



SALE OF VIBRATION EQUIPMENT | TESTING SERVICES | MULTI-BRAND MAINTENANCE

Vibration Test System :

20 to 60kN

Solutions tailored to testing large-scale systems and equipment

With forces ranging from 20 to 60 kN, our shakers are designed to meet the testing requirements of large-scale systems and equipment. They enable qualification, characterisation and validation tests to be carried out, particularly in the aerospace, automotive and rail sectors.

Robust and high-performance, these solutions enable the reproduction of representative vibration environments with high stress levels.

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Vibration test system 32kN

Specification

V3.8

ECON

EDM-3200-D323A

Electro-dynamic Vibration Testing System (Air Cooled)

Features

- Double field coil design to reinforce uniform magnetic field
- Standard IOT (Isolator on Trunnion) design to enhance cross axial stiffness and give flexible full displacement at low frequencies and heavy loads
- Equipped with fully automatic centering control (ACC) on all models
- Fully automatic pneumatic load compensation for heavy test loads
- Standard degauss kit to reduce magnetic flux leakage
- Latest SiC-FET technique based, modularized power module with higher switching frequency range, SNR and more safety
- Smarter remote control on power amplifier thru Ethernet connectivity
- System MTBF > 6,000 Hours, long-time operation with minimum maintenance
- Optional foundation-free design to save cost to build specific foundation
- Optional head expander, slip table, chamber thermal barrier

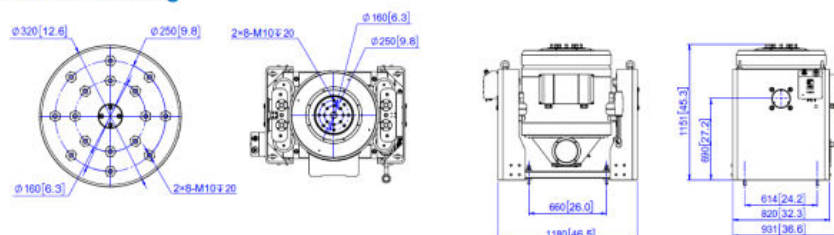


Performances

Shaker Model	EDM-3200
Rated Sine Force	32 kN
Random Force (rms)	22.4 kN
Shock Force	64 kN
Usable Frequency Range	5-2,500 Hz (1)
Max. Displacement (p-p)	51 mm
Max. Velocity	2.0 m/s
Max. Acceleration (sine, bare table)	981 m/s ²
Max. Load	500 kg
Armature Diameter	320 mm
Effective Moving Elements Mass	32 kg
Armature Fundamental Resonance	2,100 Hz (Bare table, ±5%)
Body Suspension Natural Frequency	<3 Hz
Overtuning Movement	>500 Nm
Magnetic Flux Leakage	<5 mT (2)
Load Attachment Points	16xM10
Armature Insert Pattern	8x160 mm, 8x250 mm
Dimension (W×D×H, without slip table)	1180×931×1151 mm
Weight (without slip table)	2,500 kg
Working Environment	
Temperature	0~40 °C
Humidity (RH, non-condensing)	10~90%
Power Supply Requirement	3-phase 380V/50Hz (3)
Max. Power Consumption	65 kVA
Earthing Impedance Requirement	≤4Ω
Compressed Air Requirement	0.6 Mpa

Power Amplifier Model	VSA-D323A
Amplifier Type	Digital Switching
Power Module	SiC-FET
Remote Control	Ethernet+Software
Rated Power Output	32 kVA
Max. Output Voltage	120 Vrms
Max. Output Current	280 Arms
Switching Frequency	400 kHz
Signal to Noise Ratio	>70 dB
Conversion Efficiency	>93%
Frequency Response	±1.5 dB (5-5,000Hz), ±3 dB (DC-5,000Hz)
Harmonic Distortion	<0.8% (5-5,000Hz)
Parallel Operation Current Unbalanceness	≤1.0%
Operation	Touch Screen (7")
Interlocks and Protection	voltage, current, travel, temperature cooling, module failure, etc
Dimension (W×D×H)	600×940×1965 mm
Weight	660 kg
Air Blower Model	
PBL-W30	
Blower Power	7.5 kW
Air Flow, Pressure	0.66 m ³ /s, 0.06 kgf/cm ²
Hose Diameter	200 mm
Dimension (W×D×H)	854×638×1434 mm
Weight	162 kg
Accessories (standard)	
Wires/Hose Length	6 m (4)
Accessories	Center Ruler, Dust Cover, Installation Tools

Outline Drawing



Notes

- (1) This is sine working frequency defined as per standard ISO 5344. Sine working frequency can start from 2Hz, and Random working frequency can start from 1Hz.
- (2) Degaussing coil (magnetic flux leakage <1mT) is optionally available.
- (3) Power supply can be customized as per standard of different countries/area.
- (4) Electricity wires/cables length can be customized as per request.



