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Spectral Dynamics Electrodynamic Shaker Systems

Consolidated Technical Summary — Shaker • Amplifier • Blower

Spectral Dynamics, Inc. | 30 systems | Compiled 17 Aug 2026

All values shown in multiple units — Force: lbf / N / kgf • Displacement: in / mm • Velocity: in/sec / m/s • Mass: lbm / kg

1. SD-110-120M / SPA601

Entry-level Electrodynamic Shaker

Force (Sine / Random / Shock)	Sine: 112 lbf / 500 N / 51 kgf Random: 79 lbf / 350 N / 36 kgf Shock: 225 lbf / 1,000 N / 102 kgf
Armature / Table Diameter	120 mm (4.72 in)
Armature Stroke (Max. Displacement, p-p)	0.79 in / 20 mm
Maximum Acceleration	30 g
Maximum Velocity	47.24 in/sec / 1.2 m/s
Maximum Payload Capacity (Vertical Load Support)	44 lbm / 20 kg
Amplifier Rated Capacity	SPA601 (linear) — supply 1.3 kVA
Total Power Requirement (incl. blower)	AC 220 V $\pm$ 10%, 50/60 Hz, 1-Ph, 1.3 kVA
Usable Frequency Range	5 – 10,000 Hz
Blower / Cooling	Internal axial fan (no external blower)



S P E C T R A L
D Y N A M I C S

2. SD-220-120M / SPA102B / ACU751

Low Force Vibration System

Force (Sine / Random / Shock)	Sine: 220 lbf / 981 N / 100 kgf Random: 220 lbf / 981 N / 100 kgf Shock: 441 lbf / 1,961 N / 200 kgf
Armature / Table Diameter	120 mm (4.72 in)
Armature Stroke (Max. Displacement, p-p)	0.98 in / 25 mm
Maximum Acceleration	65 g
Maximum Velocity	62.99 in/sec / 1.6 m/s
Maximum Payload Capacity (Vertical Load Support)	154 lbm / 70 kg
Amplifier Rated Capacity	1 kVA
Total Power Requirement (incl. blower)	1-Ph 230/115 VAC — Amp 1 + Field 1 + Blower 1 kVA (separate feeds)
Usable Frequency Range	5 – 6,000 Hz
Blower / Cooling	0.75 kW



S P E C T R A L
D Y N A M I C S

3. SD-660-150M / SPA302B / ACU751

Low Force Vibration System

Force (Sine / Random / Shock)	Sine: 661 lbf / 2,942 N / 300 kgf Random: 661 lbf / 2,942 N / 300 kgf Shock: 1,323 lbf / 5,884 N / 600 kgf
Armature / Table Diameter	150 mm (5.91 in)
Armature Stroke (Max. Displacement, p-p)	1.50 in / 38 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	154 lbm / 70 kg
Amplifier Rated Capacity	3 kVA
Total Power Requirement (incl. blower)	1-Ph 230/115 VAC — Amp 2.2 + Field 2.5 + Blower 1 kVA
Usable Frequency Range	5 – 4,000 Hz
Blower / Cooling	0.75 kW



S P E C T R A L
D Y N A M I C S

4. SD-500-150M / SPA302B / ACU751

Low Force Vibration System

Force (Sine / Random / Shock)	Sine: 500 lbf / 2,224 N / 227 kgf Random: 500 lbf / 2,224 N / 227 kgf Shock: 1,000 lbf / 4,448 N / 454 kgf
Armature / Table Diameter	150 mm (5.91 in)
Armature Stroke (Max. Displacement, p-p)	1.50 in / 38 mm
Maximum Acceleration	75 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	154 lbm / 70 kg
Amplifier Rated Capacity	3 kVA
Total Power Requirement (incl. blower)	1-Ph 230/115 VAC — Amp 2.2 + Field 2.5 + Blower 1 kVA
Usable Frequency Range	5 – 4,000 Hz
Blower / Cooling	0.75 kW



S P E C T R A L
D Y N A M I C S

5. SD-1510-230M / SPA602B / ACU402

Low Force Vibration System

Force (Sine / Random / Shock)	Sine: 1,521 lbf / 6,767 N / 690 kgf Random: 1,521 lbf / 6,767 N / 690 kgf Shock: 3,042 lbf / 13,533 N / 1,380 kgf
Armature / Table Diameter	230 mm (9.06 in)
Armature Stroke (Max. Displacement, p-p)	Sine sweep: 1.89 in / 48 mm Shock: 2.05 in / 52 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	661 lbm / 300 kg
Amplifier Rated Capacity	6 kVA
Total Power Requirement (incl. blower)	220/380/415/480 VAC, 50/60 Hz, 3-Ph, 17.5 kVA (incl. blower)
Usable Frequency Range	5 – 4,000 Hz
Blower / Cooling	4 kW



