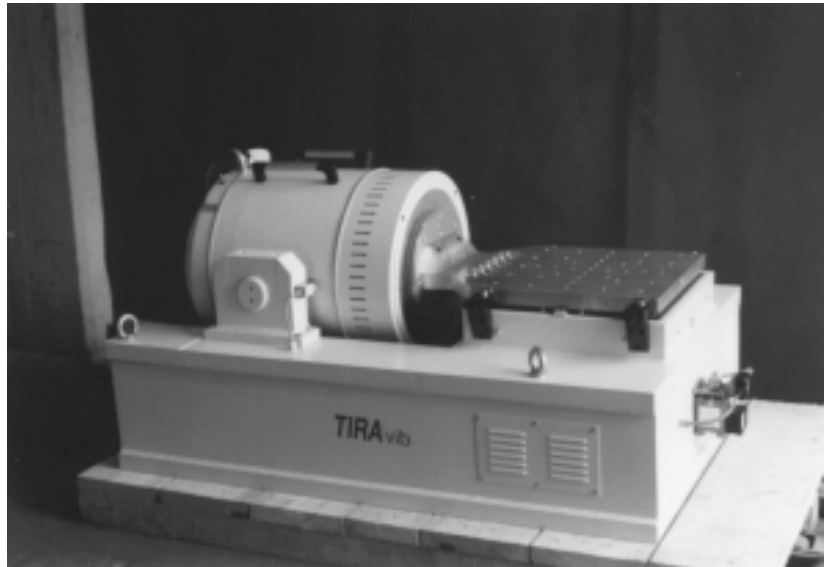


TIRAvib

Vibration generator with Armaturesize of 330 mm

TIRAvib 56263/LS-330
TIRAvib 5880/LS-330

TIRAvib 51010/LS-330
TIRAvib 57315/LS-330



➤ **Model TV 56263/LS-330:**

Sine: 6300 N (642 kgf);
Random: 6300 N (642 kgf);
Shock: 12600 N (1284 kgf);
Displacement: 50.8mm

➤ **Model TV 5880/LS-330:**

Sine: 8000 N (815 kgf);
Random: 8000 N (815 kgf);
Shock: 16000 N (815 kgf);
Displacement: 50.8mm

➤ **Model TV 51010/LS-330:**

Sine: 11000 N (1121 kgf);
Random: 11000 N (1121 kgf);
Shock: 22000 N (2242 kgf);
Displacement: 50.8mm

➤ **Model TV 57315/LS-330:**

Sine: 15000 N (1529 kgf);
Random: 15000 N (1529 kgf);
Shock: 30000 N (3058 kgf);
Displacement: 50.8mm

➤ **automatic load compensation**

➤ **air cooled**

DESCRIPTION

The vibration generators TV 56263/LS-330, TV 5880/LS-330, TV 51010/LS-330 and TV 57315/LS-330 reproduce environmental conditions over a very wide frequency band.

The vibration generator operates in sine, random and shock mode under controlled conditions. Several features make the vibration generators an ideal testing instrument for use in the field of quality assurance and R&D in laboratories.

TIRA vibration generators are designed for continuous operation. They are fitted with a light weight rugged magnesium armature and a tested and proven suspension system which provides excellent lateral and rotational restraint as well as axial stiffness.

TIRA designed with a Armaturesize of 330 mm an big mounting table for large test samples.

The digital power amplifiers are provided with protection interlocks which guarantee the rated performance of the complete system.

The LS version of the generator enables Shock-testing of up to 51 mm displacement to be carried out.

Digital Vibration Control systems offer the user sophisticated, powerful DSP hardware with a full range of sine, random, shock and mixed mode software complete with a graphical display unit.

TIRA's fully equipped package enables customers to test under all national and international standards such as DIN, ASTM, BS, MIL, IEC, etc...

POWER AMPLIFIER

FOR TIRAvib 56263/LS-330

sine continuous rating 12000 VA
voltage 110 V
current 110 A
distortion < 1 %
weight 200 kg
size (WxHxD) 600x2100x850mm

FOR TIRAvib 51010/LS-330

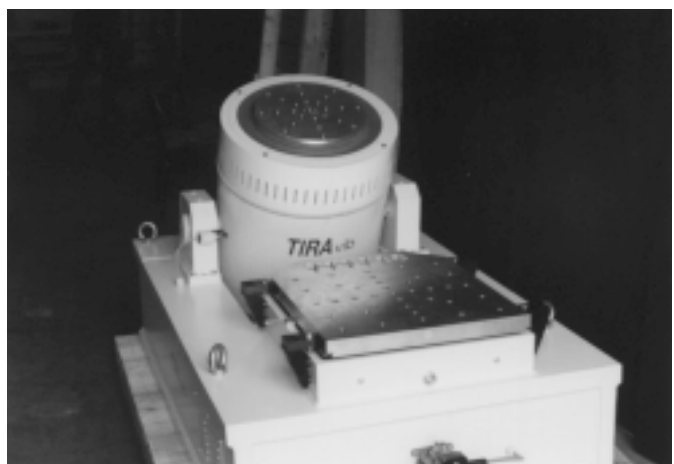
sine continuous rating 18000 VA
voltage 110 V
current 165 A
distortion < 1 %
weight 300 kg
size (WxHxD) 600x2100x850mm