Vibration test system 40kN

Specification

V4.0

ECON

EDM-4000-D483A

Electro-dynamic Vibration Testing System (Air Cooled)

Features

- Double field coil design to reinforce uniform magnetic field
- Standard IOT (Isolator on Trunnion) design to enhance cross axial stiffness and give flexible full displacement at low frequencies and heavy loads
- Equipped with fully automatic centering control (ACC) on all models
- Fully automatic pneumatic load compensation for heavy test loads
- Standard degauss kit to reduce magnetic flux leakage
- Latest SiC-FET technique based, modularized power module with higher switching frequency range, SNR and more safety
- Smarter remote control on power amplifier thru Ethernet connectivity
- System MTBF > 6,000 Hours, long-time operation with minimum maintenance
- Optional foundation-free design to save cost to build specific foundation
- Optional head expander, slip table, chamber thermal barrier

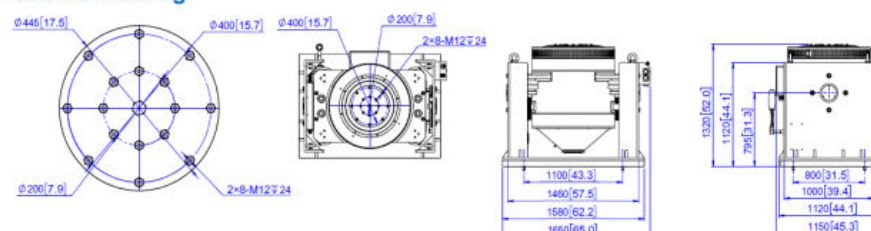


Performances

Shaker Model	EDM-4000
Rated Sine Force	40 kN
Random Force (rms)	28kN
Shock Force	80 kN
Usable Frequency Range	5-2,500 Hz (1)
Max. Displacement (p-p)	51 mm
Max. Velocity	2.0 m/s
Max. Acceleration (sine, bare table)	800 m/s ²
Max. Load	1,000 kg
Armature Diameter	445 mm
Effective Moving Elements Mass	50 kg
Armature Fundamental Resonance	2,000 Hz
	(Bare table, ±5%)
Body Suspension Natural Frequency	<3 Hz
Overturning Movement	>1,000 Nm
Magnetic Flux Leakage	<5 mT (2)
Load Attachment Points	16xM12
Armature Insert Pattern	8x200 mm, 8x400 mm
Dimension (W×D×H, without slip table)	1650×1150×1320 mm
Weight (without slip table)	5,365 kg
Working Environment	
Temperature	0~40 °C
Humidity (RH, non-condensing)	10~90%
Power Supply Requirement	3-phase 380V/50Hz (3)
Max. Power Consumption	80 kVA
Earthing Impedance Requirement	≤4Ω
Compressed Air Requirement	0.6 Mpa

Power Amplifier Model	VSA-D483A
Amplifier Type	Digital Switching
Power Module	SiC-FET
Remote Control	Ethernet+Software
Rated Power Output	48 kVA
Max. Output Voltage	120 Vrms
Max. Output Current	420 Arms
Switching Frequency	400 kHz
Signal to Noise Ratio	>70 dB
Conversion Efficiency	>93%
Frequency Response	±1.5 dB (5-5,000Hz), ±3 dB (DC-5,000Hz)
Harmonic Distortion	<0.8% (5-5,000Hz)
Parallel Operation Current Unbalanceness	≤1.0%
Operation	Touch Screen (7")
Interlocks and Protection	voltage, current, travel, temperature cooling, module failure, etc
Dimension (W×D×H)	600×940×1965 mm
Weight	820 kg
Air Blower Model	
PBL-W40	
Blower Power	22 kW
Air Flow, Pressure	1.36 m ³ /s, 0.09 kgf/cm ²
Hose Diameter	200 mm
Dimension (W×D×H)	1075×871×1950 mm
Weight	394 kg
Accessories (standard)	
Wires/Hose Length	6 m (4)
Accessories	Center Ruler, Dust Cover, Installation Tools

Outline Drawing



Notes

- (1) This is sine working frequency defined as per standard ISO 5344. Sine working frequency can start from 2Hz, and Random working frequency can start from 1Hz.
- (2) Degaussing coil (magnetic flux leakage <1mT) is optionally available.
- (3) Power supply can be customized as per standard of different countries/area.
- (4) Electricity wires/cables Length can be customized as per request.



