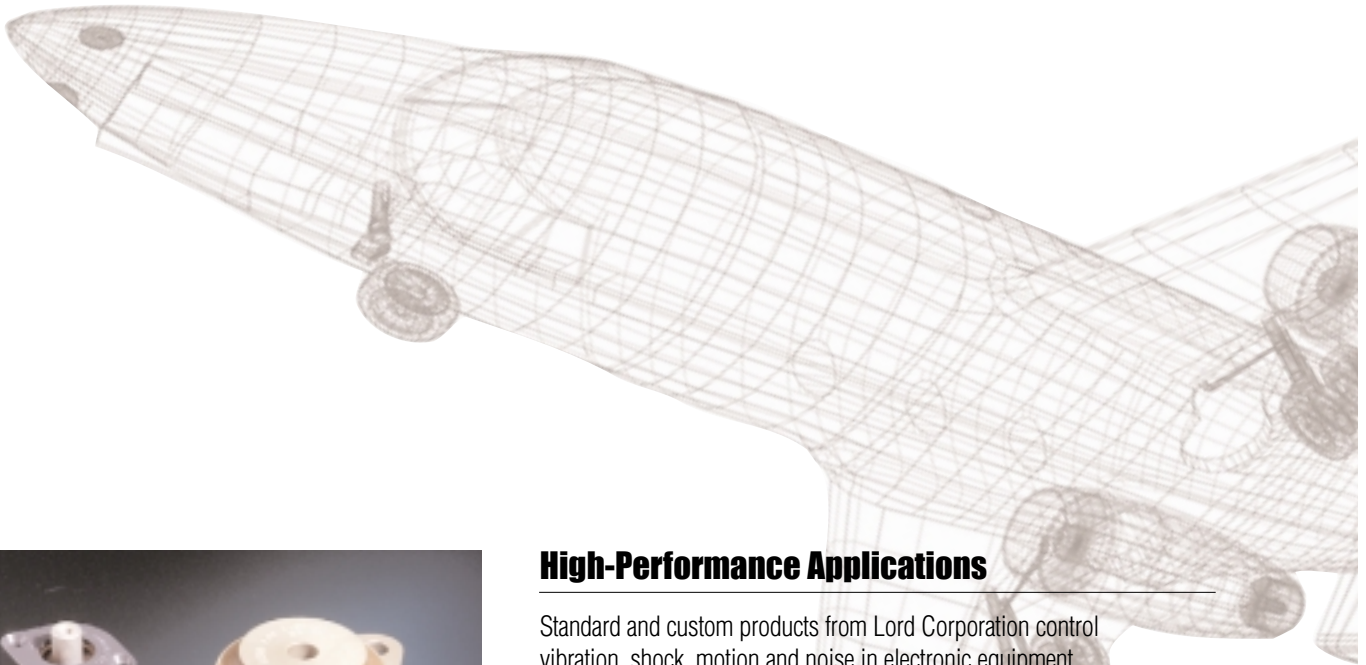


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# Electronic Equipment Isolators for the Aerospace Industry



## High-Performance Applications

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Standard and custom products from Lord Corporation control vibration, shock, motion and noise in electronic equipment applications. Our products protect and support instrumentation, monitoring and sensing devices, display units, and a range of control systems and components. Typical applications for Lord equipment isolators include inertial guidance and navigation systems, global positioning units, radar system components, pressure sensors, fuel controls and oil coolers. The Lord line of products also includes shipping container mounts that protect valuable products in transit from the shock that occurs during shipping and handling.

## Product Selection

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The standard products in this quick reference guide are designed for typical aerospace electronic and shipping container applications. The guide will help you select the most appropriate vibration isolator for your needs. The products listed operate in environments of  $-65^{\circ}\text{F}$  to  $+300^{\circ}\text{F}$ , with the exception of shipping container mounts, which operate in conditions ranging from  $-65^{\circ}\text{F}$  to  $+165^{\circ}\text{F}$ .

