

Modal Longstroke Vibration Test System TV 57315-M/LSS

TECHNICAL PARAMETERS Modal exciter S 57315-M/LSS

		Metric	US
Rated peak force (N)/(lbf)	Sine/Random	15000/15000	3370/3370
Frequency range (Hz)		DC-2000	DC-2000
Main resonance frequency (Hz)		>2500	>2500
Max. displacement (mm)/(inch)	Peak-Peak	102	4.0
	Overtravel	107	4.21
	Mechanical stop	112	4.41
Max. velocity (m/s)/(inch/sec)	Sine/Random	3.0/3.0	118/118
Suspension stiffness		Electronically adjustable	Electronically adjustable
Effective moving mass (kg)/(lb)		18	39.7
Weight with trunnion (kg)/(lb)		1500	3307
Magnetic stray field (mT)	without/with degauss kit	<20/<1	<20/<1
Coupling (Thread ø)		M10	M10
Interlocks		Temperature monitoring, displacement monitoring, monitoring of cooling air amount, overcurrent protection	Temperature monitoring, displacement monitoring, monitoring of cooling air amount, overcurrent protection



SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:

Modal exciter 15 kN
Swivel frame
Power amplifier 34 kVA
Cooling blower
Connection cables (each 5 m(16.4 ft))
Power cables (each 5 m(16.4 ft))
for amplifier (CEE 63 connector)
Blower hose ø100 mm (5 m(16.4 ft))

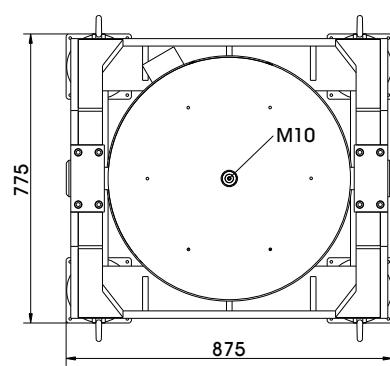
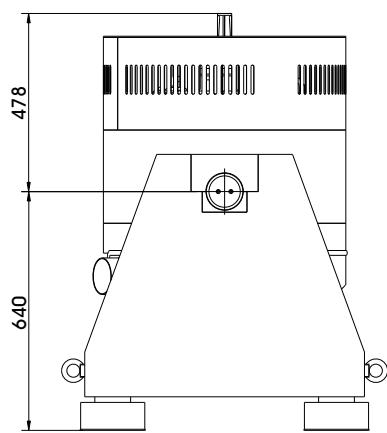
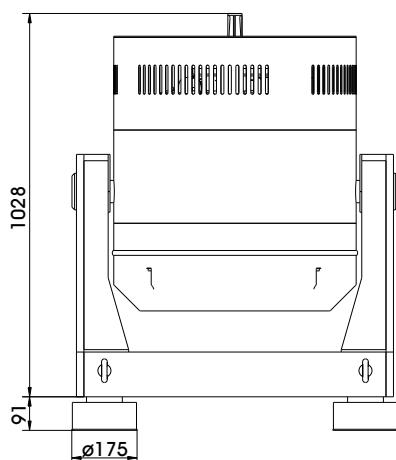
Options:

Degauss kit to reduce stray magnetic field
Wheels&Rails (incl. 3m(9.8 ft) rails)
Squeak&Rattle (Silent operation without blower)
Remote control (Hardware or 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
Filter for cooling air
Fully automatic electronic load compensation
Automatic centering of the armature
Integrated mains switch and line filter
Integrated field power supply
Noise-button
Input voltage analyzer
Voltage clipping limiter to avoid clipping
3 Σ Peak current
Made in Germany
Servicehotline

S 57315-M/LSS (Example drawing) - Dimensioning in mm



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TECHNICAL PARAMETERS Power Amplifier A 3 01 3 030 T

Continuous sine power rating	34000 VA
Frequency range	DC-4 kHz
Voltage, max.	150 V
Current, max.	225 A
Load resistance, opt.	1 Ohm
Signal input voltage (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	515 kg (1135.4 lb)
Dimensions (WxHxD)	600 x 2200 x 800 mm (23.6 x 86.6 x 31.5 inch)
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)	38 kVA
Interlocks:	Overload, temperature, clipping and more
Features:	
High Signal to noise ratio of >90 dB	
Protection rating min. IP 20	
Integrated field power supply	
Mains switch	
Integrated line filter	
ESD-monitoring (Protection of the system against damage)	
Noise-button	
Input voltage analyzer	
Voltage clipping limiter to avoid clipping	
3 Σ Peak current	
Field voltage/Field current variable according to customer specification	
Fully automatic electronic zero-point regulation (TIRA Middle Control = TMC) with the possibility of manual adjustment of zero-point and axial stiffness	



TECHNICAL PARAMETERS Cooling blower SD 120

Volume flow rate	max. 19 m³/min (671 ft³/min)
Total pressure difference	max. 28 kPa (4.06 psi)
Engine rpm	2925 min⁻¹
Power	11.5 kW
Frequency	50/60 Hz
Hose diameter	100 mm (3.94 inch)
Hose length (Std.)	5 m (197 inch)
Weight	131 kg (229.3 lb)
Dimensions (WxHxD)	600 x 636 x 701 mm (23.6 x 25.0 x 27.6 inch)
Sound pressure level, max.	max. 87 dB(A)
Power supply (standard)	by amplifier rack
Max. power consumption at 400 V	16 kVA



Cooling blower SD 120



Acoustic enclosure (optional)