S P E C T R A L
D Y N A M I C S

6. SD-2420-240M / SPA103C / ACU402

Low Force Vibration System

Force (Sine / Random / Shock)	Sine: 2,425 lbf / 10,787 N / 1,100 kgf Random: 2,425 lbf / 10,787 N / 1,100 kgf Shock: 7,275 lbf / 32,362 N / 3,300 kgf
Armature / Table Diameter	240 mm (9.45 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	661 lbm / 300 kg
Amplifier Rated Capacity	10 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 22 kVA (incl. blower)
Usable Frequency Range	5 – 3,000 Hz
Blower / Cooling	4 kW



S P E C T R A L
D Y N A M I C S

7. SD-2420-335M / SPA103C / ACU402

Low Force Vibration System

Force (Sine / Random / Shock)	Sine: 2,425 lbf / 10,787 N / 1,100 kgf Random: 2,425 lbf / 10,787 N / 1,100 kgf Shock: 7,275 lbf / 32,362 N / 3,300 kgf
Armature / Table Diameter	335 mm (13.19 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	85 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	661 lbm / 300 kg
Amplifier Rated Capacity	10 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 22 kVA (incl. blower)
Usable Frequency Range	5 – 3,500 Hz
Blower / Cooling	4 kW



S P E C I A L
D Y N A M I C S

8. SD-2420LS3-240M / SPA103C / ACU402

Low Force System — Long Stroke (3")

Force (Sine / Random / Shock)	Sine: 2,425 lbf / 10,787 N / 1,100 kgf Random: 2,425 lbf / 10,787 N / 1,100 kgf Shock: 7,275 lbf / 32,362 N / 3,300 kgf
Armature / Table Diameter	240 mm (9.45 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 2.99 in / 76 mm Continuous: 2.48 in / 63 mm
Maximum Acceleration	80 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	661 lbm / 300 kg
Amplifier Rated Capacity	10 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 22 kVA (incl. blower)
Usable Frequency Range	5 – 2,900 Hz
Blower / Cooling	4 kW



S P E C T R A L
D Y N A M I C S

9. SD-4840-335 / SPA203A / ACU752

Medium Force Vibration System

Force (Sine / Random / Shock)	Sine: 4,850 lbf / 21,575 N / 2,200 kgf Random: 4,850 lbf / 21,575 N / 2,200 kgf Shock: 10,582 lbf / 47,072 N / 4,800 kgf
Armature / Table Diameter	335 mm (13.19 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	661 lbm / 300 kg
Amplifier Rated Capacity	20 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 42 kVA (incl. blower)
Usable Frequency Range	5 – 3,000 Hz
Blower / Cooling	7.5 kW



S P E C T R A L
D Y N A M I C S

10. SD-4840-335M / SPA203A / ACU752

Medium Force Vibration System

Force (Sine / Random / Shock)	Sine: 4,850 lbf / 21,575 N / 2,200 kgf Random: 4,850 lbf / 21,575 N / 2,200 kgf Shock: 9,700 lbf / 43,149 N / 4,400 kgf
Armature / Table Diameter	335 mm (13.19 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	115 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	661 lbm / 300 kg
Amplifier Rated Capacity	20 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 42 kVA (incl. blower)
Usable Frequency Range	5 – 2,800 Hz
Blower / Cooling	7.5 kW



S P E C T R A L
D Y N A M I C S

11. SD-4840LS4-340 / SPA203A / ACU752

Medium Force System — Long Stroke (4")

Force (Sine / Random / Shock)	Sine: 4,850 lbf / 21,575 N / 2,200 kgf Random: 4,409 lbf / 19,613 N / 2,000 kgf Shock: 9,700 lbf / 43,149 N / 4,400 kgf
Armature / Table Diameter	340 mm (13.39 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 3.94 in / 100 mm Continuous: 3.54 in / 90 mm
Maximum Acceleration	73 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	882 lbm / 400 kg
Amplifier Rated Capacity	20 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 42 kVA (incl. blower)
Usable Frequency Range	5 – 2,800 Hz
Blower / Cooling	7.5 kW



