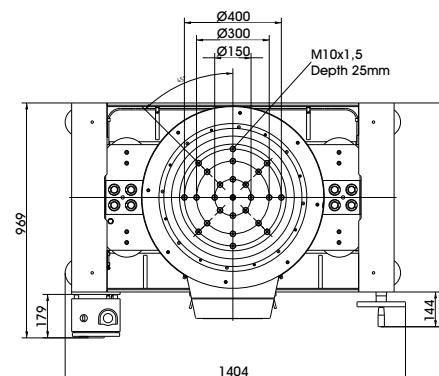
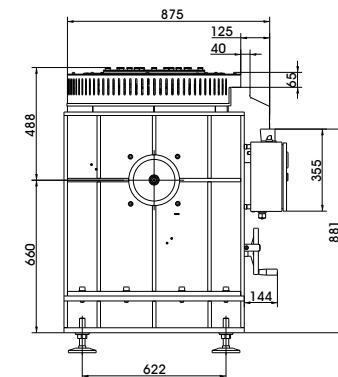
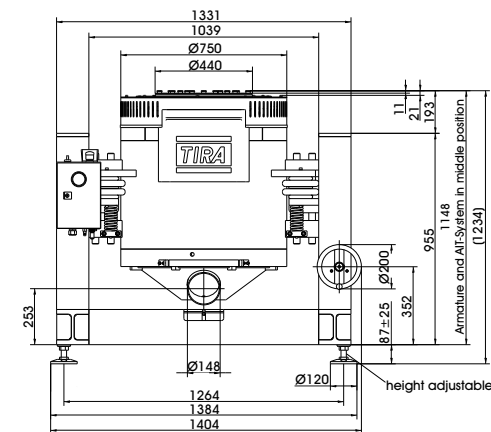


**TECHNICAL PARAMETERS** Vibration exciter S 59335/\*-440

Rated peak force Sine <sub>pk</sub> /Random <sub>RMS</sub> <sup>1</sup> /Shock <sub>pk</sub> <sup>2</sup>	35000/32000/105000 N
Frequency range	5 - 3000 Hz
Main resonance frequency	> 2400 Hz
Max. displacement Peak-Peak <sup>3</sup>	50.8 mm
Max. velocity Sine/Random/Shock	2.0/1.8/3.0 m/s
Max. acceleration Sine/Random/Shock	100/67/207 g
Suspension stiffness	150 N/mm
Effective moving mass	36.5 kg
Max. payload	610 kg
Total mass with trunnion RIT/AIT/LB*	2350/2700/2250 kg
Magn. stray field std./low degaussing <sup>4</sup>	< 1.5/< 0.8 mT
Armature diameter	440 mm
Required compressed air supply (load-dependent)	600-1000 kPa
Interlocks	Temperature, displacement, cooling air, overcurrent, compressed air

\* RIT, AIT or LB (explanation see TIRA selection guide page 7)  
 1) Random force according to ISO 5344:2004  
 2) Theoretical maximum shock value. Depends on payload, amplifier, shock and shock width  
 3) Optional displacement of 76.2 mm (3 inch) for transient applications, 63.5mm (2.5") for Sine and Random. Impact by moving to static mass and frequency is possible  
 4) measured at 150 mm above armature inserts  
 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**

<p><b>Scope of delivery:</b>                  Vibration exciter 35 kN                  Trunnion mount (AIT, RIT or LB)                  Power amplifier 37.5 kVA                  Cooling blower                  Frequency converter                  Connection cables (each 10 m)                  Power cables (each 10 m)                  for amplifier (CEE 63 connector) and cooling blower (CEE 32 connector)                  Blower hose Ø150 mm (5 m)                  Compressed-air hose NW 7,2 (Standard) (5 m)</p>	<p><b>Options:</b>                  3 inch (76.2 mm) displacement                  Dual Bearing armature                  Low degaussing kit to further reduce stray magnetic field                  Squeak&amp;Rattle (Silent operation without blower)                  Wheels&amp;Rails (incl. 3m rails)                  Airglide-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))                  Water-cooled acoustic enclosure                  for cooling blower (Noise reduction 30 dB(A))                  Cable extension                  Factory acceptance test</p>	<p><b>Options:</b>  <b>TIRA EMS</b> Energy Management System</p> <p>Operation with temperature-controlled cooling blower (and optional with variable field strength)</p> <p><b>Features:</b>                  Vibration isolation &lt; 3 Hz (AIT)                  &lt; 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</p>
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## TECHNICAL PARAMETERS Amplifier A 3 08 11 063

Output power <sub>RMS</sub>	37500 VA
Frequency range	DC - 5 kHz
Voltage <sub>RMS</sub> , max.	±212 V
Current <sub>RMS</sub> , max.	300 A
Signal input voltage	10 V
Total Harmonic Distortion (at 70A <sub>RMS</sub> , 200 Hz)	< 0.2 %
Signal to noise ratio	> 80 dB
Field voltage	105 V
Field current	75 A
Total mass	640 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	32 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

## TECHNICAL PARAMETERS Cooling blower TB 7/FUK/11

Max. volume flow rate	1920 m³/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)
<b>Switch box (fixation to wall):</b>	
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)



Frequency converter (enclosure)



Cooling blower TB 7/FUK/11



Silencer TB 7/FUK-SI (optional)



Acoustic enclosure TB 7/FUK-AE (optional)