Specification

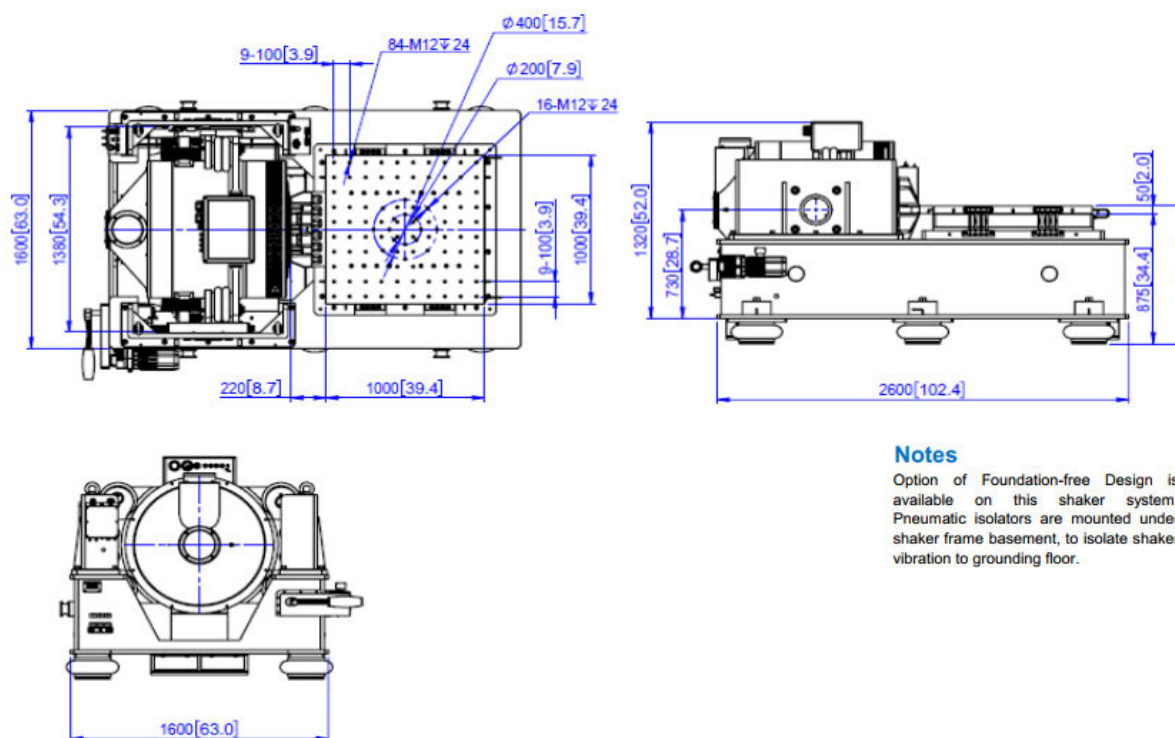
V4.0



EDM-4000-ST1000M

Electro-dynamic Vibration Testing System (Air Cooled)

Outline Drawing



Notes

Option of Foundation-free Design is available on this shaker system. Pneumatic isolators are mounted under shaker frame basement, to isolate shaker vibration to grounding floor.

Performances

Slip Table Model	ST-1000M
Working Mode	Monobase
Slip Plate Dimension	1000x1000 mm
Slip Plate Material	Magnesium
Slip Plate Thickness	50 mm
Slip Plate Pattern Holes	80xM12, Grid 100x100 mm
Usable Frequency	2,000 Hz
Slip Plate Mass (including drive bar and guidances)	120 kg
Max. Load	500 kg
Dimension (with shaker, W×D×H)	2600×1600×1320 mm
Weight	7,800 kg

Head Expander Model (optional)	HE-1000SM
Shape	Square
Head Expander Diameter	1000x1000 mm
Head Expander Material	Magnesium
Insert Pattern Holes	80xM12, Grid 100x100 mm
Usable Frequency	900 Hz (sine) 2,000 Hz (random)
Weight	105 kg