S P E C T R A L
D Y N A M I C S

12. SD-5280-440M / SPA203A / ACU752

Medium Force Vibration System

Force (Sine / Random / Shock)	Sine: 5,291 lbf / 23,536 N / 2,400 kgf Random: 4,850 lbf / 21,575 N / 2,200 kgf Shock: 10,582 lbf / 47,072 N / 4,800 kgf
Armature / Table Diameter	440 mm (17.32 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	882 lbm / 400 kg
Amplifier Rated Capacity	20 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 42 kVA (incl. blower)
Usable Frequency Range	5 – 3,000 Hz
Blower / Cooling	7.5 kW



S P E C T R A L
D Y N A M I C S

13. SD-6600-340 / SPA303A / ACU752

Medium Force Vibration System

Force (Sine / Random / Shock)	Sine: 6,614 lbf / 29,420 N / 3,000 kgf Random: 6,614 lbf / 29,420 N / 3,000 kgf Shock: 13,228 lbf / 58,840 N / 6,000 kgf
Armature / Table Diameter	340 mm (13.39 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	30 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 56 kVA (incl. blower)
Usable Frequency Range	5 – 3,000 Hz
Blower / Cooling	7.5 kW



S P E C T R A L
D Y N A M I C S

14. SD-6600-340M / SPA303A / ACU752

Medium Force Vibration System

Force (Sine / Random / Shock)	Sine: 6,614 lbf / 29,420 N / 3,000 kgf Random: 6,614 lbf / 29,420 N / 3,000 kgf Shock: 13,228 lbf / 58,840 N / 6,000 kgf
Armature / Table Diameter	340 mm (13.39 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	115 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	30 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 56 kVA (incl. blower)
Usable Frequency Range	5 – 2,800 Hz
Blower / Cooling	7.5 kW



S P E C T R A L
D Y N A M I C S

15. SD-6600-440M / SPA303A / ACU752

Medium Force Vibration System

Force (Sine / Random / Shock)	Sine: 6,614 lbf / 29,420 N / 3,000 kgf Random: 6,614 lbf / 29,420 N / 3,000 kgf Shock: 13,228 lbf / 58,840 N / 6,000 kgf
Armature / Table Diameter	440 mm (17.32 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	30 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 56 kVA (incl. blower)
Usable Frequency Range	5 – 3,000 Hz
Blower / Cooling	7.5 kW



S P E C T R A L
D Y N A M I C S

16. SD-6600LS4-440M / SPA303A / ACU752

Medium Force System — Long Stroke (4")

Force (Sine / Random / Shock)	Sine: 6,614 lbf / 29,420 N / 3,000 kgf Random: 6,614 lbf / 29,420 N / 3,000 kgf Shock: 13,228 lbf / 58,840 N / 6,000 kgf
Armature / Table Diameter	440 mm (17.32 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 3.94 in / 100 mm Continuous: 3.54 in / 90 mm
Maximum Acceleration	85 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	30 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph, 56 kVA (incl. blower)
Usable Frequency Range	5 – 3,000 Hz
Blower / Cooling	7.5 kW



S P E C T R A L
D Y N A M I C S

17. SD-8360-340 / SPA403A / ACU153

Medium Force Vibration System

Force (Sine / Random / Shock)	Sine: 8,378 lbf / 37,265 N / 3,800 kgf Random: 8,378 lbf / 37,265 N / 3,800 kgf Shock: 16,755 lbf / 74,531 N / 7,600 kgf
Armature / Table Diameter	340 mm (13.39 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	115 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	40 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 56 kVA (amp) + 20 kVA (blower)
Usable Frequency Range	5 – 3,000 Hz
Blower / Cooling	15 kW



S P E C T R A L
D Y N A M I C S

18. SD-8360-340M / SPA403A / ACU153

Medium Force Vibration System

Force (Sine / Random / Shock)	Sine: 8,378 lbf / 37,265 N / 3,800 kgf Random: 8,378 lbf / 37,265 N / 3,800 kgf Shock: 16,755 lbf / 74,531 N / 7,600 kgf
Armature / Table Diameter	340 mm (13.39 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	115 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	40 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 56 kVA (amp) + 20 kVA (blower)
Usable Frequency Range	5 – 2,800 Hz
Blower / Cooling	15 kW



S P E C T R A L
D Y N A M I C S

19. SD-8360-440M / SPA403A / ACU153

Medium Force Vibration System

Force (Sine / Random / Shock)	Sine: 8,378 lbf / 37,265 N / 3,800 kgf Random: 8,378 lbf / 37,265 N / 3,800 kgf Shock: 16,755 lbf / 74,531 N / 7,600 kgf
Armature / Table Diameter	440 mm (17.32 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	115 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	40 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 56 kVA (amp) + 20 kVA (blower)
Usable Frequency Range	5 – 3,000 Hz
Blower / Cooling	15 kW



