

TECHNICAL PARAMETERS Vibration exciter S 57315/LS-230

Rated peak force $S_{pk}/Random/Shock_{pk}^1$	15000/13000/45000 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	115/80/230 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

SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:

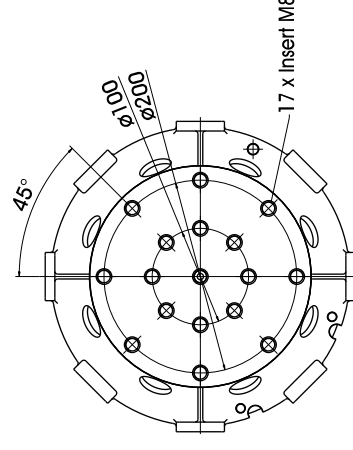
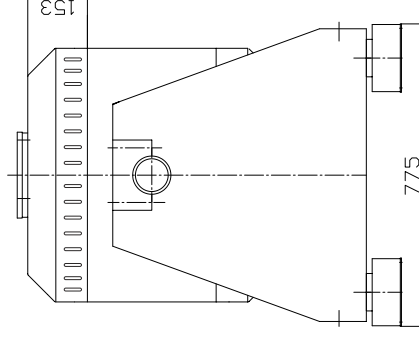
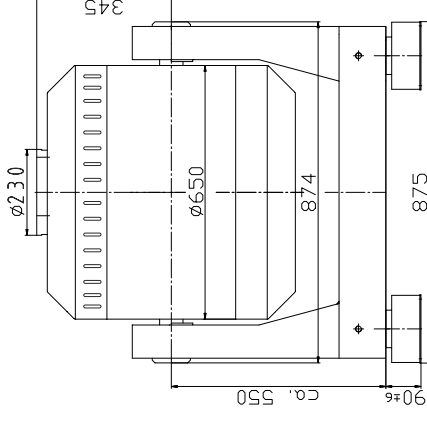
- Vibration exciter 15 kN
- Swivel frame
- Power amplifier 34 kVA
- Cooling blower
- Connection cables (each 5 m)
- Power cables (5 m) for amplifier (CEE 63 connector)
- Blower hose $\varnothing 100$ mm (5 m)
- Compressed-air hose NW 7,2 (Standard) (3 m)

Options:

- 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 for cooling blower (Noise reduction 3 - 6 dB(A))
- Acoustic enclosure for cooling blower (Noise reduction 5 - 23 dB(A))
- Cable extension
- Factory acceptance test

Features:

- Vibration isolation < 6 Hz
- Coarse filter unit
- Fully automatic pneumatic load compensation
- Automatic centering of the armature
- Degauss kit to reduce stray magnetic field
- Integrated mains switch and line filter
- Integrated field power supply
- Noise-button
- Input voltage analyzer
- Voltage clipping limiter to avoid clipping
- 3 Sigma Peak current
- Made in Germany
- Servicehotline



Armature 230 (Standard)

TECHNICAL PARAMETERS Amplifier A 3 01 3 034

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 (incl. blower)
Interlocks:

34000 VA
DC - 4 kHz
150 V
225 A
1 Ohm
2.5/5/10 V
< 0.7 %
> 90 dB
140 V
8 A
515 kg
600 x 2200 x 800 mm
3~ / N / PE 400 V ±5% 50 Hz, CEE 63
63 A slow
27 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.

Noise-button
Input voltage analyzer
Voltage clipping limiter to avoid
clipping
3 Sigma peak current

TECHNICAL PARAMETERS Cooling blower TB 120

Volume flow rate
Total pressure difference
Power
Frequency
Hose diameter
Hose length (Std.)
Weight
Dimensions (WxHxD)
Sound pressure level, max.
Power supply (standard)
Max. power consumption at 400 V

max. 1140 m³/h
max. 28 kPa
11.5 kW
50 Hz
100 mm
5 m
131 kg
600 x 636 x 701 mm
max. 87 dB(A)
by amplifier rack
1.6 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 customer's request (up to 10 m)



Cooling blower TB 120

Silencer TB 120-SI
(optional)Acoustic enclosure TB 120-AE
(optional)