Vibration test system 50kN

Specification

V3.8

ECON

EDM-5000-D563A

Electro-dynamic Vibration Testing System (Air Cooled)

Features

- Double field coil design to reinforce uniform magnetic field
- Standard IOT (Isolator on Trunnion) design to enhance cross axial stiffness and give flexible full displacement at low frequencies and heavy loads
- Equipped with fully automatic centering control (ACC) on all models
- Fully automatic pneumatic load compensation for heavy test loads
- Standard degauss kit to reduce magnetic flux leakage
- Latest SiC-FET technique based, modularized power module with higher switching frequency range, SNR and more safety
- Smarter remote control on power amplifier thru Ethernet connectivity
- System MTBF > 6,000 Hours, long-time operation with minimum maintenance
- Optional foundation-free design to save cost to build specific foundation
- Optional head expander, slip table, chamber thermal barrier

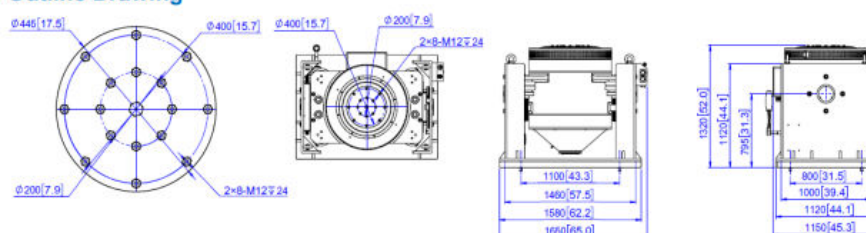


Performances

Shaker Model	EDM-5000
Rated Sine Force	50 kN
Random Force (rms)	35 kN
Shock Force	100 kN
Usable Frequency Range	5-2,500 Hz (1)
Max. Displacement (p-p)	51 mm
Max. Velocity	2.0 m/s
Max. Acceleration (sine, bare table)	981 m/s ²
Max. Load	1,000 kg
Armature Diameter	445 mm
Effective Moving Elements Mass	50 kg
Armature Fundamental Resonance	2,000 Hz
	(Bare table, ±5%)
Body Suspension Natural Frequency	<3 Hz
Overtuning Movement	>1,000 Nm
Magnetic Flux Leakage	<5 mT (2)
Load Attachment Points	16xM12
Armature Insert Pattern	8x200 mm, 8x400 mm
Dimension (W×D×H, without slip table)	1650×1150×1320 mm
Weight (without slip table)	4,995 kg
Working Environment	
Temperature	0~40 °C
Humidity (RH, non-condensing)	10~90%
Power Supply Requirement	3-phase 380V/50Hz (3)
Max. Power Consumption	90 kVA
Earthing Impedance Requirement	≤4Ω
Compressed Air Requirement	0.6 Mpa

Power Amplifier Model	VSA-D563A
Amplifier Type	Digital Switching
Power Module	SiC-FET
Remote Control	Ethernet+Software
Rated Power Output	56 kVA
Max. Output Voltage	120 Vrms
Max. Output Current	490 Arms
Switching Frequency	400 kHz
Signal to Noise Ratio	>70 dB
Conversion Efficiency	>93%
Frequency Response	±1.5 dB (5-5,000Hz), ±3 dB (DC-5,000Hz)
Harmonic Distortion	<0.8% (5-5,000Hz)
Parallel Operation Current Unbalanceness	≤1.0%
Operation	Touch Screen (7")
Interlocks and Protection	voltage, current, travel, temperature cooling, module failure, etc
Dimension (W×D×H)	600×940×1965 mm
Weight	820 kg
Air Blower Model	
PBL-W50	
Blower Power	22 kW
Air Flow, Pressure	1.36 m ³ /s, 0.09 kgf/cm ²
Hose Diameter	200 mm
Dimension (W×D×H)	1075×871×1950 mm
Weight	394 kg
Accessories (standard)	
Wires/Hose Length	6 m (4)
Accessories	Center Ruler, Dust Cover, Installation Tools

Outline Drawing



Notes

- (1) This is sine working frequency defined as per standard ISO 5344. Sine working frequency can start from 2Hz, and Random working frequency can start from 1Hz.
- (2) Degaussing coil (magnetic flux leakage <1mT) is optionally available.
- (3) Power supply can be customized as per standard of different countries/areas.
- (4) Electricity wires/cables Length can be customized as per request.