S P E C I A L
D Y N A M I C S

20. SD-8360LS4-440M / SPA403A / ACU153

Medium Force System — Long Stroke (4")

Force (Sine / Random / Shock)	Sine: 8,378 lbf / 37,265 N / 3,800 kgf Random: 8,378 lbf / 37,265 N / 3,800 kgf Shock: 16,755 lbf / 74,531 N / 7,600 kgf
Armature / Table Diameter	440 mm (17.32 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 3.94 in / 100 mm Continuous: 3.54 in / 90 mm
Maximum Acceleration	110 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	40 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 56 kVA (amp) + 20 kVA (blower)
Usable Frequency Range	5 – 3,000 Hz
Blower / Cooling	15 kW



S P E C I A L
D Y N A M I C S

21. SD-11000-445M / SPA503A / ACU153

High Force Vibration System

Force (Sine / Random / Shock)	Sine: 11,023 lbf / 49,033 N / 5,000 kgf Random: 11,023 lbf / 49,033 N / 5,000 kgf Shock: 22,046 lbf / 98,067 N / 10,000 kgf
Armature / Table Diameter	445 mm (17.52 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	Standard: 2,205 lbm / 1,000 kg Optional: 4,409 lbm / 2,000 kg
Amplifier Rated Capacity	50 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 75 kVA (amp) + 20 kVA (blower)
Usable Frequency Range	5 – 2,600 Hz
Blower / Cooling	15 kW



S P E C T R A L
D Y N A M I C S

22. SD-11000LS3-445 / SPA503A / ACU153

High Force System — Long Stroke (3")

Force (Sine / Random / Shock)	Sine: 11,023 lbf / 49,033 N / 5,000 kgf Random: 11,023 lbf / 49,033 N / 5,000 kgf Shock: 22,046 lbf / 98,067 N / 10,000 kgf
Armature / Table Diameter	445 mm (17.52 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 2.99 in / 76 mm Continuous: 2.48 in / 63 mm
Maximum Acceleration	90 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	Standard: 2,205 lbm / 1,000 kg Optional: 4,409 lbm / 2,000 kg
Amplifier Rated Capacity	50 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 75 kVA (amp) + 20 kVA (blower)
Usable Frequency Range	5 – 2,700 Hz
Blower / Cooling	15 kW



S P E C T R A L
D Y N A M I C S

23. SD-11000LS3-445M / SPA503A / ACU153

High Force System — Long Stroke (3")

Force (Sine / Random / Shock)	Sine: 11,023 lbf / 49,033 N / 5,000 kgf Random: 11,023 lbf / 49,033 N / 5,000 kgf Shock: 22,046 lbf / 98,065 N / 10,000 kgf
Armature / Table Diameter	445 mm (17.52 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 2.99 in / 76 mm Continuous: 2.48 in / 63 mm
Maximum Acceleration	110 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	Standard: 2,205 lbm / 1,000 kg Optional: 4,409 lbm / 2,000 kg
Amplifier Rated Capacity	50 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 75 kVA (amp) + 20 kVA (blower)
Usable Frequency Range	5 – 2,500 Hz
Blower / Cooling	15 kW



S P E C T R A L
D Y N A M I C S

24. SD-11000LS4-445 / SPA503A / ACU153

High Force System — Long Stroke (4")

Force (Sine / Random / Shock)	Sine: 11,023 lbf / 49,033 N / 5,000 kgf Random: 11,023 lbf / 49,033 N / 5,000 kgf Shock: 22,046 lbf / 98,067 N / 10,000 kgf
Armature / Table Diameter	445 mm (17.52 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 3.94 in / 100 mm Continuous: 3.54 in / 90 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	50 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 75 kVA (amp) + 20 kVA (blower)
Usable Frequency Range	5 – 2,300 Hz
Blower / Cooling	15 kW



S P E C T R A L
D Y N A M I C S

25. SD-13200-445 / SPA603A / ACU223

High Force Vibration System

Force (Sine / Random / Shock)	Sine: 13,228 lbf / 58,840 N / 6,000 kgf Random: 13,228 lbf / 58,840 N / 6,000 kgf Shock: 26,455 lbf / 117,680 N / 12,000 kgf
Armature / Table Diameter	445 mm (17.52 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	Standard: 2,205 lbm / 1,000 kg Optional: 4,409 lbm / 2,000 kg
Amplifier Rated Capacity	60 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 85 kVA (amp) + 30 kVA (blower)
Usable Frequency Range	5 – 2,800 Hz
Blower / Cooling	22 kW