FOR TIRAvib 5880/LS-330

sine continuous rating 18000 VA
voltage 110 V
current 165 A
distortion < 1 %
weight 300 kg
size (WxHxD) 600x2100x850mm

FOR TIRAvib 57315/LS-330

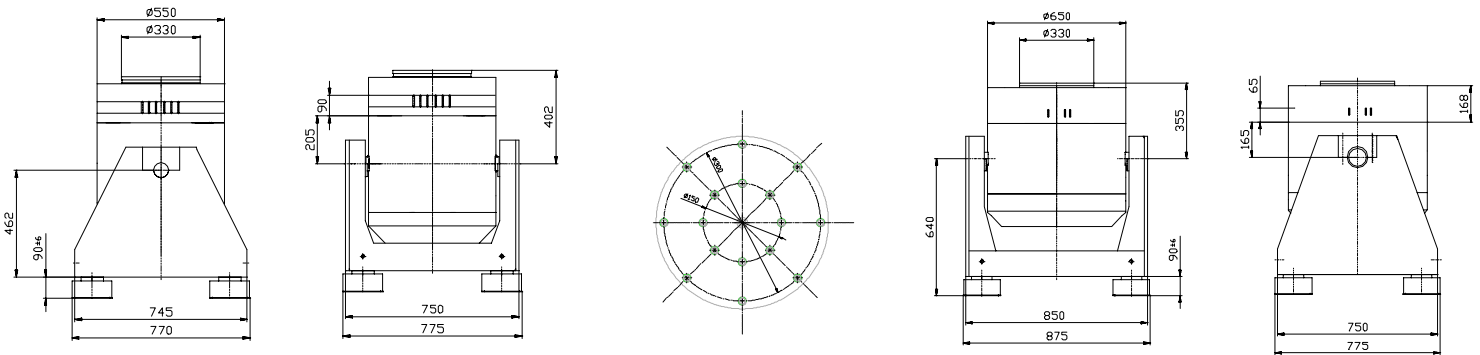
sine continuous rating 30000 VA
voltage 110 V
current 275 A
distortion < 1 %
weight 350 kg
size (WxHxD) 600x2100x850mm



Technical Specification

System		TV 56263/LS-330	TV 5880/LS-330	TV 51010/LS-330	TV 57315/LS-330
Shaker		S 561/LS-330	TV 5800/LS-330	TV 51000/LS-330	S 572/LS-330
Amplifier		A 52312	A 52318	A 53318	A 53330
Rated peak force (N)	Sine/Random/Shock	6300/6300/12600	8000/8000/16000	11000/11000/22000	15000/15000/30000
Frequency range (Hz)		DC - 3000	DC - 3000	DC - 3000	DC - 3000
Max. rated travel (mm)	Pk - Pk	50.8	50.8	50.8	50.8
Max. velocity (m/s)	Sine/Random/Shock	1.7/1.7/2.5	1.7/1.7/2.5	1.8/1.8/2.5	1.8/1.8/2.5
Max. acceleration (g)	Sine/Random/Shock	76/76/152	88/88/176	90/90/180	102/102/204
Rated current (A)		90	140	140	150
Nominal impedance (Ohm)		0.5	0.5	0.5	0.5
Suspension Stiffness (N/mm)		50	50	75	75
Effective moving mass (kg)		8.5	9.3	12.5	15
Max. weight tested (kg)		150	150	150	250
Main resonance frequency (Hz)		>2500	>2500	> 2000	>2000
Weight (with trunnion) (kg)		1000	1000	1450	1450
Stray magnetic field (mT)	without/with degauss kit	<8.5/<0.5	<8.5/<0.5	<8.5/<0.5	<20/<0.5
Armature (ø/mm)		330	330	330	330
Cooling (m³/h)		500	500	500	510
Interlocks		Temperature	Temperature	Temperature	Temperature
		Overtravel	Overtravel	Overtravel	Overtravel
		Airflow	Airflow	Airflow	Airflow

DIMENSIONS



MANUFACTURER



- ◆ MEASURING
- ◆ TESTING
- ◆ BALANCING
- ◆ CNC

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PRODUCT RANGE

- Shaker 9 N - 245 kN
- Servohydraulic up to 1000 kN
- Longstroke systems up to 600 mm
- Amplifier, digital / analog
- Modal shaker
- Vibrations control system
- Sine, Random, Shock, Mixed mode
- Oil film slip table for horizontal test
- Climate and temperature system
- Headexpander and special construction