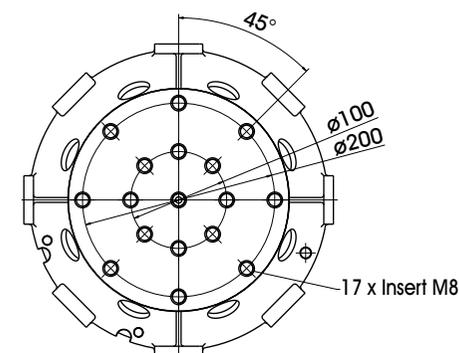
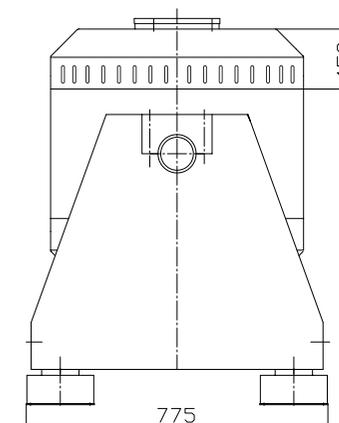
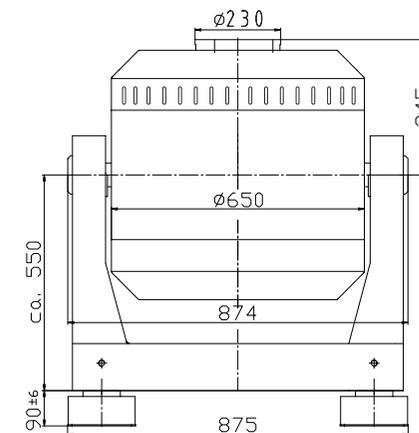


TECHNICAL PARAMETERS Vibration exciter S 51010/LS-230

Rated peak force Sine _{pk} /Random _{RMS} /Shock _{pk} ¹	11 000/11 000/33 000 N
Frequency range	2-3000 Hz
Main resonance frequency	>2300 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	85/65/200 g
Suspension stiffness	75 N/mm
Effective moving mass	13 kg
Max. weight tested	250 kg
Weight	1100 kg
Magn. stray field Std./low degaussing	<1.5/<0.8 mT
Armature diameter	230 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 230 (Standard)

SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

<p>Scope of delivery:</p> <ul style="list-style-type: none"> Vibration exciter 11 kN Trunnion mount Power amplifier 15 kVA Cooling blower Connection cables (each 5 m) Power cables (5 m) for amplifier (CEE 63 connector) Blower hose ø140 mm (5 m) Compressed-air hose NW 7,2 (Standard) (3 m) 	<p>Options:</p> <ul style="list-style-type: none"> 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&Rattle (Silent operation without blower) Wheels&Rails (incl. 3m rails) Thermobarrier (-40°C to +140°C) Chamber leadthrough Climatic chamber support kit Remote control (Software) Silencer <ul style="list-style-type: none"> for cooling blower (Noise reduction 3 - 6 dB(A)) Acoustic enclosure <ul style="list-style-type: none"> for cooling blower (Noise reduction 5 - 23 dB(A)) Cable extension Factory acceptance test 	<p>Options:</p> <p>TIRA EMS Energy Management System</p> <p>Operation with temperature-controlled cooling blower (and optional with variable field strength)</p> <p>Features:</p> <ul style="list-style-type: none"> Vibration isolation < 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
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TECHNICAL PARAMETERS Amplifier A 1 01 3 023

Output power _{RMS}	15000 VA
Frequency range	DC - 4 kHz
Voltage _{RMS} , max.	150 V
Current _{RMS} , max.	150 A
Signal input voltage _{RMS} (switchable)	2.5/5/10 V
Distortion	< 0.7 %
Signal to noise ratio	> 90 dB
Field voltage, max.	140 V
Field current, max.	8 A
Weight	330 kg
Dimensions (WxHxD)	600 x 1800 x 800 mm
Power supply (Standard)	3~ / N / PE 400 V±5% 50 Hz, CEE 63
Recommended fuse protection (Standard)	50 A slow
Max. power consumption at 400 V (incl. blower)	22 kVA
Interlocks:	Overload, temperature, clipping and more
Features:	
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	3 Sigma peak current
(Protection of the system against damage)	
Field voltage/Field current variable according to customer spec.	

TECHNICAL PARAMETERS Cooling blower TB 120 FUK

Max. volume flow rate	1500 m³/h
Total pressure difference	10.2 kPa
Motor output	5.5 kW
Max. frequency	100 Hz
Hose diameter	140 mm
Hose length (Std.)	5 m
Weight	61 kg
Dimensions (WxHxD)	487 x 637 x 487 mm
Max. sound pressure level	102 dB(A)
Power supply (standard)	by amplifier rack
Max. power consumption at 400 V	7 kVA
Options:	
Silencer TB 120-SI (Noise reduction 3 - 6 dB(A))	
Dimensions (LxD): 1100 x 160 mm	
Weight: 1.2 kg	
Acoustic enclosure TB 120-AE (Noise reduction 5 - 23 dB(A))	
Dimensions (WxHxD): 1094 x 1086 x 1000 mm	
Weight: 134 kg	
Hose length according to customers request (up to 10 m)	



Cooling blower TB 120 FUK



Silencer TB 120-SI (optional)



Acoustic enclosure TB 120-AE (optional)