Vibration test system 60kN – G643A

Specification

V3.8

ECON

EDM-6000-D643A

Electro-dynamic Vibration Testing System (Air Cooled)

Features

- Double field coil design to reinforce uniform magnetic field
- Standard IOT (Isolator on Trunnion) design to enhance cross axial stiffness and give flexible full displacement at low frequencies and heavy loads
- Equipped with fully automatic centering control (ACC) on all models
- Fully automatic pneumatic load compensation for heavy test loads
- Standard degauss kit to reduce magnetic flux leakage
- Latest SiC-FET technique based, modularized power module with higher switching frequency range, SNR and more safety
- Smarter remote control on power amplifier thru Ethernet connectivity
- System MTBF > 6,000 Hours, long-time operation with minimum maintenance
- Optional foundation-free design to save cost to build specific foundation
- Optional head expander, slip table, chamber thermal barrier

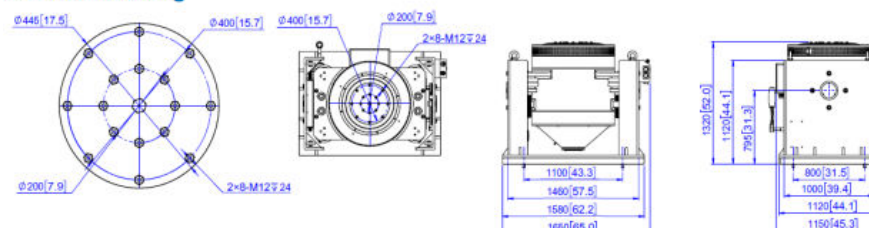


Performances

Shaker Model	EDM-6000
Rated Sine Force	60 kN
Random Force (rms)	42 kN
Shock Force	120 kN
Usable Frequency Range	5-2,500 Hz (1)
Max. Displacement (p-p)	51 mm
Max. Velocity	2.0 m/s
Max. Acceleration (sine, bare table)	981 m/s ²
Max. Load	1,000 kg
Armature Diameter	445 mm
Effective Moving Elements Mass	60 kg
Armature Fundamental Resonance	2,000 Hz
	(Bare table, ±5%)
Body Suspension Natural Frequency	<3 Hz
Overtuning Movement	>1,000 Nm
Magnetic Flux Leakage	<5 mT (2)
Load Attachment Points	16xM12
Armature Insert Pattern	8x200 mm, 8x400 mm
Dimension (W×D×H, without slip table)	1650×1150×1320 mm
Weight (without slip table)	5,200 kg
Working Environment	
Temperature	0~40 °C
Humidity (RH, non-condensing)	10~90%
Power Supply Requirement	3-phase 380V/50Hz (3)
Max. Power Consumption	100 kVA
Earthing Impedance Requirement	≤4Ω
Compressed Air Requirement	0.6 Mpa

Power Amplifier Model	VSA-D643A
Amplifier Type	Digital Switching
Power Module	SiC-FET
Remote Control	Ethernet+Software
Rated Power Output	64 kVA
Max. Output Voltage	120 Vrms
Max. Output Current	560 Arms
Switching Frequency	400 kHz
Signal to Noise Ratio	>70 dB
Conversion Efficiency	>93%
Frequency Response	±1.5 dB (5-5,000Hz), ±3 dB (DC-5,000Hz)
Harmonic Distortion	<0.8% (5-5,000Hz)
Parallel Operation Current Unbalanceness	≤1.0%
Operation	Touch Screen (7")
Interlocks and Protection	voltage, current, travel, temperature cooling, module failure, etc
Dimension (W×D×H)	600×940×1965 mm
Weight	880 kg
Air Blower Model	
PBL-W60	
Blower Power	22 kW
Air Flow, Pressure	1.36 m ³ /s, 0.09 kgf/cm ²
Hose Diameter	200 mm
Dimension (W×D×H)	1075×871×1950 mm
Weight	394 kg
Accessories (standard)	
Wires/Hose Length	6 m (4)
Accessories	Center Ruler, Dust Cover, Installation Tools

Outline Drawing



Notes

- (1) This is sine working frequency defined as per standard ISO 5344. Sine working frequency can start from 2Hz, and Random working frequency can start from 1Hz.
- (2) Degaussing coil (magnetic flux leakage <1mT) is optionally available.
- (3) Power supply can be customized as per standard of different countries/area.
- (4) Electricity wires/cables length can be customized as per request.



