

Head Expanders



Increase the Scope of Shaker Systems

Head Expanders

LDS Test and Measurement, a world leader in the development, manufacture and support of vibration test systems, offers a quality range of head expanders to increase the capability of existing shaker systems. This standard range brings a number of important benefits to users:

- All head expanders are designed using advanced finite element modelling techniques
- High quality manufacture secures reliability
- Choice of standard range of aluminium expanders or optional magnesium version to special order
- Aluminium models:
 - min. size – 254mm dia.
 - max. size – 1200mm sq.
- Magnesium models:
 - min. size – 254mm dia.
 - max. size – 812mm sq.
- Detailed structural analysis of head expander performance can be provided on order placement and prior to manufacture in order to verify customer expectations are being met.
- Full technical support is available

Use the table to select which head expander meets your system's needs, or simply contact your local LDS sales office or representative for advice.

Aluminium Head Expanders - Standard Range

Vibrator Model	Expander Size (mm)	Estimated Weight (kg)	*Usable Freq. Range (Hz)	Fn (Hz)	Height (mm)
V650	Ø254	4	3400	4000	90
V721	Ø305	5	2600	3000	90
V780	Ø305	5	2600	3000	90
V830-335	Ø610	52	2000	2100	165
	500 x 500	60	2000	1600	200
	600 x 600	41	500	1000	200
	600 x 600	73	2000	1500	260
V850-440	Ø610	45	2000	2400	115
	600 x 600	45	500	1100	200
	600 x 600	52	2000	1600	200
	750 x 750	87	2000	1300	260
V875-440	Ø610	45	2000	2400	115
	600 x 600	52	2000	1600	200
	750 x 750	87	2000	1300	260
	Ø812	96	2000	1600	260
V875-640	Ø812	115	2000	1700	160
	750 x 750	80	1000	1100	100
	1000 x 1000	120	500	700	206
	Ø812	115	2000	1700	160
V8-640	1000 x 1000	120	500	700	206
	1200 x 1200	250	500	600	340
	Ø610	45	2000	2400	115
	Ø812	96	2000	1600	260
V8-440	1000 x 1000	125	500	400	190
	1200 x 1200	260	500	300	300
	Ø812	96	2000	1500	260
	1000 x 1000	125	500	400	190
V964 (metric and imperial)	1200 x 1200	260	500	300	300

* Usable frequency range. The usable frequency range is defined as the range in which a sine sweep can be performed without abort. The range quoted indicates that the expander is controllable up to this frequency. Note that a highly resonant payload, particularly one of large mass, may limit the usable frequency and introduce new resonances into the system. For further information and advice on the usable frequency range please contact your local LDS sales office.





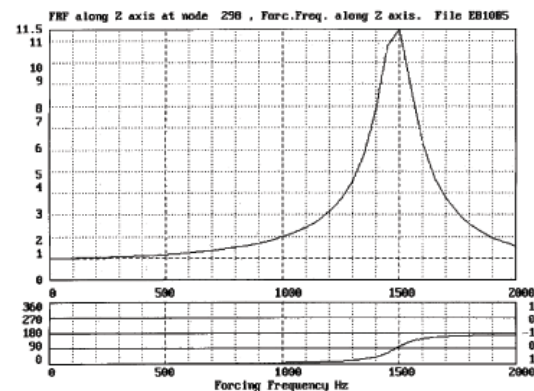
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Magnesium Head Expanders - Special Order Only

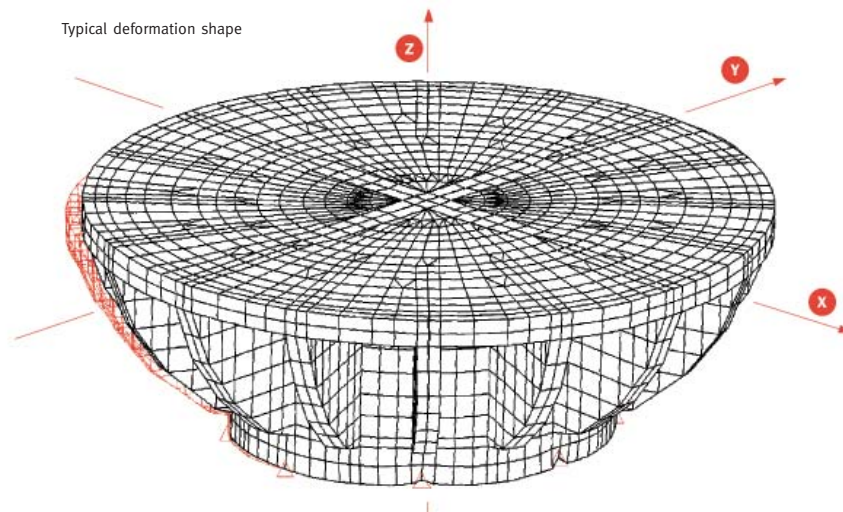
Vibrator Model	Expander Size (mm)	Estimated Weight (kg)	*Usable Freq. Range (Hz)	Fn (Hz)	Height (mm)
V650	Ø254	2.6	3400	4000	90
V721	Ø305	3.4	2500	2900	90
V830-335	Ø610	33	2000	2100	165
	500 x 500	39	2000	1600	200
	600 x 600	26	500	1000	200
	600 x 600	49	2000	1500	260
V850-440	Ø610	29	2000	2400	115
	600 x 600	30	500	1150	200
	600 x 600	35	2000	1650	200
	750 x 750	63	2000	1500	260
V875-440	Ø610	29	2000	2400	115
	600 x 600	35	2000	1650	200
	750 x 750	56	2000	1300	165
	Ø812	62	2000	1600	260
V8-640	Ø812	85	2000	1700	160
	750 x 750	51	1000	1100	100
V8-440	Ø610	29	2000	2400	115
	Ø812	62	2000	1600	260
V964 (metric and imperial)	Ø812	74	2000	1500	260

* Usable frequency range. The usable frequency range is defined as the range in which a sine sweep can be performed without abort. The range quoted indicates that the expander is controllable up to this frequency. Note that a highly resonant payload, particularly one of large mass, may limit the usable frequency and introduce new resonances into the system. For further information and advice on the usable frequency range please contact your local LDS sales office.

Typical calibration diagram



Typical deformation shape



LDS Test and Measurement Ltd
Jarman Way, Royston
Herts, SG8 5BQ

Phone: +44 (0) 1763 255 255
E-Mail: info-uk@lds.spx.com

LDS Test and Measurement LLC
8551 Research Way, M/S 140
Middleton, WI 53562 USA

Phone: +1 (608) 821-6600
E-Mail: info-us@lds.spx.com

LDS Test and Measurement GmbH
Carl-Zeiss-Ring 11-13
D-85737 Ismaning

Phone: +49 (0) 89 92 33 33 0
E-Mail: info-de@lds.spx.com

LDS Test and Measurement SARL
9 Avenue du Canada – BP 221
F-91942 Courtaboeuf CEDEX

Phone: +33 (0) 164864545
E-Mail: info-fr@lds.spx.com

LDS Test and Measurement
Room 2912, Jing Guang Centre
Beijing, China 100020

Phone: +86 10 6597 4006
E-Mail: info-cn@lds.spx.com

**Brüel & Kjær Sound & Vibration
Measurement A/S**

Skodsborgvej 307,
DK-2850 Nærum, Denmark

Phone: +45 4580 0500
Fax: +45 4580 1405

LDS

Brüel & Kjær

www.lds-group.com www.bksv.com