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SOLUTIONS FOR A WORLD IN MOTION

## Typical Aerospace Applications

	PRODUCT NAME	MOUNT TYPE	RATED LOAD RANGE		MAXIMUM DEFLECTION CAPABILITY		RATED DYNAMIC SPRING RATE		NATURAL FREQUENCY AT RATED LOAD
			MIN lbs	MAX lbs	AXIAL in	RADIAL in	MIN lbs/in	MAX lbs/in	Hz
<b>INSTRUMENTATION</b>									
	MULTIPLANE	PLATE-TYPE	0.25	8	0.50	0.26	3	80	10
	PLATFORM	PLATE-TYPE	0.25	12	0.50	0.26	8	400	18
<b>ELECTRONIC MODULES</b>									
	AM SERIES-SMALL	LOW-PROFILE	3	4.5	0.30	0.30	63	482	12-45
	AM SERIES-MEDIUM	LOW-PROFILE	4	10	0.23	0.23	61	1844	12-45
	AM SERIES-LARGE	LOW-PROFILE	15	25	0.23	0.23	700	4550	12-45
<b>AVIONIC EQUIPMENT</b>									
	PEDESTAL MOUNT	FAIL-SAFE, FULLY-BONDED CUP	8	60	0.19	0.22	638	3190	25
<b>SHIPPING CONTAINER</b>									
	J-18106 J-18100 J-18101 SERIES	SHIPPING CONTAINER	55	310	0.80	6.50	155	965	7-10
	J-18102 J-18105 SERIES	SHIPPING CONTAINER	110	450	1.0	4.90	290	1250	7-10
	J-18104 J-18103 SERIES	SHIPPING CONTAINER	415	1310	2.0	5.90	1060	3880	7-10

**More Demanding Requirements**

	PRODUCT NAME	MOUNT TYPE	RATED LOAD RANGE		MAXIMUM DEFLECTION CAPABILITY		RATED DYNAMIC SPRING RATE		NATURAL FREQUENCY AT RATED LOAD
			MIN lbs	MAX lbs	AXIAL in	RADIAL in	MIN lbs/in	MAX lbs/in	Hz
<b>SPACE-CONSERVING, ELECTRONIC MODULES</b>									
	MCB SERIES	FAIL-SAFE, CENTER-BONDED	1	10	0.14	0.12	575	27,000	40-120
	MGN/MGS SERIES	LIGHT-DUTY GROMMET	1	4	0.10	0.10	26	144	14-20
	MAA SERIES	MINIATURE	0.50	2	0.13	0.13	37	4185	27-165
<b>ALL-ATTITUDE, SENSITIVE EQUIPMENT FOR SEVERE DUTY</b>									
	HT/UT SERIES	FAIL-SAFE, BROAD TEMPERATURE RANGE TYPE HOLDER	1	150	0.40	0.26	49	6122	18-22
<b>SEVERE SHOCK</b>									
	HDM SERIES	HIGH DEFLECTION	12	50	0.75	3.0	620	2584	25-28
	SHDM SERIES	EXTRA-SOFT HIGH DEFLECTION	1	12	1.0	2.0	75	150	9-25
<b>EXTREME TEMPERATURE (UP TO +500° F)</b>									
	MM SERIES	METAL MESH COMPRESSION	0.50	14	0.30	0.25	64	7000	25-70
<b>VERY LIGHTWEIGHT SYSTEMS</b>									
	MX SERIES	MICRO-MOUNTS	—	0.20	0.50	0.75	2	12	15-34

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## Proven Solutions

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From our first rubber-to-metal engine mount in the 1930s to today's advanced active control systems, Lord Corporation has developed real-world solutions for the aerospace industry's toughest problems. In addition to our standard products, we develop custom, high-performance products for military and commercial electronics on aircraft, spacecraft, ships and ground vehicles. Customers rely on our expertise in:

- Acoustic and vibration problem diagnosis;
- Product design, development and manufacturing;
- Dynamic vibration and noise testing;
- Complete system optimization.

Lord products are available around the world through a service and support network that includes offices throughout North America, Europe and Asia.

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