S P E C I A L
D Y N A M I C S

26. SD-13200-445M / SPA603A / ACU223

High Force Vibration System

Force (Sine / Random / Shock)	Sine: 13,228 lbf / 58,841 N / 6,000 kgf Random: 13,228 lbf / 58,841 N / 6,000 kgf Shock: 26,455 lbf / 117,678 N / 12,000 kgf
Armature / Table Diameter	445 mm (17.52 in)
Armature Stroke (Max. Displacement, p-p)	2.01 in / 51 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	Standard: 2,205 lbm / 1,000 kg Optional: 4,409 lbm / 2,000 kg
Amplifier Rated Capacity	60 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 85 kVA (amp) + 30 kVA (blower)
Usable Frequency Range	5 – 2,600 Hz
Blower / Cooling	22 kW



S P E C T R A L
D Y N A M I C S

27. SD-13200LS3-445M / SPA603A / ACU223

High Force System — Long Stroke (3")

Force (Sine / Random / Shock)	Sine: 13,228 lbf / 58,840 N / 6,000 kgf Random: 13,228 lbf / 58,840 N / 6,000 kgf Shock: 26,455 lbf / 117,680 N / 12,000 kgf
Armature / Table Diameter	445 mm (17.52 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 2.99 in / 76 mm Continuous: 2.48 in / 63 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	Standard: 2,205 lbm / 1,000 kg Optional: 4,409 lbm / 2,000 kg
Amplifier Rated Capacity	60 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 85 kVA (amp) + 30 kVA (blower)
Usable Frequency Range	5 – 2,500 Hz
Blower / Cooling	22 kW



S P E C T R A L
D Y N A M I C S

28. SD-13200LS4-445M / SPA603A / ACU223

High Force System — Long Stroke (4")

Force (Sine / Random / Shock)	Sine: 13,228 lbf / 58,840 N / 6,000 kgf Random: 13,228 lbf / 58,840 N / 6,000 kgf Shock: 26,455 lbf / 117,680 N / 12,000 kgf
Armature / Table Diameter	445 mm (17.52 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 3.94 in / 100 mm Continuous: 3.54 in / 90 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	1,102 lbm / 500 kg
Amplifier Rated Capacity	60 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 85 kVA (amp) + 30 kVA (blower)
Usable Frequency Range	5 – 2,300 Hz
Blower / Cooling	22 kW



S P E C T R A L
D Y N A M I C S

29. SD-15400LS3-450 / SPA703A / ACU223

Large Force System — Long Stroke (3")

Force (Sine / Random / Shock)	Sine: 15,432 lbf / 68,647 N / 7,000 kgf Random: 15,432 lbf / 68,647 N / 7,000 kgf Shock: 30,865 lbf / 137,293 N / 14,000 kgf
Armature / Table Diameter	450 mm (17.72 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 2.99 in / 76 mm Continuous: 2.48 in / 63 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	Standard: 2,205 lbm / 1,000 kg Optional: 4,409 lbm / 2,000 kg
Amplifier Rated Capacity	70 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 95 kVA (amp) + 30 kVA (blower)
Usable Frequency Range	5 – 2,600 Hz
Blower / Cooling	22 kW



S P E C T R A L
D Y N A M I C S

30. SD-15400LS3-450M / SPA703A / ACU223

Large Force System — Long Stroke (3")

Force (Sine / Random / Shock)	Sine: 15,432 lbf / 68,645 N / 7,000 kgf Random: 15,432 lbf / 68,645 N / 7,000 kgf Shock: 30,865 lbf / 137,294 N / 14,000 kgf
Armature / Table Diameter	450 mm (17.72 in)
Armature Stroke (Max. Displacement, p-p)	Intermittent: 2.99 in / 76 mm Continuous: 2.48 in / 63 mm
Maximum Acceleration	100 g
Maximum Velocity	78.74 in/sec / 2 m/s
Maximum Payload Capacity (Vertical Load Support)	Standard: 2,205 lbm / 1,000 kg Optional: 4,409 lbm / 2,000 kg
Amplifier Rated Capacity	70 kVA
Total Power Requirement (incl. blower)	380/415/480 VAC, 50 Hz, 3-Ph — 95 kVA (amp) + 30 kVA (blower)
Usable Frequency Range	5 – 2,500 Hz
Blower / Cooling	22 kW



S P E C T R A L
D Y N A M I C S

Master Comparison — All Systems

Quick-reference in single units (force normalized to lbf). Full multi-unit values are in each system's section above.