Vibration test system 60kN - G753A

Specification

V3.9

ECON

EDM-6000-G753A

Electro-dynamic Vibration Testing System (Air Cooled)

Features

- Double field coil design to reinforce uniform magnetic field
- Standard IOT (Isolator on Trunnion) design to enhance cross axial stiffness and give flexible full displacement at low frequencies and heavy loads
- Equipped with fully automatic centering control (ACC) on all models
- Fully automatic pneumatic load compensation for heavy test loads
- Standard degauss kit to reduce magnetic flux leakage
- Latest SiC-FET technique based, modularized power module with higher switching frequency range, SNR and more safety
- Smarter remote control on power amplifier thru Ethernet connectivity
- System MTBF > 6,000 Hours, long-time operation with minimum maintenance
- Optional foundation-free design to save cost to build specific foundation
- Optional head expander, slip table, chamber thermal barrier

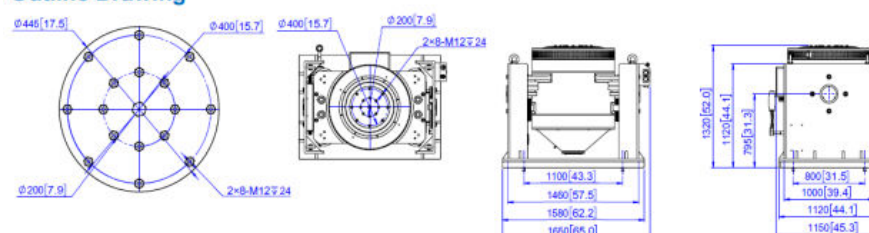


Performances

Shaker Model	EDM-6000
Rated Sine Force	60 kN
Random Force (rms)	42 kN
Shock Force	120 kN
Usable Frequency Range	5-2,500 Hz (1)
Max. Displacement (p-p)	76 mm
Max. Velocity	2.0 m/s
Max. Acceleration (sine, bare table)	981 m/s ²
Max. Load	1,000 kg
Armature Diameter	445 mm
Effective Moving Elements Mass	58 kg
Armature Fundamental Resonance	2,000 Hz
	(Bare table, ±5%)
Body Suspension Natural Frequency	<3 Hz
Overturning Movement	>1,000 Nm
Magnetic Flux Leakage	<5 mT (2)
Load Attachment Points	16xM12
Armature Insert Pattern	8x200 mm, 8x400 mm
Dimension (W×D×H, without slip table)	1650×1150×1320 mm
Weight (without slip table)	5,400 kg
Working Environment	
Temperature	0~40 °C
Humidity (RH, non-condensing)	10~90%
Power Supply Requirement	3-phase 380V/50Hz (3)
Max. Power Consumption	105 kVA
Earthing Impedance Requirement	≤4Ω
Compressed Air Requirement	0.6 Mpa

Power Amplifier Model	VSA-G753A
Amplifier Type	Digital Switching
Power Module	SiC-FET
Remote Control	Ethernet+Software
Rated Power Output	75 kVA
Max. Output Voltage	320 Vrms
Max. Output Current	235 Arms
Switching Frequency	400 kHz
Signal to Noise Ratio	>70 dB
Conversion Efficiency	>93%
Frequency Response	±1.5 dB (5-5,000Hz), ±3 dB (DC-5,000Hz)
Harmonic Distortion	<0.8% (5-5,000Hz)
Parallel Operation Current Unbalanceness	≤1.0%
Operation	Touch Screen (7")
Interlocks and Protection	voltage, current, travel, temperature cooling, module failure, etc
Dimension (W×D×H)	660×880×1750 mm
Weight	760 kg
Air Blower Model	
PBL-W60	
Blower Power	22 kW
Air Flow, Pressure	1.36 m ³ /s, 0.09 kgf/cm ²
Hose Diameter	200 mm
Dimension (W×D×H)	1075×871×1950 mm
Weight	394 kg
Accessories (standard)	
Wires/Hose Length	6 m (4)
Accessories	Center Ruler, Dust Cover, Installation Tools

Outline Drawing



Notes

- (1) This is sine working frequency defined as per standard ISO 5344. Sine working frequency can start from 2Hz, and Random working frequency can start from 1Hz.
- (2) Degaussing coil (magnetic flux leakage <1mT) is optionally available.
- (3) Power supply can be customized as per standard of different countries/area.
- (4) Electricity wires/cables length can be customized as per request.





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MAINTENANCE

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