 kg
 Water-cooled acoustic enclosure WWT (Noise reduction 30 dB(A))
 Dimensions (WxHxD): 1500 x 2080 x 1200 mm
 Weight: 800 kg
 Hose length according to customers request (up to 10 m)

*During operation at vibration exciter



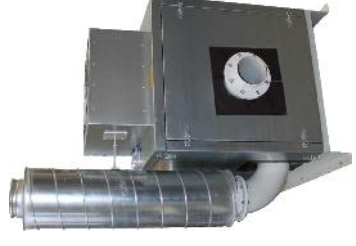
Frequency converter (enclosure)



Cooling blower TB 7/FU/20



Silencer TB 7/FU-SI
(optional)



Acoustic enclosure TB 7/FU-AE
(optional)