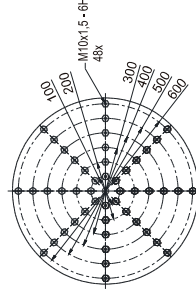
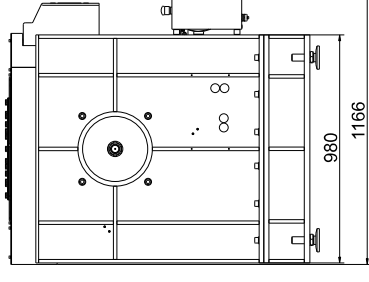
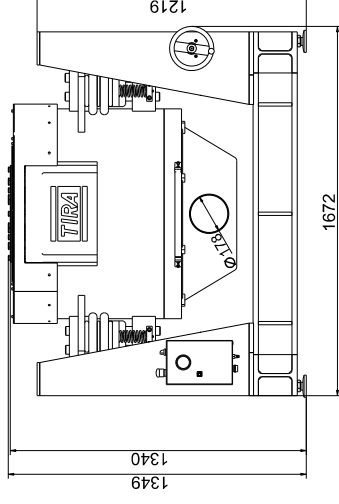


TECHNICAL PARAMETERS Vibration exciter S 59355/AIT-640

Rated peak force $S_{pk}/Random/Shock_{pk}^1$	55000/51000/165000 N
Frequency range	5 - 2000 Hz
Main resonance frequency	2000 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	70/70/160 g
Suspension stiffness	200 N/mm
Effective moving mass	55.0 kg
Max. weight tested	910 kg
Weight with trunnion	4550 kg
Magn. stray field std./low degaussing	<2/<1.5 mT
Armature diameter	640 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 640 (Standard)

SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

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

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



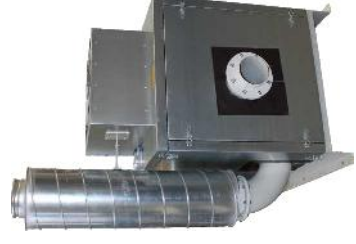
Frequency converter (enclosure)



Cooling blower TB 7/FU/20



Silencer TB 7/FU-SI
(optional)



Acoustic enclosure TB 7/FU-AE
(optional)