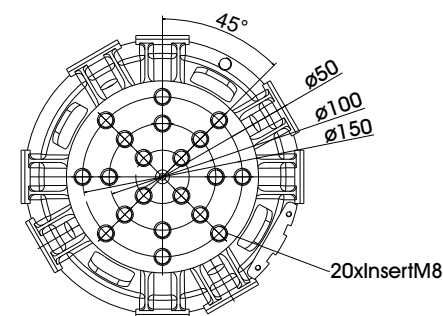
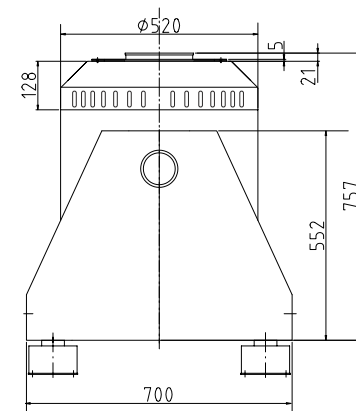
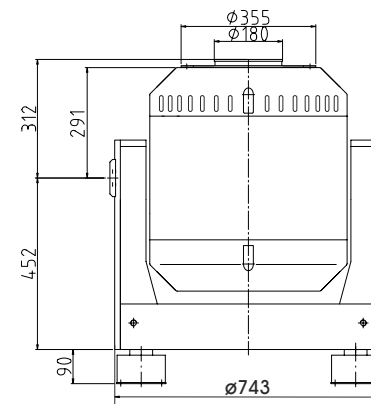


## TECHNICAL PARAMETERS Vibration exciter S 55240/LS-180

Rated peak force Sine <sub>pk</sub> /Random <sub>RMS</sub> /Shock <sub>pk</sub> <sup>1</sup>	4000/3600/12000 N
Frequency range	2-3000 Hz
Main resonance frequency	>3000 Hz
Max. displacement Peak-Peak	50.8 mm
Max. velocity Sine/Random/Shock	2.0/2.0/2.0 m/s
Max. acceleration Sine/Random/Shock <sup>1</sup>	59/50/119 g
Suspension stiffness	50 N/mm
Effective moving mass	7.1 kg
Max. weight tested	250 kg
Weight	700 kg
Magn. stray field Std./low degaussing	<1.5/<0.8 mT
Armature diameter	180 mm
Min. required compressed air supply	600 kPa
Interlocks	Temperature, displacement, cooling air, overcurrent, compressed air

<sup>1</sup>) theoretical maximum shock value. Depends on payload, amplifier, shock and shock width



Armatur 180 (Standard)

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

<p><b>Scope of delivery:</b>          Vibration exciter 4 kN          Trunnion mount          Power amplifier 11 kVA          Cooling blower          Connection cables (each 5 m)          Power cables (5 m)            for amplifier (CEE 16 connector)          Blower hose ø60 mm (5 m)          Compressed-air hose NW 7,2            (Standard) (3 m)</p>	<p><b>Options:</b>          Different hole pattern of armature (different pitch diameter and/or thread inserts) at customers request          Low degaussing kit to further reduce stray magnetic field          Squeak&amp;Rattle (Silent operation without blower)          Wheels&amp;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 up to 6 dB(A))          Acoustic enclosure for cooling blower (Noise reduction 15 - 23 dB(A))          Cable extension          Factory acceptance test</p>	<p><b>Options:</b>  <b>TIRA EMS</b> Energy Management System          Operation with temperature-controlled cooling blower (and optional with variable field strength)</p> <p><b>Features:</b>          Vibration isolation &lt; 6 Hz          Coarse filter unit          Fully automatic pneumatic load compensation          Automatic centering of the armature          Degauss kit to reduce stray magnetic field          Made in Germany          Servicehotline</p>
--	--	--

## TECHNICAL PARAMETERS Amplifier A 1 01 1 011

Output power <sub>RMS</sub>	11 000 VA
Frequency range	DC - 4 kHz
Voltage <sub>RMS</sub> , max.	105 V
Current <sub>RMS</sub> , max.	100 A
Signal input voltage <sub>RMS</sub> (switchable)	2.5/5/10 V
Distortion	< 0.5 %
Signal to noise ratio	> 90 dB
Field voltage, max.	180 V
Field current, max.	6 A
Weight	250 kg
Dimensions (WxHxD)	600 x 1800 x 800 mm
Power supply (Standard)	3~ / N / PE 400 V±5% 50 Hz, CEE 16
Recommended fuse protection (Standard)	16 A slow
Max. power consumption at 400 V (incl. blower)	7.7 kVA
Interlocks:	Overload, temperature, clipping and more
<b>Features:</b>	
High Signal to noise ratio of >90 dB	Noise-button
Field supply integrated	Input voltage analyzer
Mains switch and integrated line filter	Voltage clipping limiter to avoid clipping
ESD-monitoring (Protection of the system against damage)	3 Sigma peak current
Field voltage/Field current variable according to customer spec.	

## TECHNICAL PARAMETERS Cooling blower TB 0310

Volume flow rate	max. 315 m³/h
Total pressure difference	max. 290 mbar
Power	4 kW
Frequency	50 Hz
Hose diameter	60 mm
Hose length (Std.)	5 m
Weight	42 kg
Dimensions (WxHxD)	382 x 384 x 432 mm
Sound pressure level, max.	max. 69 dB(A)
Power supply (standard)	by amplifier rack
Max. power consumption at 400 V	5 kVA

### Options:

Silencer TB 0310-SI (Noise reduction up to 6 dB(A))	
Dimensions (LxD): 308 x 82 mm	
Weight: 0.58 kg	
Acoustic enclosure TB 0310-AE (Noise reduction 15 - 23 dB(A))	
Dimensions (WxHxD): 795 x 841 x 836 mm	
Weight: 55 kg	
Hose length according to customers request (up to 10 m)	



Cooling blower TB 0310



Silencer TB 0310-SI (optional)



Acoustic enclosure TB 0310-AE (optional)