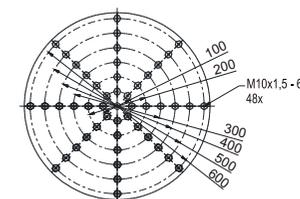
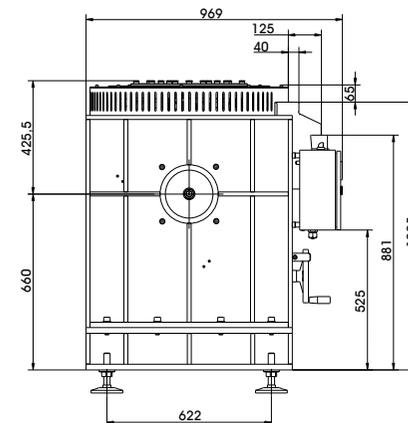
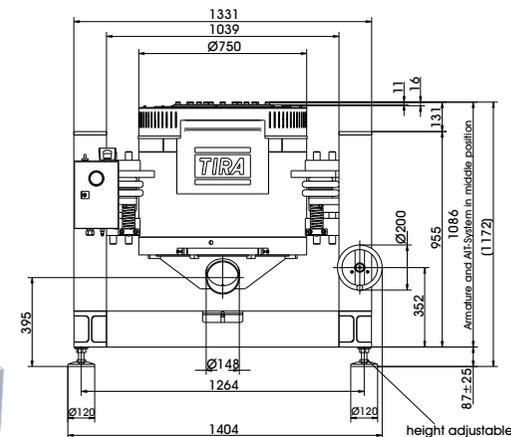


**TECHNICAL PARAMETERS** Vibration exciter S 59320/\*-640

Rated peak force Sine <sub>pk</sub> /Random <sub>RMS</sub> /Shock <sub>pk</sub> <sup>1</sup>	20000/18000/60000 N
Frequency range	5 - 2000 Hz
Main resonance frequency	> 1900 Hz
Max. displacement Peak-Peak	50.8 mm
Max. velocity Sine/Random/Shock	2.0/1.8/2.5 m/s
Max. acceleration Sine/Random/Shock <sup>1</sup>	50/46/101 g
Suspension stiffness	150 N/mm
Effective moving mass	35.0 kg
Max. weight tested	410 kg
Weight with trunnion RIT/AIT/LB*	2050/2400/1950 kg
Magn. stray field std./low degaussing	<2.5/<1 mT
Armature diameter	640 mm
Required compressed air supply	Min. 600 kPa
Interlocks	Temperature, displacement, cooling air, overcurrent, compressed air

1) theoretical maximum shock value. Depends on payload, amplifier, shock and shock width  
\* RIT, AIT or LB



Armature 640 (Standard)

**SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM**

**Scope of delivery:**  
Vibration exciter 20 kN  
Trunnion mount (AIT, RIT or LB)  
Power amplifier 22.5 kVA  
Cooling blower  
Connection cables (each 10 m)  
Power cables (10 m)  
for amplifier (CEE 63 connector)  
Blower hose Ø150 mm (5 m)  
Compressed-air hose NW 7,2 (Standard) (5 m)

**Options:**  
AIT-trunnion frame  
with integrated vibration isolation  
RIT-trunnion frame  
LB-frame  
Different hole pattern of armature  
(different pitch diameter and/or thread inserts)  
at customers request  
Low degaussing kit to further reduce stray magnetic field  
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 6 - 10 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

## TECHNICAL PARAMETERS Amplifier A 3 07 3 034

Output power <sub>RMS</sub>	22500 VA
Frequency range	DC - 4 kHz
Voltage <sub>RMS</sub> , max.	150 V
Current <sub>RMS</sub> , max.	225 A
Signal input voltage <sub>RMS</sub> (switchable)	2.5/5/10 V
Distortion	< 0.7 %
Signal to noise ratio	> 90 dB
Field voltage, max.	85 V
Field current, max.	85 A
Weight	615 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 (incl. blower)	30 KVA
Interlocks:	Overload, temperature, clipping and more
<b>Features:</b>	
High Signal to noise ratio of >90 dB	Lo-Field/Hi-Field button (Energy-saving mode)
Field supply integrated	Noise-button
Mains switch and integrated line filter	Input voltage analyzer
ESD-monitoring	Voltage clipping limiter to avoid clipping
(Protection of the system against damage)	
Field voltage/Field current variable according to customer spec.	3 Sigma peak current

## TECHNICAL PARAMETERS Cooling blower TB 8

Volume flow rate	max. 3300 m³/h
Total pressure difference	max. 5.2 kPa
Power	5.5 kW
Frequency	50 Hz
Hose diameter	150 mm
Hose length (Std.)	5 m
Weight	127 kg
Dimensions (WxHxD)	841 x 916 x 592 mm
Sound pressure level, max.	93 dB(A)
Power supply (standard)	by amplifier rack
Max. power consumption at 400 V	8 kVA
<b>Options:</b>	
Silencer TB 8-SI (Noise reduction 6 - 10 dB(A))	
Dimensions (LxD): 1200 x 340 mm	
Weight: 3.3 kg	
Acoustic enclosure TB 8-AE (Noise reduction 5 - 23 dB(A))	
Dimensions (WxHxD): 1179 x 1271 x 1094 mm	
Weight: 134 kg	
Hose length according to customers request (up to 10 m)	



Cooling blower TB 8



Silencer TB 8-SI (optional)



Acoustic enclosure TB 8-AE (optional)