#	System	Force Sine/Random (lbf)	Arm.Di a (mm)	Stroke (mm)	Max Acc (g)	Max Vel (m/s)	Payload (kg)	Amp (kVA)	Total Pwr (kVA)
1	SD-110-120M / SPA601	112 / 79	120	20	30	1.2	20	1.3*	1.3
2	SD-220-120M / SPA102B / ACU751	220 / 220	120	25	65	1.6	70	1	~3
3	SD-660-150M / SPA302B / ACU751	661 / 661	150	38	100	2	70	3	~5.7
4	SD-500-150M / SPA302B / ACU751	500 / 500	150	38	75	2	70	3	~5.7
5	SD-1510-230M / SPA602B / ACU402	1,521 / 1,521	230	48 / 52	100	2	300	6	17.5
6	SD-2420-240M / SPA103C / ACU402	2,425 / 2,425	240	51	100	2	300	10	22
7	SD-2420-335M / SPA103C / ACU402	2,425 / 2,425	335	51	85	2	300	10	22
8	SD-2420LS3-240M / SPA103C / ACU402	2,425 / 2,425	240	76 / 63	80	2	300	10	22
9	SD-4840-335 / SPA203A / ACU752	4,850 / 4,850	335	51	100	2	300	20	42
10	SD-4840-335M / SPA203A / ACU752	4,850 / 4,850	335	51	115	2	300	20	42
11	SD-4840LS4-340 / SPA203A / ACU752	4,850 / 4,409	340	100 / 90	73	2	400	20	42
12	SD-5280-440M / SPA203A / ACU752	5,291 / 4,850	440	51	100	2	400	20	42
13	SD-6600-340 / SPA303A / ACU752	6,614 / 6,614	340	51	100	2	500	30	56
14	SD-6600-340M / SPA303A / ACU752	6,614 / 6,614	340	51	115	2	500	30	56
15	SD-6600-440M / SPA303A / ACU752	6,614 / 6,614	440	51	100	2	500	30	56
16	SD-6600LS4-440M / SPA303A / ACU752	6,614 / 6,614	440	100 / 90	85	2	500	30	56
17	SD-8360-340 / SPA403A / ACU153	8,378 / 8,378	340	51	115	2	500	40	~76
18	SD-8360-340M / SPA403A / ACU153	8,378 / 8,378	340	51	115	2	500	40	~76
19	SD-8360-440M / SPA403A / ACU153	8,378 / 8,378	440	51	115	2	500	40	~76
20	SD-8360LS4-440M / SPA403A / ACU153	8,378 / 8,378	440	100 / 90	110	2	500	40	~76
21	SD-11000-445M / SPA503A / ACU153	11,023 / 11,023	445	51	100	2	1,000 (+2,000 opt)	50	~95
22	SD-11000LS3-445 / SPA503A / ACU153	11,023 / 11,023	445	76 / 63	90	2	1,000 (+2,000 opt)	50	~95
23	SD-11000LS3-445M / SPA503A / ACU153	11,023 / 11,023	445	76 / 63	110	2	1,000 (+2,000 opt)	50	~95
24	SD-11000LS4-445 / SPA503A / ACU153	11,023 / 11,023	445	100 / 90	100	2	500	50	~95
25	SD-13200-445 / SPA603A / ACU223	13,228 / 13,228	445	51	100	2	1,000 (+2,000 opt)	60	~115
26	SD-13200-445M / SPA603A / ACU223	13,228 / 13,228	445	51	100	2	1,000 (+2,000 opt)	60	~115
27	SD-13200LS3-445M / SPA603A / ACU223	13,228 / 13,228	445	76 / 63	100	2	1,000 (+2,000 opt)	60	~115
28	SD-13200LS4-445M / SPA603A / ACU223	13,228 / 13,228	445	100 / 90	100	2	500	60	~115
29	SD-15400LS3-450 / SPA703A / ACU223	15,432 / 15,432	450	76 / 63	100	2	1,000 (+2,000 opt)	70	~125
30	SD-15400LS3-450M / SPA703A / ACU223	15,432 / 15,432	450	76 / 63	100	2	1,000 (+2,000 opt)	70	~125